

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: P198886

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198886
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-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1050mA 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: 4928 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

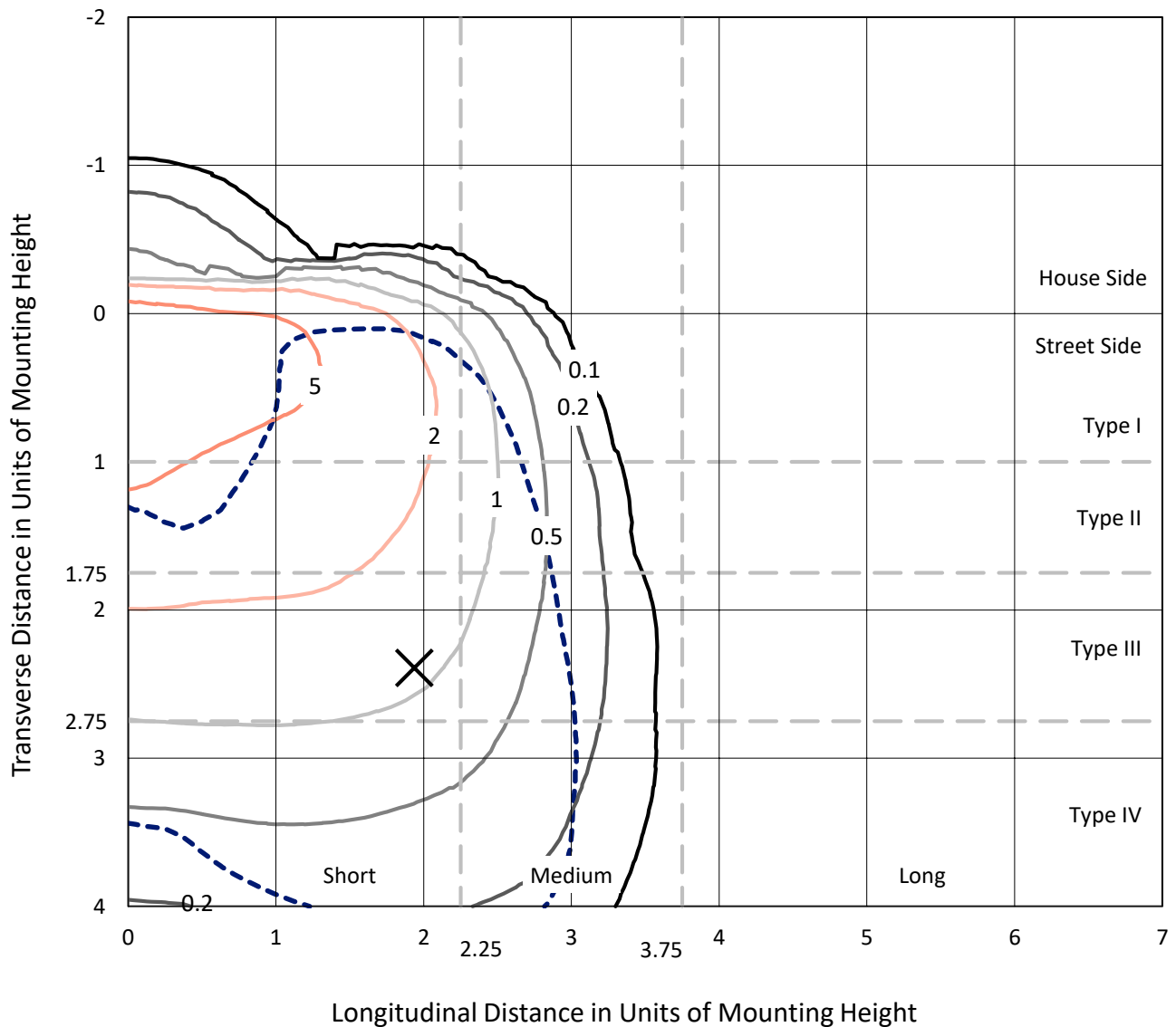
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

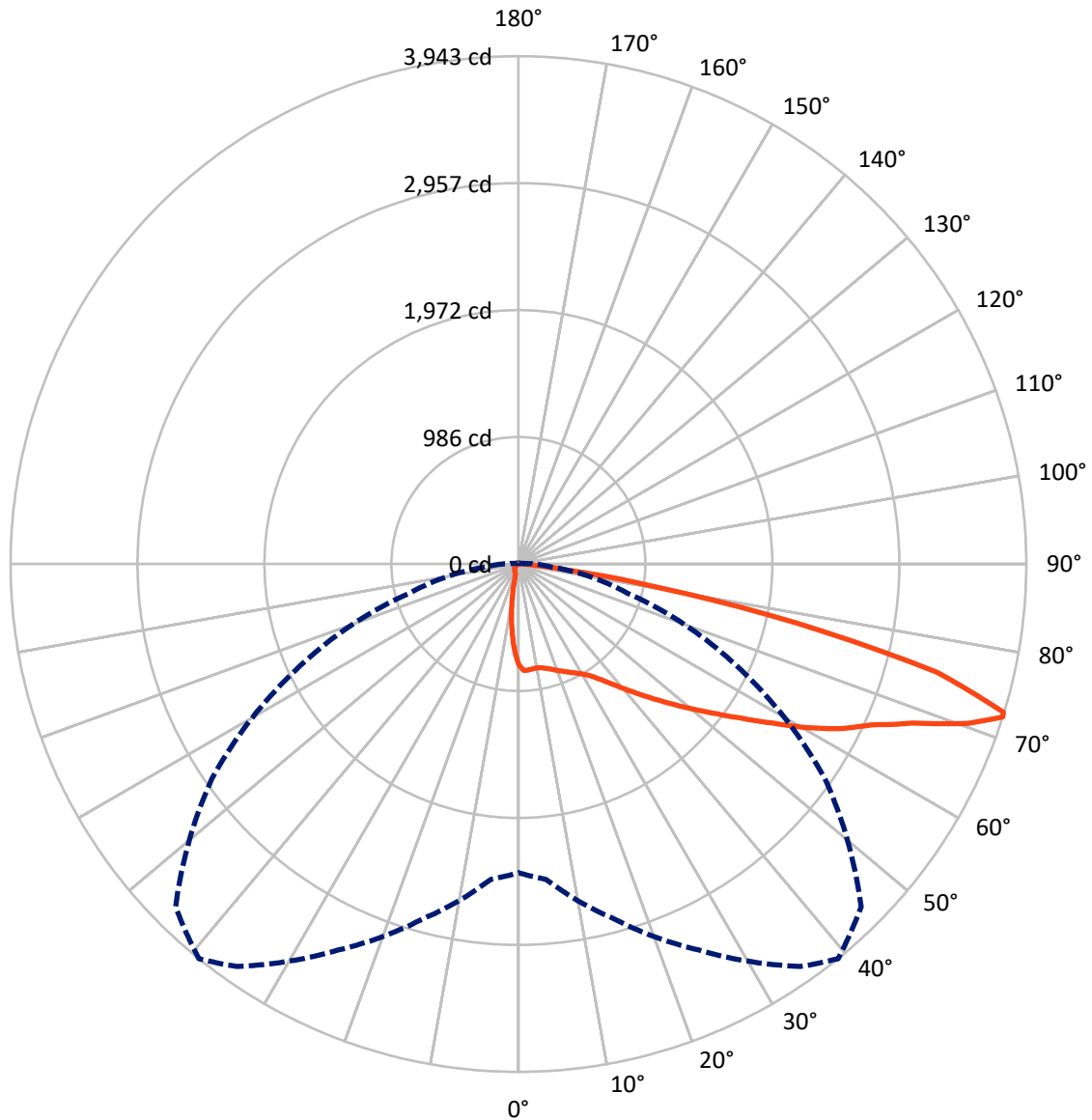
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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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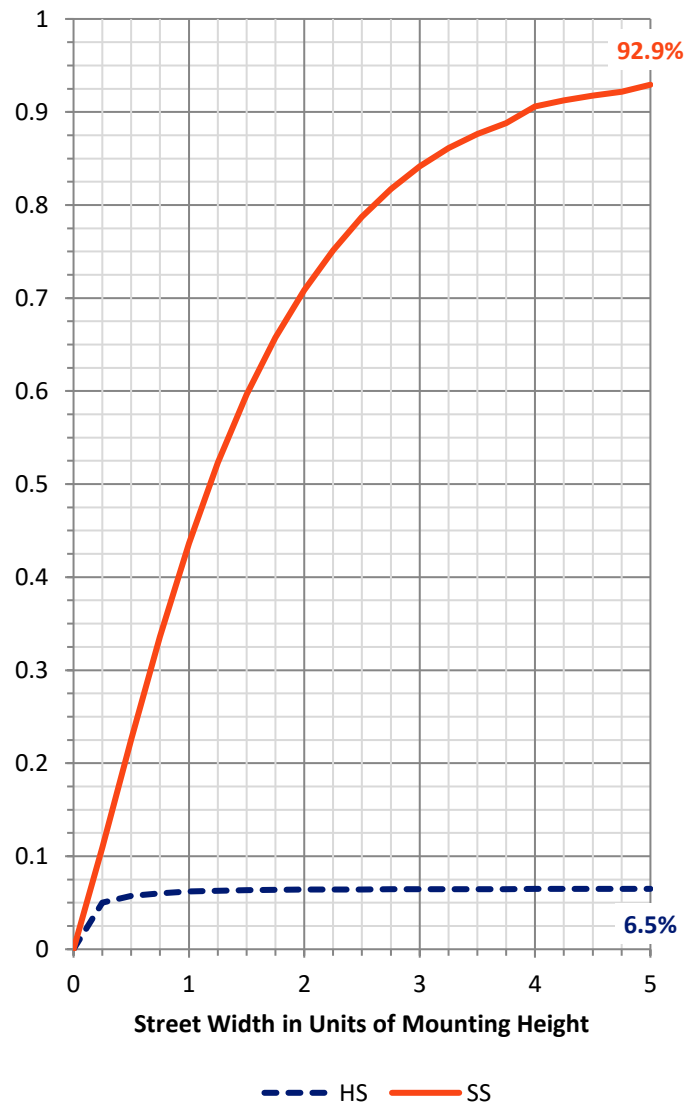
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.0	0.0	323.0
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	4605.0	0.0	4605.0
	% Fixture	93.4	0.0	93.4
Total	Lumens	4928.0	0.0	4928.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	1.3
10°-20°	155.3	3.2
20°-30°	258.0	5.2
30°-40°	411.1	8.3
40°-50°	678.6	13.8
50°-60°	1024.9	20.8
60°-70°	1335.0	27.1
70°-80°	902.1	18.3
80°-90°	98.8	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°	4928.0	100.0
0°-180°	4928.0	100.0



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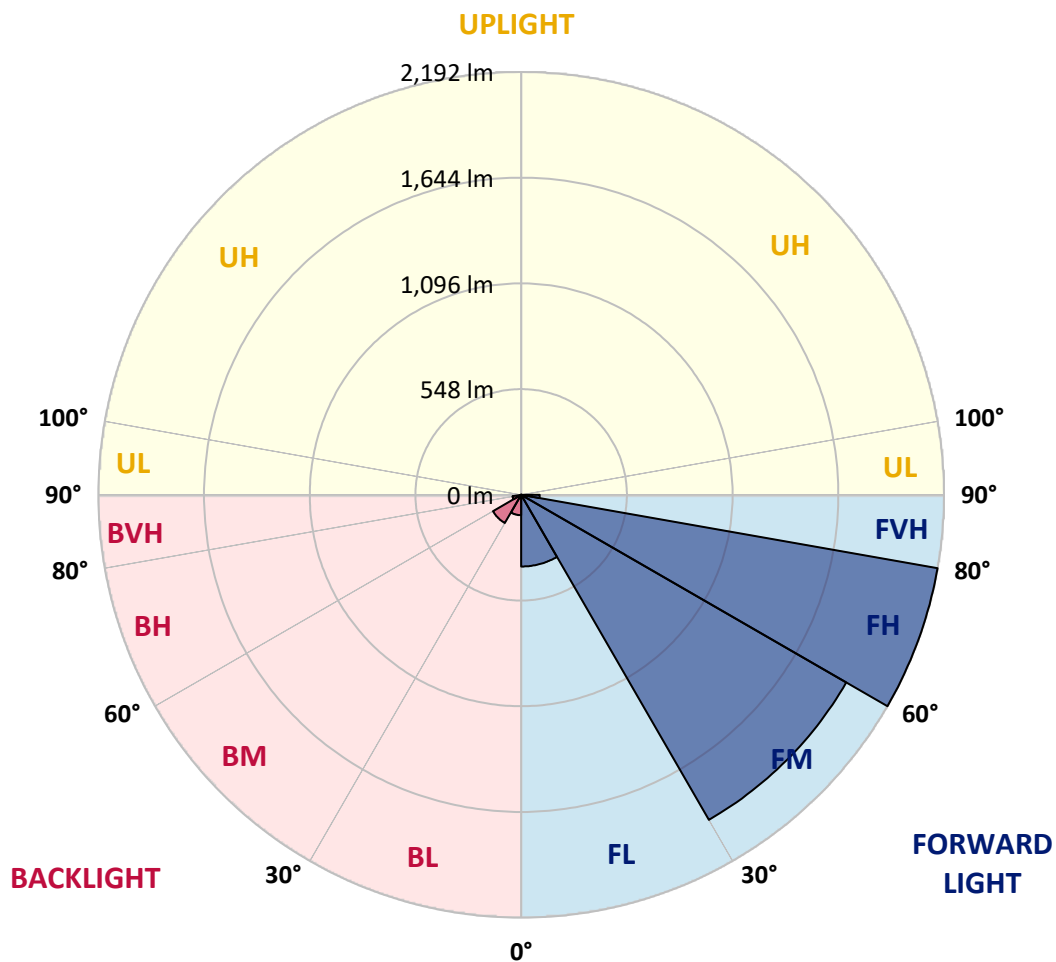
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	371.7	7.5			
FM	(30°-60°)	1945.6	39.5			
FH	(60°-80°)	2191.7	44.5			G2/5000
FVH	(80°-90°)	96.0	1.9			G1/100
BL	(0°-30°)	105.8	2.1	B0/110		
BM	(30°-60°)	169.0	3.4	B0/220		
BH	(60°-80°)	45.4	0.9	B0/110		G0/110
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	839.9	841.4	839.5	836.0	831.0	827.9	823.6	814.3	802.7	792.6	781.0
5°	846.5	847.3	844.9	838.3	830.6	826.3	820.9	810.8	798.8	784.9	764.0
7.5°	848.4	848.0	845.3	837.2	825.2	819.8	810.5	798.1	785.7	772.9	749.2
10°	847.6	847.6	845.7	838.0	824.4	819.4	808.9	795.7	780.2	767.5	742.3
12.5°	844.9	846.5	845.3	841.1	831.0	827.1	817.8	804.6	789.9	776.7	750.0
15°	848.4	850.7	853.1	851.5	845.7	842.2	833.7	820.1	808.1	794.2	765.5
17.5°	862.4	867.4	872.8	873.2	867.0	860.8	851.1	837.2	825.6	812.8	781.8
20°	888.7	892.6	902.7	904.6	892.2	883.3	869.7	853.5	841.8	831.0	796.9
22.5°	927.8	932.1	940.2	937.5	916.6	906.1	889.1	870.5	858.5	852.3	814.3
25°	987.1	988.3	990.2	978.2	943.7	932.1	911.2	890.3	880.6	879.8	839.1
27.5°	1056.8	1058.4	1049.9	1023.1	973.9	958.8	935.2	916.2	911.6	917.4	870.5
30°	1136.6	1137.0	1113.4	1070.0	1008.8	992.1	967.7	946.8	951.1	965.4	910.8
32.5°	1218.4	1214.5	1182.0	1125.4	1056.5	1036.3	1015.4	994.5	1006.9	1035.9	969.7
35°	1293.2	1291.6	1253.3	1187.4	1118.4	1100.6	1085.5	1063.4	1083.6	1130.8	1049.9
37.5°	1367.9	1366.8	1323.0	1254.4	1194.8	1182.0	1170.7	1153.7	1186.6	1256.0	1157.2
40°	1450.4	1448.5	1394.7	1328.8	1283.5	1276.5	1269.9	1262.6	1318.7	1415.2	1290.8
42.5°	1552.3	1543.8	1470.6	1409.8	1381.1	1383.0	1383.4	1390.8	1478.7	1604.6	1448.5
45°	1669.3	1650.3	1546.9	1496.5	1488.4	1500.0	1511.7	1542.3	1665.1	1822.7	1622.8
47.5°	1782.8	1752.2	1634.9	1589.9	1606.6	1630.6	1658.5	1718.1	1874.3	2050.9	1780.9
50°	1880.5	1849.1	1722.0	1684.8	1737.9	1773.5	1823.1	1913.4	2095.1	2243.9	1880.5
52.5°	1957.2	1932.4	1814.2	1789.4	1883.6	1932.4	2010.2	2128.8	2303.5	2370.9	1950.2
55°	2013.7	2001.3	1902.6	1906.0	2045.5	2116.0	2212.9	2346.9	2479.4	2469.7	2002.5
57.5°	2077.7	2068.0	1995.1	2043.6	2240.4	2331.4	2443.4	2551.1	2607.2	2549.1	2053.6
60°	2143.1	2146.2	2107.5	2210.2	2481.3	2582.1	2679.7	2706.4	2716.9	2629.7	2107.5
62.5°	2192.7	2205.9	2209.4	2389.9	2728.5	2814.5	2856.7	2837.7	2835.4	2737.8	2103.2
65°	2249.7	2284.1	2341.5	2587.1	2953.2	3009.8	3040.0	3067.5	3009.4	2770.0	1896.4
67.5°	2348.1	2402.3	2531.3	2828.8	3212.8	3296.4	3382.1	3353.0	3035.3	2443.4	1444.6
70°	2480.6	2546.8	2774.6	3144.6	3564.9	3705.1	3776.8	3330.1	2577.0	1688.3	762.0
72°	2396.9	2456.9	2849.8	3305.7	3814.4	3943.0	3763.6	2904.8	1868.1	875.1	255.3
72.5°	2315.5	2377.5	2825.7	3303.8	3839.2	3937.6	3678.0	2737.0	1653.1	681.1	175.9
75°	1606.6	1684.8	2422.4	2969.9	3466.9	3358.8	2814.1	1657.3	598.9	117.0	58.1
77.5°	830.6	891.0	1469.4	2098.6	2416.3	2212.9	1663.1	719.0	165.8	62.0	38.4
80°	514.9	544.7	687.3	1034.0	1255.2	1097.9	733.7	290.6	106.1	36.8	30.6
82.5°	266.5	289.4	432.7	417.2	463.7	385.5	270.8	243.3	65.5	22.9	31.4
85°	87.6	93.0	265.8	277.4	198.4	133.3	120.1	232.1	19.0	14.7	26.7
87.5°	11.6	13.6	93.4	158.8	97.6	60.4	72.1	81.7	6.6	8.1	7.4
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°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	773.3	768.2	752.3	736.5	718.3	701.6	688.4	679.9	683.8	671.0	672.9
5°	751.2	738.4	703.5	666.0	625.3	587.3	557.1	534.6	530.4	511.0	511.8
7.5°	729.9	709.0	652.4	590.4	523.0	468.4	418.8	375.4	359.9	344.0	334.7
10°	718.3	689.6	609.4	519.1	424.2	344.0	274.3	219.7	196.8	180.1	172.0
12.5°	721.7	683.8	577.2	454.4	329.7	227.8	155.0	115.1	101.1	93.4	90.7
15°	733.4	684.9	548.2	391.3	239.8	137.9	91.0	77.9	76.7	76.3	75.9
17.5°	744.2	686.1	517.6	325.4	160.4	87.9	73.2	72.1	72.1	72.1	72.1
20°	755.4	686.5	483.9	256.5	105.4	72.1	69.0	68.2	69.0	69.0	69.0
22.5°	768.6	689.2	451.3	189.4	77.9	67.8	65.9	65.5	65.9	65.9	65.5
25°	784.9	695.0	416.1	135.6	70.5	65.1	63.1	62.8	63.1	62.8	62.8
27.5°	806.6	702.8	375.0	97.2	67.4	62.4	60.4	60.4	60.4	60.0	60.0
30°	834.5	712.1	320.0	76.7	64.3	59.7	58.1	58.1	57.7	57.3	57.3
32.5°	874.4	727.2	259.9	69.3	60.8	56.2	54.6	55.0	54.6	54.2	53.8
35°	930.9	750.8	200.7	65.5	57.3	52.7	51.1	51.1	51.1	50.4	50.4
37.5°	1011.1	786.8	150.3	61.6	53.8	49.2	47.3	47.3	46.9	46.1	46.5
40°	1110.3	832.1	108.9	58.1	50.4	45.3	43.8	43.0	42.2	41.5	41.5
42.5°	1229.6	876.3	81.7	54.6	46.9	42.2	40.3	39.5	38.0	37.2	36.8
45°	1363.3	923.2	67.8	50.4	43.0	38.7	37.2	35.6	33.7	32.5	32.2
47.5°	1476.0	951.9	60.4	46.1	39.1	35.3	33.7	31.4	29.1	28.3	28.3
50°	1543.8	939.8	54.2	41.8	35.3	31.8	29.8	26.7	25.2	24.4	24.0
52.5°	1581.8	904.2	49.2	38.4	31.8	27.9	25.2	22.5	21.7	20.9	20.9
55°	1607.7	852.7	43.8	34.9	28.7	24.4	21.3	19.4	18.6	18.2	17.8
57.5°	1632.5	789.9	38.7	31.8	25.6	21.7	18.2	17.4	15.9	15.5	15.5
60°	1639.9	703.5	34.1	28.3	22.9	19.0	15.9	14.7	13.2	12.8	12.8
62.5°	1546.1	559.8	30.2	24.0	20.1	16.3	13.9	12.4	10.8	10.8	10.8
65°	1292.0	380.0	26.0	20.9	17.8	13.9	12.0	10.1	9.3	9.3	9.3
67.5°	899.9	211.9	22.1	17.8	15.1	11.6	10.1	8.5	8.1	8.5	8.5
70°	405.6	84.1	18.6	14.7	12.4	9.7	8.5	7.4	8.1	8.1	8.1
72°	121.6	44.9	15.5	12.0	10.1	8.5	7.4	7.0	7.7	8.1	8.1
72.5°	90.3	40.3	14.7	11.6	10.1	8.1	7.0	7.0	7.7	8.1	8.1
75°	46.5	27.5	11.2	8.5	7.4	6.6	5.8	6.6	7.7	7.7	7.7
77.5°	36.4	22.5	9.3	6.6	6.2	5.8	5.4	6.2	7.0	7.0	7.0
80°	34.1	14.7	7.4	6.2	5.4	5.0	5.0	5.4	6.2	6.6	6.6
82.5°	34.5	12.0	6.6	5.8	5.0	4.6	4.6	5.0	5.8	6.2	6.2
85°	22.1	8.1	5.8	5.0	4.6	4.3	4.3	4.6	5.4	5.8	5.8
87.5°	7.4	6.2	5.0	4.6	3.9	3.9	3.9	3.9	4.6	5.0	5.4
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)