

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: McGRAW-EDISON

Report Number: P300900

Luminaire Tested: **GLNA-AF-01-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL4-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4142.3 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

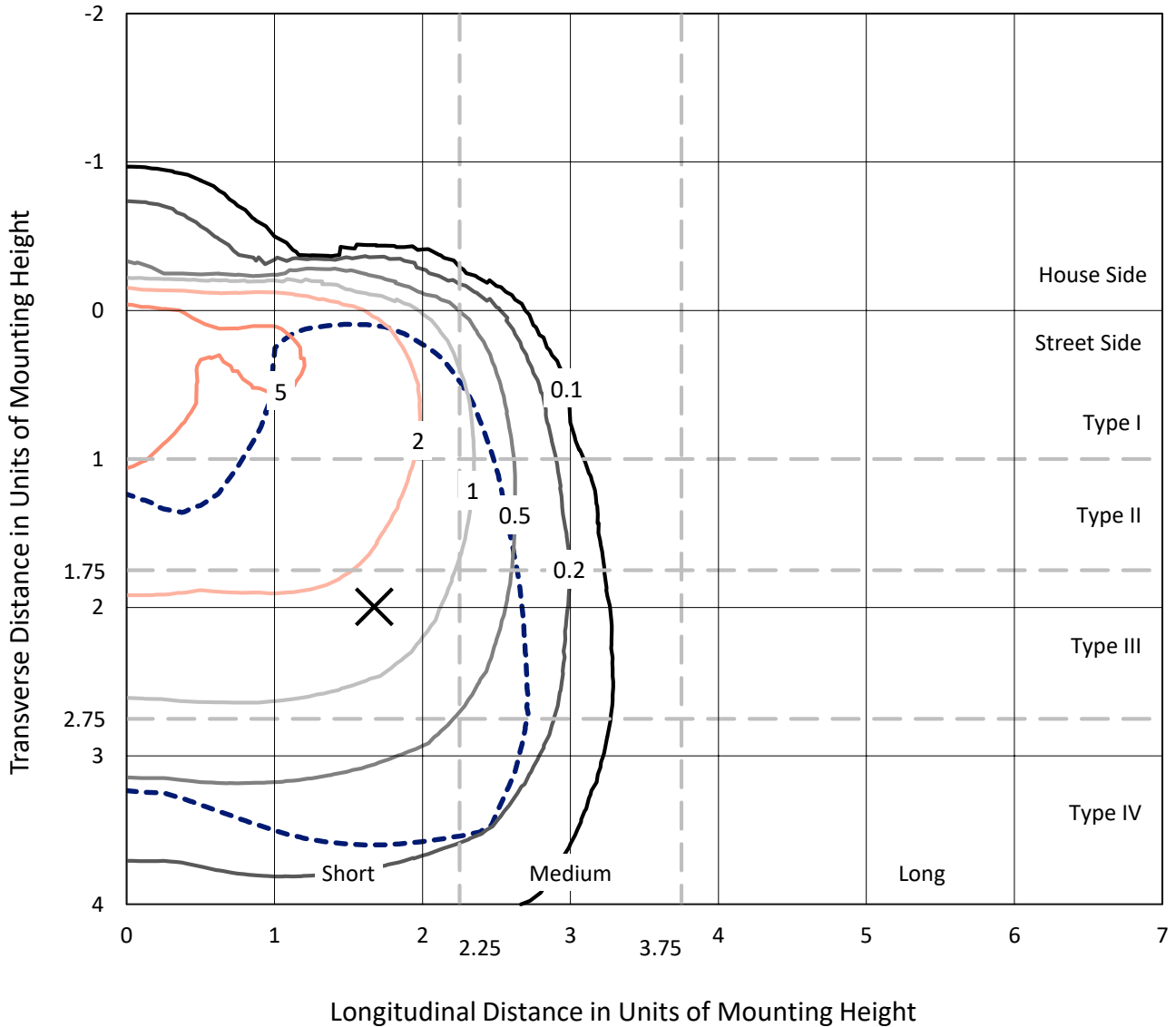
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

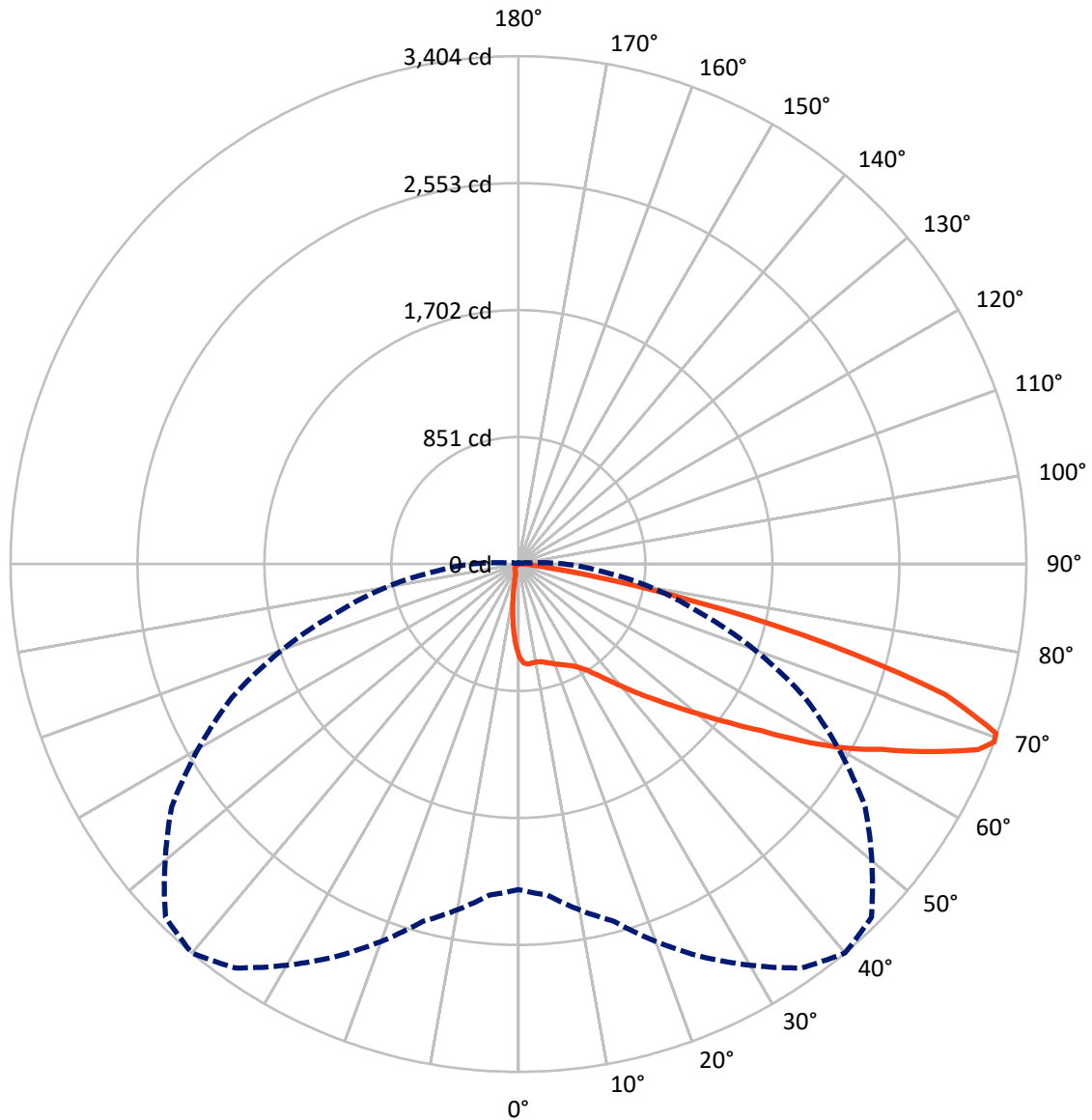
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	242.4	0.0	242.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3899.9	0.0	3899.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	4142.3	0.0	4142.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.2
10°-20°	123.4	3.0
20°-30°	207.8	5.0
30°-40°	340.3	8.2
40°-50°	589.1	14.2
50°-60°	927.9	22.4
60°-70°	1211.9	29.3
70°-80°	624.2	15.1
80°-90°	67.5	1.6
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°	4142.3	100.0
0°-180°	4142.3	100.0



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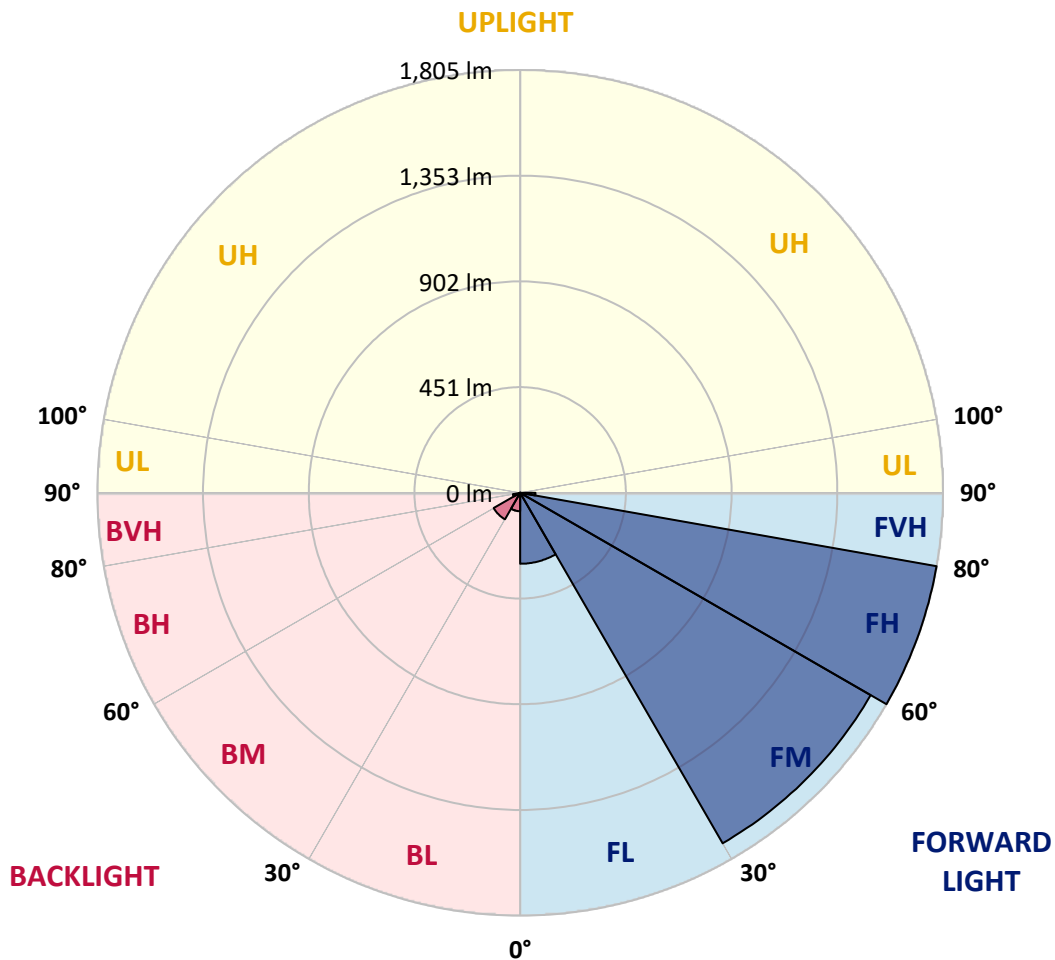
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.9	7.3			
FM	(30°-60°)	1727.1	41.7			
FH	(60°-80°)	1804.5	43.6			G2/5000
FVH	(80°-90°)	65.4	1.6			G1/100
BL	(0°-30°)	78.5	1.9	B0/110		
BM	(30°-60°)	130.3	3.1	B0/220		
BH	(60°-80°)	31.5	0.8	B0/110		G0/110
BVH	(80°-90°)	2.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9
2.5°	679.5	675.8	673.6	670.7	667.0	663.8	662.5	653.4	644.8	632.9	619.4
5°	692.1	690.9	686.9	683.0	678.5	673.6	670.9	660.1	647.7	630.5	606.8
7.5°	693.3	691.9	686.9	681.5	675.3	669.4	664.7	653.9	642.5	625.0	596.2
10°	691.4	689.6	685.9	680.0	672.4	666.7	662.0	651.7	642.1	626.3	594.2
12.5°	689.1	687.4	685.7	682.7	676.1	672.1	668.2	658.3	649.7	636.4	601.4
15°	691.4	690.4	692.4	691.1	687.4	684.0	680.0	671.1	663.3	652.2	614.4
17.5°	700.7	700.7	706.9	707.6	704.2	699.3	693.6	684.7	678.1	668.7	630.0
20°	722.7	721.9	729.8	731.3	722.9	715.3	706.9	696.1	690.9	685.0	645.3
22.5°	760.4	757.0	761.6	760.2	743.6	731.8	721.4	708.1	705.4	702.7	662.3
25°	809.5	807.5	810.7	796.2	767.1	751.0	738.7	723.7	723.7	726.4	681.5
27.5°	880.7	873.3	862.5	836.8	793.2	772.7	759.4	743.4	747.6	757.7	706.9
30°	953.7	945.6	920.7	881.2	825.0	803.6	788.0	771.3	781.1	799.6	740.9
32.5°	1025.7	1016.6	981.3	931.5	870.6	849.2	834.1	815.6	832.2	863.2	790.7
35°	1095.5	1087.4	1046.7	988.0	931.3	913.5	899.7	883.7	904.9	948.3	861.0
37.5°	1173.9	1165.0	1115.5	1051.8	1005.0	992.2	982.1	966.0	1003.0	1066.6	958.9
40°	1270.3	1255.3	1188.4	1125.1	1090.3	1084.1	1077.2	1075.0	1132.5	1220.5	1089.3
42.5°	1380.8	1356.1	1264.9	1202.3	1184.0	1188.4	1186.7	1196.6	1294.5	1411.8	1248.1
45°	1491.2	1459.4	1349.9	1284.6	1287.1	1302.6	1312.2	1351.7	1497.4	1631.3	1419.0
47.5°	1584.9	1553.6	1431.6	1373.6	1403.2	1433.8	1459.9	1534.6	1706.0	1847.3	1551.9
50°	1665.1	1635.5	1518.1	1471.5	1538.1	1587.4	1629.8	1740.5	1930.4	2011.7	1645.1
52.5°	1730.6	1710.9	1607.8	1583.7	1692.2	1764.4	1826.6	1959.2	2129.1	2145.4	1717.6
55°	1794.5	1780.4	1704.3	1717.1	1873.2	1971.5	2050.2	2191.2	2300.2	2256.8	1787.1
57.5°	1868.0	1855.2	1814.2	1886.2	2111.1	2234.9	2320.7	2396.9	2450.9	2370.7	1852.7
60°	1942.9	1935.5	1936.5	2074.1	2384.3	2503.1	2550.5	2570.2	2598.8	2478.0	1856.4
62.5°	2014.4	2028.5	2076.3	2283.2	2645.9	2737.1	2761.0	2780.5	2747.0	2495.0	1715.1
65°	2135.5	2158.4	2272.6	2563.0	2933.6	3031.3	3055.9	2989.1	2770.4	2275.1	1395.1
67.5°	2194.7	2236.6	2440.3	2823.9	3212.7	3321.2	3312.1	3002.7	2486.1	1734.8	895.3
69°	2182.3	2227.0	2479.0	2903.8	3305.4	3403.8	3345.9	2836.7	2118.0	1256.7	549.6
70°	2133.5	2178.6	2459.0	2900.8	3317.3	3395.2	3283.3	2631.8	1790.8	918.9	343.7
72.5°	1781.7	1820.6	2183.1	2622.0	3055.9	2992.6	2746.7	1823.3	872.6	250.3	77.4
75°	1096.7	1118.4	1566.4	1975.2	2308.1	2145.4	1830.0	907.1	260.1	70.8	42.9
77.5°	579.4	589.3	857.6	1164.3	1463.1	1210.6	937.9	353.8	119.8	44.4	31.1
80°	342.5	349.9	461.8	532.3	633.2	528.9	375.0	217.2	85.8	27.9	27.6
82.5°	196.0	200.7	334.8	295.9	249.5	213.0	186.6	205.9	51.5	18.7	28.6
85°	72.0	73.0	188.4	225.1	148.4	88.3	92.7	170.6	13.8	11.8	22.4
87.5°	33.5	32.8	96.9	137.8	86.8	56.0	72.2	37.5	5.4	7.6	6.2
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°	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9
2.5°	611.5	602.4	585.8	568.8	551.6	538.3	525.2	514.8	511.4	505.0	505.5
5°	592.7	576.0	541.5	506.4	470.0	439.9	411.5	388.6	377.5	366.1	366.1
7.5°	576.5	552.1	498.1	441.1	382.2	332.6	288.0	254.5	236.0	221.2	220.9
10°	570.3	537.3	461.8	380.2	298.1	230.5	177.5	143.5	126.0	114.7	114.2
12.5°	573.0	532.1	434.0	324.0	220.9	148.2	102.8	80.9	73.5	70.0	70.0
15°	580.9	530.6	406.1	269.0	156.1	92.7	68.3	62.4	61.9	61.9	61.9
17.5°	590.5	531.1	377.5	215.5	106.3	66.3	58.9	58.2	58.7	58.7	58.7
20°	600.4	531.3	346.7	165.9	75.0	57.7	55.5	55.2	55.7	55.7	56.0
22.5°	612.5	532.6	315.8	124.0	61.9	54.5	52.8	52.8	53.0	53.0	52.8
25°	626.3	535.0	283.8	92.0	56.5	52.3	50.8	50.5	50.8	50.5	50.3
27.5°	643.5	538.5	248.0	72.0	54.0	50.1	48.8	48.8	48.6	48.3	48.1
30°	665.2	542.4	207.9	61.1	51.5	48.1	46.8	46.6	46.4	45.9	45.9
32.5°	698.3	551.1	168.2	55.5	48.8	45.4	44.4	44.4	43.9	43.4	43.1
35°	749.1	568.1	132.7	52.0	45.9	42.4	41.2	41.2	40.7	40.4	40.2
37.5°	819.3	594.0	103.1	48.8	42.9	39.2	38.0	37.7	37.2	36.7	36.5
40°	912.8	626.0	81.1	45.9	39.9	36.0	35.0	34.5	33.5	32.8	32.8
42.5°	1030.1	662.5	65.8	42.7	36.5	33.0	32.3	31.6	29.8	29.1	28.8
45°	1152.9	695.3	55.7	39.0	33.0	30.1	29.6	28.4	26.1	25.4	25.4
47.5°	1241.5	703.0	49.1	35.5	29.8	26.9	26.6	24.4	22.4	21.9	21.7
50°	1296.7	687.9	43.6	32.1	26.9	23.9	23.2	20.5	19.2	18.7	18.5
52.5°	1333.9	661.0	39.2	29.1	24.2	21.2	19.5	17.5	16.5	16.0	16.0
55°	1363.8	623.1	34.8	26.4	21.9	19.0	16.5	15.0	14.1	13.6	13.6
57.5°	1372.1	571.5	30.3	24.2	19.7	16.8	14.1	13.1	11.8	11.6	11.6
60°	1311.2	478.6	26.9	21.5	17.8	14.5	12.3	11.1	9.9	9.6	9.4
62.5°	1150.7	370.3	23.7	19.0	15.5	12.6	10.6	9.1	8.1	8.1	8.1
65°	877.8	248.3	20.7	16.5	13.6	10.6	9.1	7.4	6.9	6.9	7.2
67.5°	525.4	135.1	17.8	14.1	11.6	8.9	7.6	6.4	6.2	6.4	6.4
69°	308.0	79.4	16.0	12.6	10.1	7.9	6.7	5.7	6.2	6.4	6.4
70°	190.1	53.5	14.8	11.3	9.1	7.2	6.2	5.4	5.9	6.2	6.2
72.5°	53.0	27.6	11.8	8.9	7.4	5.9	4.9	4.9	5.7	5.9	5.9
75°	34.5	20.5	9.1	6.7	5.7	4.7	4.2	4.7	5.4	5.7	5.7
77.5°	28.6	16.8	7.4	5.4	4.7	4.4	3.9	4.2	4.9	5.2	5.2
80°	26.1	11.8	5.9	4.9	4.2	3.9	3.7	3.5	4.4	4.7	4.7
82.5°	24.9	9.4	5.2	4.4	3.9	3.5	3.2	3.5	3.9	4.2	4.4
85°	15.5	6.2	4.7	4.2	3.5	3.2	3.2	3.2	3.7	3.9	3.9
87.5°	5.7	4.9	4.2	3.5	3.0	3.0	3.0	3.0	3.2	3.7	3.7
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)