

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: P323954

Luminaire Tested: **GLEON-SA0A-827-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-827-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27520 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

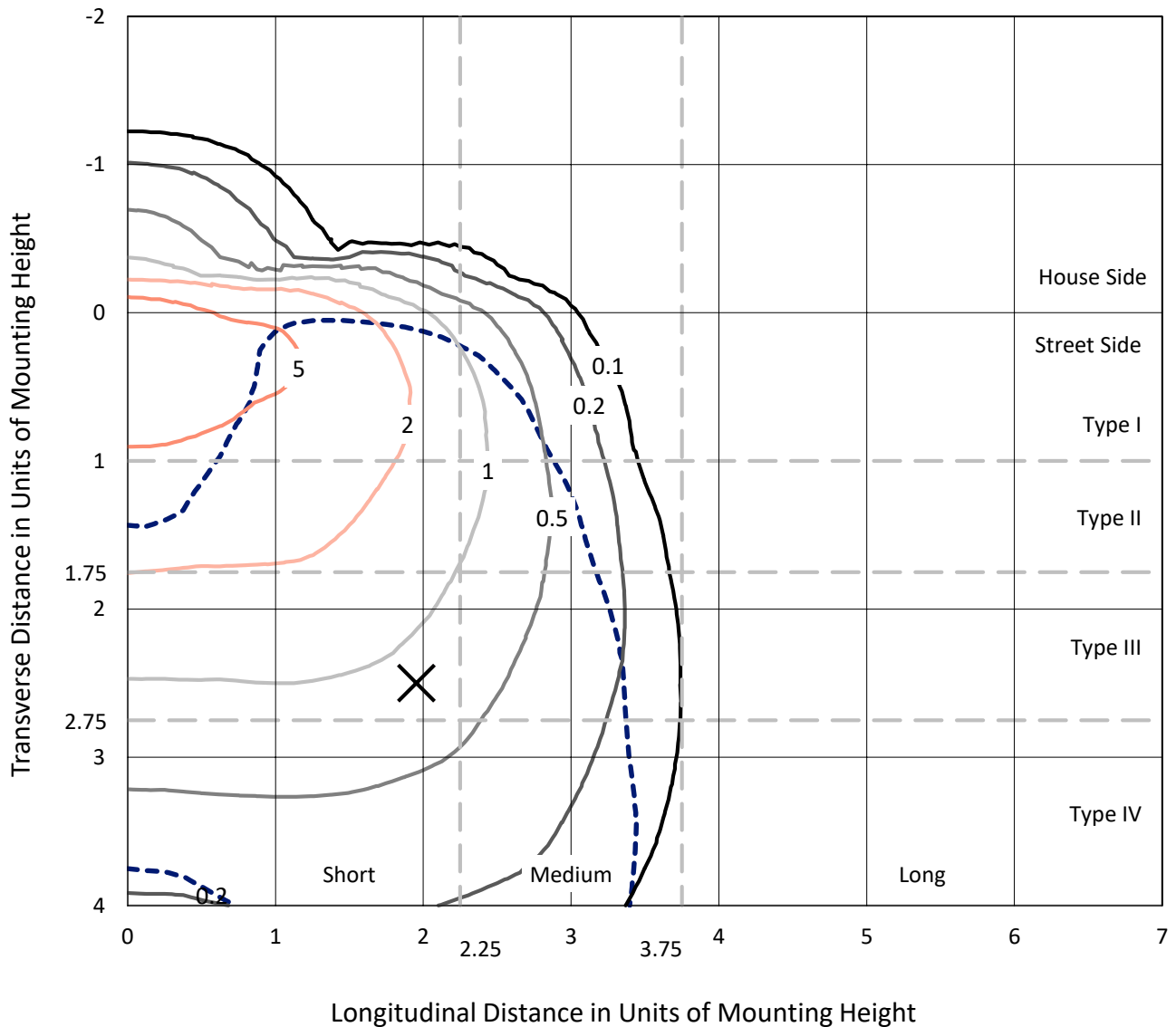
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

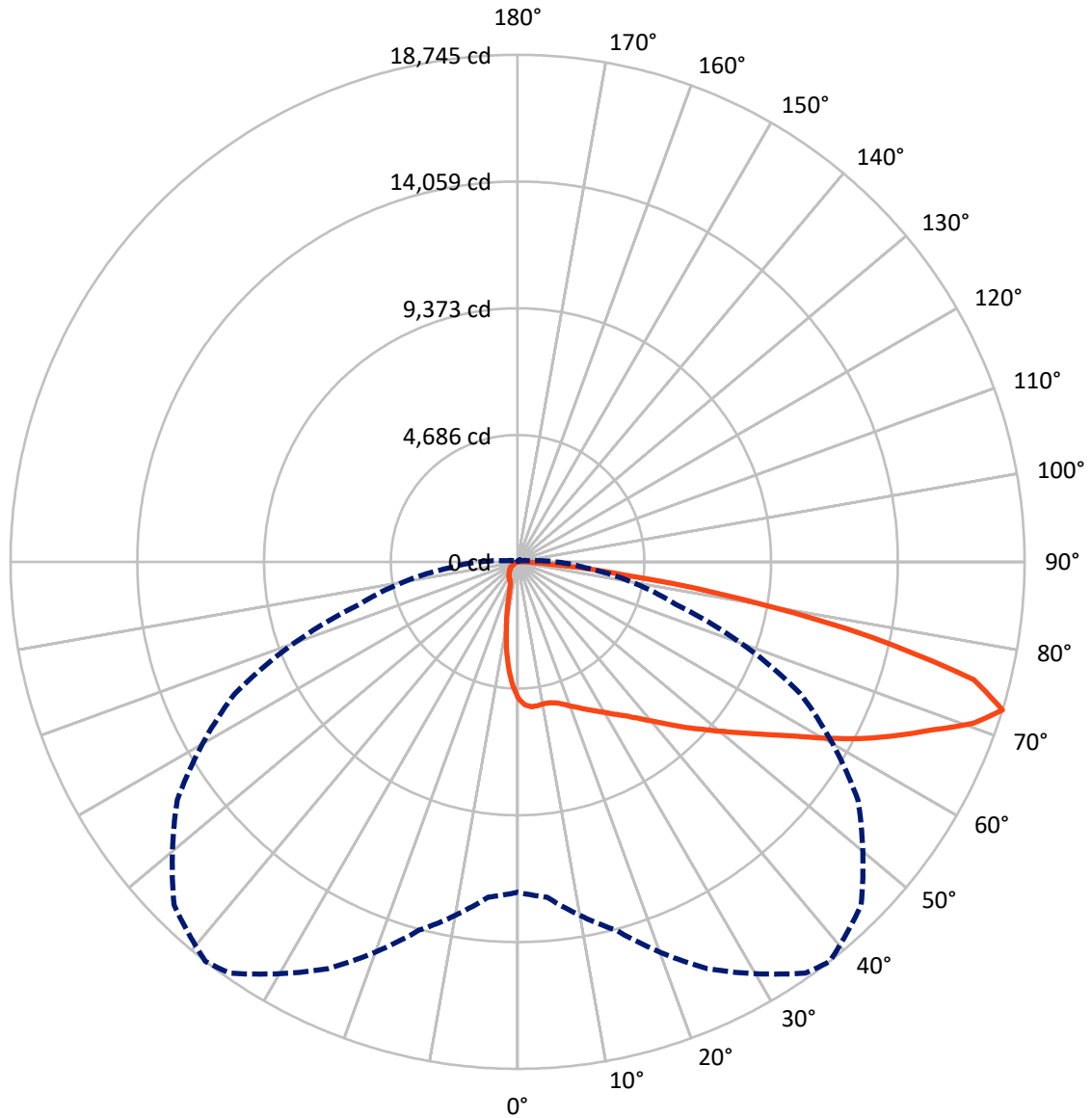
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2315.9	0.0	2315.9
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	25204.1	0.0	25204.1
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	27520.0	0.0	27520.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.3	1.6
10°-20°	1054.6	3.8
20°-30°	1677.3	6.1
30°-40°	2521.6	9.2
40°-50°	3846.9	14.0
50°-60°	5437.0	19.8
60°-70°	6819.8	24.8
70°-80°	5099.3	18.5
80°-90°	632.3	2.3
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°	27520.0	100.0
0°-180°	27520.0	100.0

**Coefficient of Utilization**



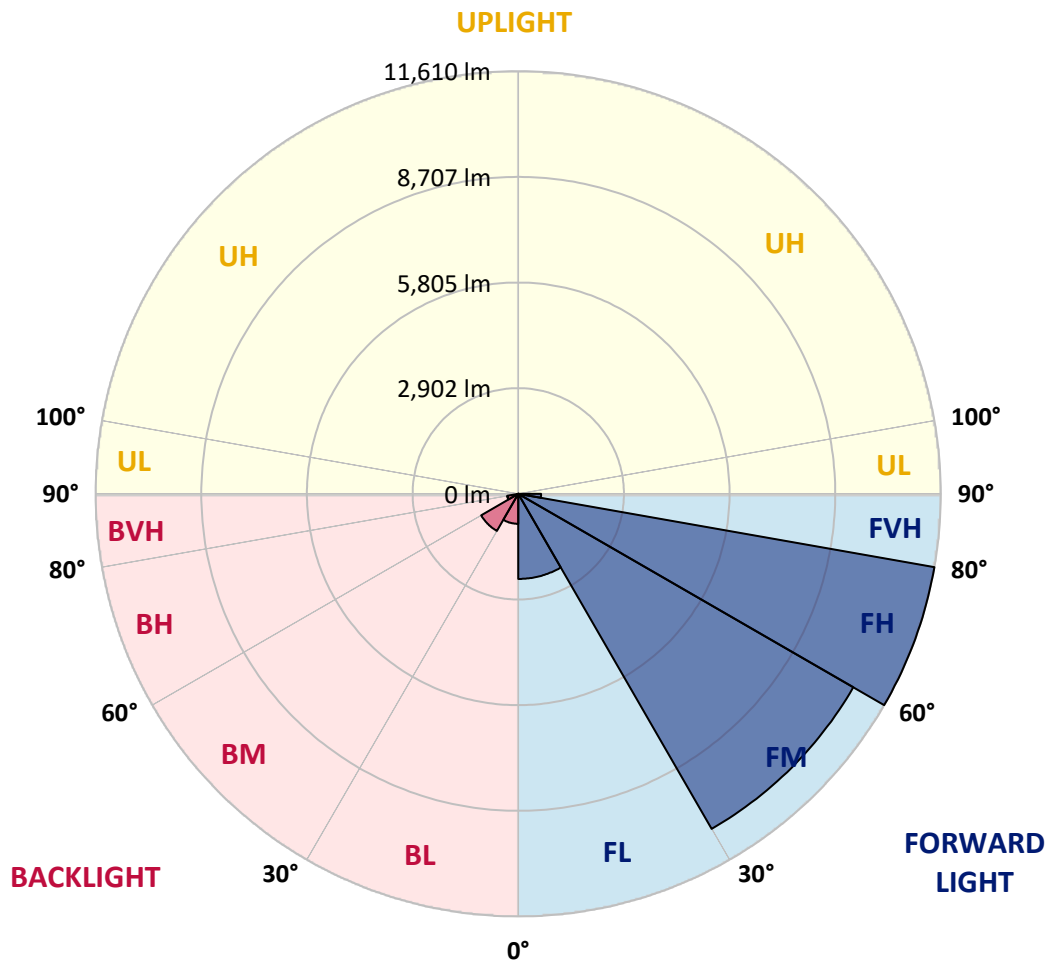
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.5	8.5			
FM (30°-60°)	10629.4	38.6			
FH (60°-80°)	11609.7	42.2			G4/12000
FVH (80°-90°)	626.4	2.3			G4/750
BL (0°-30°)	824.6	3.0	B2/1000		
BM (30°-60°)	1176.0	4.3	B2/2500		
BH (60°-80°)	309.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8
2.5°	5371.7	5372.9	5360.3	5339.7	5313.4	5299.7	5276.8	5240.3	5201.4	5131.7	5056.3
5°	5481.4	5481.4	5465.4	5438.0	5395.7	5383.1	5339.7	5281.4	5201.4	5088.3	4961.4
7.5°	5470.0	5472.3	5450.6	5422.0	5379.7	5368.3	5315.7	5250.6	5151.1	5014.0	4851.7
10°	5410.6	5416.3	5399.1	5385.4	5346.6	5334.0	5284.8	5219.7	5120.3	4974.0	4787.7
12.5°	5350.0	5355.7	5361.4	5374.0	5350.0	5345.4	5306.6	5251.7	5156.8	5004.8	4794.5
15°	5311.1	5322.6	5363.7	5412.9	5418.6	5414.0	5388.9	5337.4	5241.4	5083.7	4843.7
17.5°	5311.1	5329.4	5415.1	5508.9	5542.0	5545.4	5523.7	5451.7	5337.4	5168.3	4889.4
20°	5355.7	5380.9	5514.6	5647.2	5702.0	5702.0	5659.7	5559.1	5425.4	5244.8	4920.3
22.5°	5470.0	5503.1	5671.2	5824.3	5882.6	5870.0	5812.9	5666.6	5516.9	5331.7	4959.1
25°	5695.2	5720.3	5895.2	6049.5	6084.9	6056.3	5984.3	5796.9	5633.4	5449.4	5030.0
27.5°	5985.5	5988.9	6169.5	6299.8	6278.0	6258.6	6168.3	5960.3	5801.4	5617.4	5152.3
30°	6304.3	6304.3	6463.2	6562.6	6496.3	6480.3	6390.0	6158.0	6016.3	5846.0	5326.0
32.5°	6612.9	6626.6	6755.8	6818.6	6744.4	6728.4	6640.3	6408.3	6302.0	6194.6	5596.9
35°	6911.2	6921.5	7043.8	7078.1	7007.2	7011.8	6948.9	6752.4	6712.4	6698.6	6004.9
37.5°	7200.4	7202.7	7327.2	7349.0	7313.5	7352.4	7358.1	7184.4	7258.7	7369.5	6579.8
40°	7464.4	7466.7	7590.1	7646.1	7706.7	7757.0	7801.6	7709.0	7954.7	8211.9	7264.4
42.5°	7675.8	7699.8	7856.4	7962.7	8122.7	8218.7	8339.9	8335.3	8783.3	9169.6	8091.9
45°	7862.1	7903.3	8121.6	8307.9	8582.2	8735.3	8925.0	9073.6	9715.9	10236.0	8929.6
47.5°	8107.9	8146.7	8395.9	8701.0	9066.8	9267.9	9582.2	9903.4	10741.1	11282.9	9747.9
50°	8454.2	8437.0	8682.7	9120.5	9590.2	9854.2	10302.3	10783.4	11758.3	12194.9	10229.1
52.5°	8823.3	8816.5	8998.2	9576.5	10207.4	10516.0	11108.0	11693.2	12731.0	12823.5	10449.7
55°	9280.5	9231.3	9384.5	10096.5	10940.0	11271.4	11968.6	12593.8	13505.9	13177.8	10560.6
57.5°	9759.4	9678.2	9824.5	10676.0	11766.3	12158.4	12921.8	13471.6	14021.3	13420.1	10559.4
60°	10254.3	10158.2	10332.0	11400.6	12792.7	13246.4	13955.0	14064.7	14502.5	13542.4	10481.7
62.5°	10668.0	10610.8	10869.1	12175.5	13939.0	14384.8	14735.6	14604.2	14908.2	13637.3	10300.0
65°	11105.7	11109.2	11526.3	13079.5	15157.4	15458.0	15487.7	15303.7	15247.7	13617.9	9685.1
67.5°	11697.8	11752.6	12448.7	14307.0	16342.6	16574.6	16572.3	16061.4	15495.7	12845.2	8321.6
70°	12324.1	12453.2	13511.6	15711.7	17636.4	17871.8	17750.6	16543.7	14590.5	10386.8	5889.5
72.5°	12218.9	12442.9	14102.5	16597.4	18565.5	18745.0	17957.5	15358.5	11532.0	6036.9	2507.6
75°	9426.8	9686.2	12931.0	15719.7	17590.6	17429.5	15429.4	11951.5	6302.0	1684.7	564.6
77.5°	4979.7	5118.0	8542.2	11975.5	13716.1	13379.0	10869.1	6630.1	1921.2	417.2	253.7
80°	2608.1	2640.1	3722.5	6794.6	8465.6	8467.9	6441.5	2912.2	792.0	213.7	170.3
82.5°	1396.6	1424.1	1967.0	3139.6	4435.7	4020.8	2466.4	1602.4	460.6	121.1	163.4
85°	336.0	341.7	1115.5	1434.4	1744.1	1245.8	732.6	1345.2	124.6	70.9	132.6
87.5°	129.1	131.4	413.7	620.6	444.6	288.0	342.9	501.7	16.0	27.4	20.6
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°	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8	5060.8
2.5°	5010.5	4980.8	4907.7	4815.1	4732.8	4673.4	4584.2	4526.0	4487.1	4485.9	4471.1
5°	4883.7	4823.1	4665.4	4477.9	4307.7	4154.5	3973.9	3831.1	3724.8	3707.6	3671.0
7.5°	4747.7	4648.2	4405.9	4113.4	3827.6	3537.3	3200.2	2991.0	2811.6	2725.9	2716.7
10°	4664.2	4524.8	4180.8	3757.9	3309.9	2837.9	2396.7	2091.5	1871.0	1808.1	1761.2
12.5°	4647.1	4463.1	4007.1	3424.2	2784.1	2160.1	1672.1	1347.5	1171.5	1115.5	1100.6
15°	4664.2	4434.5	3860.8	3093.9	2251.5	1532.7	1122.3	933.8	867.5	851.5	850.3
17.5°	4674.5	4400.2	3695.1	2727.0	1734.9	1094.9	859.5	804.6	794.3	793.2	795.5
20°	4673.4	4347.7	3497.3	2317.8	1290.4	860.6	777.2	765.8	763.5	764.6	763.5
22.5°	4665.4	4285.9	3280.2	1896.1	974.9	769.2	741.8	734.9	733.8	733.8	733.8
25°	4680.2	4236.8	3041.3	1492.6	803.5	726.9	709.8	704.0	702.9	702.9	700.6
27.5°	4734.0	4209.4	2779.6	1148.6	725.8	689.2	675.5	674.3	670.9	669.7	672.0
30°	4820.8	4209.4	2492.7	893.8	678.9	650.3	640.0	637.7	636.6	635.5	636.6
32.5°	4974.0	4241.4	2179.5	742.9	634.3	606.9	600.0	603.5	600.0	600.0	600.0
35°	5250.6	4337.4	1851.5	648.0	587.5	564.6	557.7	562.3	560.0	560.0	558.9
37.5°	5654.0	4515.7	1521.2	590.9	546.3	522.3	513.2	520.0	517.7	517.7	516.6
40°	6145.5	4775.1	1206.9	547.5	506.3	481.2	473.2	476.6	470.9	470.9	473.2
42.5°	6752.4	5104.3	932.6	505.2	466.3	442.3	437.7	434.3	424.0	418.3	419.5
45°	7426.7	5447.1	726.9	464.0	428.6	409.2	402.3	393.2	376.0	364.6	365.7
47.5°	8029.0	5711.2	590.9	424.0	394.3	379.4	369.2	352.0	326.9	313.2	314.3
50°	8345.6	5751.2	502.9	384.0	362.3	347.4	332.6	306.3	276.6	261.7	260.6
52.5°	8426.7	5563.7	437.7	347.4	330.3	313.2	293.7	258.3	225.2	209.2	206.9
55°	8456.4	5278.0	379.4	313.2	296.0	276.6	251.4	211.4	180.6	164.6	163.4
57.5°	8358.2	4851.7	333.7	282.3	261.7	237.7	206.9	169.2	139.4	126.9	126.9
60°	8139.9	4274.5	298.3	249.2	226.3	198.9	166.9	131.4	104.0	93.7	93.7
62.5°	7704.4	3527.0	265.2	214.9	193.2	164.6	134.9	99.4	73.1	67.4	68.6
65°	6882.6	2675.6	232.0	184.0	164.6	136.0	105.1	70.9	49.1	49.1	51.4
67.5°	5612.9	1858.4	197.7	156.6	141.7	110.9	80.0	49.1	34.3	38.9	43.4
70°	3715.6	1042.3	169.2	129.1	121.1	88.0	59.4	33.1	27.4	36.6	44.6
72.5°	1402.4	405.7	141.7	104.0	105.1	67.4	42.3	25.1	25.1	40.0	52.6
75°	390.9	198.9	101.7	76.6	82.3	49.1	30.9	21.7	24.0	45.7	61.7
77.5°	229.7	146.3	66.3	44.6	56.0	34.3	20.6	17.1	20.6	38.9	59.4
80°	185.2	77.7	38.9	22.9	30.9	19.4	13.7	10.3	5.7	14.9	30.9
82.5°	185.2	46.9	18.3	16.0	16.0	10.3	6.9	4.6	1.1	0.0	8.0
85°	124.6	19.4	11.4	10.3	8.0	3.4	2.3	1.1	0.0	0.0	0.0
87.5°	20.6	8.0	4.6	2.3	1.1	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)