

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: P198888

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198888
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-SL4-7050-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 5405 lumens
Efficiency: N/A
Efficacy: 81.9 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 (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

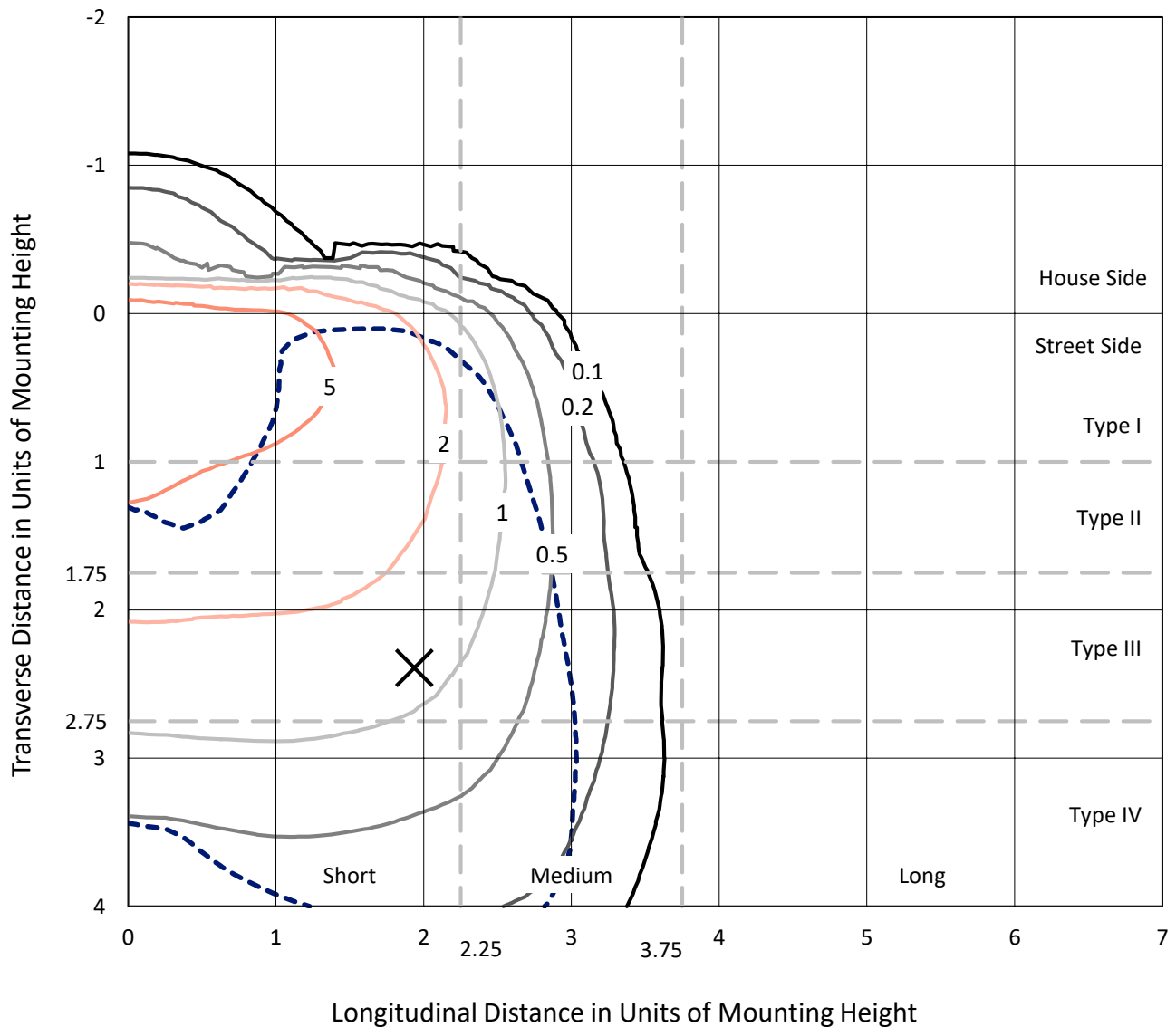


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

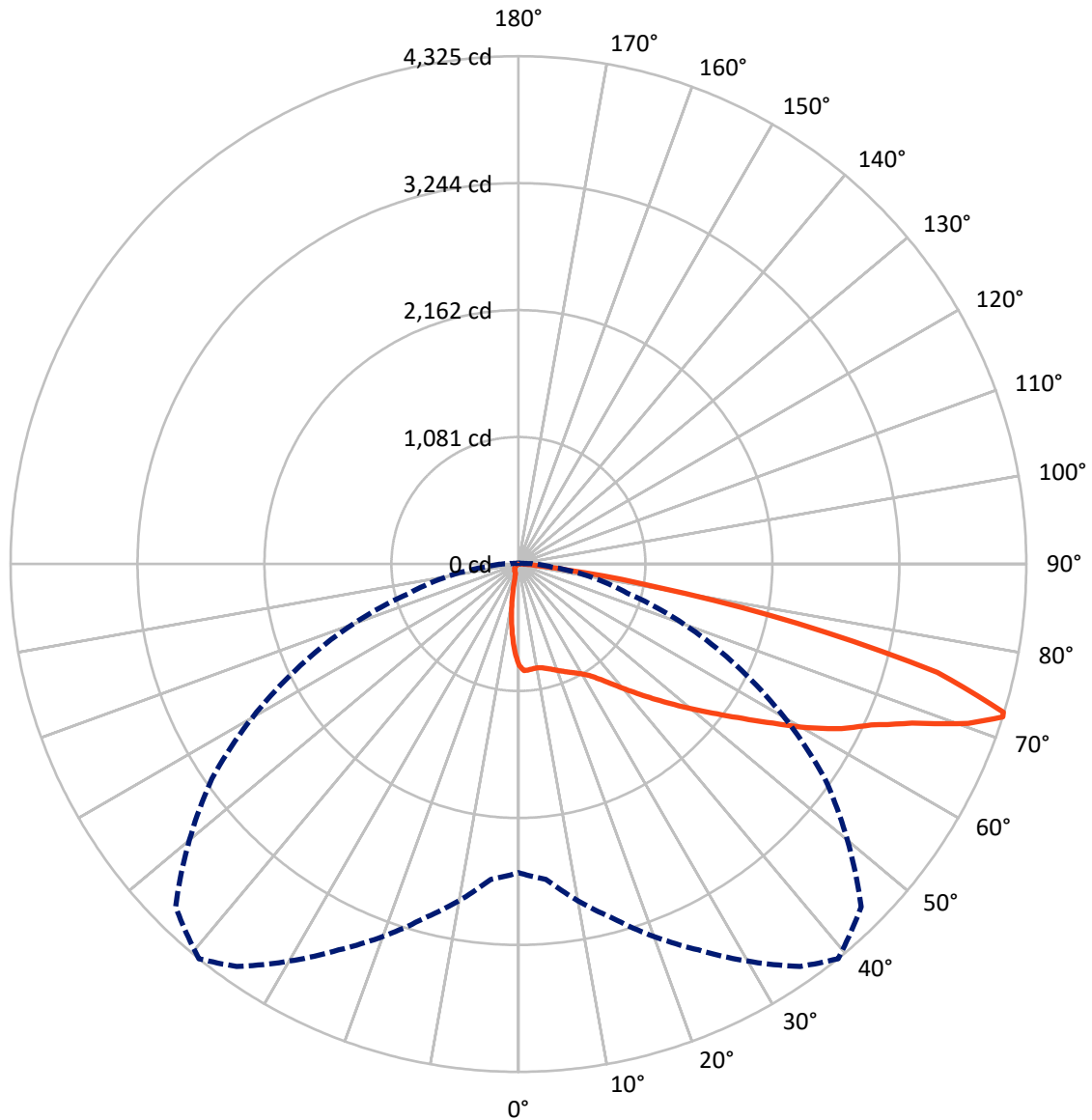


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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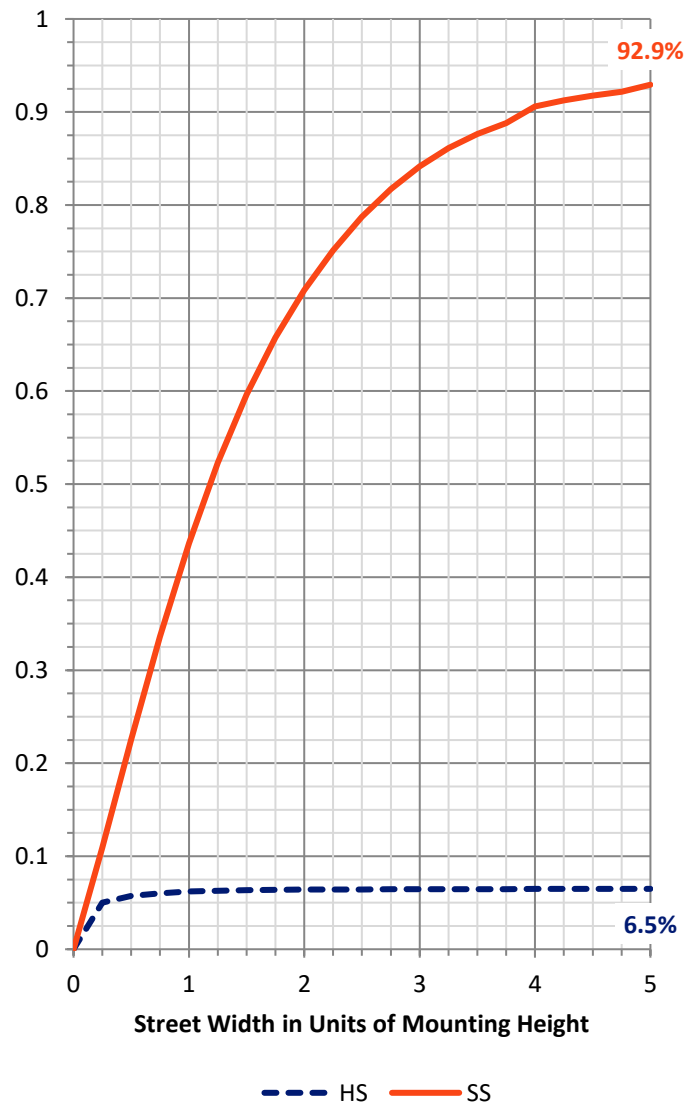
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	354.2	0.0	354.2
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	5050.8	0.0	5050.8
	% Fixture	93.4	0.0	93.4
Total	Lumens	5405.0	0.0	5405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	1.3
10°-20°	170.4	3.2
20°-30°	282.9	5.2
30°-40°	450.9	8.3
40°-50°	744.3	13.8
50°-60°	1124.1	20.8
60°-70°	1464.3	27.1
70°-80°	989.4	18.3
80°-90°	108.4	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°	5405.0	100.0
0°-180°	5405.0	100.0

Coefficient of Utilization



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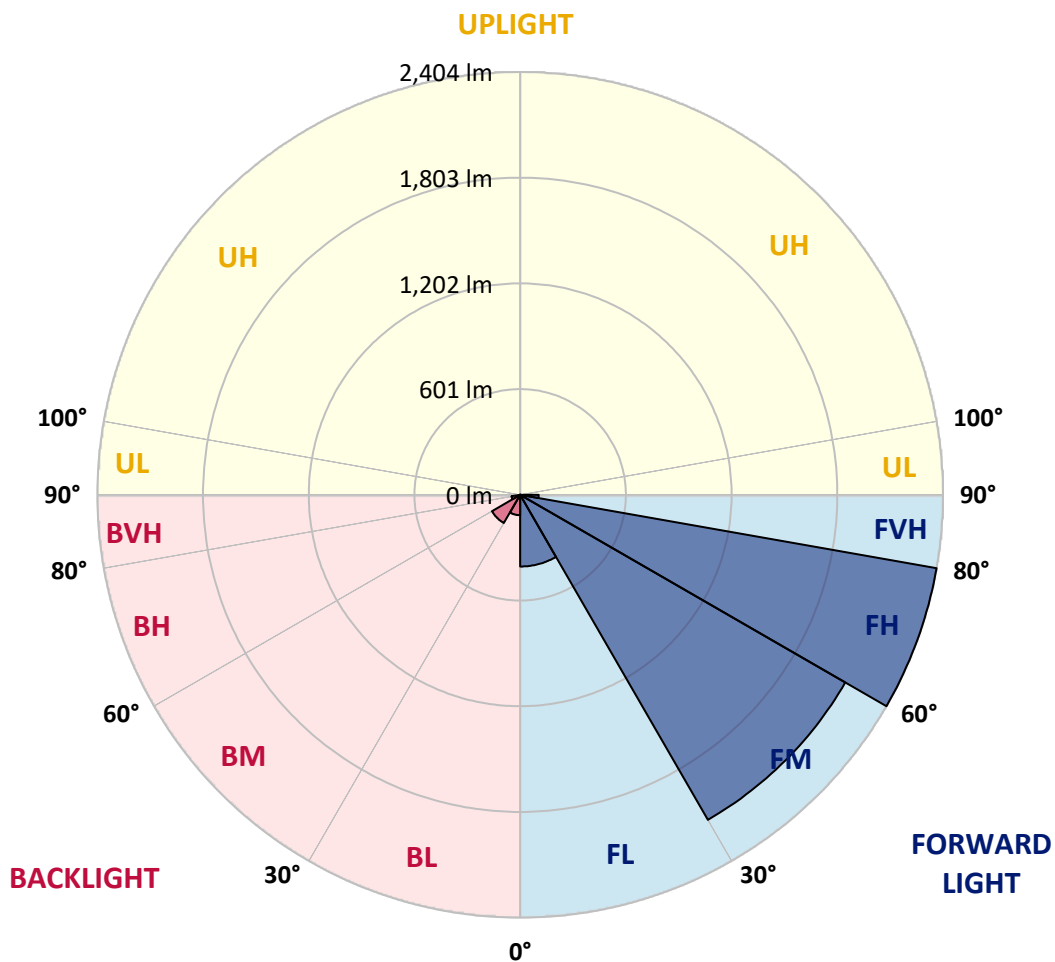
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	407.7	7.5			
FM (30°-60°)	2134.0	39.5			
FH (60°-80°)	2403.9	44.5			G2/5000
FVH (80°-90°)	105.2	1.9			G2/225
BL (0°-30°)	116.0	2.1	B1/500		
BM (30°-60°)	185.3	3.4	B0/220		
BH (60°-80°)	49.8	0.9	B0/110		G0/110
BVH (80°-90°)	3.1	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°	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1
2.5°	921.2	922.9	920.8	916.9	911.4	908.0	903.3	893.1	880.4	869.4	856.6
5°	928.4	929.3	926.7	919.5	911.0	906.3	900.4	889.3	876.2	860.9	837.9
7.5°	930.5	930.1	927.1	918.2	905.0	899.1	888.9	875.3	861.7	847.7	821.8
10°	929.7	929.7	927.6	919.1	904.2	898.7	887.2	872.8	855.8	841.7	814.1
12.5°	926.7	928.4	927.1	922.5	911.4	907.2	897.0	882.5	866.4	851.9	822.6
15°	930.5	933.1	935.6	933.9	927.6	923.7	914.4	899.5	886.4	871.1	839.6
17.5°	945.8	951.4	957.3	957.7	950.9	944.1	933.5	918.2	905.5	891.4	857.5
20°	974.7	979.0	990.0	992.2	978.6	968.8	953.9	936.1	923.3	911.4	874.0
22.5°	1017.6	1022.3	1031.2	1028.3	1005.3	993.9	975.2	954.8	941.6	934.8	893.1
25°	1082.7	1083.9	1086.1	1072.9	1035.1	1022.3	999.4	976.4	965.8	965.0	920.3
27.5°	1159.1	1160.8	1151.5	1122.2	1068.2	1051.6	1025.7	1004.9	999.8	1006.2	954.8
30°	1246.7	1247.1	1221.2	1173.6	1106.5	1088.2	1061.4	1038.5	1043.1	1058.9	999.0
32.5°	1336.3	1332.1	1296.4	1234.3	1158.7	1136.6	1113.7	1090.7	1104.3	1136.2	1063.5
35°	1418.3	1416.6	1374.6	1302.3	1226.7	1207.2	1190.6	1166.4	1188.5	1240.3	1151.5
37.5°	1500.3	1499.1	1451.0	1375.8	1310.4	1296.4	1284.1	1265.4	1301.5	1377.5	1269.2
40°	1590.8	1588.7	1529.7	1457.4	1407.7	1400.1	1392.8	1384.8	1446.4	1552.2	1415.8
42.5°	1702.6	1693.2	1612.9	1546.2	1514.8	1516.9	1517.3	1525.4	1621.9	1760.0	1588.7
45°	1830.9	1810.1	1696.6	1641.4	1632.5	1645.2	1658.0	1691.5	1826.2	1999.2	1779.9
47.5°	1955.4	1921.8	1793.1	1743.8	1762.1	1788.4	1819.0	1884.5	2055.7	2249.4	1953.3
50°	2062.5	2028.1	1888.7	1847.9	1906.1	1945.2	1999.6	2098.6	2297.9	2461.0	2062.5
52.5°	2146.6	2119.4	1989.8	1962.6	2065.9	2119.4	2204.8	2334.8	2526.5	2600.4	2139.0
55°	2208.7	2195.1	2086.7	2090.5	2243.5	2320.8	2427.1	2574.1	2719.4	2708.8	2196.3
57.5°	2278.8	2268.1	2188.3	2241.4	2457.2	2557.1	2679.9	2798.0	2859.6	2795.9	2252.4
60°	2350.6	2354.0	2311.5	2424.1	2721.5	2832.0	2939.1	2968.4	2979.9	2884.3	2311.5
62.5°	2405.0	2419.4	2423.2	2621.2	2992.6	3086.9	3133.2	3112.4	3109.9	3002.8	2306.8
65°	2467.4	2505.2	2568.1	2837.5	3239.0	3301.1	3334.2	3364.4	3300.7	3038.1	2079.9
67.5°	2575.3	2634.8	2776.3	3102.7	3523.7	3615.5	3709.4	3677.5	3329.1	2679.9	1584.5
70°	2720.7	2793.3	3043.2	3448.9	3910.0	4063.8	4142.4	3652.5	2826.5	1851.7	835.8
72°	2628.9	2694.7	3125.6	3625.7	4183.6	4324.7	4127.9	3185.9	2048.9	959.9	280.0
72.5°	2539.7	2607.6	3099.3	3623.6	4210.8	4318.7	4034.0	3001.9	1813.1	747.0	192.9
75°	1762.1	1847.9	2656.9	3257.3	3802.5	3683.9	3086.5	1817.7	656.9	128.3	63.7
77.5°	911.0	977.3	1611.7	2301.7	2650.1	2427.1	1824.1	788.6	181.9	68.0	42.1
80°	564.7	597.4	753.8	1134.1	1376.7	1204.2	804.8	318.7	116.4	40.4	33.6
82.5°	292.3	317.4	474.6	457.6	508.6	422.8	297.0	266.8	71.8	25.1	34.4
85°	96.0	102.0	291.5	304.2	217.6	146.2	131.7	254.5	20.8	16.1	29.3
87.5°	12.7	14.9	102.4	174.2	107.1	66.3	79.0	89.7	7.2	8.9	8.1
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°	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1
2.5°	848.1	842.6	825.2	807.7	787.8	769.5	755.1	745.7	750.0	735.9	738.1
5°	823.9	809.9	771.6	730.4	685.8	644.2	611.0	586.4	581.7	560.4	561.3
7.5°	800.5	777.6	715.5	647.6	573.6	513.7	459.3	411.7	394.7	377.3	367.1
10°	787.8	756.3	668.4	569.4	465.3	377.3	300.8	240.9	215.9	197.6	188.7
12.5°	791.6	750.0	633.1	498.4	361.6	249.8	170.0	126.2	110.9	102.4	99.4
15°	804.3	751.2	601.2	429.2	263.0	151.3	99.9	85.4	84.1	83.7	83.3
17.5°	816.2	752.5	567.7	356.9	175.9	96.5	80.3	79.0	79.0	79.0	79.0
20°	828.6	752.9	530.7	281.3	115.6	79.0	75.6	74.8	75.6	75.6	75.6
22.5°	843.0	755.9	495.0	207.8	85.4	74.4	72.2	71.8	72.2	72.2	71.8
25°	860.9	762.3	456.3	148.7	77.3	71.4	69.3	68.8	69.3	68.8	68.8
27.5°	884.7	770.8	411.3	106.7	73.9	68.4	66.3	66.3	66.3	65.9	65.9
30°	915.2	781.0	351.0	84.1	70.5	65.4	63.7	63.7	63.3	62.9	62.9
32.5°	959.0	797.5	285.1	76.1	66.7	61.6	59.9	60.3	59.9	59.5	59.1
35°	1021.0	823.5	220.1	71.8	62.9	57.8	56.1	56.1	56.1	55.2	55.2
37.5°	1109.0	863.0	164.9	67.6	59.1	54.0	51.8	51.8	51.4	50.6	51.0
40°	1217.8	912.7	119.4	63.7	55.2	49.7	48.0	47.2	46.3	45.5	45.5
42.5°	1348.6	961.1	89.7	59.9	51.4	46.3	44.2	43.3	41.6	40.8	40.4
45°	1495.2	1012.5	74.4	55.2	47.2	42.5	40.8	39.1	37.0	35.7	35.3
47.5°	1618.9	1044.0	66.3	50.6	42.9	38.7	37.0	34.4	31.9	31.0	31.0
50°	1693.2	1030.8	59.5	45.9	38.7	34.8	32.7	29.3	27.6	26.8	26.3
52.5°	1734.9	991.7	54.0	42.1	34.8	30.6	27.6	24.6	23.8	22.9	22.9
55°	1763.4	935.2	48.0	38.2	31.4	26.8	23.4	21.2	20.4	20.0	19.5
57.5°	1790.5	866.4	42.5	34.8	28.0	23.8	20.0	19.1	17.4	17.0	17.0
60°	1798.6	771.6	37.4	31.0	25.1	20.8	17.4	16.1	14.4	14.0	14.0
62.5°	1695.8	614.0	33.1	26.3	22.1	17.8	15.3	13.6	11.9	11.9	11.9
65°	1417.1	416.8	28.5	22.9	19.5	15.3	13.2	11.0	10.2	10.2	10.2
67.5°	987.1	232.4	24.2	19.5	16.6	12.7	11.0	9.3	8.9	9.3	9.3
70°	444.9	92.2	20.4	16.1	13.6	10.6	9.3	8.1	8.9	8.9	8.9
72°	133.4	49.3	17.0	13.2	11.0	9.3	8.1	7.6	8.5	8.9	8.9
72.5°	99.0	44.2	16.1	12.7	11.0	8.9	7.6	7.6	8.5	8.9	8.9
75°	51.0	30.2	12.3	9.3	8.1	7.2	6.4	7.2	8.5	8.5	8.5
77.5°	39.9	24.6	10.2	7.2	6.8	6.4	5.9	6.8	7.6	7.6	7.6
80°	37.4	16.1	8.1	6.8	5.9	5.5	5.5	5.9	6.8	7.2	7.2
82.5°	37.8	13.2	7.2	6.4	5.5	5.1	5.1	5.5	6.4	6.8	6.8
85°	24.2	8.9	6.4	5.5	5.1	4.7	4.7	5.1	5.9	6.4	6.4
87.5°	8.1	6.8	5.5	5.1	4.2	4.2	4.2	4.2	5.1	5.5	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

(END OF REPORT)