

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: P322676

Luminaire Tested: **GLEON-SA2B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6104 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

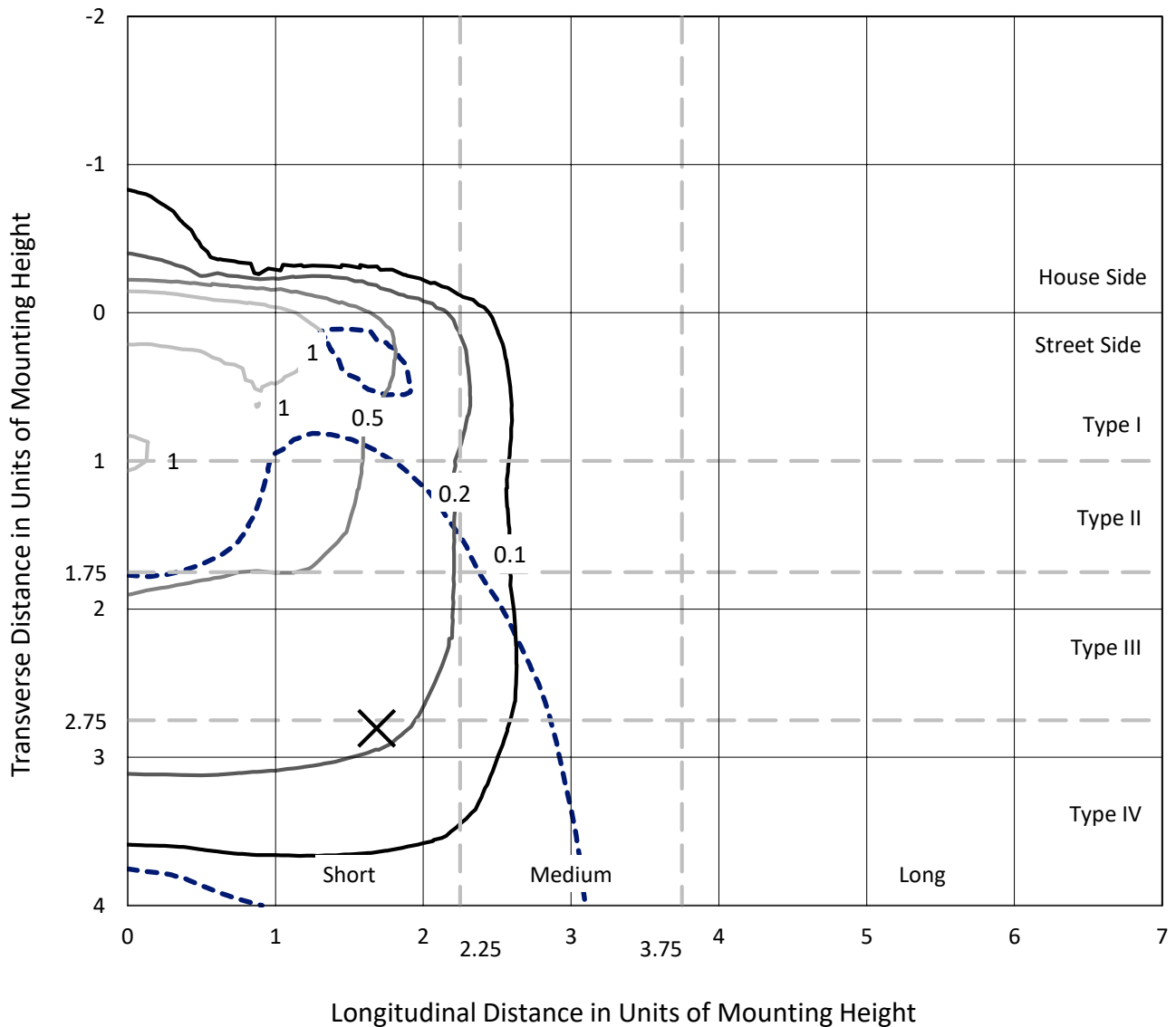
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

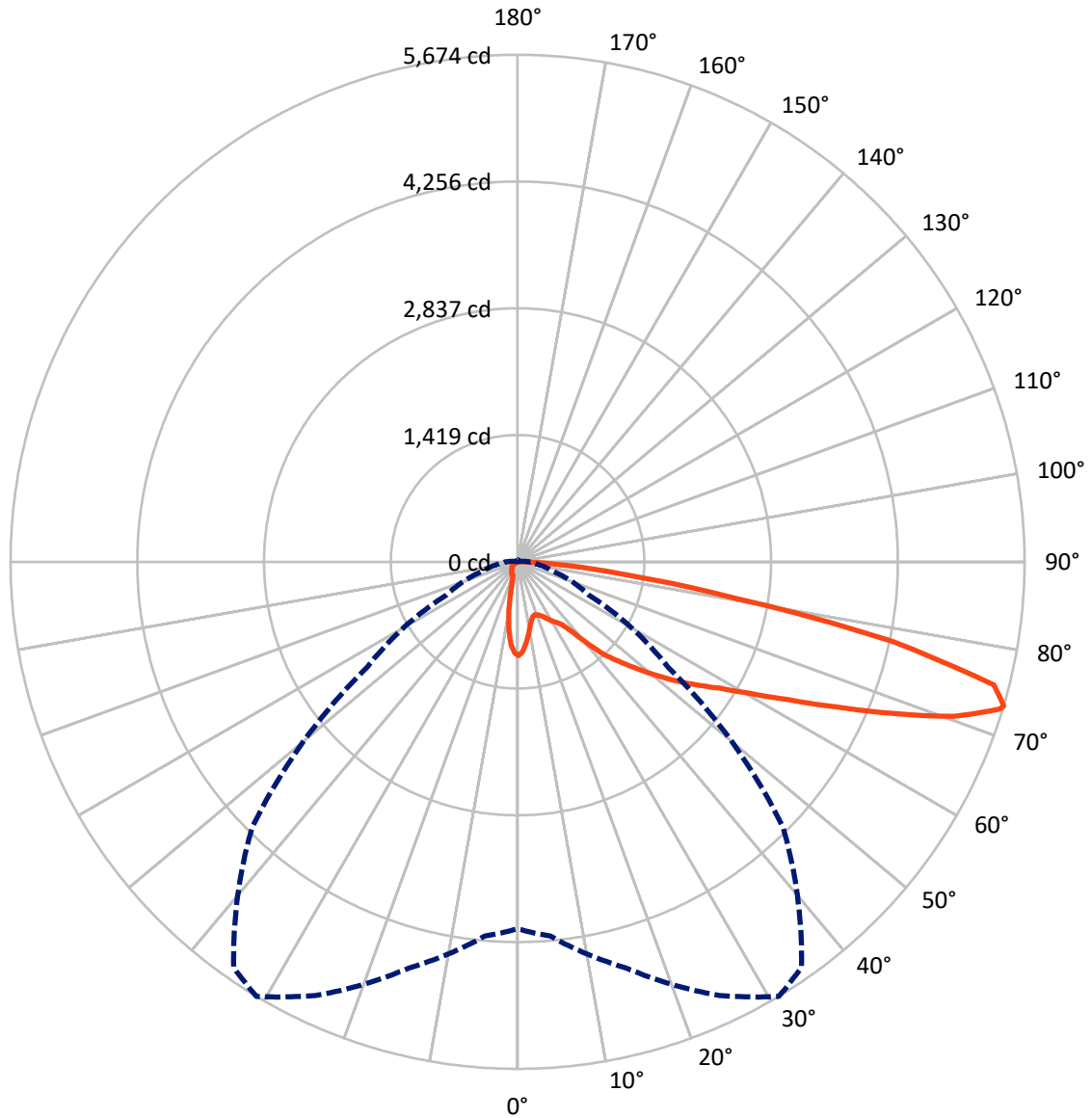
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	556.4	0.0	556.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	5547.6	0.0	5547.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	6104.0	0.0	6104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	1.4
10°-20°	189.1	3.1
20°-30°	283.3	4.6
30°-40°	450.7	7.4
40°-50°	804.8	13.2
50°-60°	1248.9	20.5
60°-70°	1660.2	27.2
70°-80°	1248.8	20.5
80°-90°	131.2	2.1
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°	6104.0	100.0
0°-180°	6104.0	100.0

Coefficient of Utilization



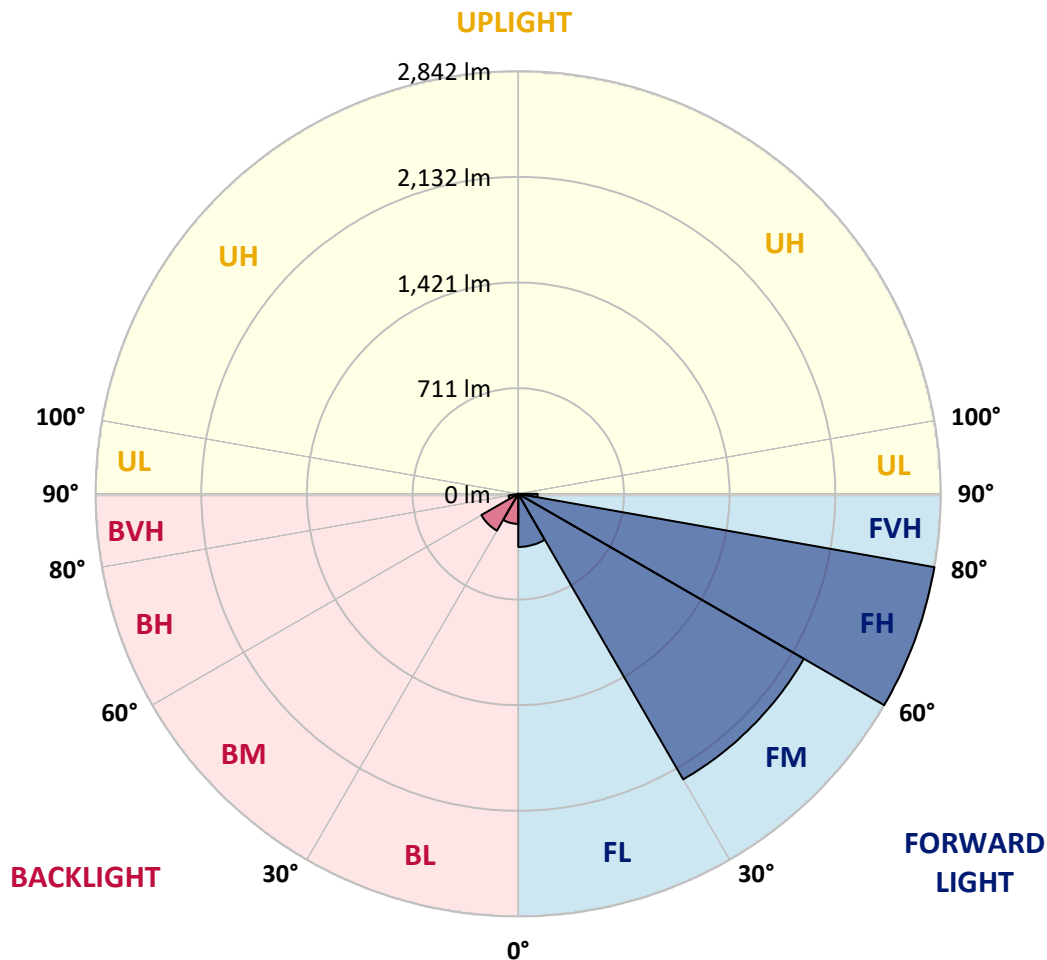
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.1	5.9			
FM (30°-60°)	2218.0	36.3			
FH (60°-80°)	2842.4	46.6			G2/5000
FVH (80°-90°)	130.1	2.1			G2/225
BL (0°-30°)	202.3	3.3	B1/500		
BM (30°-60°)	286.4	4.7	B1/1000		
BH (60°-80°)	66.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			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°	31°	35°	45°	55°	65°	75°	85°
0°	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2
2.5°	995.2	999.4	1003.9	1004.8	1012.3	1012.6	1023.3	1031.4	1039.5	1047.2	1049.9
5°	893.1	900.0	908.0	916.1	931.9	938.2	964.5	991.4	1017.1	1041.5	1053.5
7.5°	784.1	791.8	803.2	823.2	840.8	853.1	894.6	942.4	990.2	1035.3	1061.3
10°	684.6	691.8	703.7	724.9	752.1	768.8	824.7	891.0	961.2	1029.6	1072.9
12.5°	621.3	625.2	631.7	654.4	678.9	697.7	763.5	845.6	937.3	1029.3	1091.7
15°	609.6	610.8	605.5	615.6	634.7	652.9	719.6	808.9	919.1	1034.1	1116.2
17.5°	628.2	627.6	609.6	608.4	623.7	638.6	698.0	783.5	906.2	1045.1	1147.9
20°	656.2	654.1	623.1	617.4	633.5	647.6	696.6	773.9	901.5	1063.6	1186.4
22.5°	693.6	690.0	641.3	635.3	652.6	667.3	715.1	783.2	905.6	1088.4	1231.2
25°	739.9	734.5	672.7	666.1	683.7	698.3	748.2	809.8	918.2	1118.6	1288.0
27.5°	792.1	784.4	722.8	705.8	725.8	741.1	792.4	850.4	937.9	1150.6	1357.6
30°	841.4	831.3	775.7	747.6	772.1	789.1	840.2	898.8	969.6	1199.9	1452.8
32.5°	891.0	879.7	822.9	789.4	811.5	830.1	889.5	965.4	1029.0	1275.1	1579.5
35°	1005.1	993.2	923.6	868.3	868.0	878.5	958.5	1056.5	1107.6	1380.0	1730.6
37.5°	1197.2	1190.3	1124.0	1019.1	991.1	979.4	1052.6	1165.2	1220.5	1524.2	1901.2
40°	1407.4	1401.5	1327.1	1232.1	1189.4	1160.7	1187.6	1316.6	1380.0	1700.5	2075.3
42.5°	1644.9	1616.5	1483.9	1455.5	1417.3	1395.5	1371.3	1503.3	1575.9	1892.2	2248.0
45°	1860.6	1812.8	1640.7	1597.7	1589.0	1594.4	1607.9	1754.2	1796.3	2120.1	2420.0
47.5°	1989.0	1951.4	1819.3	1778.1	1775.7	1811.3	1912.8	2037.7	2015.9	2318.8	2571.5
50°	2111.2	2077.1	1967.5	1977.6	1988.7	2037.1	2259.0	2329.2	2216.3	2498.9	2710.3
52.5°	2210.0	2158.1	2100.7	2157.8	2212.1	2290.1	2616.3	2590.9	2358.5	2642.2	2829.2
55°	2267.1	2243.5	2271.3	2328.6	2430.8	2557.4	2953.5	2808.6	2462.4	2773.1	2908.4
57.5°	2476.2	2429.9	2485.1	2534.7	2667.9	2845.1	3242.3	2970.8	2537.4	2854.0	2926.6
60°	2729.2	2691.8	2724.4	2806.8	2986.6	3194.8	3512.3	3103.1	2576.5	2906.0	2879.4
62.5°	3131.8	3082.5	3062.2	3154.5	3392.9	3620.2	3717.2	3194.8	2567.9	2883.0	2717.5
65°	3671.2	3620.2	3529.4	3613.0	3916.2	4076.6	3946.3	3214.2	2508.1	2696.9	2308.3
67.5°	4223.8	4186.8	4109.1	4250.1	4523.7	4575.4	4188.6	3167.0	2315.8	2186.7	1630.9
70°	4588.8	4573.0	4623.5	4935.3	5179.3	5164.4	4410.8	2913.5	1805.0	1344.7	806.8
72.5°	4325.7	4401.5	4774.3	5339.7	5637.8	5516.0	4296.7	2237.2	1031.7	517.3	233.3
73°	4107.6	4204.7	4706.5	5355.0	5674.0	5540.5	4200.8	2053.5	879.4	408.3	176.8
75°	2857.6	2976.8	3896.5	4987.3	5504.9	5278.8	3501.6	1256.9	407.4	181.0	71.4
77.5°	1387.4	1475.5	2145.5	3603.4	4281.2	4124.4	2179.9	468.4	184.0	113.2	32.9
80°	517.9	575.9	931.3	1834.0	2474.1	2538.9	958.8	177.1	122.5	91.1	16.7
82.5°	135.6	151.1	343.5	817.8	1268.0	1327.1	302.3	89.3	89.6	75.0	10.2
85°	43.3	49.6	107.2	367.1	597.4	524.5	78.9	43.3	65.1	55.9	5.7
87.5°	5.4	6.9	34.1	86.3	131.7	73.2	12.2	12.8	27.8	31.1	3.3
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°	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2	1050.2
2.5°	1052.6	1051.1	1051.4	1043.6	1038.6	1028.4	1017.9	1013.2	1008.1	1006.0	1008.1
5°	1058.0	1055.3	1047.5	1023.6	998.2	965.4	934.6	911.3	882.0	874.0	882.3
7.5°	1066.3	1061.0	1038.3	989.6	933.1	870.4	799.9	748.5	706.4	679.2	689.1
10°	1078.6	1068.4	1022.7	940.0	839.0	727.9	627.9	549.9	494.6	471.9	471.0
12.5°	1099.2	1080.1	1003.6	875.5	724.0	575.9	444.8	360.2	315.4	286.4	285.8
15°	1121.9	1093.8	979.4	798.1	590.2	412.5	286.4	222.2	193.3	184.0	182.8
17.5°	1149.7	1109.6	948.1	702.8	450.1	273.3	187.0	168.5	167.3	166.4	166.4
20°	1184.6	1128.5	907.7	593.8	319.3	182.5	158.9	160.1	160.7	159.5	159.8
22.5°	1225.2	1147.6	859.6	476.7	216.0	152.6	152.0	153.5	154.1	153.5	153.8
25°	1272.4	1169.7	801.1	354.0	155.9	144.9	146.4	148.5	149.9	149.9	149.9
27.5°	1331.0	1196.6	730.6	247.0	134.7	136.8	141.0	144.9	147.0	147.6	147.6
30°	1407.1	1230.0	646.1	169.4	122.5	126.0	133.8	141.3	145.2	145.8	146.1
32.5°	1503.3	1267.7	548.1	125.2	112.0	114.7	123.1	135.6	143.1	144.3	144.3
35°	1613.5	1311.3	442.7	109.0	104.5	105.4	112.0	126.3	139.5	142.8	143.1
37.5°	1734.2	1354.3	336.6	101.9	98.3	98.3	103.0	115.3	130.8	141.0	142.2
40°	1846.8	1380.3	236.0	96.2	92.6	92.6	96.8	105.7	120.4	135.6	138.9
42.5°	1950.8	1389.2	164.3	90.8	87.2	88.1	91.7	98.9	109.9	125.2	128.1
45°	2057.7	1387.7	119.8	84.5	81.8	84.5	87.2	92.6	100.7	109.3	109.9
47.5°	2138.3	1375.2	95.0	78.6	76.8	80.3	82.7	86.3	90.8	90.2	90.2
50°	2213.9	1344.7	76.5	70.5	71.7	75.9	77.1	78.3	78.6	72.9	72.3
52.5°	2271.3	1297.2	61.2	61.8	66.6	70.8	69.6	67.8	64.8	57.9	56.8
55°	2290.4	1205.8	48.1	51.1	59.1	64.5	60.0	56.2	50.5	44.8	43.6
57.5°	2255.7	1087.8	39.1	39.7	49.9	54.4	49.3	44.8	38.5	33.8	32.9
60°	2182.3	956.7	32.3	29.9	38.5	42.4	39.1	34.6	29.0	25.4	25.1
62.5°	2036.5	816.9	26.6	23.3	29.3	32.6	30.5	27.2	22.4	20.0	19.7
65°	1730.0	653.5	21.5	18.8	22.7	25.4	23.6	21.2	17.6	15.8	15.5
67.5°	1207.6	441.8	17.6	15.5	17.9	20.0	18.5	17.3	14.0	13.7	14.0
70°	582.5	213.0	14.6	12.5	14.0	15.5	14.9	14.0	13.4	15.5	17.9
72.5°	167.0	71.4	11.6	10.5	11.4	12.2	12.8	12.5	14.6	18.8	21.8
73°	128.4	57.6	11.1	9.9	10.8	11.9	12.5	12.2	14.9	19.1	21.8
75°	55.0	27.8	8.4	8.1	9.0	10.5	11.1	11.1	14.9	19.4	20.9
77.5°	24.8	14.9	5.4	6.3	7.8	8.4	9.3	9.3	11.9	14.9	14.9
80°	14.0	8.1	4.2	4.8	5.7	5.7	5.7	5.1	5.4	6.0	6.6
82.5°	9.0	5.4	3.3	3.9	3.6	3.0	2.4	2.4	2.1	2.4	3.0
85°	5.1	3.0	3.0	2.4	1.5	1.2	1.5	1.2	0.3	0.0	0.3
87.5°	3.0	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)