

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: P175659

Luminaire Tested: **VERD-G-A028-E-U-T5-7030-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P175659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26225)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-A028-E-U-T5-7030-AP  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K LEDS AT 80% STANDARD LUMENS AND TYPE V OPTICS, GREY  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11668 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G3

Input Watts (W): 103  
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

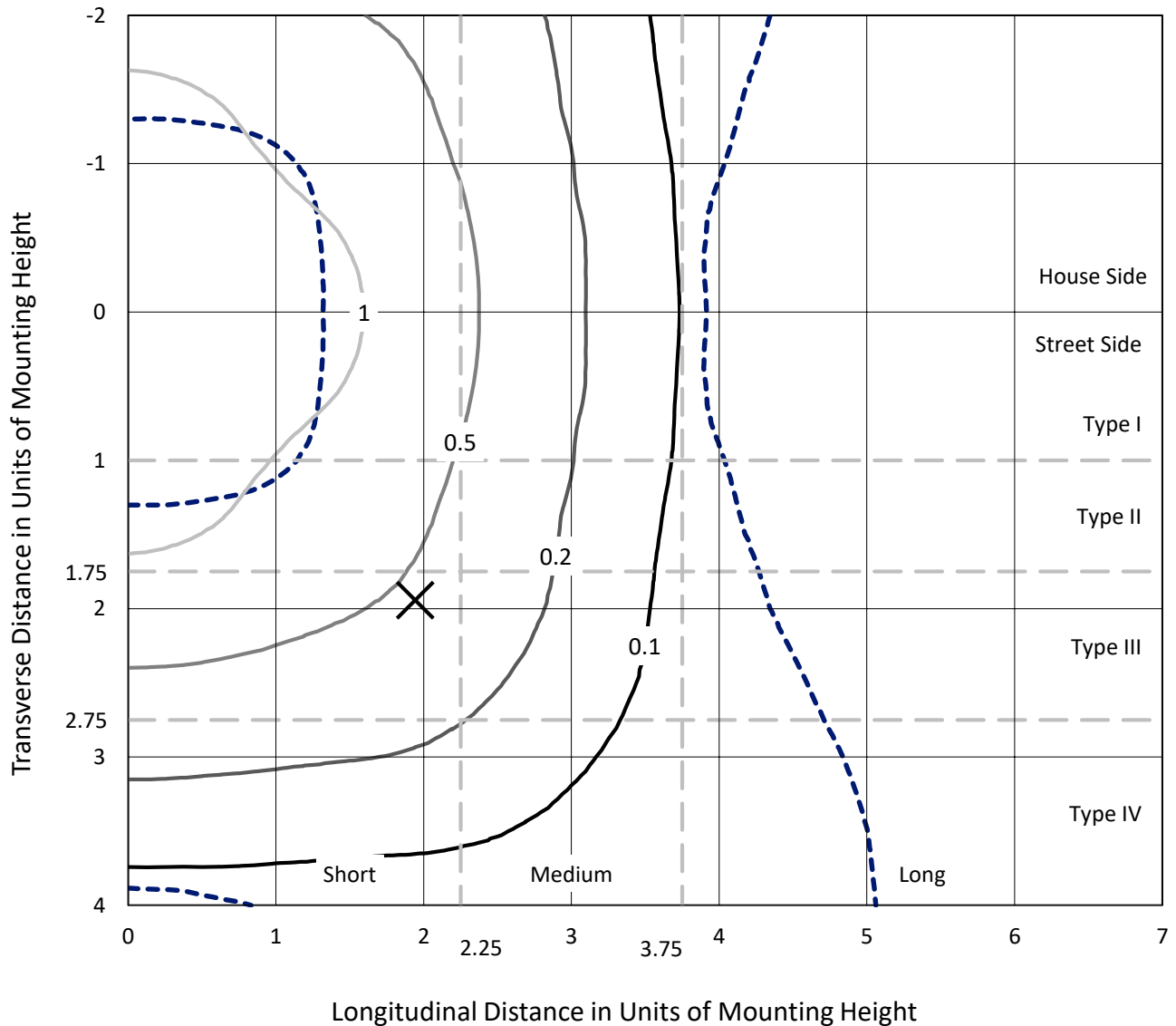


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

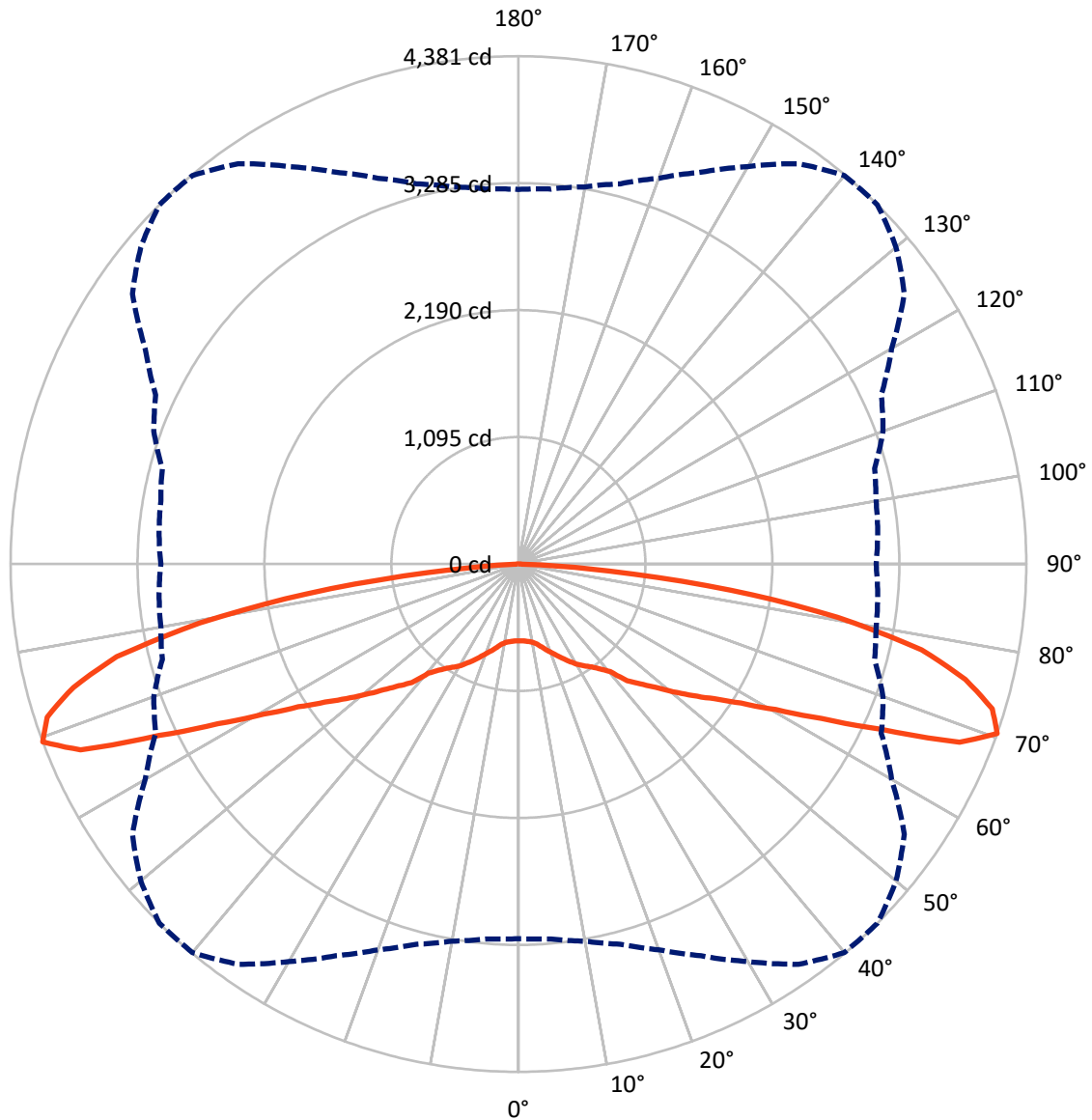


Based on 20 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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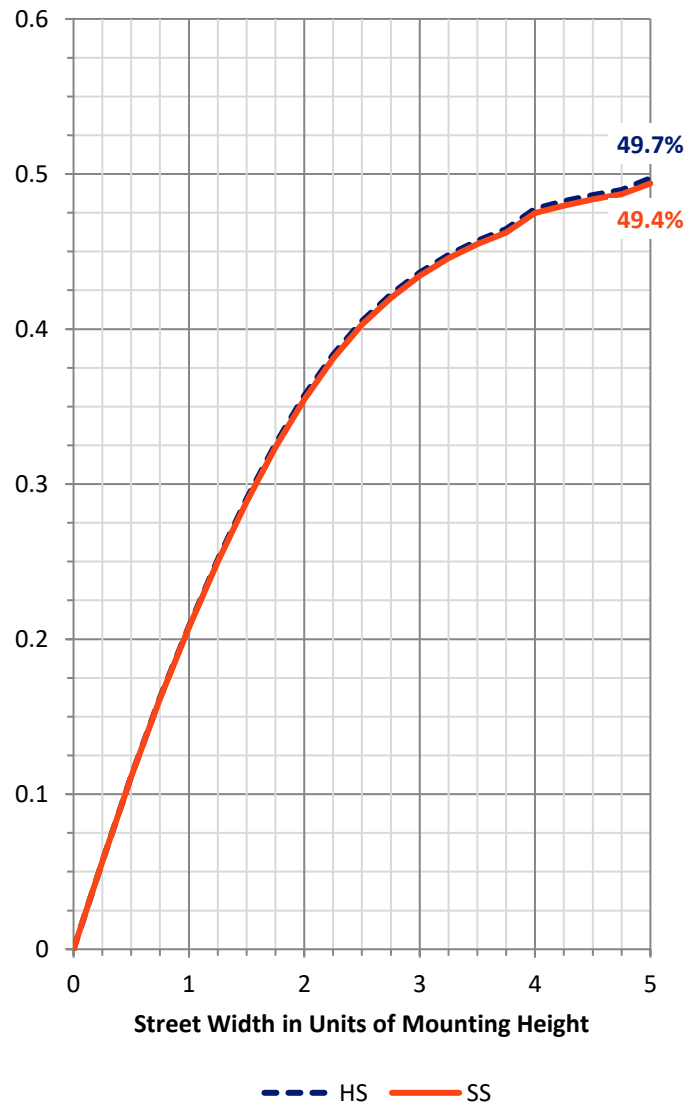
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5834.0	0.0	5834.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5834.0	0.0	5834.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11668.0	0.0	11668.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	0.6
10°-20°	211.5	1.8
20°-30°	410.3	3.5
30°-40°	685.9	5.9
40°-50°	1194.4	10.2
50°-60°	2036.3	17.5
60°-70°	3354.7	28.8
70°-80°	3069.7	26.3
80°-90°	640.7	5.5
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°	11668.0	100.0
0°-180°	11668.0	100.0



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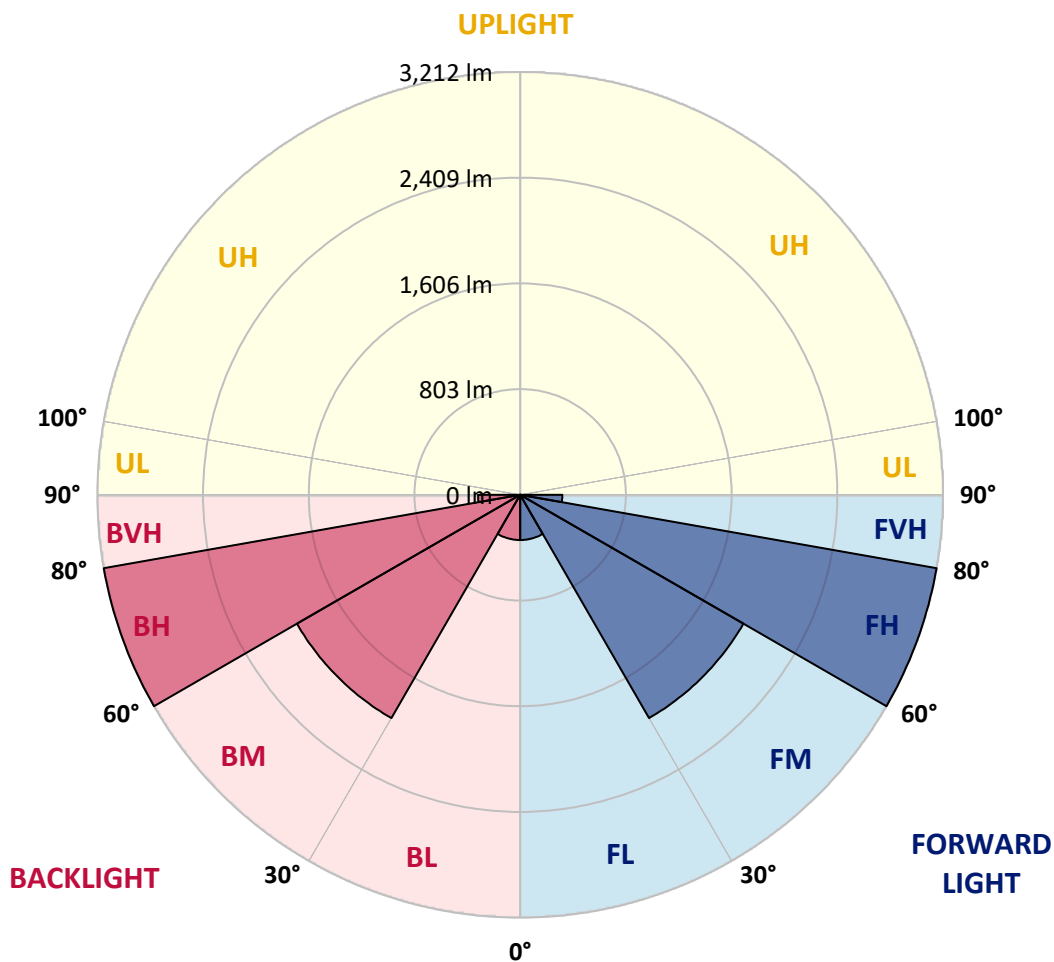
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	343.2	2.9			
FM	(30°-60°)	1958.3	16.8			
FH	(60°-80°)	3212.2	27.5			G2/5000
FVH	(80°-90°)	320.4	2.7			G3/500
BL	(0°-30°)	343.2	2.9	B1/500		
BM	(30°-60°)	1958.3	16.8	B2/2500		
BH	(60°-80°)	3212.2	27.5	B4/5000		G2/5000
BVH	(80°-90°)	320.4	2.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	663.4	663.4	663.4	663.4	663.4	663.4	663.4	663.4	663.4	663.4	663.4
2.5°	671.0	671.0	671.0	669.5	669.5	665.7	665.7	662.6	660.4	662.6	661.1
5°	678.5	677.0	676.3	674.7	674.7	672.5	671.0	667.9	667.2	668.7	667.2
7.5°	687.6	686.1	683.8	682.3	683.8	681.6	680.0	676.3	676.3	675.5	675.5
10°	700.5	698.2	697.4	695.9	697.4	692.9	692.9	689.9	688.4	686.9	687.6
12.5°	717.9	716.4	715.6	714.1	714.1	712.6	714.1	709.5	708.8	708.8	709.5
15°	743.6	741.3	740.6	739.0	739.0	740.6	741.3	739.0	741.3	741.3	739.0
17.5°	774.6	771.6	771.6	770.1	771.6	773.1	775.4	775.4	777.6	778.4	775.4
20°	807.1	804.1	803.3	802.6	805.6	807.1	811.7	815.4	818.5	816.2	810.2
22.5°	841.9	838.9	837.4	835.1	838.1	841.9	852.5	860.1	863.1	860.1	852.5
25°	879.0	877.5	876.7	872.9	871.4	879.0	892.6	902.4	908.5	906.2	900.2
27.5°	919.1	916.8	916.1	911.5	910.8	912.3	926.6	946.3	952.4	954.6	947.8
30°	959.2	956.9	956.1	953.9	952.4	952.4	959.9	980.4	999.3	1005.3	990.2
32.5°	1011.4	1008.3	1007.6	1003.0	1001.5	1002.3	1006.8	1016.7	1037.1	1047.7	1028.8
35°	1075.7	1072.6	1067.3	1065.1	1061.3	1062.0	1065.1	1074.1	1084.0	1090.0	1080.2
37.5°	1143.7	1140.7	1137.7	1134.7	1129.4	1129.4	1130.9	1137.7	1146.8	1148.3	1140.7
40°	1242.1	1242.8	1230.7	1227.0	1216.4	1214.1	1214.8	1217.9	1223.2	1219.4	1220.9
42.5°	1408.5	1396.4	1385.0	1381.3	1370.7	1367.6	1366.1	1369.2	1372.2	1376.0	1380.5
45°	1568.1	1562.1	1546.9	1531.8	1511.4	1495.5	1475.8	1463.0	1462.2	1472.8	1474.3
47.5°	1755.7	1745.9	1723.2	1702.0	1670.2	1640.7	1607.4	1586.3	1580.2	1589.3	1590.0
50°	1969.0	1957.7	1931.2	1904.0	1863.1	1826.1	1774.6	1741.3	1728.5	1731.5	1730.0
52.5°	2187.6	2176.3	2143.8	2120.3	2077.9	2028.0	1966.0	1915.3	1889.6	1884.3	1876.7
55°	2435.7	2423.6	2389.6	2363.9	2311.7	2258.7	2180.1	2115.0	2073.4	2050.7	2045.4
57.5°	2693.7	2679.3	2652.8	2611.2	2572.7	2503.8	2432.7	2354.1	2295.0	2261.8	2253.4
60°	2958.4	2946.3	2919.1	2897.2	2857.8	2807.9	2726.2	2647.6	2583.3	2550.0	2530.3
62.5°	3245.1	3237.6	3217.2	3202.8	3171.8	3115.8	3075.7	3012.9	2970.6	2934.2	2909.3
65°	3559.8	3557.6	3556.8	3562.1	3555.3	3528.1	3509.1	3466.8	3452.4	3435.0	3397.9
67.5°	3509.9	3522.8	3562.1	3613.5	3685.4	3765.6	3869.2	3953.9	4041.7	4102.9	4023.5
70°	3230.8	3246.7	3303.4	3394.9	3540.9	3728.5	3959.2	4214.9	4374.5	4380.6	4252.0
72.5°	2881.3	2895.7	2942.6	3074.2	3239.8	3523.5	3905.5	4192.2	4295.1	4274.7	4141.5
75°	2334.4	2364.6	2492.5	2623.3	2851.0	3158.2	3604.5	3908.5	4043.2	3983.4	3816.3
77.5°	1677.0	1676.3	1766.3	1960.7	2177.8	2545.4	3010.6	3407.8	3575.7	3555.3	3424.4
80°	908.5	941.0	1038.6	1199.0	1423.6	1737.6	2143.8	2520.5	2727.0	2794.3	2726.2
82.5°	405.5	422.9	490.2	621.0	761.0	990.9	1277.6	1563.6	1761.0	1843.5	1781.4
85°	127.8	132.4	156.6	220.1	289.0	410.0	572.6	753.4	849.5	785.2	675.5
87.5°	31.0	32.5	40.1	62.8	92.3	128.6	116.5	98.3	70.3	35.6	21.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	663.4	663.4	663.4	663.4	663.4	663.4	663.4	663.4
2.5°	661.1	660.4	661.1	661.9	661.9	661.1	661.1	662.6
5°	667.9	667.2	667.9	670.2	669.5	670.2	669.5	671.7
7.5°	674.7	674.0	673.2	675.5	675.5	676.3	675.5	677.0
10°	686.9	686.9	686.1	686.9	685.3	685.3	683.8	683.1
12.5°	707.3	706.5	707.3	705.0	703.5	702.7	701.2	699.0
15°	737.5	735.3	736.0	730.0	729.2	728.5	726.9	725.4
17.5°	770.8	765.5	764.8	758.0	758.7	756.4	754.2	754.2
20°	805.6	799.6	795.8	789.7	789.0	788.2	784.4	785.9
22.5°	845.7	836.6	831.3	826.0	823.0	824.5	821.5	823.0
25°	891.1	877.5	866.1	865.4	864.6	866.1	865.4	865.4
27.5°	932.7	912.3	904.7	908.5	908.5	910.0	913.0	912.3
30°	965.2	952.4	949.3	956.9	956.9	958.4	961.4	962.2
32.5°	1012.1	1005.3	1006.1	1015.9	1016.7	1020.4	1024.2	1027.3
35°	1071.9	1069.6	1075.7	1086.3	1089.3	1093.8	1100.6	1105.2
37.5°	1138.4	1143.7	1150.6	1162.7	1171.7	1177.8	1186.1	1190.6
40°	1233.8	1246.6	1258.0	1272.3	1279.9	1290.5	1300.3	1307.1
42.5°	1395.6	1404.0	1412.3	1424.4	1437.2	1446.3	1452.4	1456.9
45°	1494.0	1509.1	1530.3	1554.5	1578.7	1599.1	1615.0	1617.3
47.5°	1611.2	1634.7	1664.2	1702.0	1734.5	1754.2	1766.3	1773.1
50°	1751.9	1780.7	1822.3	1866.9	1904.0	1931.2	1946.3	1956.9
52.5°	1904.0	1940.3	1991.7	2046.9	2092.3	2119.6	2144.5	2156.6
55°	2076.4	2126.4	2189.9	2256.5	2306.4	2341.9	2360.1	2375.2
57.5°	2293.5	2356.3	2431.2	2497.0	2550.0	2588.5	2614.3	2627.1
60°	2581.0	2643.8	2710.3	2774.6	2834.4	2860.9	2883.6	2893.4
62.5°	2933.5	2981.1	3034.9	3081.0	3137.7	3176.3	3201.3	3208.8
65°	3395.7	3416.9	3475.9	3527.3	3527.3	3519.0	3515.2	3509.1
67.5°	3857.9	3715.6	3604.5	3550.0	3491.7	3447.9	3422.9	3407.8
70°	4063.6	3717.2	3453.2	3346.5	3180.1	3132.4	3111.3	3084.8
72.5°	3894.2	3494.0	3121.1	3029.6	2806.4	2832.1	2727.7	2683.9
75°	3536.4	3143.8	2810.2	2602.2	2492.5	2354.8	2298.8	2306.4
77.5°	3166.5	2730.0	2366.9	2156.6	2025.8	1890.4	1858.6	1859.3
80°	2452.4	2058.3	1750.4	1549.2	1392.6	1279.1	1186.9	1158.9
82.5°	1515.9	1251.2	1037.8	897.9	770.1	670.2	576.4	564.3
85°	516.7	410.7	306.4	247.4	196.7	158.9	129.4	124.8
87.5°	13.6	13.6	13.6	13.6	13.6	14.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)