

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: P321409

Luminaire Tested: **GLEON-SA5C-827-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321409  
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-SA5C-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA 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: 20977 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

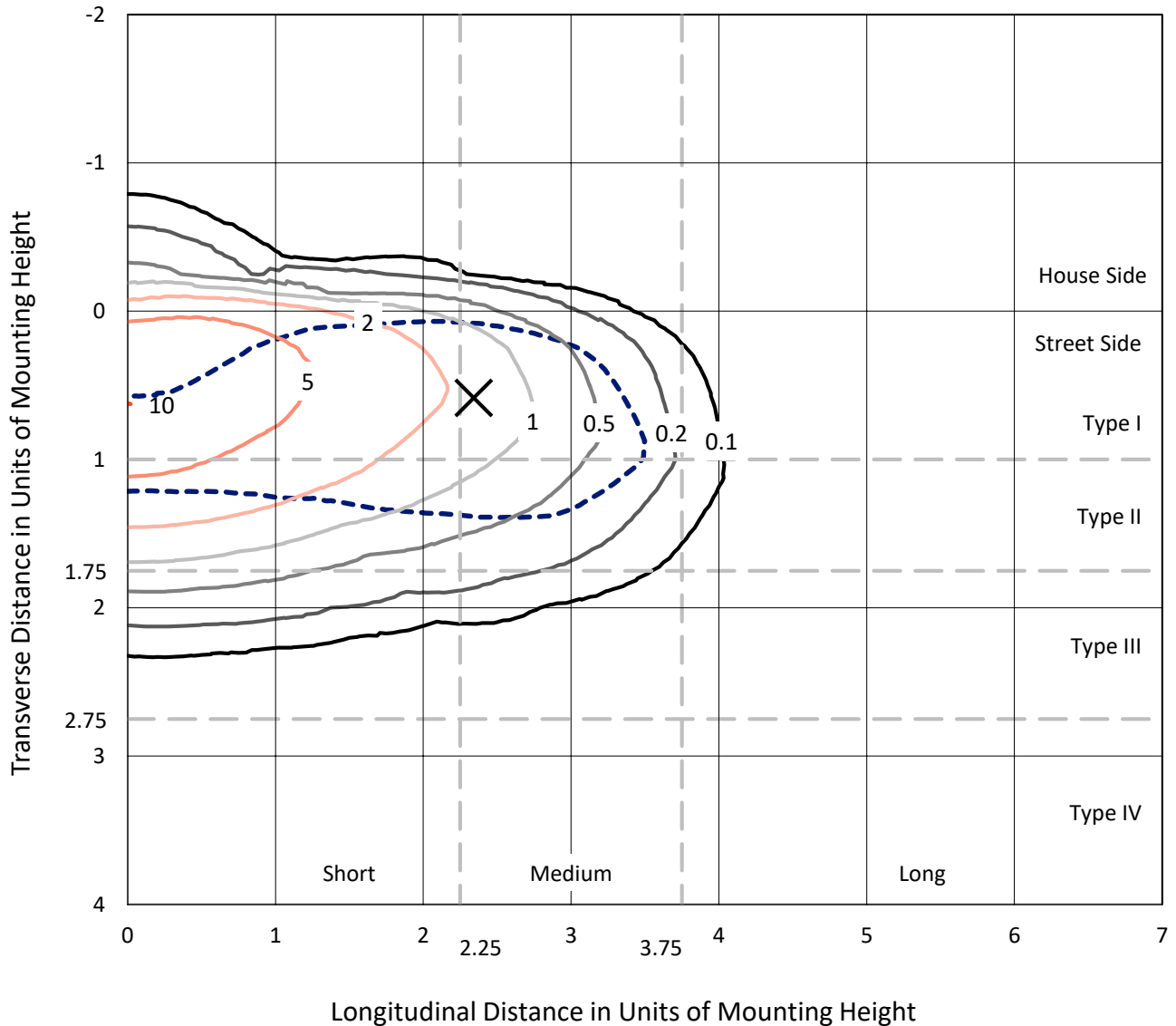
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

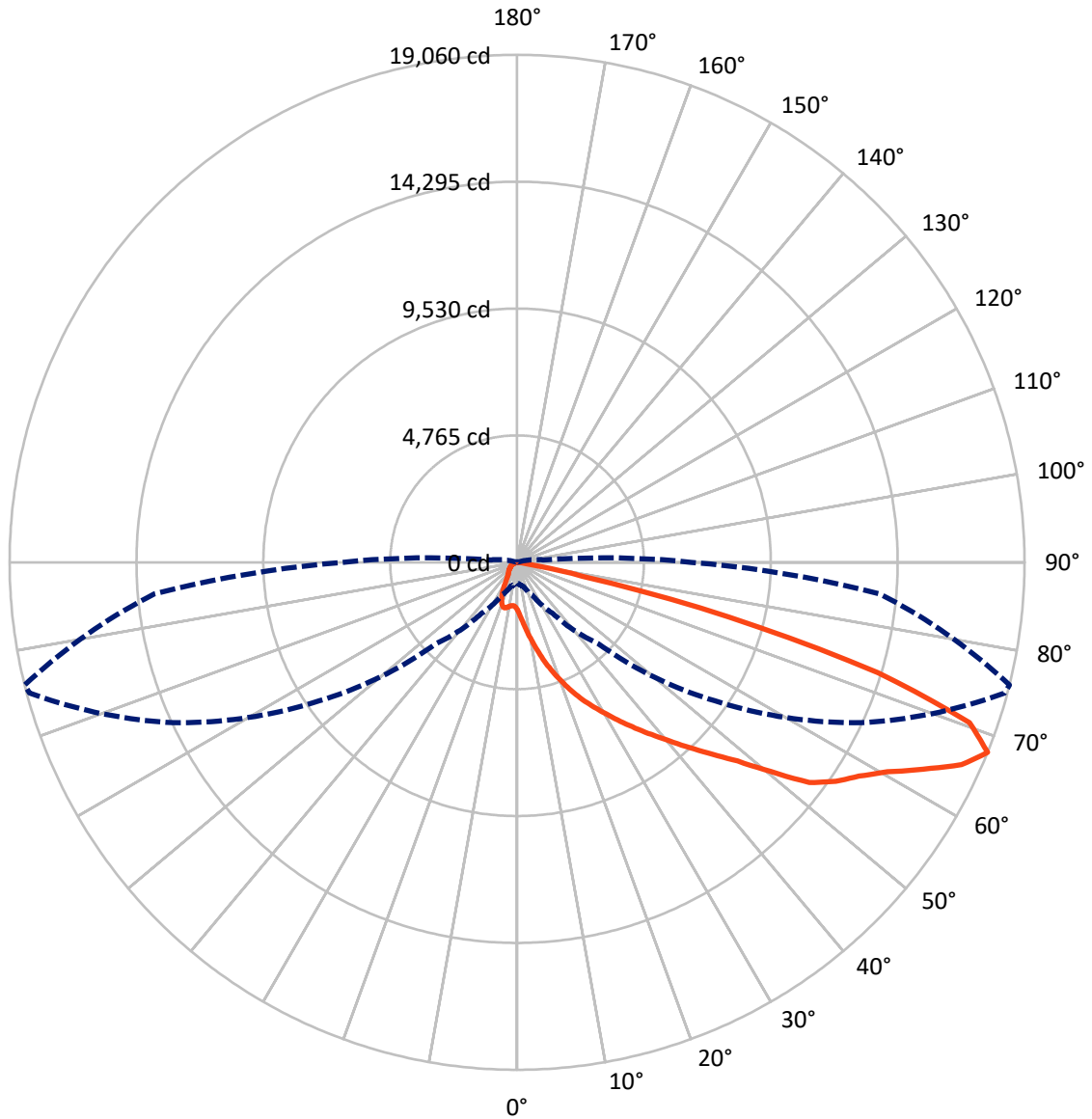
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	1041.7	0.0	1041.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	19935.3	0.0	19935.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	20977.0	0.0	20977.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.3	1.1
10°-20°	877.2	4.2
20°-30°	1784.7	8.5
30°-40°	3097.7	14.8
40°-50°	4376.7	20.9
50°-60°	4963.3	23.7
60°-70°	4116.6	19.6
70°-80°	1491.2	7.1
80°-90°	48.4	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°	20977.0	100.0
0°-180°	20977.0	100.0

**Coefficient of Utilization**

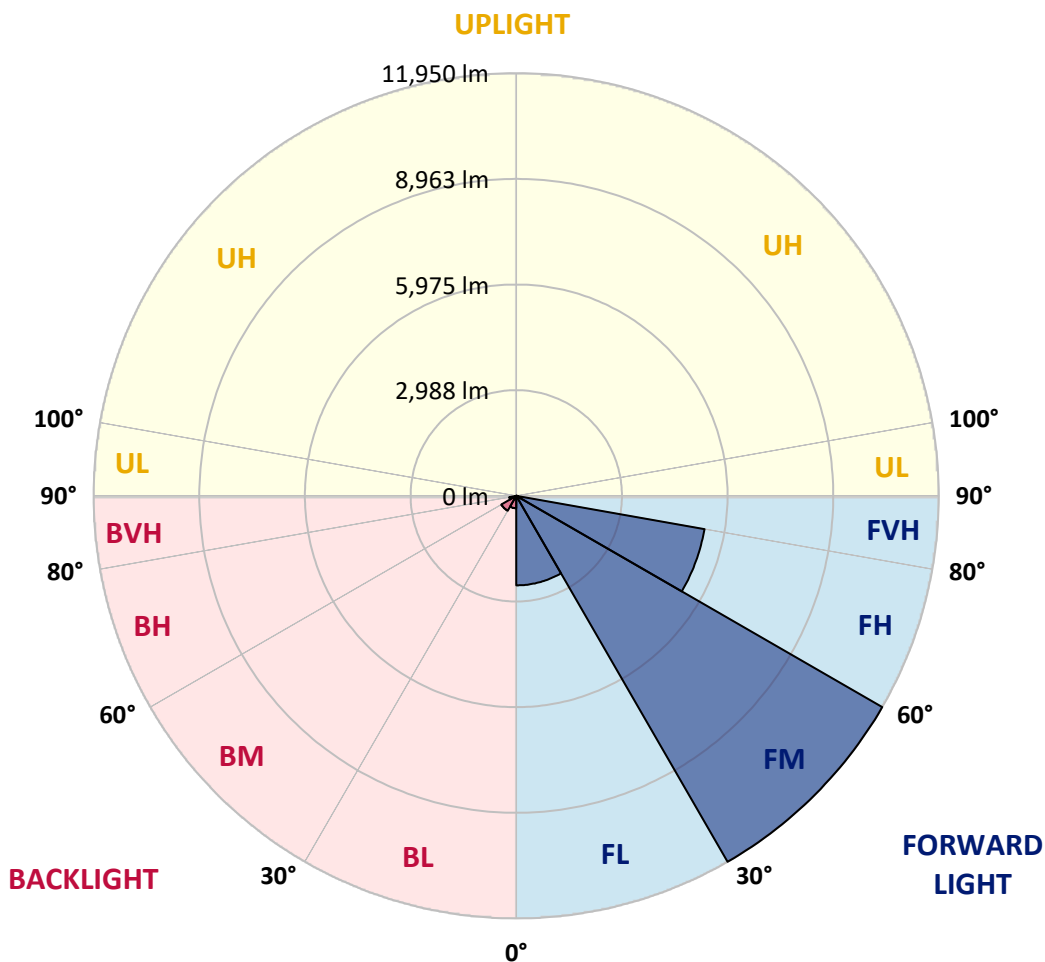


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2531.9	12.1			
FM (30°-60°)	11950.2	57.0			
FH (60°-80°)	5406.5	25.8			G3/7500
FVH (80°-90°)	46.8	0.2			G1/100
BL (0°-30°)	351.3	1.7	B1/500		
BM (30°-60°)	487.5	2.3	B1/1000		
BH (60°-80°)	201.3	1.0	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5
2.5°	2656.3	2596.6	2610.4	2571.8	2501.9	2358.5	2236.3	2120.5	1985.3	1980.7	1869.5
5°	3581.9	3531.3	3524.9	3446.8	3319.9	3076.4	2839.2	2569.0	2267.5	2245.5	2009.2
7.5°	4422.0	4381.5	4366.8	4274.0	4037.8	3800.6	3491.8	3094.7	2623.2	2582.8	2197.7
10°	5067.2	5047.9	5051.6	4985.4	4783.2	4562.6	4157.3	3650.8	3026.7	2964.2	2423.8
12.5°	5556.2	5560.8	5593.9	5553.5	5440.4	5276.8	4843.9	4243.7	3473.4	3388.0	2682.1
15°	5915.6	5938.6	5999.2	6049.8	6041.5	5900.0	5502.9	4845.7	3947.7	3853.0	2969.7
17.5°	6148.1	6173.9	6262.1	6374.2	6477.2	6444.1	6138.9	5426.6	4427.5	4318.1	3277.7
20°	6352.2	6382.5	6477.2	6625.2	6817.3	6858.6	6658.3	5990.0	4906.4	4773.1	3595.7
22.5°	6794.3	6793.4	6851.3	6937.7	7120.6	7227.2	7100.4	6513.0	5379.7	5240.9	3920.1
25°	7593.9	7563.6	7543.4	7475.4	7515.8	7582.0	7511.2	7002.0	5855.8	5715.2	4249.2
27.5°	8544.3	8562.7	8399.1	8216.2	8074.7	8006.6	7890.8	7455.2	6313.6	6159.2	4570.9
30°	9547.1	9552.6	9359.6	9126.2	8814.6	8556.3	8355.9	7888.1	6784.2	6616.0	4883.4
32.5°	10451.6	10415.7	10224.5	9906.5	9513.1	9222.7	8806.3	8371.5	7282.4	7119.7	5230.8
35°	11168.5	11126.2	10893.7	10604.1	10196.0	9903.7	9402.8	8854.1	7806.3	7647.3	5579.2
37.5°	11692.4	11642.8	11403.8	11106.0	10754.0	10583.9	10094.9	9378.9	8378.0	8207.0	5945.9
40°	11874.4	11831.2	11681.4	11463.5	11180.4	11141.8	10829.3	9982.8	9000.2	8818.2	6361.4
42.5°	11765.9	11723.6	11670.3	11596.8	11479.2	11515.9	11522.4	10671.2	9691.4	9512.2	6820.0
45°	11335.8	11298.1	11353.2	11460.8	11606.9	11788.9	12154.7	11411.1	10463.5	10272.3	7350.4
47.5°	10702.5	10674.9	10827.5	11095.9	11523.3	12025.1	12732.9	12188.7	11330.3	11152.9	8012.2
50°	9801.7	9797.1	10102.3	10592.2	11249.4	12139.1	13330.3	13072.9	12534.3	12347.7	8932.2
52.5°	8399.1	8408.3	9008.5	9792.5	10768.7	12061.9	13714.5	14209.0	13935.1	13741.2	9729.1
55°	7063.6	7118.7	7544.3	8674.9	10031.5	11775.1	13846.9	14739.3	14708.1	14524.3	10172.1
57.5°	5755.7	5855.8	6265.8	7321.9	8955.2	11114.3	13774.2	14969.1	15283.5	15142.8	10756.7
60°	4338.3	4384.3	4856.7	5843.9	7573.7	9908.3	13247.6	15094.1	16070.3	15972.8	11605.1
62.5°	2760.2	2875.1	3294.2	4246.4	5897.2	8233.7	12359.7	15092.3	17054.7	17108.0	12699.8
65°	1454.1	1588.3	1810.7	2631.5	4052.5	6363.2	11024.2	14950.7	18262.4	18336.9	13555.5
67.5°	784.0	822.6	940.3	1365.8	2350.2	4310.8	9061.8	14252.2	18961.9	19060.2	13675.0
70°	573.5	594.7	638.8	755.5	1182.9	2503.7	6612.3	12668.5	18060.2	18023.4	12150.1
72.5°	440.3	473.4	506.4	553.3	680.2	1336.4	4116.8	9920.3	14410.3	14167.6	9082.0
75°	347.4	353.0	399.8	442.1	510.1	761.0	1828.2	5777.7	8795.3	8220.8	4709.7
77.5°	277.6	281.3	308.8	345.6	409.9	500.0	566.2	2273.0	2808.0	2505.6	1022.1
80°	164.5	173.7	229.8	266.6	340.1	315.3	206.8	493.6	438.4	397.1	171.9
82.5°	91.9	99.3	129.6	210.5	237.1	150.7	102.9	133.3	102.9	100.2	48.7
85°	0.0	4.6	83.6	130.5	96.5	33.1	43.2	44.1	30.3	28.5	19.3
87.5°	0.0	0.0	25.7	24.8	3.7	5.5	10.1	14.7	11.9	11.9	10.1
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°	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5	1779.5
2.5°	1814.4	1764.8	1671.0	1579.1	1501.9	1438.5	1381.5	1358.5	1340.1	1337.4	1322.6
5°	1895.3	1795.1	1615.9	1468.8	1370.4	1300.6	1240.8	1204.1	1175.6	1164.6	1154.4
7.5°	2017.5	1865.9	1608.5	1439.4	1321.7	1204.1	1093.8	974.3	899.8	871.3	854.8
10°	2166.4	1959.6	1636.1	1431.1	1225.2	977.0	794.1	642.5	580.9	560.7	555.2
12.5°	2340.1	2076.3	1683.9	1379.6	1019.3	694.0	547.8	496.3	482.5	476.1	476.1
15°	2539.6	2204.1	1717.9	1230.7	753.7	524.8	474.3	450.4	435.7	427.4	428.3
17.5°	2743.6	2329.1	1701.3	1014.7	556.1	466.9	429.2	403.5	383.3	375.0	373.2
20°	2949.5	2444.9	1609.4	755.5	470.6	423.7	381.4	353.0	332.7	324.5	322.6
22.5°	3162.8	2543.3	1447.6	554.2	422.8	375.9	334.6	306.1	286.8	279.4	275.7
25°	3370.5	2623.2	1221.5	448.5	377.8	330.9	291.4	264.7	247.2	239.9	239.0
27.5°	3564.4	2673.8	959.6	396.1	338.2	290.4	254.6	230.7	216.0	210.5	209.6
30°	3739.1	2678.4	709.6	357.5	303.3	255.5	222.4	201.3	188.4	182.9	181.1
32.5°	3915.5	2639.8	516.6	322.6	271.1	225.2	193.0	176.5	167.3	162.7	162.7
35°	4081.9	2550.6	402.6	292.3	239.9	195.8	170.0	158.1	152.6	148.0	148.0
37.5°	4244.6	2422.9	341.9	265.6	210.5	171.0	149.8	142.5	137.9	133.3	133.3
40°	4410.0	2262.0	310.7	240.8	186.6	151.7	133.3	126.8	122.2	118.6	117.7
42.5°	4613.2	2076.3	290.4	217.8	165.4	134.2	117.7	110.3	106.6	102.9	101.1
45°	4848.5	1916.4	273.9	194.9	148.0	119.5	102.0	94.7	89.2	84.6	83.6
47.5°	5187.6	1800.6	251.8	170.0	131.4	103.9	88.2	80.0	71.7	67.1	66.2
50°	5620.5	1705.0	223.4	148.0	114.9	88.2	73.5	63.4	56.1	51.5	51.5
52.5°	5835.6	1580.0	197.6	128.7	96.5	74.5	59.7	47.8	44.1	39.5	39.5
55°	5922.0	1484.4	171.9	109.4	80.0	61.6	46.9	36.8	34.0	31.3	30.3
57.5°	6164.7	1456.8	149.8	92.8	66.2	48.7	35.8	27.6	25.7	22.1	22.1
60°	6555.3	1470.6	129.6	79.0	53.3	37.7	26.7	21.1	19.3	15.6	15.6
62.5°	6977.2	1453.2	109.4	68.0	41.4	27.6	18.4	15.6	15.6	9.2	8.3
65°	7058.1	1294.2	93.8	56.1	32.2	20.2	11.9	10.1	13.8	1.8	0.0
67.5°	6550.7	1003.7	80.9	43.2	23.9	15.6	9.2	4.6	11.9	0.0	0.0
70°	5238.2	637.9	65.3	31.3	18.4	12.9	7.4	1.8	9.2	0.0	0.0
72.5°	3704.1	370.4	51.5	22.1	15.6	10.1	5.5	0.0	5.5	0.0	0.0
75°	1873.2	197.6	32.2	16.5	11.9	7.4	3.7	0.0	0.9	0.0	0.0
77.5°	405.3	91.9	20.2	11.9	8.3	4.6	1.8	0.0	0.0	0.0	0.0
80°	88.2	40.4	12.9	7.4	4.6	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	32.2	21.1	6.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	11.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.7	0.9	0.9	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)