

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: P323321

Luminaire Tested: **GLEON-SA7B-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7B-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24612 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

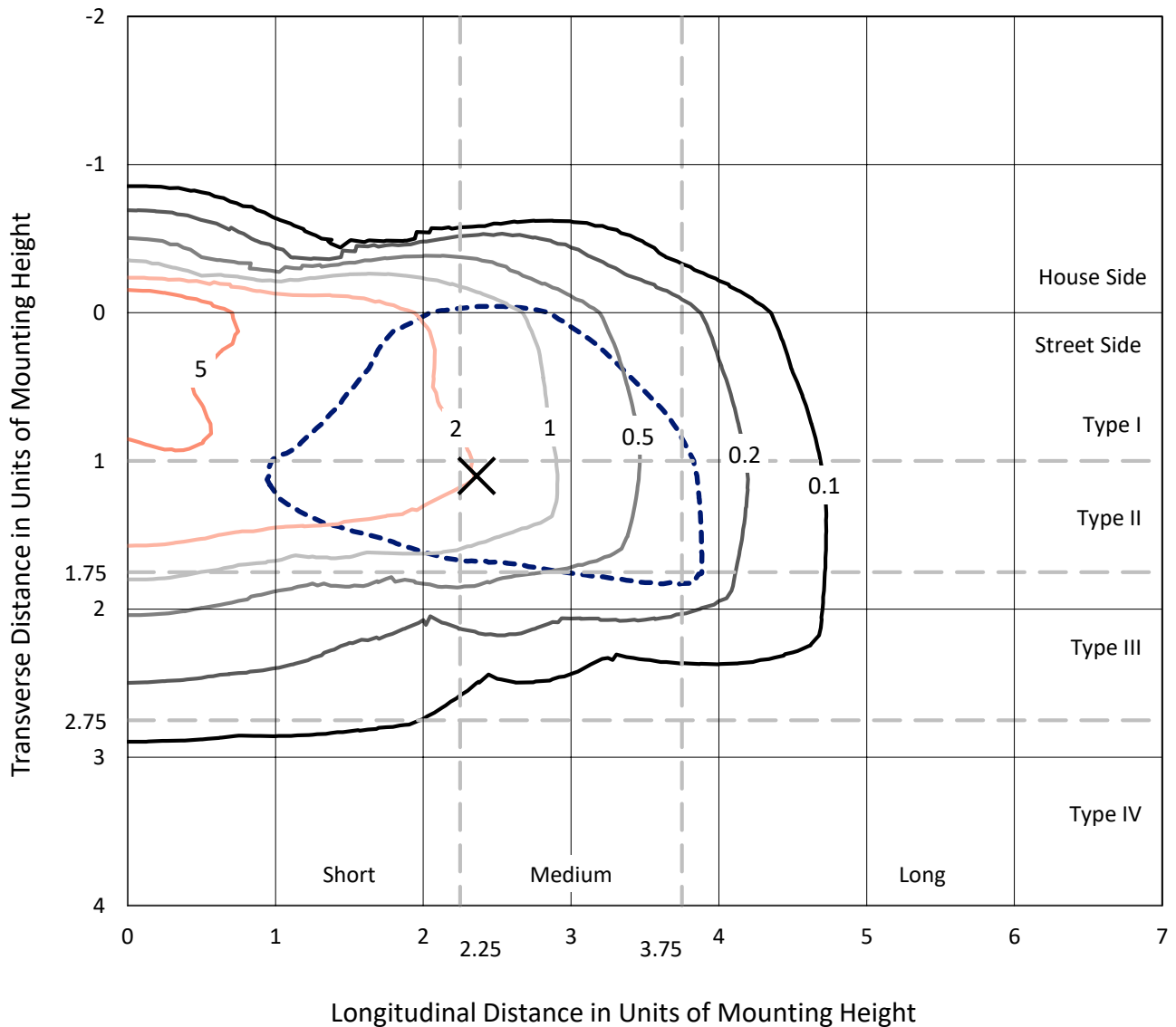
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

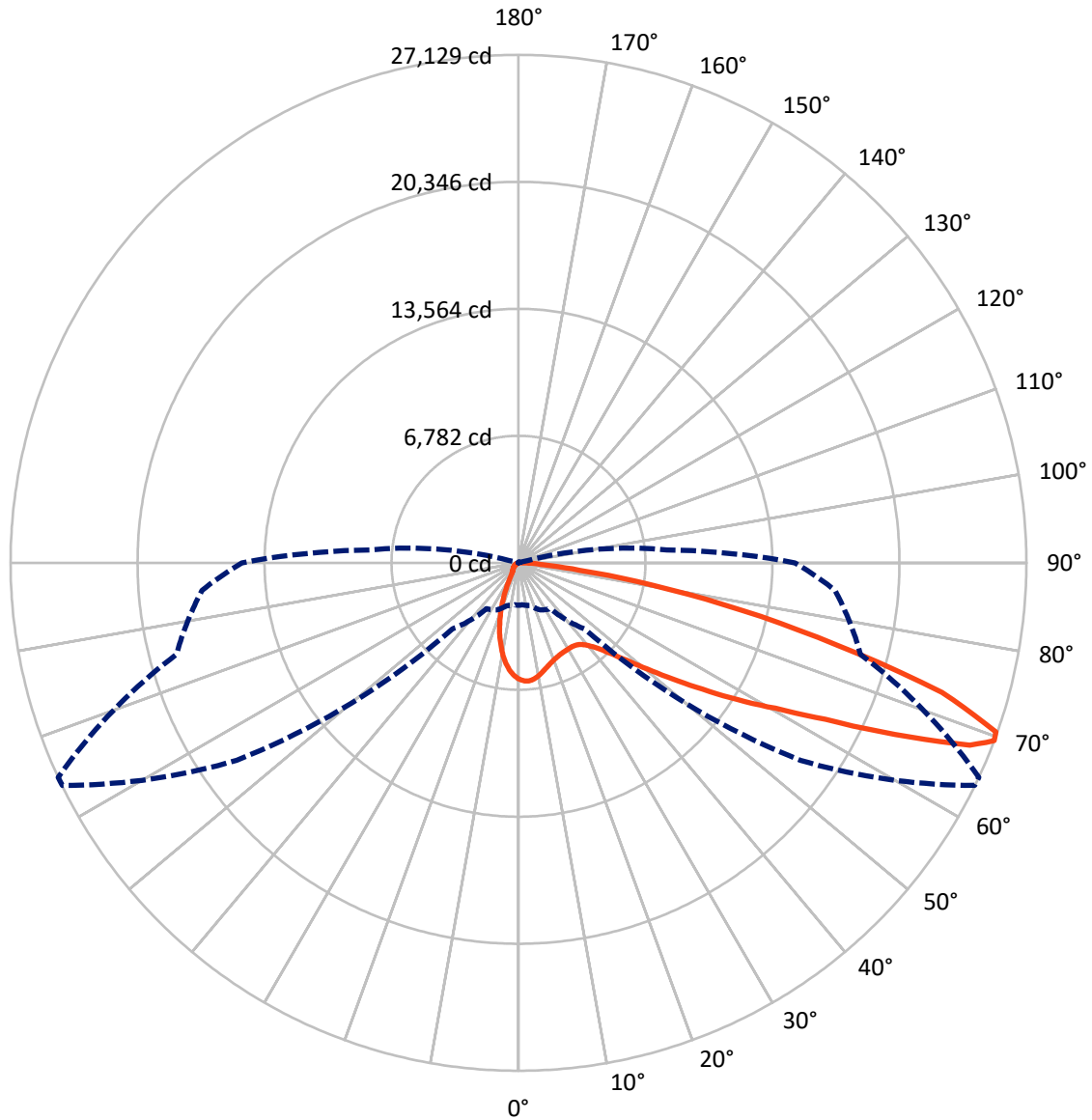
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2901.2	0.0	2901.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	21710.8	0.0	21710.8
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	24612.0	0.0	24612.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.1	2.1
10°-20°	1138.5	4.6
20°-30°	1576.8	6.4
30°-40°	2198.6	8.9
40°-50°	3417.4	13.9
50°-60°	5486.2	22.3
60°-70°	6205.8	25.2
70°-80°	3644.7	14.8
80°-90°	424.0	1.7
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°	24612.0	100.0
0°-180°	24612.0	100.0

**Coefficient of Utilization**

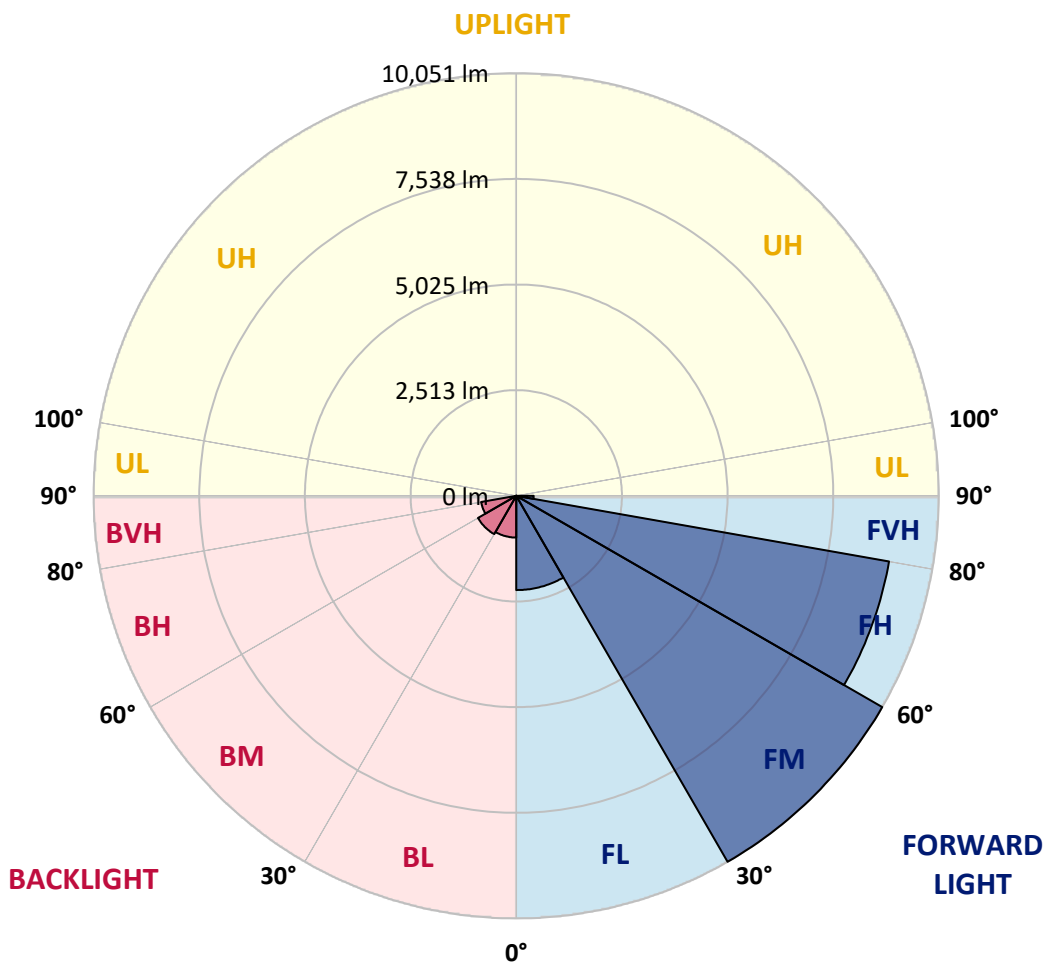


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2242.7	9.1			
FM (30°-60°)	10050.8	40.8			
FH (60°-80°)	9002.8	36.6			G4/12000
FVH (80°-90°)	414.4	1.7			G3/500
BL (0°-30°)	992.7	4.0	B2/1000		
BM (30°-60°)	1051.3	4.3	B2/2500		
BH (60°-80°)	847.7	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5
2.5°	6274.7	6259.1	6271.6	6298.6	6312.2	6312.2	6322.6	6310.1	6314.3	6284.1	6240.3
5°	5882.1	5858.1	5892.5	5968.5	6062.2	6142.4	6261.2	6323.6	6329.9	6330.9	6279.9
7.5°	5459.2	5437.4	5488.4	5578.0	5698.8	5847.7	6054.9	6236.2	6246.6	6344.5	6307.0
10°	5115.6	5099.9	5159.3	5255.1	5396.8	5563.4	5817.5	6069.5	6099.7	6316.3	6302.8
12.5°	4842.7	4830.2	4886.4	4996.8	5141.6	5325.9	5591.5	5884.2	5924.8	6252.8	6282.0
15°	4643.8	4641.7	4688.6	4794.8	4955.2	5127.0	5398.8	5712.3	5759.2	6184.1	6278.9
17.5°	4539.6	4542.8	4577.1	4667.7	4805.2	4976.0	5236.4	5567.6	5618.6	6122.6	6294.5
20°	4529.2	4532.4	4551.1	4602.1	4713.6	4864.6	5104.1	5445.7	5498.8	6076.8	6319.5
22.5°	4620.9	4618.8	4624.0	4618.8	4681.3	4795.8	5016.6	5352.0	5413.4	6046.6	6339.3
25°	4796.9	4793.8	4791.7	4753.1	4711.5	4772.9	4980.2	5298.9	5357.2	6024.7	6350.7
27.5°	5041.6	5039.5	5036.4	4972.9	4847.9	4809.4	4984.3	5279.1	5328.0	6007.0	6348.6
30°	5363.4	5378.0	5373.8	5285.3	5090.6	4920.8	5028.1	5268.7	5311.4	5972.7	6326.8
32.5°	5741.5	5770.6	5793.5	5698.8	5455.1	5141.6	5129.1	5280.1	5311.4	5946.6	6287.2
35°	6134.1	6171.6	6255.9	6222.6	5901.9	5473.8	5303.0	5348.8	5374.9	5961.2	6268.4
37.5°	6520.5	6565.3	6748.5	6845.4	6487.1	5913.3	5573.8	5518.6	5532.1	6049.7	6289.3
40°	6969.3	7037.0	7315.1	7471.3	7186.0	6501.7	5978.9	5810.2	5815.4	6244.5	6386.1
42.5°	7558.8	7628.6	7929.5	8174.3	7973.3	7245.3	6528.8	6255.9	6250.7	6609.0	6614.2
45°	8277.4	8350.3	8661.7	8933.5	8842.9	8126.4	7232.8	6906.8	6900.6	7183.9	7046.4
47.5°	9091.8	9163.7	9441.7	9721.9	9819.8	9155.3	8129.5	7795.2	7780.6	7982.7	7714.0
50°	9790.6	9837.5	10093.7	10470.7	10912.2	10419.6	9244.9	8923.1	8907.5	9043.9	8694.0
52.5°	10044.7	10071.8	10332.2	10860.2	11962.0	12131.8	10710.2	10295.7	10284.2	10343.6	9998.9
55°	9530.2	9579.2	9898.9	10682.1	12530.6	14066.8	12559.8	11995.3	11908.9	11780.8	11363.2
57.5°	8128.5	8206.6	8550.2	9591.7	12265.1	15601.9	15278.0	13917.8	13790.8	13007.6	12472.3
60°	6090.4	6186.2	6471.5	7595.2	10847.7	16148.6	18248.2	16060.1	15773.7	13984.5	13491.9
62.5°	4179.3	4227.2	4420.9	5153.1	7988.9	15253.0	20733.0	18929.3	18406.5	15046.8	14594.8
65°	3192.0	3208.7	3287.8	3539.9	4757.3	12390.0	21721.4	22714.9	22082.8	16317.3	15739.3
67.5°	2572.4	2558.8	2668.2	3028.5	3185.8	7558.8	20568.5	26296.4	26000.7	18015.9	16891.2
69°	2268.3	2249.5	2361.0	2779.6	2992.1	4996.8	18387.7	27109.8	27128.5	18912.6	16970.3
70°	2041.2	2053.7	2164.1	2631.7	2926.5	3922.1	16304.8	26902.5	27050.4	19247.9	16495.4
72.5°	1363.2	1396.6	1618.4	2184.9	2814.0	2968.1	9844.8	23085.7	23654.3	18492.9	14152.2
75°	768.6	793.6	1057.1	1647.6	2651.5	2826.5	5199.9	17007.8	17557.7	15464.4	10913.3
77.5°	377.0	390.5	597.8	1063.3	2217.2	2693.2	2949.4	11552.7	12180.7	10093.7	6172.6
80°	159.3	166.6	298.9	656.1	1585.1	2570.3	2190.2	7109.9	7188.0	3954.4	1644.4
82.5°	61.4	63.5	126.0	409.3	1007.1	2003.7	1831.9	3371.1	3289.9	744.6	374.9
85°	7.3	8.3	45.8	245.8	560.3	1031.0	1488.2	1452.8	1344.5	147.9	192.7
87.5°	0.0	0.0	3.1	75.0	166.6	483.2	773.8	603.0	543.6	47.9	100.0
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°	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5	6219.5
2.5°	6203.9	6193.5	6137.2	6056.0	5978.9	5883.1	5791.5	5736.3	5692.5	5663.4	5697.7
5°	6220.5	6174.7	6003.9	5785.2	5570.7	5329.1	5104.1	4913.5	4838.5	4755.2	4792.7
7.5°	6215.3	6128.9	5821.7	5432.2	5038.5	4631.3	4246.0	3949.2	3795.0	3644.0	3682.5
10°	6189.3	6043.5	5578.0	5001.0	4411.6	3826.3	3279.5	2864.0	2631.7	2421.4	2451.6
12.5°	6132.0	5928.9	5290.5	4507.4	3719.0	2947.3	2306.8	1774.6	1489.3	1363.2	1378.9
15°	6097.6	5817.5	4986.4	4007.5	2979.6	2052.7	1410.1	1048.7	918.6	876.9	882.1
17.5°	6081.0	5710.2	4671.9	3435.7	2223.5	1307.0	911.3	804.0	775.9	768.6	770.7
20°	6064.3	5601.9	4348.0	2870.2	1532.0	879.0	748.8	717.6	707.1	697.8	699.8
22.5°	6036.2	5497.8	4000.2	2297.4	1033.1	713.4	674.9	644.7	622.8	611.3	613.4
25°	6001.8	5388.4	3645.0	1711.1	754.0	636.3	599.9	557.2	531.1	510.3	511.3
27.5°	5946.6	5254.1	3278.5	1245.6	633.2	569.7	520.7	473.9	430.1	406.2	406.2
30°	5869.6	5102.0	2871.3	891.5	567.6	504.1	444.7	386.4	339.5	317.6	315.6
32.5°	5784.2	4943.7	2459.9	675.9	515.5	442.6	374.9	313.5	271.8	254.1	253.1
35°	5711.3	4772.9	2049.6	566.5	463.4	383.3	309.3	257.2	223.9	209.3	208.3
37.5°	5664.4	4602.1	1649.6	506.1	416.6	328.1	259.3	212.5	188.5	177.0	176.0
40°	5657.1	4475.1	1284.1	460.3	372.8	279.1	216.6	180.2	158.3	145.8	144.8
42.5°	5751.9	4402.2	985.2	421.8	328.1	236.4	184.3	154.1	131.2	118.7	117.7
45°	6000.8	4425.1	758.2	387.4	283.3	200.0	156.2	128.1	107.3	97.9	95.8
47.5°	6454.9	4583.4	603.0	353.0	240.6	169.8	133.3	106.2	88.5	79.1	78.1
50°	7263.0	4955.2	504.1	315.6	201.0	144.8	110.4	86.4	71.9	63.5	62.5
52.5°	8335.7	5617.5	449.9	279.1	166.6	122.9	90.6	68.7	56.2	50.0	48.9
55°	9518.8	6419.5	414.5	239.5	136.4	102.1	71.9	54.2	43.7	38.5	36.5
57.5°	10673.7	7114.1	381.2	201.0	113.5	83.3	57.3	42.7	34.4	29.2	28.1
60°	11735.0	7752.5	342.6	161.4	92.7	65.6	44.8	33.3	27.1	21.9	21.9
62.5°	12871.2	8246.1	289.5	126.0	76.0	50.0	36.5	30.2	21.9	18.7	17.7
65°	14075.1	8612.7	227.0	97.9	59.4	37.5	30.2	31.2	17.7	13.5	12.5
67.5°	14964.5	8539.8	167.7	77.1	45.8	29.2	29.2	33.3	15.6	10.4	9.4
69°	14768.7	7947.2	140.6	66.7	39.6	25.0	27.1	33.3	14.6	9.4	8.3
70°	14201.1	7291.1	123.9	59.4	35.4	22.9	26.0	32.3	13.5	9.4	8.3
72.5°	11826.6	5491.5	96.9	44.8	28.1	18.7	21.9	28.1	13.5	9.4	7.3
75°	8896.0	3514.9	73.9	32.3	20.8	14.6	16.7	20.8	13.5	8.3	7.3
77.5°	4840.6	1267.4	53.1	21.9	14.6	11.5	11.5	15.6	12.5	6.2	4.2
80°	1244.5	318.7	33.3	14.6	11.5	8.3	7.3	10.4	7.3	1.0	0.0
82.5°	307.2	71.9	17.7	10.4	8.3	3.1	3.1	5.2	3.1	0.0	0.0
85°	168.7	35.4	11.5	7.3	4.2	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	86.4	10.4	3.1	2.1	1.0	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)