

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: P322027

Luminaire Tested: **GLEON-SA3A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7439 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

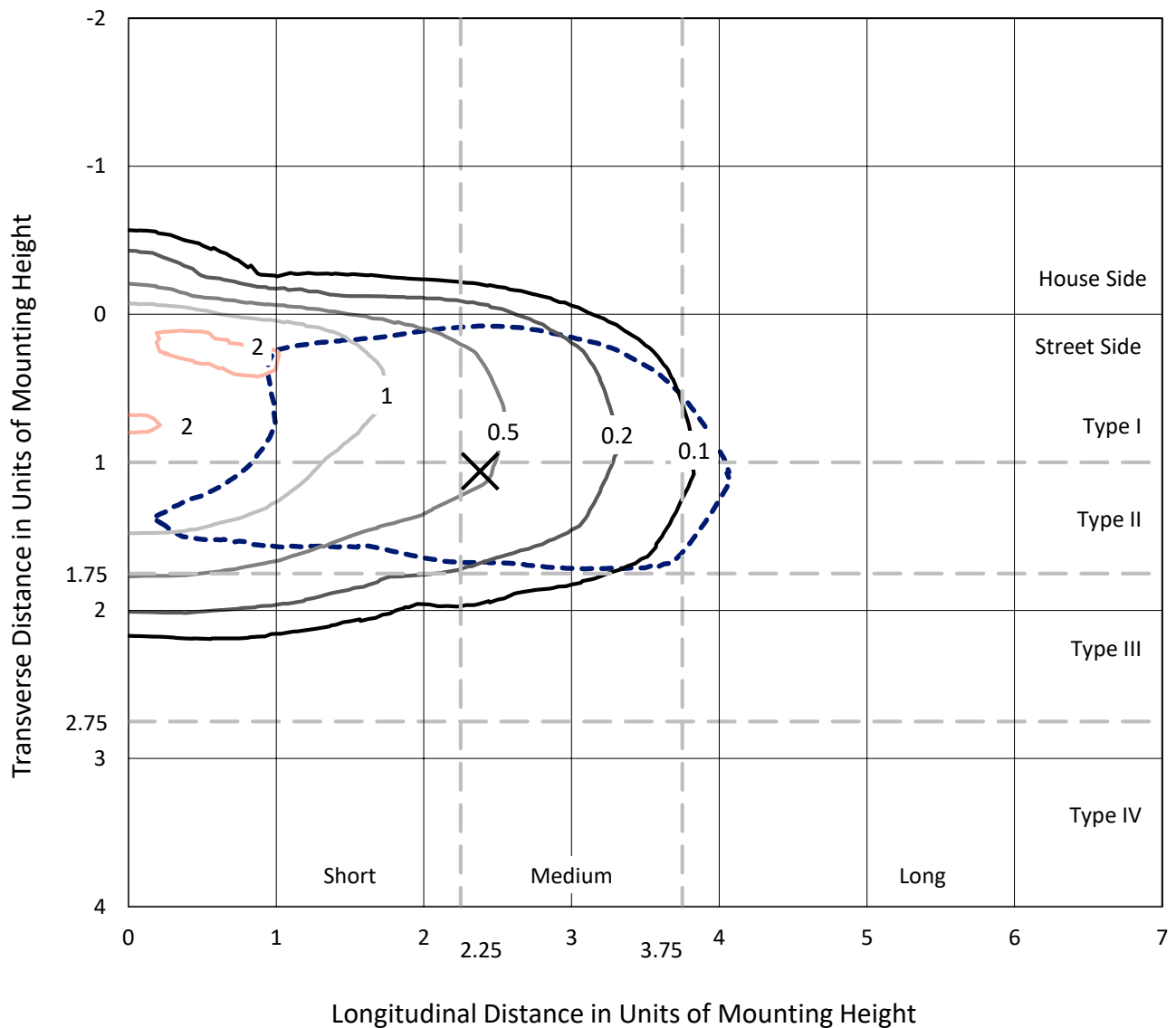
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

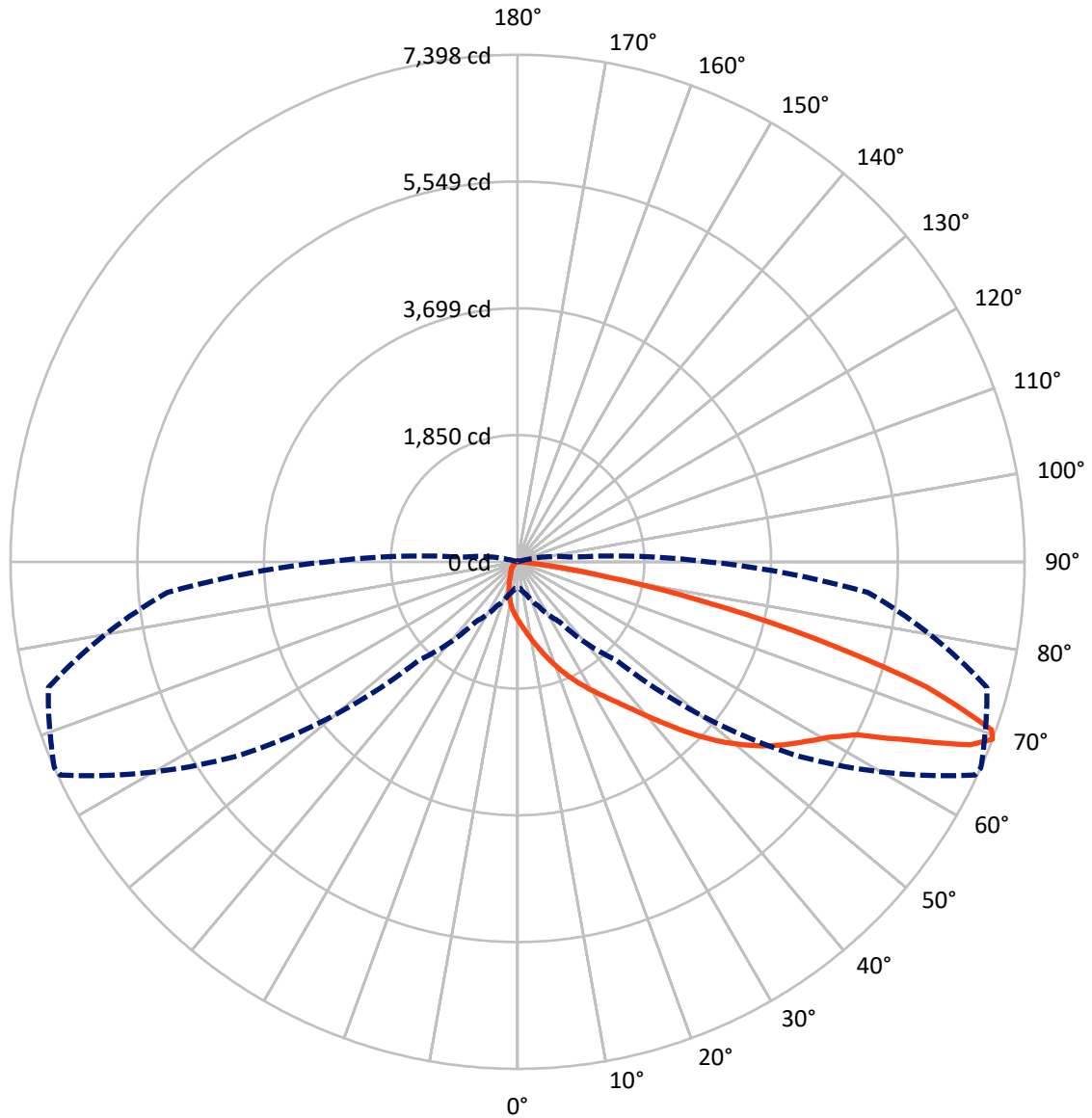
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	446.2	0.0	446.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	6992.8	0.0	6992.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	7439.0	0.0	7439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.1
10°-20°	243.6	3.3
20°-30°	424.1	5.7
30°-40°	744.1	10.0
40°-50°	1245.5	16.7
50°-60°	1830.8	24.6
60°-70°	1879.8	25.3
70°-80°	928.0	12.5
80°-90°	61.4	0.8
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°	7439.0	100.0
0°-180°	7439.0	100.0

Coefficient of Utilization

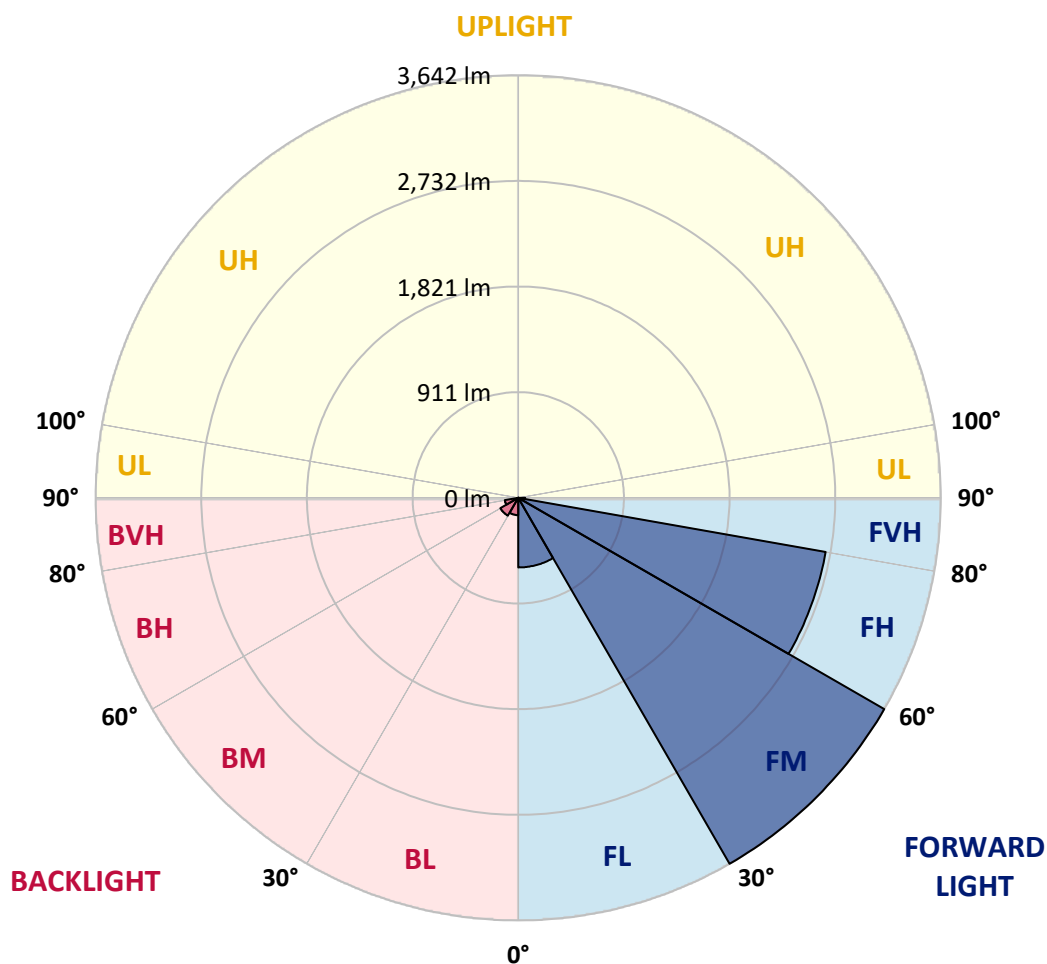


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.3	8.1			
FM (30°-60°)	3642.5	49.0			
FH (60°-80°)	2690.1	36.2			G2/5000
FVH (80°-90°)	59.9	0.8			G1/100
BL (0°-30°)	149.2	2.0	B1/500		
BM (30°-60°)	177.9	2.4	B0/220		
BH (60°-80°)	117.6	1.6	B1/500		G1/500
BVH (80°-90°)	1.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6
2.5°	996.4	992.2	990.4	982.6	969.2	958.9	939.2	916.2	911.9	889.7	862.5
5°	1125.7	1122.2	1119.7	1108.8	1095.0	1069.2	1033.1	990.4	982.3	939.9	885.4
7.5°	1215.8	1222.2	1222.2	1215.1	1197.8	1178.4	1134.2	1075.9	1065.6	1000.6	916.2
10°	1268.5	1276.2	1282.2	1288.2	1285.8	1278.0	1236.3	1170.6	1158.2	1072.0	951.9
12.5°	1273.4	1281.2	1298.1	1323.2	1347.6	1365.3	1339.1	1275.5	1261.4	1154.7	994.3
15°	1245.8	1254.0	1280.1	1328.9	1387.9	1439.5	1448.0	1391.8	1377.3	1253.3	1047.3
17.5°	1197.8	1203.1	1240.5	1308.0	1400.6	1495.3	1546.5	1516.5	1503.1	1366.0	1106.3
20°	1162.1	1166.0	1198.9	1271.3	1392.8	1530.3	1639.8	1649.0	1634.9	1486.8	1170.2
22.5°	1223.2	1230.3	1231.4	1265.6	1371.6	1547.6	1721.8	1779.4	1768.8	1615.1	1233.1
25°	1390.4	1398.5	1371.6	1350.4	1389.7	1555.4	1792.1	1912.9	1904.5	1753.2	1296.4
27.5°	1611.2	1619.7	1585.0	1521.8	1484.0	1584.7	1854.6	2048.6	2048.3	1899.5	1364.6
30°	1828.1	1836.6	1801.3	1738.0	1651.1	1667.7	1908.7	2190.7	2192.8	2050.4	1437.0
32.5°	2055.7	2066.3	2029.9	1948.6	1857.8	1811.2	1984.7	2333.4	2345.4	2225.3	1518.6
35°	2314.3	2315.7	2264.5	2179.3	2074.8	2003.0	2106.6	2493.5	2522.1	2441.9	1622.1
37.5°	2568.0	2578.3	2536.2	2401.9	2305.8	2224.6	2287.8	2693.4	2734.1	2706.5	1757.5
40°	2756.0	2777.5	2771.5	2626.7	2535.5	2477.6	2512.9	2931.2	2982.8	3014.6	1928.1
42.5°	2874.0	2890.3	2917.8	2830.5	2747.9	2757.4	2778.6	3208.2	3271.8	3365.8	2124.2
45°	3009.3	3017.1	3040.1	3001.6	2945.7	3041.8	3060.6	3520.2	3587.0	3743.5	2341.9
47.5°	3174.7	3193.1	3199.4	3164.1	3138.6	3293.4	3332.3	3804.0	3897.6	4148.1	2572.3
50°	3385.3	3390.2	3401.2	3378.2	3352.8	3509.6	3576.1	4101.8	4187.0	4554.1	2799.4
52.5°	3591.3	3608.9	3647.1	3632.6	3622.4	3693.7	3793.4	4370.4	4465.4	4892.6	3026.3
55°	3650.6	3665.8	3797.6	3887.7	3971.1	3920.6	4001.1	4611.0	4713.8	5195.0	3244.6
57.5°	3413.5	3444.3	3672.5	3907.1	4253.1	4273.2	4286.6	4858.0	4950.2	5426.8	3471.8
60°	2814.3	2820.3	3194.8	3597.3	4206.4	4580.9	4703.5	5123.3	5200.7	5642.7	3743.9
62.5°	1790.0	1851.1	2262.0	2830.2	3713.2	4536.4	5207.8	5524.7	5553.0	5901.7	4134.0
65°	852.6	892.2	1188.3	1748.6	2689.6	3966.5	5555.8	6250.8	6263.5	6415.1	4655.1
67.5°	472.1	491.1	632.1	941.3	1572.3	2805.1	5415.2	7110.8	7122.8	6939.4	5112.4
69°	369.2	385.5	496.4	709.5	1066.0	2016.1	4900.4	7362.7	7398.4	7089.6	5128.6
70°	313.4	329.3	427.5	599.3	857.2	1557.8	4361.9	7300.2	7338.0	7075.5	5007.4
72.5°	191.9	201.0	284.8	421.9	574.5	783.7	2689.9	6173.8	6237.7	6490.3	4303.6
75°	129.3	134.3	178.1	291.1	410.9	403.5	1397.4	4351.6	4490.1	5048.8	3178.6
77.5°	92.6	97.2	119.4	188.3	288.0	266.4	632.8	2704.4	2734.1	3028.1	1733.4
80°	52.6	56.9	84.4	112.0	195.4	177.7	251.6	1291.8	1306.6	1298.5	578.8
82.5°	27.6	31.1	46.3	73.8	125.4	116.2	104.6	432.5	434.6	361.5	126.8
85°	5.3	6.4	23.0	50.5	64.7	50.5	42.8	101.4	103.5	91.5	31.4
87.5°	0.0	0.4	9.2	11.3	12.7	13.1	13.8	19.8	21.2	28.6	8.5
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°	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6	846.6
2.5°	850.5	837.7	813.4	785.1	763.2	741.6	724.7	707.0	700.7	697.5	697.1
5°	858.9	832.1	780.5	727.5	684.0	643.1	613.7	585.8	572.8	566.7	564.3
7.5°	873.1	830.0	746.9	666.0	603.5	552.3	511.6	481.2	466.0	459.7	457.2
10°	889.7	827.1	707.7	601.0	521.2	468.2	427.9	397.9	381.2	374.2	370.6
12.5°	909.1	822.2	662.5	535.3	450.9	397.9	349.1	312.0	292.9	284.8	280.9
15°	933.1	817.3	615.2	473.5	389.0	324.4	271.0	245.9	242.0	240.6	241.0
17.5°	956.8	809.5	563.6	412.3	324.0	253.3	226.1	224.7	225.4	225.4	225.4
20°	978.0	791.8	507.4	360.0	262.2	213.8	208.1	205.6	203.9	202.5	200.7
22.5°	994.6	768.1	453.3	308.1	214.1	195.7	186.9	179.1	172.8	168.5	166.4
25°	1005.9	736.7	403.9	258.3	192.6	178.1	162.2	149.1	139.2	133.2	130.7
27.5°	1014.4	702.8	359.7	216.2	177.7	157.6	136.7	121.2	110.9	105.6	103.5
30°	1020.4	664.3	320.8	190.1	161.1	136.0	113.8	98.6	91.2	88.3	86.9
32.5°	1026.1	621.5	284.1	177.7	145.6	116.2	95.4	83.7	79.1	75.6	74.6
35°	1040.2	581.9	249.1	164.7	129.7	99.3	82.0	73.5	68.9	66.8	66.1
37.5°	1073.8	552.6	215.5	151.2	113.8	85.9	71.7	65.7	61.5	59.4	58.7
40°	1127.8	537.8	187.3	136.7	98.2	75.6	65.0	59.4	54.8	51.6	50.9
42.5°	1207.3	539.9	167.5	122.3	85.9	67.5	58.7	51.9	47.0	44.2	43.5
45°	1303.8	555.4	153.7	108.1	75.6	61.1	51.6	44.5	39.9	37.5	36.7
47.5°	1408.4	580.5	142.4	95.4	67.5	55.1	44.5	37.1	33.2	31.1	30.7
50°	1518.6	604.9	130.7	83.0	60.4	49.1	37.5	30.7	27.6	25.8	25.1
52.5°	1630.3	633.2	120.1	71.7	54.4	42.0	31.1	25.1	22.6	21.2	20.5
55°	1750.4	654.4	109.9	62.9	48.4	35.7	25.8	20.8	18.7	17.0	16.6
57.5°	1891.7	687.2	99.3	54.4	41.3	29.7	21.2	16.6	14.8	13.1	12.7
60°	2082.5	725.7	88.0	48.1	33.9	24.4	17.3	13.4	11.3	9.9	9.5
62.5°	2334.1	768.5	73.8	42.0	27.6	19.8	13.8	10.6	8.1	6.4	6.4
65°	2653.2	838.1	60.4	35.3	22.6	16.3	10.6	7.8	4.6	2.8	2.8
67.5°	2839.4	850.1	48.8	29.0	18.4	13.8	8.8	5.3	1.4	0.4	0.0
69°	2779.7	780.5	41.3	24.7	15.9	13.1	8.1	3.9	0.7	0.0	0.0
70°	2667.3	713.7	36.4	21.9	14.5	12.4	7.8	2.8	0.7	0.0	0.0
72.5°	2204.1	508.1	27.6	16.3	10.6	11.0	7.1	1.8	0.7	0.0	0.0
75°	1605.5	308.8	19.8	11.3	6.7	8.1	4.9	0.7	0.4	0.0	0.0
77.5°	893.2	145.6	12.4	6.4	4.2	4.9	2.5	0.0	0.0	0.0	0.0
80°	290.1	39.6	5.7	3.5	2.5	2.8	1.1	0.0	0.0	0.0	0.0
82.5°	53.7	11.3	3.2	1.8	0.7	0.7	0.0	0.0	0.0	0.0	0.0
85°	11.7	4.6	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.4	0.4	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)