

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P129293

Luminaire Tested: **VERD-A02-E-U-T2-7030-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P129293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24744)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-A02-E-U-T2-7030-AP  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS, GREY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9095 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

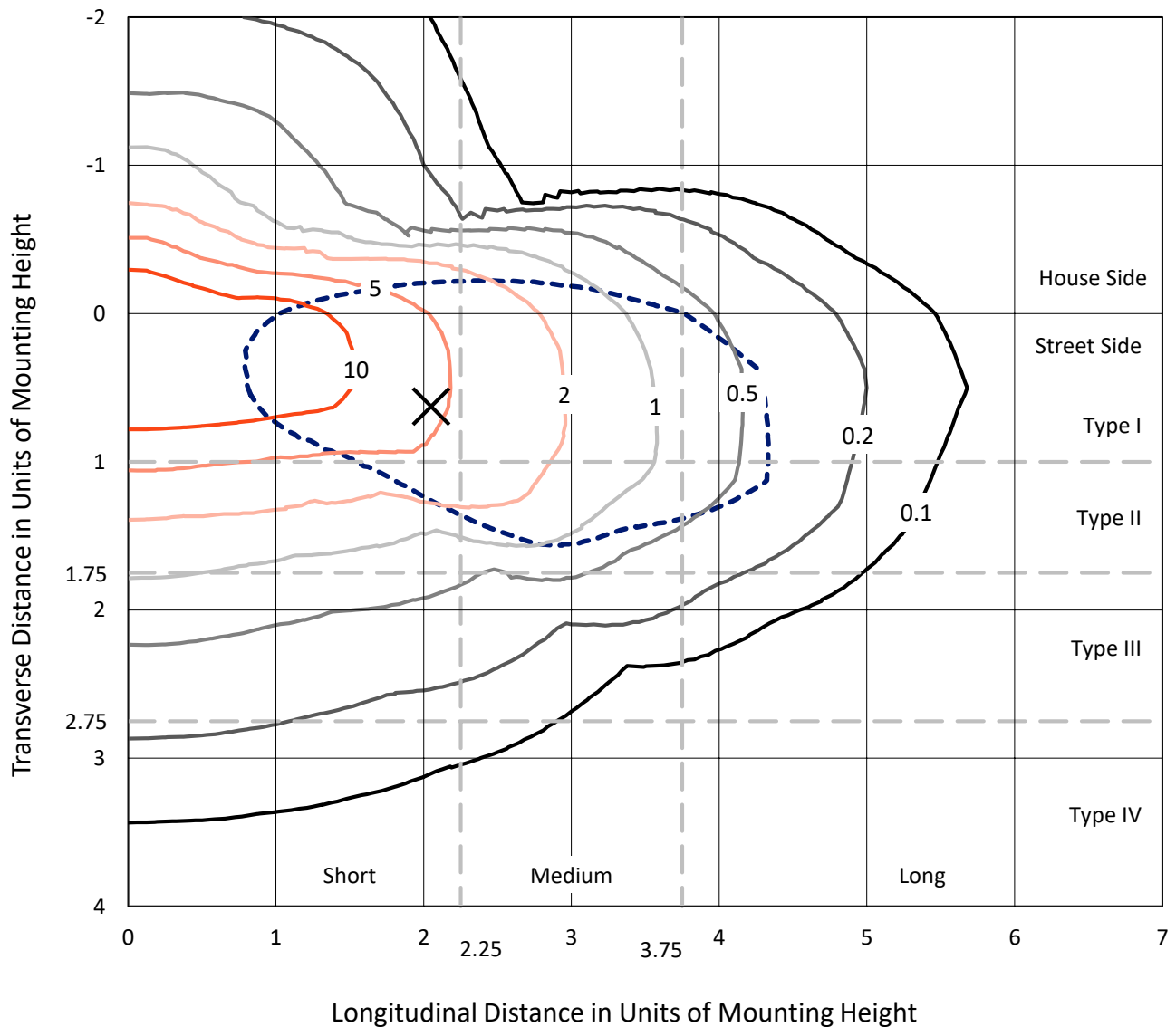
Input Watts (W): 92  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

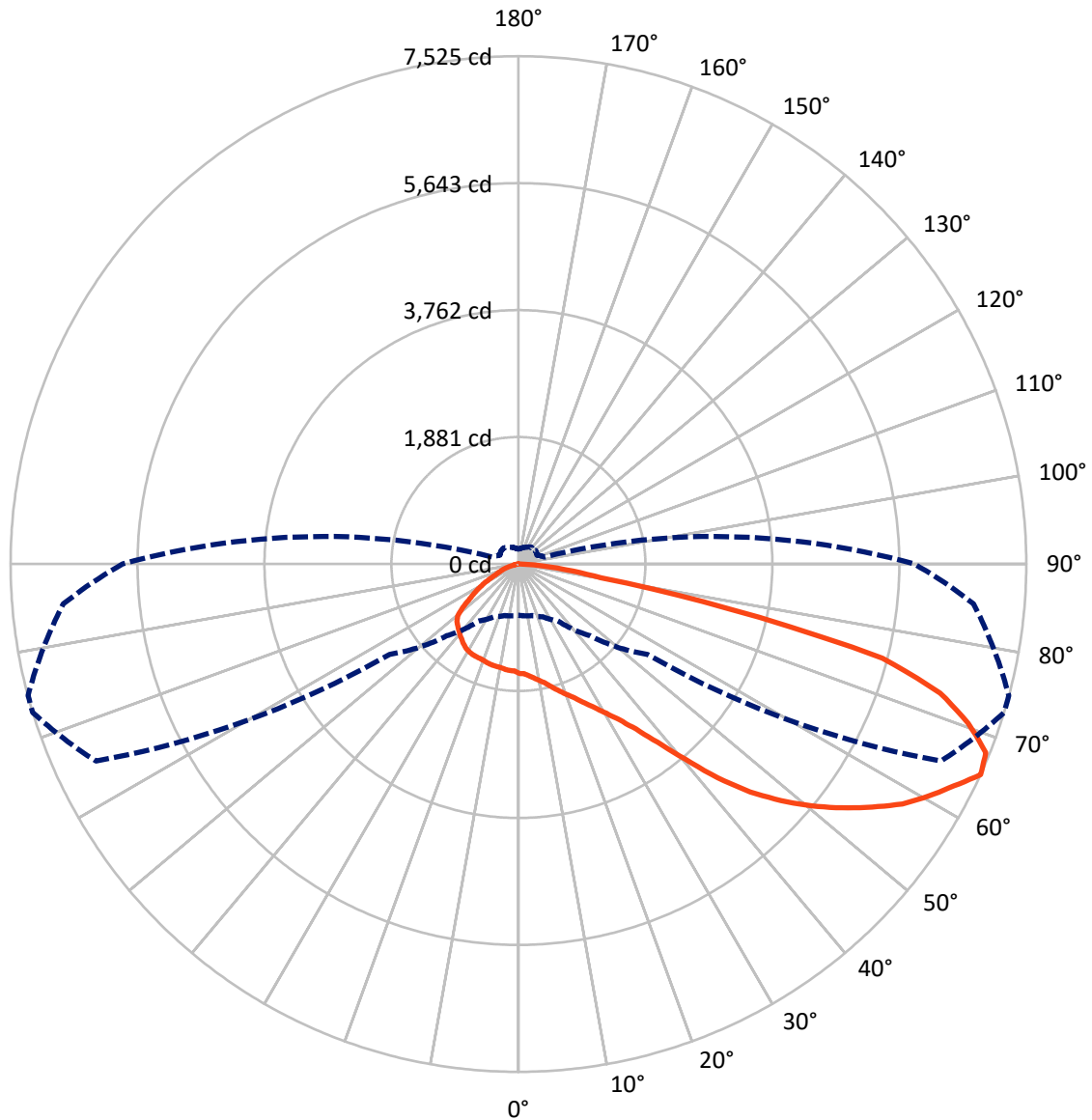
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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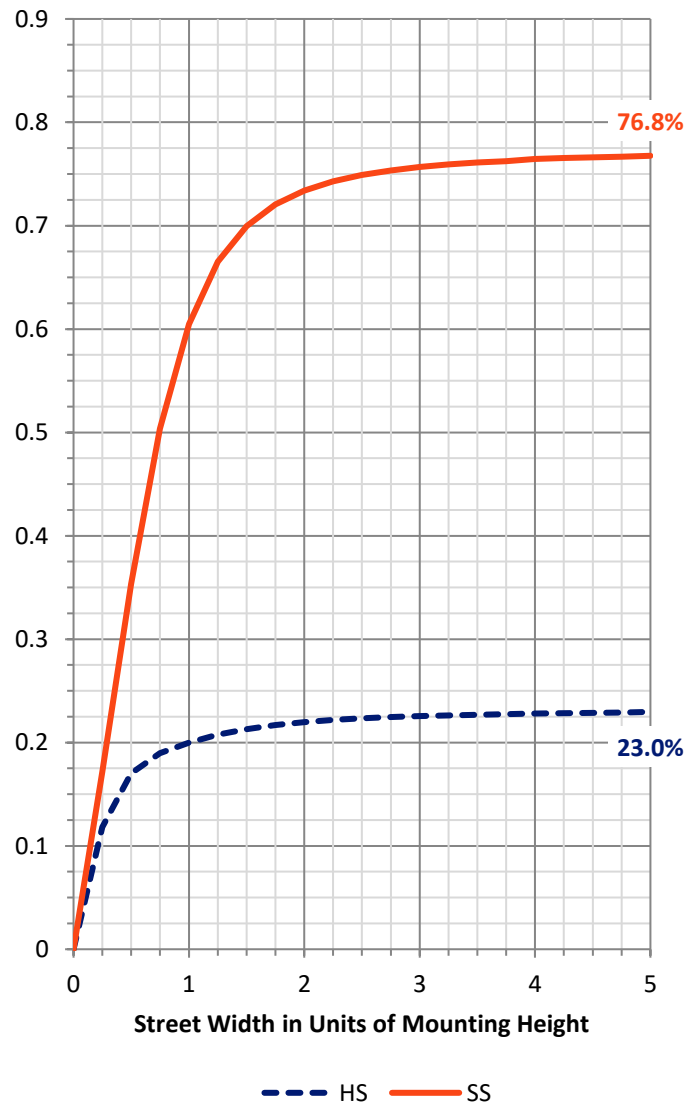
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2118.3	0.0	2118.3
	% Fixture	23.3	0.0	23.3
<b>Street Side</b>	Lumens	6976.7	0.0	6976.7
	% Fixture	76.7	0.0	76.7
<b>Total</b>	Lumens	9095.0	0.0	9095.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.8	1.7
10°-20°	486.9	5.4
20°-30°	817.6	9.0
30°-40°	1119.9	12.3
40°-50°	1494.2	16.4
50°-60°	1794.8	19.7
60°-70°	1910.0	21.0
70°-80°	1183.6	13.0
80°-90°	131.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9095.0	100.0
0°-180°	9095.0	100.0



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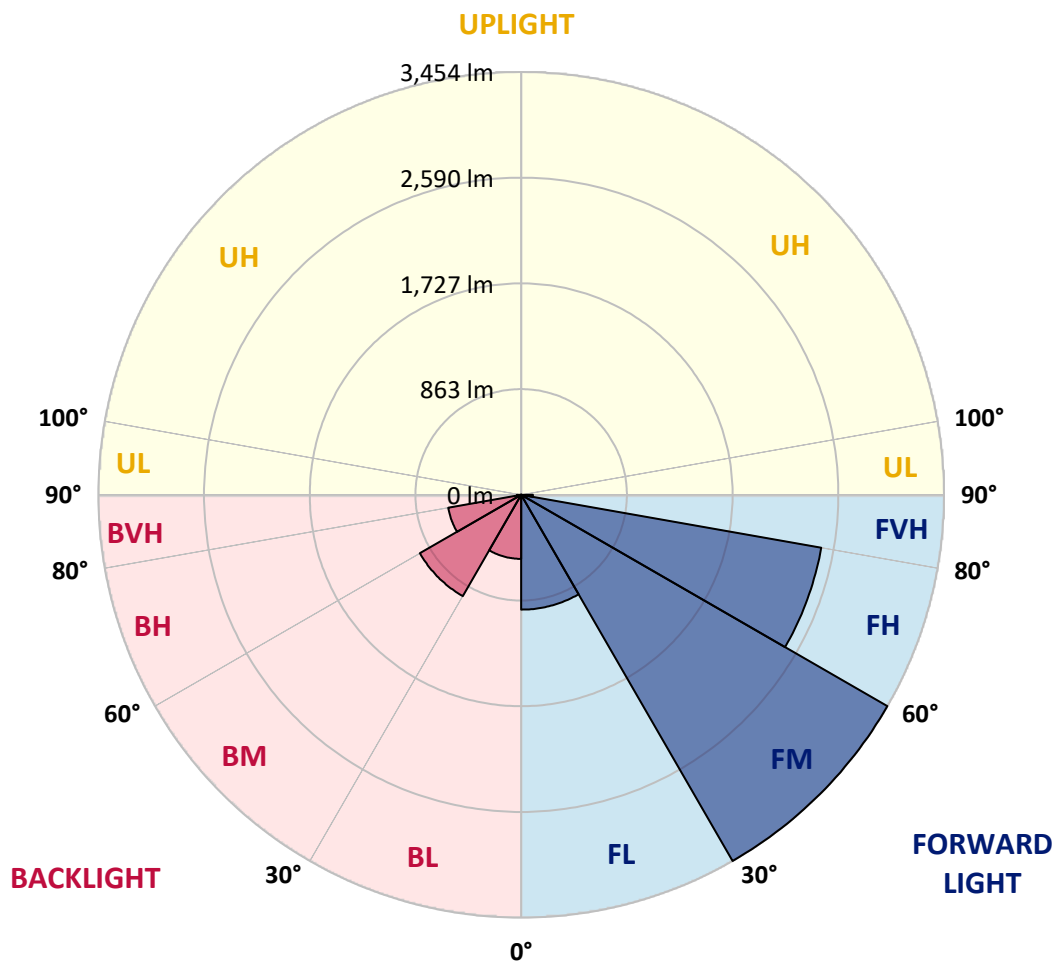
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.0	10.3			
FM	(30°-60°)	3453.8	38.0			
FH	(60°-80°)	2488.7	27.4			G2/5000
FVH	(80°-90°)	96.2	1.1			G1/100
BL	(0°-30°)	523.3	5.8	B2/1000		
BM	(30°-60°)	955.1	10.5	B1/1000		
BH	(60°-80°)	604.9	6.7	B2/1000		G2/1000
BVH	(80°-90°)	35.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1725.3	1721.4	1722.4	1718.4	1706.7	1694.0	1669.5	1649.0	1627.4	1623.5	1613.7
5°	1809.5	1807.5	1808.5	1802.6	1785.0	1762.5	1727.2	1694.0	1663.6	1655.8	1638.2
7.5°	1887.7	1887.7	1885.8	1876.0	1855.4	1827.1	1792.8	1749.8	1708.7	1697.9	1669.5
10°	1998.3	1993.4	1992.5	1975.8	1938.6	1899.5	1859.4	1810.4	1757.6	1741.9	1691.0
12.5°	2113.8	2108.9	2110.9	2087.4	2046.3	1981.7	1939.6	1881.9	1817.3	1800.6	1732.1
15°	2229.3	2220.5	2223.4	2202.9	2160.8	2102.1	2032.6	1968.0	1897.5	1878.0	1781.1
17.5°	2320.3	2314.4	2320.3	2305.6	2267.4	2212.6	2132.4	2063.9	1980.7	1959.2	1834.9
20°	2381.9	2382.9	2395.6	2391.7	2364.3	2313.4	2235.1	2161.7	2064.9	2041.4	1895.6
22.5°	2418.1	2422.1	2450.4	2474.9	2466.1	2407.4	2344.7	2262.5	2160.8	2137.3	1963.1
25°	2427.9	2433.8	2489.6	2553.2	2562.0	2516.0	2462.2	2372.2	2279.2	2253.7	2050.2
27.5°	2450.4	2455.3	2511.1	2583.5	2637.4	2616.8	2580.6	2492.5	2409.3	2381.0	2149.0
30°	2424.0	2427.9	2488.6	2584.5	2679.4	2708.8	2700.0	2630.5	2565.9	2533.6	2254.7
32.5°	2291.9	2308.5	2393.7	2555.2	2713.7	2798.8	2822.3	2792.0	2750.9	2714.7	2381.9
35°	2163.7	2175.5	2285.1	2486.6	2710.7	2874.2	2959.3	3005.3	3001.4	2965.2	2587.4
37.5°	2059.0	2072.7	2161.7	2387.8	2683.3	2946.6	3113.0	3275.4	3348.8	3326.3	2943.7
40°	1934.7	1951.3	2032.6	2256.7	2618.8	2991.6	3304.8	3577.8	3796.0	3808.8	3398.7
42.5°	1779.1	1805.5	1878.9	2089.3	2525.8	3017.1	3495.6	3912.5	4330.3	4338.2	3823.4
45°	1641.1	1662.7	1732.1	1913.2	2391.7	3019.0	3668.8	4274.6	4815.7	4808.9	4205.1
47.5°	1509.0	1537.4	1606.9	1764.4	2207.7	2978.9	3803.9	4640.6	5237.5	5224.8	4589.7
50°	1154.8	1188.0	1430.7	1625.5	1992.5	2868.3	3898.8	5016.4	5633.9	5618.2	4954.7
52.5°	1045.2	1052.0	1124.4	1470.9	1831.0	2655.9	3924.2	5407.8	6001.8	5971.5	5277.6
55°	990.4	990.4	1024.6	1210.5	1629.4	2325.2	3845.9	5785.5	6357.1	6322.8	5603.5
57.5°	922.8	924.8	973.7	1060.8	1434.6	2009.1	3634.6	6157.4	6707.4	6671.2	5919.6
60°	868.0	871.0	916.0	990.4	1239.9	1749.8	3218.6	6478.4	6983.4	6944.2	6242.6
62.5°	820.1	823.0	854.3	931.6	1134.2	1611.8	2785.1	6657.5	7241.7	7224.1	6544.9
65°	759.4	769.2	790.7	862.2	1031.5	1502.2	2334.0	6907.0	7524.5	7521.6	6768.1
67.5°	683.1	691.9	712.4	777.0	933.6	1375.9	2061.0	7102.8	7468.8	7466.8	6743.6
70°	592.1	592.1	622.4	682.1	814.2	1217.4	1812.4	6567.5	7071.4	7057.7	6281.7
72.5°	491.3	492.2	522.6	582.3	688.0	1011.9	1394.5	5599.6	6533.2	6565.5	5569.3
75°	422.8	423.7	450.2	505.0	584.2	804.4	977.6	2991.6	5570.2	5595.7	4687.5
77.5°	252.5	247.6	282.8	323.9	370.9	462.9	602.8	1517.8	3181.5	3674.7	3427.1
80°	62.6	64.6	173.2	206.5	227.0	210.4	270.1	609.7	1244.8	1432.7	1956.2
82.5°	35.2	39.1	103.7	128.2	124.3	62.6	92.0	300.4	707.5	796.6	935.6
85°	16.6	18.6	36.2	51.9	41.1	39.1	33.3	129.2	373.8	432.5	459.0
87.5°	8.8	8.8	16.6	20.6	18.6	18.6	13.7	9.8	6.9	7.8	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1612.7	1605.9	1589.3	1571.6	1565.8	1555.0	1555.0	1553.1	1547.2	1538.4	1526.6
5°	1628.4	1615.7	1589.3	1558.9	1535.4	1511.0	1500.2	1490.4	1481.6	1466.0	1455.2
7.5°	1647.0	1625.5	1583.4	1537.4	1494.3	1461.1	1441.5	1425.8	1413.1	1402.3	1392.6
10°	1661.7	1627.4	1569.7	1511.0	1451.3	1404.3	1377.9	1359.3	1344.6	1341.7	1330.9
12.5°	1692.0	1641.1	1565.8	1494.3	1420.0	1368.1	1329.0	1294.7	1282.0	1268.3	1263.4
15°	1733.1	1669.5	1565.8	1474.8	1387.7	1319.2	1272.2	1241.9	1206.6	1200.8	1186.1
17.5°	1774.2	1695.9	1559.9	1441.5	1339.7	1258.5	1196.8	1163.6	1143.0	1108.8	1099.0
20°	1815.3	1725.3	1551.1	1401.4	1280.0	1181.2	1104.9	1059.8	1062.8	1007.0	1008.0
22.5°	1855.4	1755.6	1548.2	1362.2	1217.4	1087.2	997.2	942.4	945.3	904.2	894.4
25°	1920.0	1797.7	1553.1	1327.0	1146.0	979.6	874.9	824.0	832.8	806.4	791.7
27.5°	1999.3	1847.6	1557.0	1283.9	1052.0	860.2	752.6	733.0	729.1	700.7	684.0
30°	2077.6	1894.6	1555.0	1224.2	943.4	716.3	662.5	644.9	619.5	592.1	581.3
32.5°	2167.6	1951.3	1545.2	1161.6	825.9	639.0	585.2	559.8	524.5	495.2	501.0
35°	2310.5	2034.5	1522.7	1086.3	682.1	574.4	505.0	467.8	440.4	412.0	419.8
37.5°	2571.8	2180.3	1495.3	997.2	597.9	502.0	409.1	381.7	369.9	358.2	372.9
40°	2972.0	2479.8	1477.7	883.7	531.4	412.0	323.9	332.7	347.4	337.6	352.3
42.5°	3335.1	2745.0	1465.0	733.0	447.2	321.0	305.3	325.9	342.5	340.6	334.7
45°	3671.7	2983.8	1463.0	556.8	352.3	307.3	306.3	321.0	344.5	342.5	338.6
47.5°	3996.6	3219.6	1448.3	439.4	341.5	313.2	312.2	320.0	348.4	345.4	342.5
50°	4312.7	3427.1	1376.9	393.4	351.3	327.8	318.0	316.1	339.6	340.6	333.7
52.5°	4597.5	3595.4	1211.5	380.7	361.1	340.6	324.9	316.1	321.0	320.0	314.1
55°	4882.3	3749.1	1008.0	374.8	365.0	349.4	347.4	322.0	311.2	293.6	300.4
57.5°	5138.7	3900.7	859.2	364.0	358.2	349.4	362.1	322.9	310.2	276.9	272.1
60°	5440.1	4059.3	699.7	351.3	346.4	342.5	341.5	322.9	303.4	265.2	252.5
62.5°	5728.8	4138.5	555.9	330.8	334.7	331.7	321.0	305.3	288.7	261.3	257.4
65°	5865.8	4015.2	400.3	304.3	319.0	323.9	306.3	275.0	250.5	227.0	221.2
67.5°	5720.0	3836.2	318.0	270.1	291.6	310.2	291.6	253.5	224.1	206.5	207.5
70°	5204.2	3584.6	259.3	226.1	251.5	288.7	281.8	241.7	204.5	188.9	190.8
72.5°	4672.9	3116.9	209.4	177.1	187.9	259.3	255.4	230.0	192.8	170.3	170.3
75°	3809.7	2226.3	152.7	128.2	129.2	212.4	230.0	191.8	157.6	127.2	123.3
77.5°	2650.1	1443.4	78.3	74.4	85.1	118.4	177.1	165.4	151.7	147.8	140.9
80°	1543.3	736.9	49.9	34.3	44.0	79.3	139.0	144.8	142.9	96.9	90.0
82.5°	729.1	212.4	29.4	21.5	25.4	37.2	82.2	125.3	118.4	69.5	66.5
85°	293.6	25.4	15.7	12.7	14.7	21.5	39.1	100.8	82.2	64.6	64.6
87.5°	5.9	5.9	5.9	5.9	6.9	9.8	19.6	54.8	44.0	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)