

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: P321397

Luminaire Tested: **GLEON-SA3B-827-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3B-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10352 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

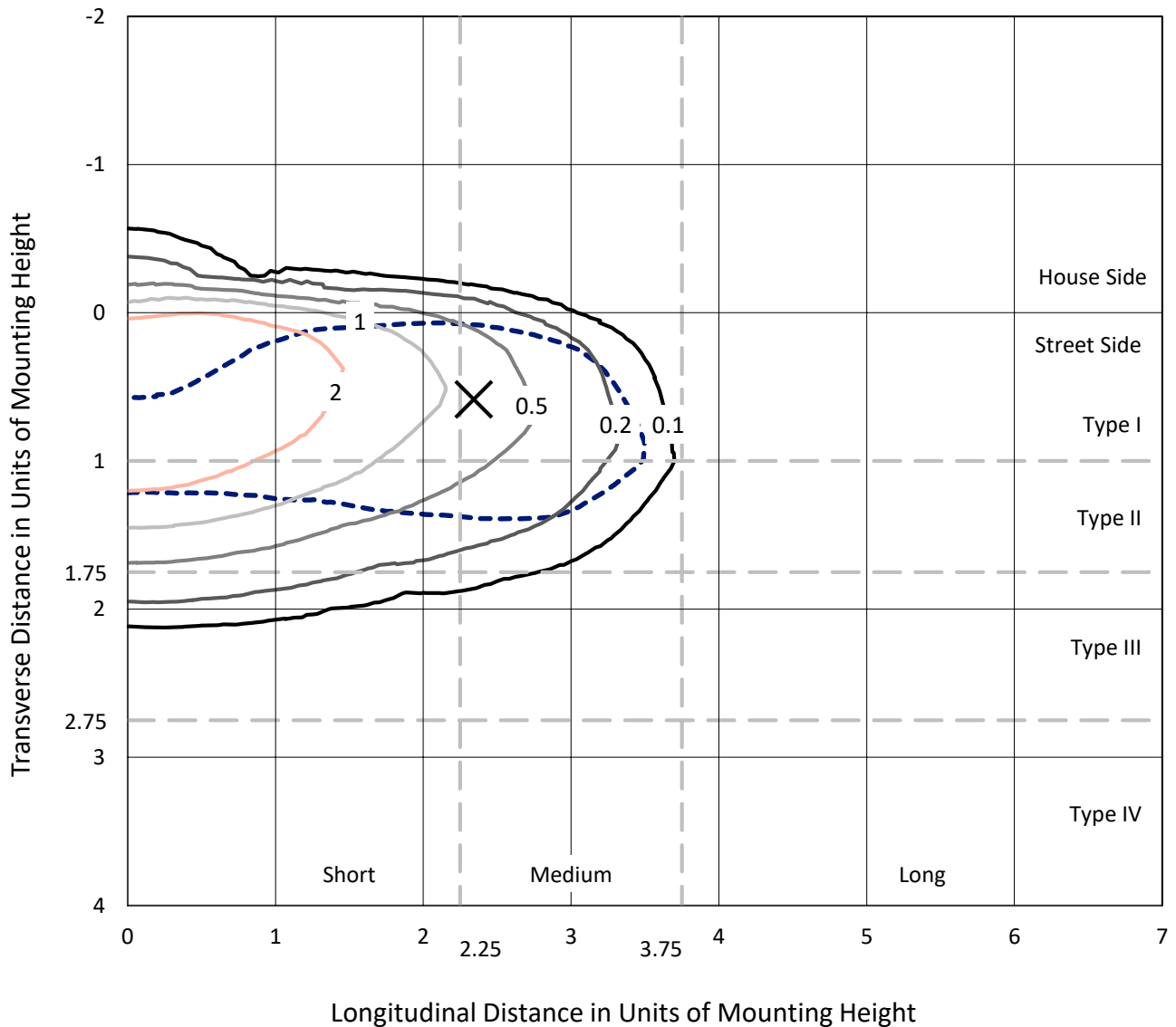
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

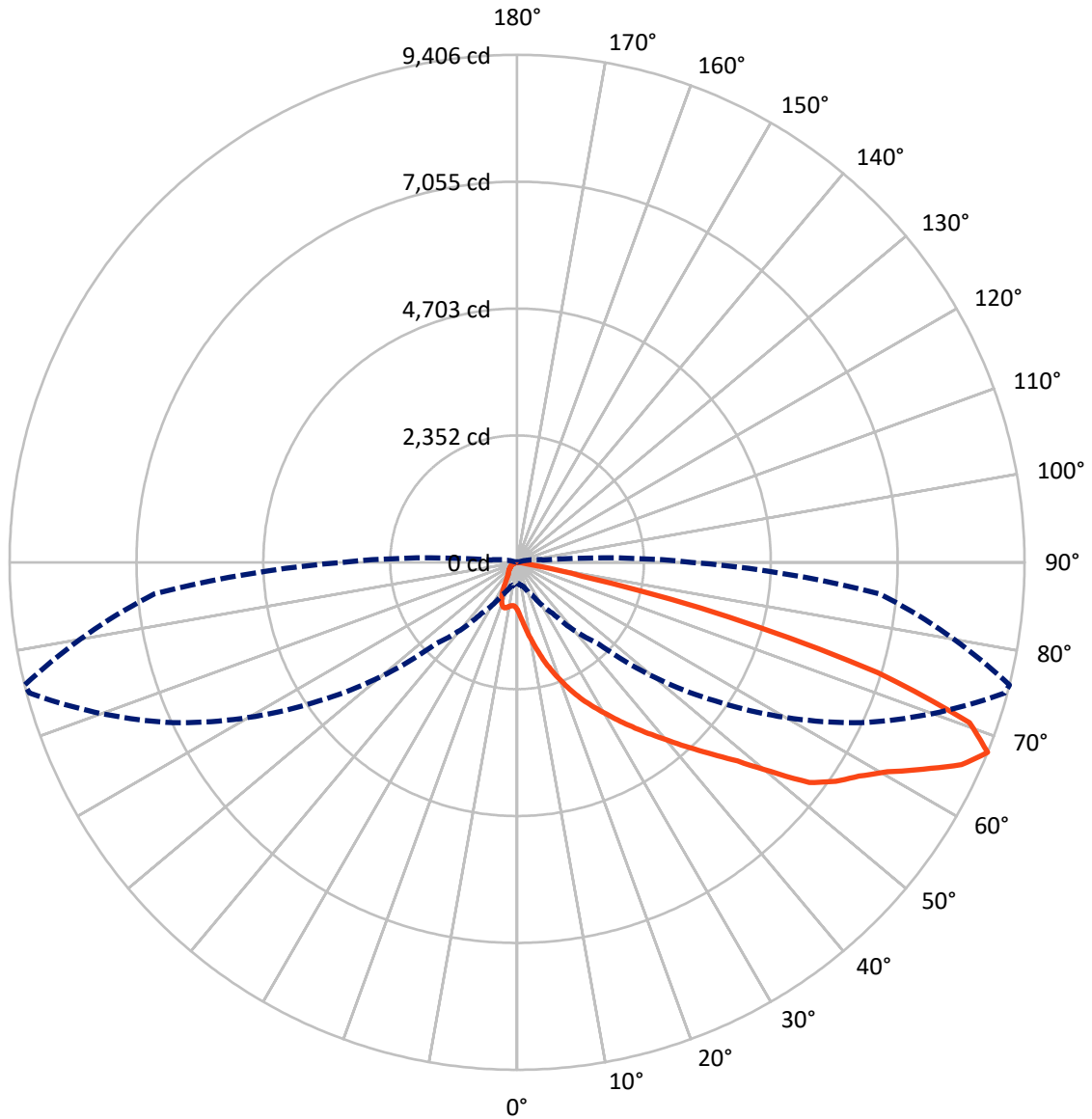
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	514.1	0.0	514.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	9837.9	0.0	9837.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	10352.0	0.0	10352.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	1.1
10°-20°	432.9	4.2
20°-30°	880.7	8.5
30°-40°	1528.7	14.8
40°-50°	2159.8	20.9
50°-60°	2449.4	23.7
60°-70°	2031.5	19.6
70°-80°	735.9	7.1
80°-90°	23.9	0.2
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°	10352.0	100.0
0°-180°	10352.0	100.0

**Coefficient of Utilization**

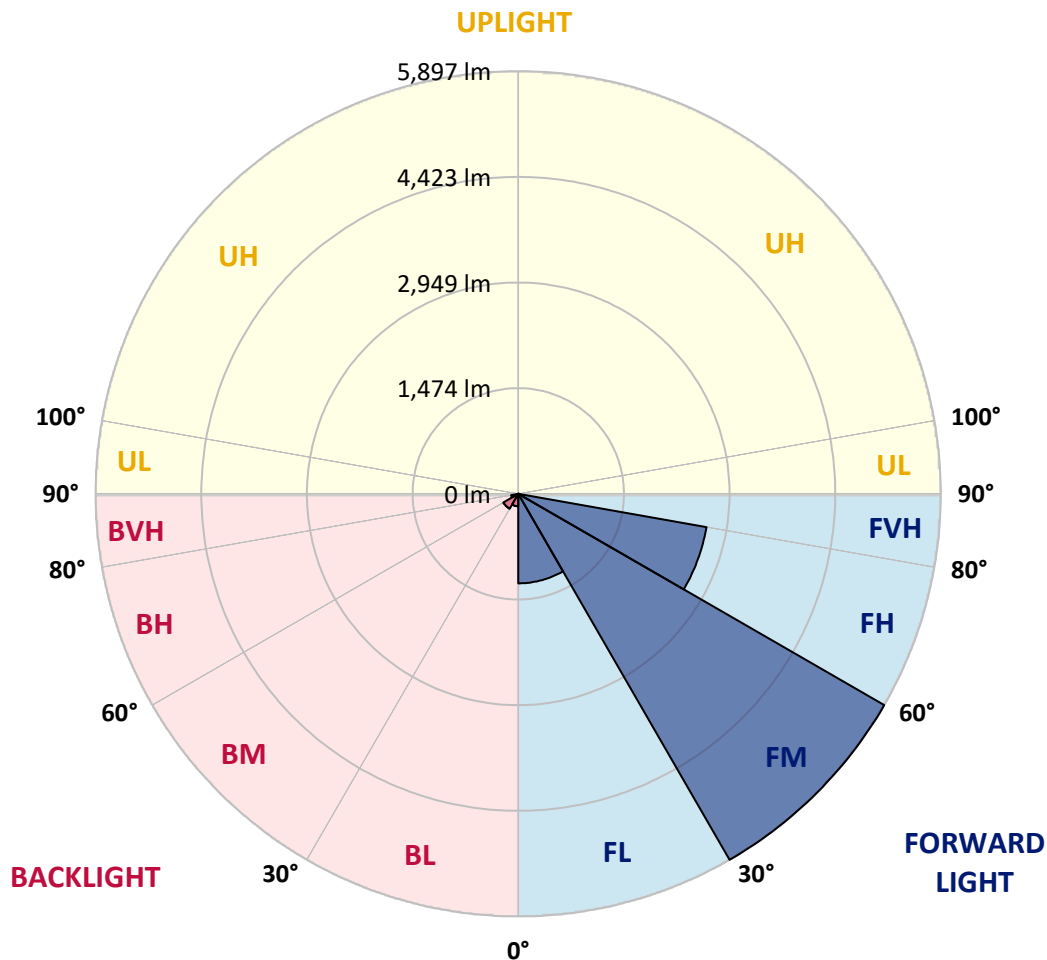


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.5	12.1			
FM (30°-60°)	5897.3	57.0			
FH (60°-80°)	2668.1	25.8			G2/5000
FVH (80°-90°)	23.1	0.2			G1/100
BL (0°-30°)	173.4	1.7	B1/500		
BM (30°-60°)	240.6	2.3	B1/1000		
BH (60°-80°)	99.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.8	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°	75°	76°	85°
0°	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1
2.5°	1310.9	1281.4	1288.2	1269.1	1234.7	1163.9	1103.6	1046.4	979.8	977.5	922.6
5°	1767.6	1742.7	1739.5	1701.0	1638.4	1518.2	1401.1	1267.8	1119.0	1108.1	991.5
7.5°	2182.2	2162.3	2155.0	2109.2	1992.6	1875.6	1723.2	1527.2	1294.5	1274.6	1084.5
10°	2500.6	2491.1	2492.9	2460.3	2360.5	2251.6	2051.6	1801.7	1493.7	1462.8	1196.1
12.5°	2741.9	2744.2	2760.5	2740.6	2684.8	2604.1	2390.4	2094.2	1714.1	1671.9	1323.6
15°	2919.3	2930.6	2960.6	2985.5	2981.4	2911.6	2715.6	2391.3	1948.2	1901.4	1465.5
17.5°	3034.1	3046.8	3090.3	3145.6	3196.4	3180.1	3029.5	2678.0	2184.9	2131.0	1617.5
20°	3134.8	3149.7	3196.4	3269.5	3364.3	3384.7	3285.8	2956.0	2421.3	2355.5	1774.4
22.5°	3352.9	3352.5	3381.1	3423.7	3514.0	3566.6	3504.0	3214.1	2654.9	2586.4	1934.6
25°	3747.6	3732.6	3722.6	3689.0	3709.0	3741.7	3706.7	3455.4	2889.8	2820.4	2096.9
27.5°	4216.6	4225.6	4144.9	4054.6	3984.8	3951.2	3894.1	3679.1	3115.7	3039.5	2255.7
30°	4711.4	4714.2	4618.9	4503.7	4349.9	4222.5	4123.6	3892.7	3347.9	3264.9	2409.9
32.5°	5157.8	5140.1	5045.7	4888.8	4694.7	4551.3	4345.8	4131.3	3593.8	3513.5	2581.4
35°	5511.6	5490.7	5375.9	5233.1	5031.7	4887.4	4640.2	4369.4	3852.3	3773.9	2753.3
37.5°	5770.1	5745.6	5627.7	5480.7	5307.0	5223.1	4981.8	4628.4	4134.5	4050.1	2934.3
40°	5859.9	5838.6	5764.7	5657.2	5517.5	5498.4	5344.2	4926.4	4441.5	4351.7	3139.3
42.5°	5806.4	5785.5	5759.2	5722.9	5664.9	5683.0	5686.2	5266.2	4782.6	4694.2	3365.6
45°	5594.1	5575.5	5602.7	5655.8	5727.9	5817.7	5998.3	5631.3	5163.7	5069.3	3627.4
47.5°	5281.6	5268.0	5343.3	5475.7	5686.7	5934.3	6283.6	6015.1	5591.4	5503.9	3953.9
50°	4837.1	4834.8	4985.4	5227.2	5551.5	5990.6	6578.4	6451.4	6185.6	6093.5	4408.0
52.5°	4144.9	4149.4	4445.6	4832.5	5314.3	5952.5	6768.0	7012.0	6876.9	6781.2	4801.2
55°	3485.8	3513.1	3723.1	4281.0	4950.5	5810.9	6833.3	7273.8	7258.3	7167.6	5019.9
57.5°	2840.4	2889.8	3092.1	3613.3	4419.3	5484.8	6797.5	7387.2	7542.3	7472.9	5308.4
60°	2140.9	2163.6	2396.8	2883.9	3737.6	4889.7	6537.6	7448.8	7930.6	7882.5	5727.0
62.5°	1362.1	1418.8	1625.7	2095.6	2910.2	4063.3	6099.4	7447.9	8416.4	8442.7	6267.2
65°	717.6	783.8	893.6	1298.6	1999.9	3140.2	5440.4	7378.1	9012.4	9049.1	6689.5
67.5°	386.9	406.0	464.0	674.0	1159.8	2127.3	4471.9	7033.4	9357.6	9406.1	6748.5
70°	283.0	293.5	315.2	372.9	583.8	1235.6	3263.1	6251.8	8912.6	8894.4	5996.0
72.5°	217.3	233.6	249.9	273.1	335.7	659.5	2031.6	4895.6	7111.4	6991.6	4481.9
75°	171.5	174.2	197.3	218.2	251.7	375.6	902.2	2851.3	4340.4	4056.9	2324.2
77.5°	137.0	138.8	152.4	170.5	202.3	246.8	279.4	1121.7	1385.7	1236.5	504.4
80°	81.2	85.7	113.4	131.5	167.8	155.6	102.1	243.6	216.4	196.0	84.8
82.5°	45.4	49.0	64.0	103.9	117.0	74.4	50.8	65.8	50.8	49.4	24.0
85°	0.0	2.3	41.3	64.4	47.6	16.3	21.3	21.8	15.0	14.1	9.5
87.5°	0.0	0.0	12.7	12.2	1.8	2.7	5.0	7.3	5.9	5.9	5.0
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°	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1	878.1
2.5°	895.4	870.9	824.6	779.3	741.2	709.9	681.7	670.4	661.3	660.0	652.7
5°	935.3	885.9	797.4	724.8	676.3	641.8	612.3	594.2	580.1	574.7	569.7
7.5°	995.6	920.8	793.8	710.3	652.3	594.2	539.8	480.8	444.1	430.0	421.8
10°	1069.1	967.1	807.4	706.2	604.6	482.2	391.9	317.1	286.7	276.7	274.0
12.5°	1154.8	1024.7	831.0	680.8	503.0	342.5	270.3	244.9	238.1	235.0	235.0
15°	1253.3	1087.7	847.8	607.4	371.9	259.0	234.1	222.3	215.0	210.9	211.4
17.5°	1354.0	1149.4	839.6	500.8	274.4	230.4	211.8	199.1	189.1	185.1	184.2
20°	1455.6	1206.5	794.2	372.9	232.2	209.1	188.2	174.2	164.2	160.1	159.2
22.5°	1560.8	1255.1	714.4	273.5	208.7	185.5	165.1	151.0	141.5	137.9	136.1
25°	1663.3	1294.5	602.8	221.4	186.4	163.3	143.8	130.6	122.0	118.4	117.9
27.5°	1759.0	1319.5	473.5	195.5	166.9	143.3	125.6	113.9	106.6	103.9	103.4
30°	1845.2	1321.8	350.2	176.4	149.7	126.1	109.8	99.3	93.0	90.3	89.4
32.5°	1932.3	1302.7	254.9	159.2	133.8	111.1	95.3	87.1	82.6	80.3	80.3
35°	2014.4	1258.7	198.7	144.2	118.4	96.6	83.9	78.0	75.3	73.0	73.0
37.5°	2094.7	1195.7	168.7	131.1	103.9	84.4	73.9	70.3	68.0	65.8	65.8
40°	2176.3	1116.3	153.3	118.8	92.1	74.8	65.8	62.6	60.3	58.5	58.1
42.5°	2276.6	1024.7	143.3	107.5	81.6	66.2	58.1	54.4	52.6	50.8	49.9
45°	2392.7	945.7	135.2	96.2	73.0	59.0	50.3	46.7	44.0	41.7	41.3
47.5°	2560.1	888.6	124.3	83.9	64.9	51.3	43.5	39.5	35.4	33.1	32.7
50°	2773.7	841.4	110.2	73.0	56.7	43.5	36.3	31.3	27.7	25.4	25.4
52.5°	2879.8	779.7	97.5	63.5	47.6	36.7	29.5	23.6	21.8	19.5	19.5
55°	2922.5	732.5	84.8	54.0	39.5	30.4	23.1	18.1	16.8	15.4	15.0
57.5°	3042.2	718.9	73.9	45.8	32.7	24.0	17.7	13.6	12.7	10.9	10.9
60°	3235.0	725.7	64.0	39.0	26.3	18.6	13.2	10.4	9.5	7.7	7.7
62.5°	3443.2	717.1	54.0	33.6	20.4	13.6	9.1	7.7	7.7	4.5	4.1
65°	3483.1	638.7	46.3	27.7	15.9	10.0	5.9	5.0	6.8	0.9	0.0
67.5°	3232.7	495.3	39.9	21.3	11.8	7.7	4.5	2.3	5.9	0.0	0.0
70°	2585.0	314.8	32.2	15.4	9.1	6.4	3.6	0.9	4.5	0.0	0.0
72.5°	1828.0	182.8	25.4	10.9	7.7	5.0	2.7	0.0	2.7	0.0	0.0
75°	924.4	97.5	15.9	8.2	5.9	3.6	1.8	0.0	0.5	0.0	0.0
77.5°	200.0	45.4	10.0	5.9	4.1	2.3	0.9	0.0	0.0	0.0	0.0
80°	43.5	20.0	6.4	3.6	2.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	15.9	10.4	3.2	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	5.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.8	0.5	0.5	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)