

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: P198728

Luminaire Tested: **XNV-AF-01-LED-U-SL4-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL4-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5529 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

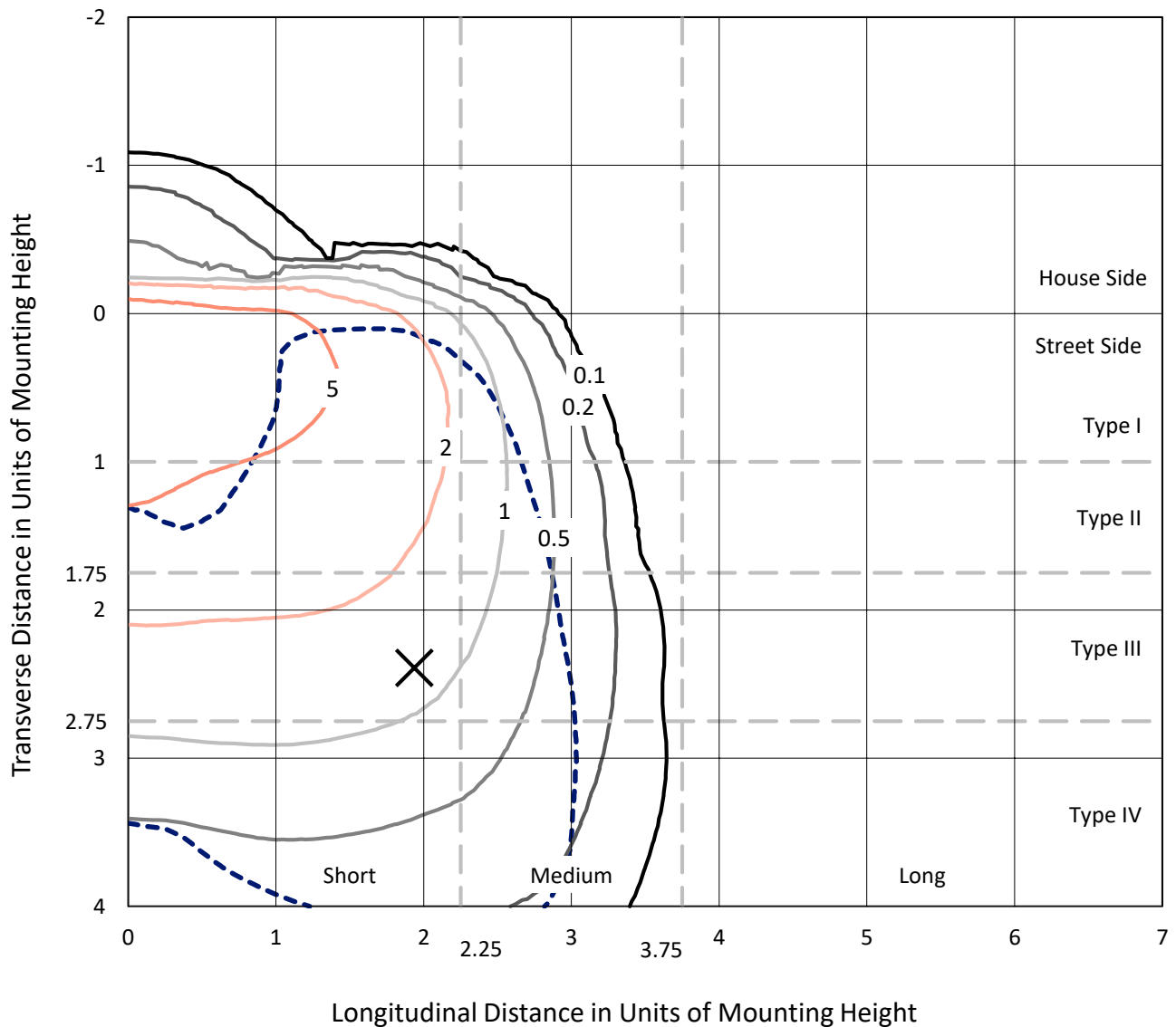
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

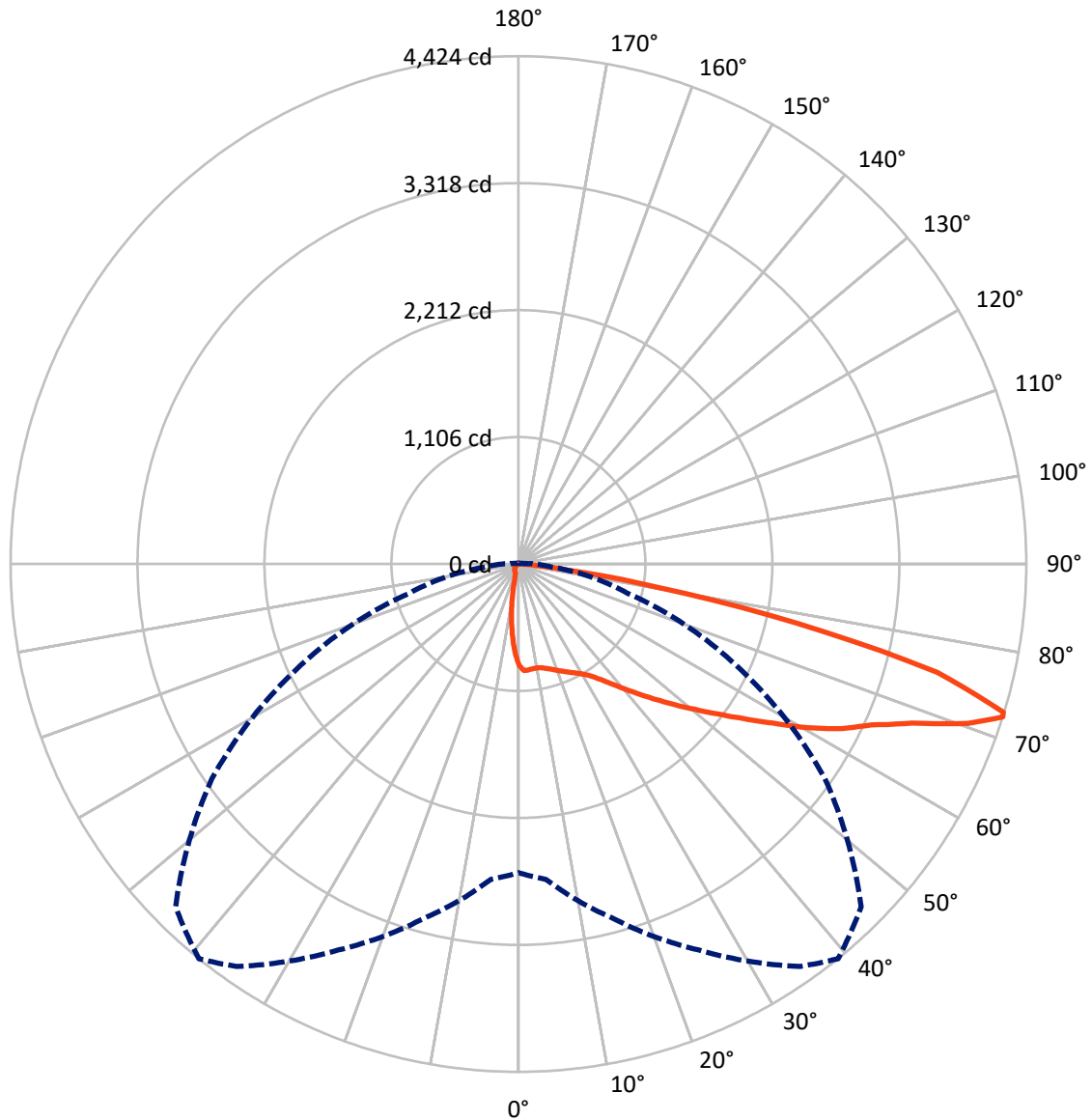
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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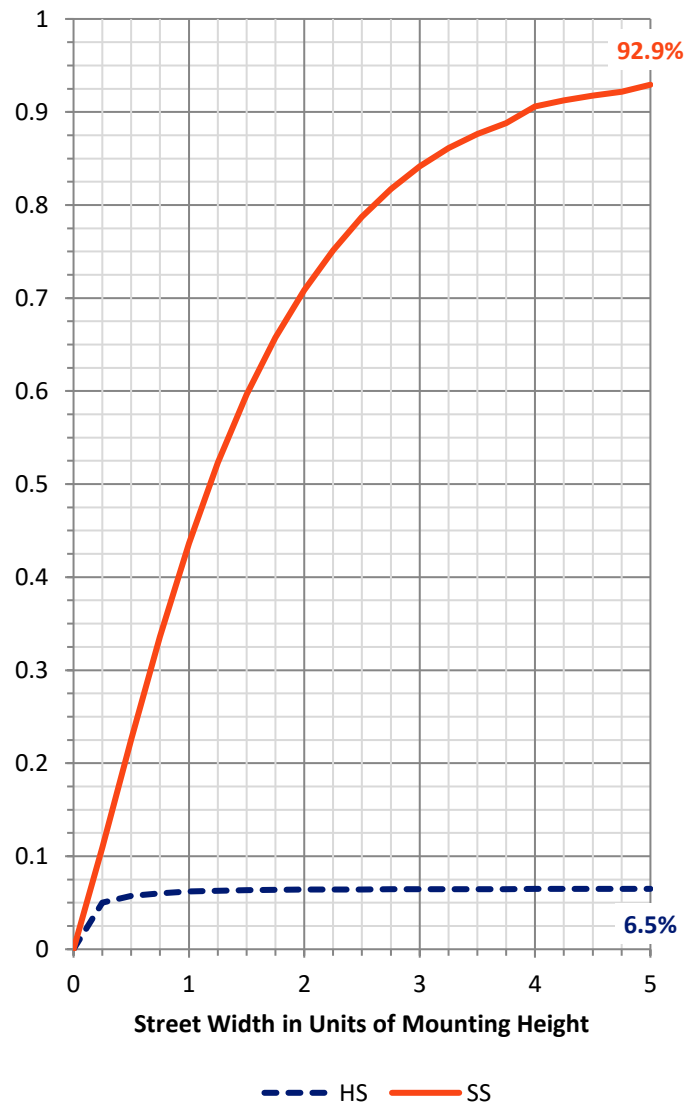
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	362.3	0.0	362.3
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	5166.7	0.0	5166.7
	% Fixture	93.4	0.0	93.4
Total	Lumens	5529.0	0.0	5529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.3
10°-20°	174.3	3.2
20°-30°	289.4	5.2
30°-40°	461.3	8.3
40°-50°	761.4	13.8
50°-60°	1149.9	20.8
60°-70°	1497.9	27.1
70°-80°	1012.1	18.3
80°-90°	110.8	2.0
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°	5529.0	100.0
0°-180°	5529.0	100.0

Coefficient of Utilization



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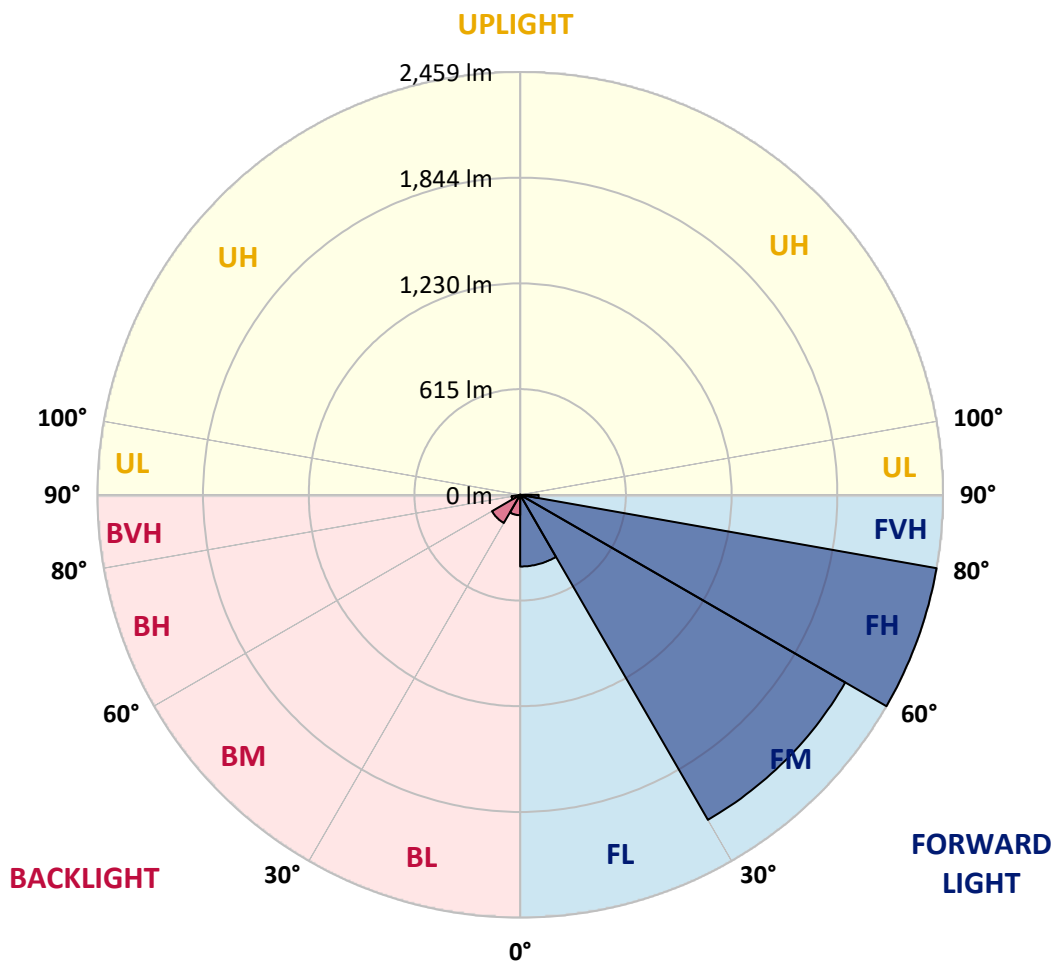
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.0	7.5			
FM	(30°-60°)	2182.9	39.5			
FH	(60°-80°)	2459.1	44.5			G2/5000
FVH	(80°-90°)	107.7	1.9			G2/225
BL	(0°-30°)	118.7	2.1	B1/500		
BM	(30°-60°)	189.6	3.4	B0/220		
BH	(60°-80°)	50.9	0.9	B0/110		G0/110
BVH	(80°-90°)	3.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
2.5°	942.3	944.1	941.9	937.9	932.3	928.8	924.0	913.6	900.6	889.4	876.3
5°	949.7	950.6	948.0	940.6	931.9	927.1	921.1	909.7	896.3	880.7	857.1
7.5°	951.9	951.4	948.4	939.3	925.8	919.7	909.3	895.4	881.5	867.2	840.7
10°	951.0	951.0	948.9	940.2	925.0	919.3	907.6	892.8	875.4	861.0	832.8
12.5°	948.0	949.7	948.4	943.7	932.3	928.0	917.6	902.8	886.3	871.5	841.5
15°	951.9	954.5	957.1	955.3	948.9	944.9	935.4	920.1	906.7	891.1	858.9
17.5°	967.5	973.2	979.3	979.7	972.7	965.8	954.9	939.3	926.3	911.9	877.2
20°	997.1	1001.5	1012.7	1015.0	1001.1	991.0	975.8	957.6	944.5	932.3	894.1
22.5°	1041.0	1045.8	1054.9	1051.9	1028.4	1016.7	997.6	976.7	963.2	956.3	913.6
25°	1107.5	1108.8	1111.0	1097.5	1058.9	1045.8	1022.3	998.8	988.0	987.1	941.4
27.5°	1185.7	1187.4	1177.9	1148.0	1092.7	1075.7	1049.2	1028.0	1022.7	1029.3	976.7
30°	1275.3	1275.7	1249.2	1200.5	1131.9	1113.2	1085.8	1062.3	1067.0	1083.2	1021.9
32.5°	1367.0	1362.7	1326.2	1262.6	1185.3	1162.7	1139.3	1115.7	1129.6	1162.3	1087.9
35°	1450.9	1449.1	1406.1	1332.2	1254.9	1234.9	1217.9	1193.2	1215.8	1268.8	1177.9
37.5°	1534.7	1533.5	1484.3	1407.4	1340.5	1326.2	1313.6	1294.4	1331.4	1409.1	1298.3
40°	1627.3	1625.2	1564.8	1490.8	1440.0	1432.2	1424.8	1416.6	1479.6	1587.8	1448.3
42.5°	1741.7	1732.1	1649.9	1581.7	1549.6	1551.7	1552.1	1560.4	1659.1	1800.4	1625.2
45°	1872.9	1851.6	1735.5	1679.1	1670.0	1683.0	1696.1	1730.3	1868.1	2045.1	1820.8
47.5°	2000.3	1965.9	1834.3	1783.8	1802.5	1829.4	1860.7	1927.8	2102.9	2301.0	1998.1
50°	2109.8	2074.6	1932.0	1890.3	1949.8	1989.8	2045.5	2146.8	2350.6	2517.5	2109.8
52.5°	2195.9	2168.0	2035.5	2007.6	2113.3	2168.0	2255.4	2388.4	2584.5	2660.1	2188.1
55°	2259.4	2245.5	2134.6	2138.5	2295.0	2374.1	2482.8	2633.2	2781.8	2771.0	2246.7
57.5°	2331.1	2320.2	2238.5	2292.8	2513.6	2615.8	2741.4	2862.2	2925.2	2860.1	2304.1
60°	2404.5	2408.0	2364.6	2479.7	2784.0	2897.0	3006.6	3036.5	3048.3	2950.5	2364.6
62.5°	2460.2	2474.9	2478.8	2681.4	3061.3	3157.7	3205.1	3183.8	3181.3	3071.7	2359.7
65°	2524.0	2562.7	2627.0	2902.6	3313.3	3376.9	3410.7	3441.6	3376.5	3107.8	2127.6
67.5°	2634.4	2695.3	2840.0	3173.9	3604.6	3698.5	3794.5	3761.9	3405.5	2741.4	1620.9
70°	2783.1	2857.4	3113.0	3528.1	3999.7	4157.1	4237.5	3736.3	2891.4	1894.2	855.0
72°	2689.2	2756.5	3197.3	3708.9	4279.6	4424.0	4222.6	3259.0	2095.9	981.9	286.4
72.5°	2598.0	2667.4	3170.4	3706.8	4307.4	4417.8	4126.6	3070.8	1854.7	764.1	197.3
75°	1802.5	1890.3	2717.9	3332.1	3889.8	3768.4	3157.3	1859.4	672.0	131.2	65.2
77.5°	931.9	999.7	1648.7	2354.5	2710.9	2482.8	1866.0	806.7	186.1	69.6	43.1
80°	577.7	611.1	771.1	1160.1	1408.3	1231.8	823.3	326.0	119.1	41.3	34.4
82.5°	299.0	324.7	485.5	468.1	520.3	432.5	303.8	272.9	73.4	25.7	35.2
85°	98.2	104.3	298.2	311.2	222.6	149.6	134.7	260.3	21.3	16.5	30.0
87.5°	13.0	15.2	104.8	178.2	109.6	67.8	80.8	91.8	7.4	9.1	8.3
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°	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
2.5°	867.6	861.9	844.1	826.2	805.9	787.2	772.4	762.8	767.2	752.8	755.0
5°	842.8	828.5	789.3	747.2	701.5	659.0	625.0	599.9	595.1	573.3	574.2
7.5°	818.9	795.4	731.9	662.5	586.8	525.5	469.8	421.1	403.8	386.0	375.5
10°	805.9	773.7	683.7	582.5	476.0	386.0	307.7	246.4	220.9	202.1	193.0
12.5°	809.8	767.2	647.6	509.8	369.9	255.5	173.9	129.1	113.4	104.8	101.7
15°	822.8	768.4	615.0	439.1	269.0	154.8	102.2	87.4	86.0	85.6	85.2
17.5°	834.9	769.8	580.7	365.1	179.9	98.7	82.1	80.8	80.8	80.8	80.8
20°	847.6	770.2	542.9	287.8	118.3	80.8	77.3	76.5	77.3	77.3	77.3
22.5°	862.3	773.2	506.4	212.6	87.4	76.1	73.9	73.4	73.9	73.9	73.4
25°	880.7	779.8	466.8	152.1	79.1	73.0	70.9	70.4	70.9	70.4	70.4
27.5°	905.0	788.5	420.7	109.1	75.6	70.0	67.8	67.8	67.8	67.4	67.4
30°	936.2	798.9	359.1	86.0	72.1	66.9	65.2	65.2	64.8	64.3	64.3
32.5°	981.0	815.8	291.6	77.8	68.2	63.0	61.3	61.7	61.3	60.9	60.5
35°	1044.4	842.4	225.2	73.4	64.3	59.1	57.4	57.4	57.4	56.5	56.5
37.5°	1134.5	882.8	168.7	69.2	60.5	55.2	53.0	53.0	52.6	51.8	52.2
40°	1245.7	933.6	122.1	65.2	56.5	50.8	49.1	48.3	47.4	46.5	46.5
42.5°	1379.6	983.2	91.8	61.3	52.6	47.4	45.2	44.3	42.6	41.7	41.3
45°	1529.5	1035.7	76.1	56.5	48.3	43.5	41.7	40.0	37.8	36.5	36.1
47.5°	1656.1	1068.0	67.8	51.8	43.9	39.6	37.8	35.2	32.6	31.7	31.7
50°	1732.1	1054.5	60.9	47.0	39.6	35.6	33.5	30.0	28.2	27.4	26.9
52.5°	1774.7	1014.5	55.2	43.1	35.6	31.3	28.2	25.2	24.3	23.4	23.4
55°	1803.9	956.7	49.1	39.1	32.1	27.4	23.9	21.7	20.9	20.5	19.9
57.5°	1831.6	886.3	43.5	35.6	28.6	24.3	20.5	19.5	17.8	17.4	17.4
60°	1839.9	789.3	38.3	31.7	25.7	21.3	17.8	16.5	14.7	14.3	14.3
62.5°	1734.7	628.1	33.9	26.9	22.6	18.2	15.7	13.9	12.2	12.2	12.2
65°	1449.6	426.4	29.2	23.4	19.9	15.7	13.5	11.3	10.4	10.4	10.4
67.5°	1009.8	237.7	24.8	19.9	17.0	13.0	11.3	9.5	9.1	9.5	9.5
70°	455.1	94.3	20.9	16.5	13.9	10.8	9.5	8.3	9.1	9.1	9.1
72°	136.5	50.4	17.4	13.5	11.3	9.5	8.3	7.8	8.7	9.1	9.1
72.5°	101.3	45.2	16.5	13.0	11.3	9.1	7.8	7.8	8.7	9.1	9.1
75°	52.2	30.9	12.6	9.5	8.3	7.4	6.5	7.4	8.7	8.7	8.7
77.5°	40.8	25.2	10.4	7.4	7.0	6.5	6.0	7.0	7.8	7.8	7.8
80°	38.3	16.5	8.3	7.0	6.0	5.6	5.6	6.0	7.0	7.4	7.4
82.5°	38.7	13.5	7.4	6.5	5.6	5.2	5.2	5.6	6.5	7.0	7.0
85°	24.8	9.1	6.5	5.6	5.2	4.8	4.8	5.2	6.0	6.5	6.5
87.5°	8.3	7.0	5.6	5.2	4.3	4.3	4.3	4.3	5.2	5.6	6.0
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)