

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: P323330

Luminaire Tested: **GLEON-SA6C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323330
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-SA6C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 25759 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

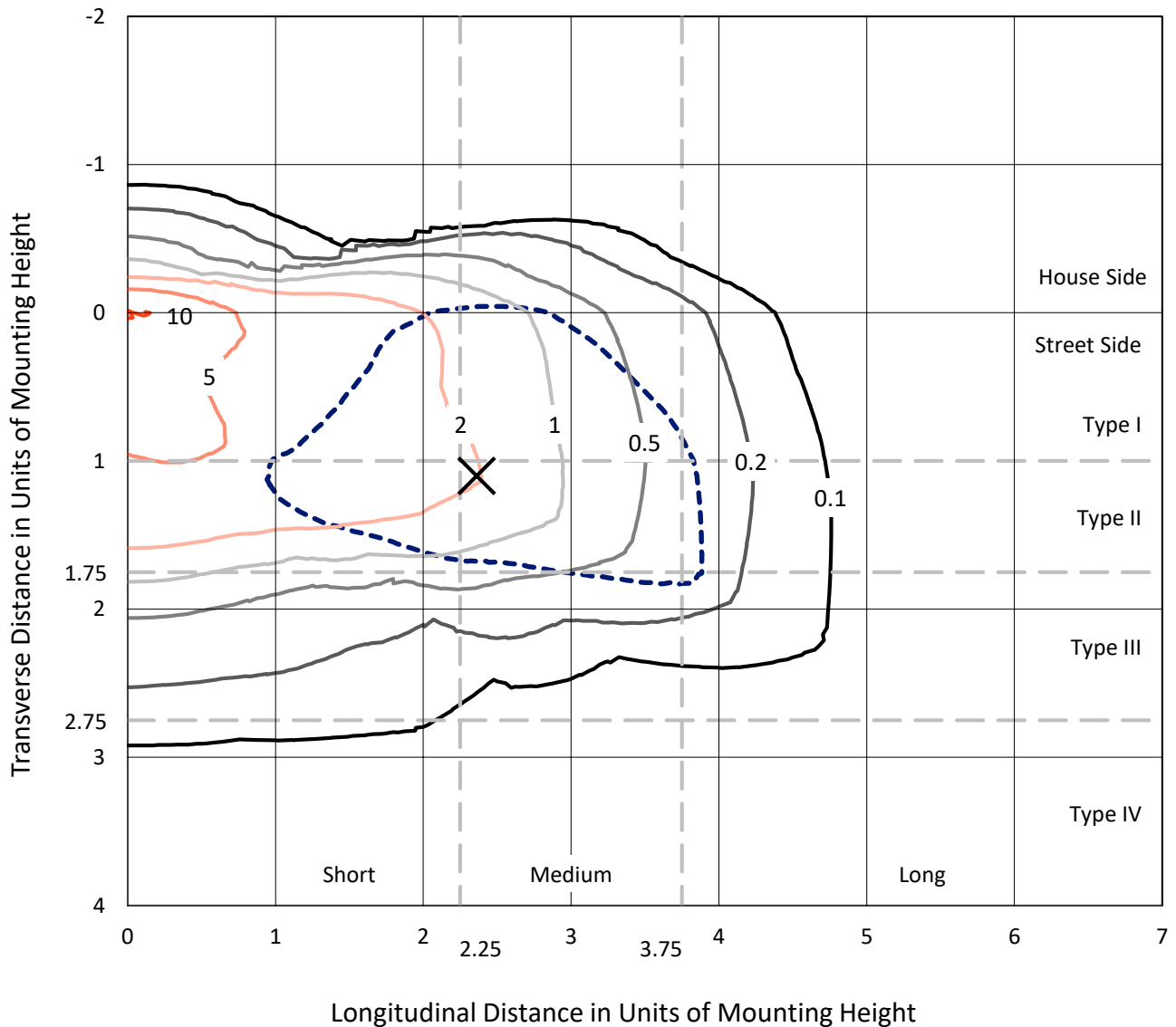
Input Watts (W): 333
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

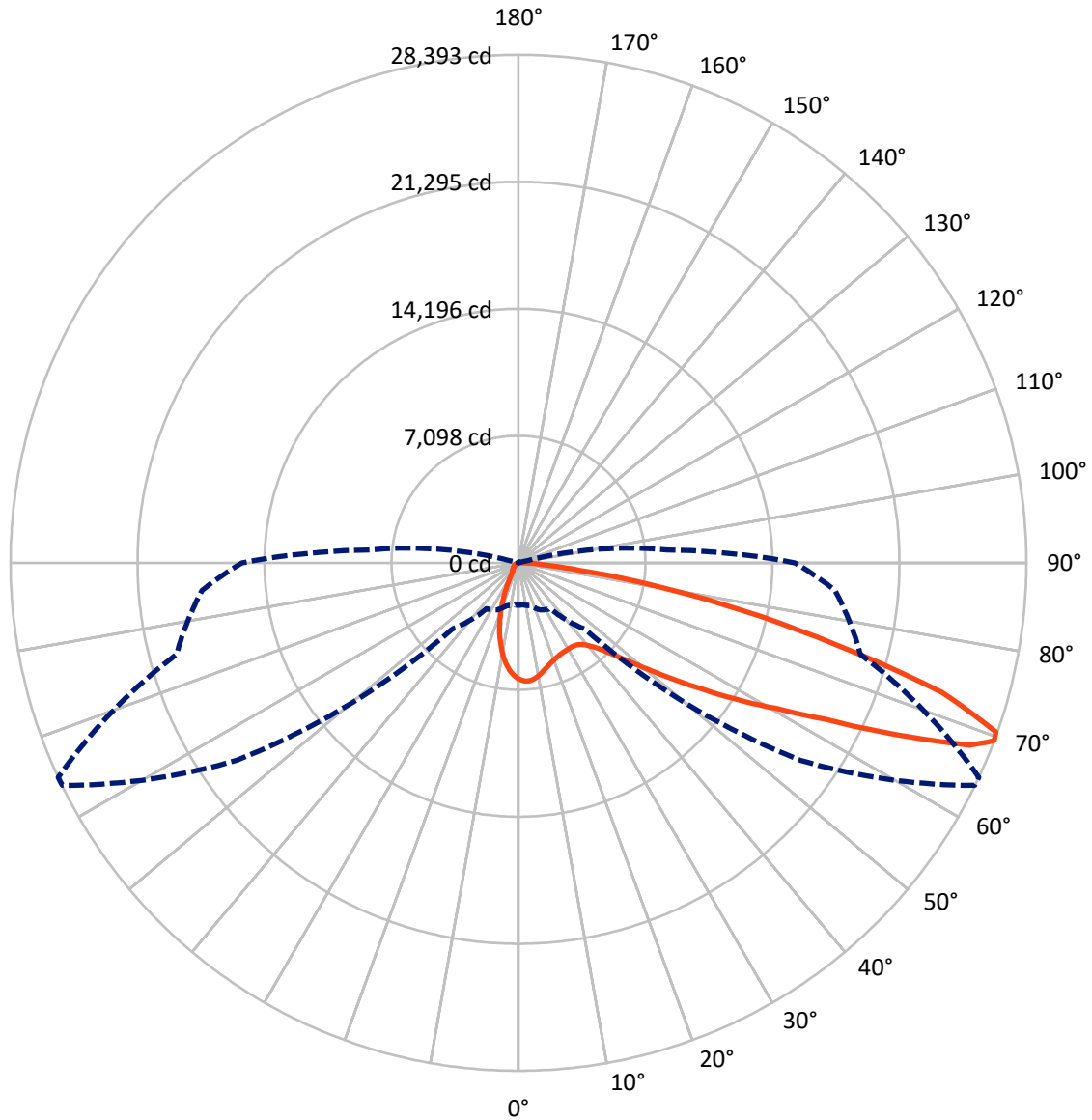
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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
House Side	Lumens	3036.4	0.0	3036.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	22722.6	0.0	22722.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	25759.0	0.0	25759.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	544.3	2.1
10°-20°	1191.5	4.6
20°-30°	1650.3	6.4
30°-40°	2301.1	8.9
40°-50°	3576.6	13.9
50°-60°	5741.9	22.3
60°-70°	6495.0	25.2
70°-80°	3814.6	14.8
80°-90°	443.7	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°	25759.0	100.0
0°-180°	25759.0	100.0

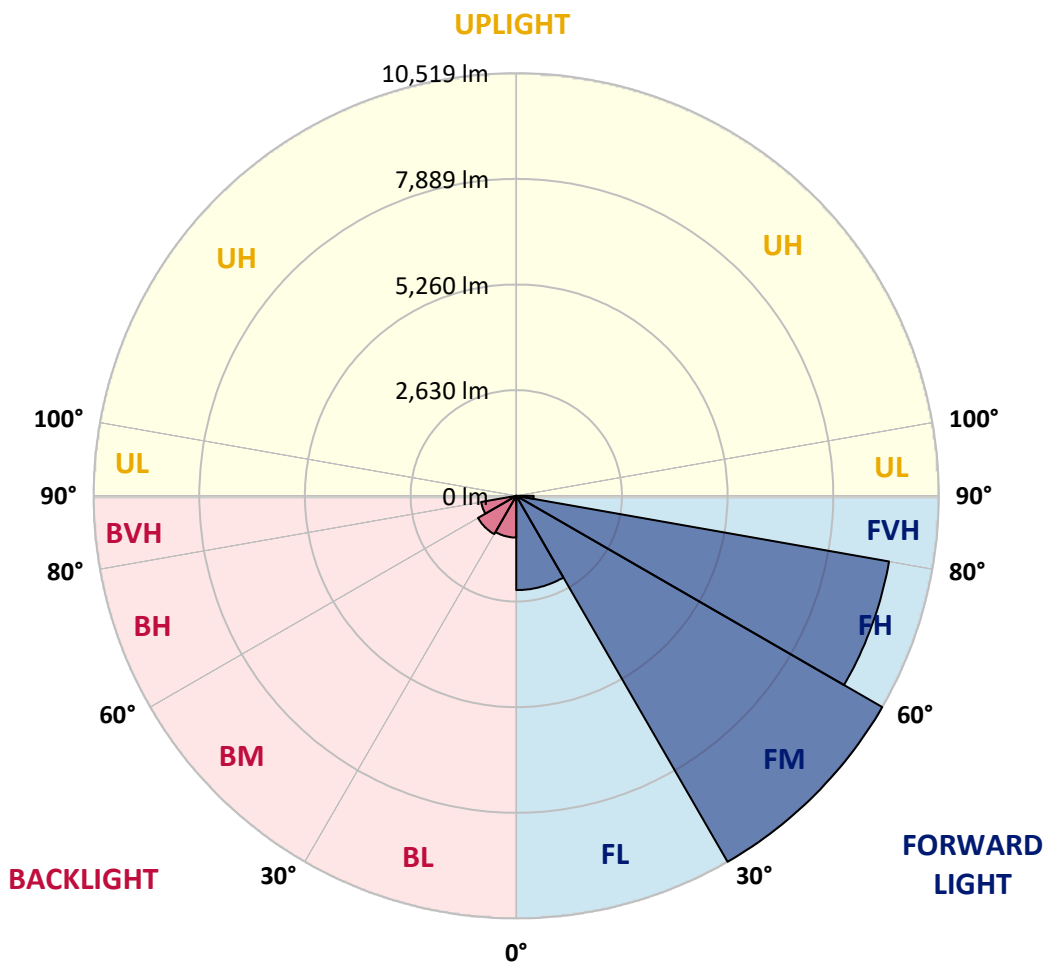


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2347.2	9.1			
FM (30°-60°)	10519.2	40.8			
FH (60°-80°)	9422.4	36.6			G4/12000
FVH (80°-90°)	433.8	1.7			G3/500
BL (0°-30°)	1038.9	4.0	B3/2500		
BM (30°-60°)	1100.3	4.3	B2/2500		
BH (60°-80°)	887.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3
2.5°	6567.1	6550.8	6563.8	6592.2	6606.4	6606.4	6617.3	6604.2	6608.5	6576.9	6531.1
5°	6156.2	6131.1	6167.1	6246.7	6344.8	6428.7	6552.9	6618.3	6624.9	6626.0	6572.6
7.5°	5713.7	5690.8	5744.2	5837.9	5964.4	6120.2	6337.1	6526.8	6537.7	6640.1	6600.9
10°	5354.0	5337.6	5399.7	5500.0	5648.3	5822.7	6088.6	6352.4	6384.0	6610.7	6596.5
12.5°	5068.4	5055.3	5114.2	5229.7	5381.2	5574.1	5852.1	6158.4	6200.9	6544.2	6574.7
15°	4860.2	4858.0	4907.1	5018.3	5186.1	5366.0	5650.4	5978.5	6027.6	6472.3	6571.5
17.5°	4751.2	4754.5	4790.5	4885.3	5029.2	5207.9	5480.4	5827.0	5880.4	6408.0	6587.8
20°	4740.3	4743.6	4763.2	4816.6	4933.2	5091.3	5342.0	5699.5	5755.1	6360.0	6614.0
22.5°	4836.2	4834.0	4839.5	4834.0	4899.4	5019.3	5250.4	5601.4	5665.7	6328.4	6634.7
25°	5020.4	5017.2	5015.0	4974.7	4931.1	4995.4	5212.3	5545.8	5606.8	6305.5	6646.7
27.5°	5276.6	5274.4	5271.1	5204.6	5073.8	5033.5	5216.6	5525.1	5576.3	6287.0	6644.5
30°	5613.4	5628.6	5624.3	5531.6	5327.8	5150.1	5262.4	5514.2	5558.9	6251.0	6621.6
32.5°	6009.0	6039.6	6063.5	5964.4	5709.3	5381.2	5368.1	5526.2	5558.9	6223.8	6580.2
35°	6420.0	6459.2	6547.5	6512.6	6176.9	5728.9	5550.2	5598.1	5625.4	6239.0	6560.6
37.5°	6824.3	6871.2	7063.1	7164.4	6789.5	6188.9	5833.6	5775.8	5790.0	6331.7	6582.4
40°	7294.1	7365.0	7656.0	7819.5	7520.8	6804.7	6257.6	6081.0	6086.4	6535.5	6683.7
42.5°	7911.1	7984.1	8299.1	8555.2	8344.9	7583.0	6833.1	6547.5	6542.0	6917.0	6922.4
45°	8663.1	8739.4	9065.3	9349.8	9255.0	8505.1	7569.9	7228.7	7222.2	7518.7	7374.8
47.5°	9515.5	9590.7	9881.7	10174.9	10277.4	9582.0	8508.4	8158.5	8143.2	8354.7	8073.5
50°	10246.9	10295.9	10564.1	10958.6	11420.8	10905.2	9675.7	9338.9	9322.6	9465.4	9099.1
52.5°	10512.8	10541.2	10813.7	11366.3	12519.5	12697.1	11209.3	10775.5	10763.5	10825.7	10464.9
55°	9974.4	10025.6	10360.2	11179.9	13114.6	14722.3	13145.1	12554.4	12463.9	12329.8	11892.7
57.5°	8507.3	8589.0	8948.7	10038.7	12836.7	16328.9	15990.0	14566.5	14433.5	13613.8	13053.6
60°	6374.2	6474.5	6773.1	7949.2	11353.2	16901.2	19098.6	16808.5	16508.8	14636.2	14120.7
62.5°	4374.1	4424.2	4627.0	5393.2	8361.2	15963.8	21699.3	19811.4	19264.3	15748.0	15274.9
65°	3340.8	3358.2	3441.1	3704.8	4979.0	12967.5	22733.7	23773.5	23111.9	17077.8	16472.8
67.5°	2692.2	2678.1	2792.5	3169.7	3334.2	7911.1	21527.1	27521.9	27212.4	18855.5	17678.3
69°	2374.0	2354.4	2471.0	2909.1	3131.5	5229.7	19244.6	28373.2	28392.8	19794.0	17761.2
70°	2136.4	2149.4	2265.0	2754.4	3062.8	4104.9	17064.7	28156.3	28311.1	20145.0	17264.2
72.5°	1426.8	1461.7	1693.8	2286.8	2945.1	3106.4	10303.6	24161.5	24756.7	19354.7	14811.7
75°	804.4	830.6	1106.3	1724.3	2775.1	2958.2	5442.3	17800.4	18375.9	16185.1	11421.9
77.5°	394.6	408.7	625.6	1112.9	2320.6	2818.7	3086.8	12091.1	12748.4	10564.1	6460.3
80°	166.8	174.4	312.8	686.7	1658.9	2690.1	2292.2	7441.3	7523.0	4138.6	1721.1
82.5°	64.3	66.5	131.9	428.4	1054.0	2097.1	1917.3	3528.3	3443.2	779.3	392.4
85°	7.6	8.7	48.0	257.2	586.4	1079.1	1557.6	1520.5	1407.2	154.8	201.6
87.5°	0.0	0.0	3.3	78.5	174.4	505.7	809.9	631.1	569.0	50.1	104.6
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°	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3	6509.3
2.5°	6493.0	6482.1	6423.2	6338.2	6257.6	6157.3	6061.4	6003.6	5957.8	5927.3	5963.3
5°	6510.4	6462.5	6283.7	6054.8	5830.3	5577.4	5342.0	5142.5	5064.0	4976.8	5016.1
7.5°	6505.0	6414.5	6093.0	5685.3	5273.3	4847.1	4443.8	4133.2	3971.9	3813.8	3854.2
10°	6477.7	6325.1	5837.9	5234.1	4617.1	4004.6	3432.3	2997.4	2754.4	2534.2	2565.8
12.5°	6417.8	6205.2	5537.1	4717.4	3892.3	3084.6	2414.3	1857.3	1558.7	1426.8	1443.1
15°	6381.8	6088.6	5218.8	4194.2	3118.4	2148.3	1475.8	1097.6	961.4	917.8	923.2
17.5°	6364.4	5976.3	4889.6	3595.8	2327.1	1367.9	953.7	841.5	812.0	804.4	806.6
20°	6346.9	5863.0	4550.7	3004.0	1603.4	919.9	783.7	751.0	740.1	730.3	732.5
22.5°	6317.5	5754.0	4186.6	2404.5	1081.3	746.6	706.3	674.7	651.8	639.8	642.0
25°	6281.5	5639.5	3814.9	1790.8	789.1	666.0	627.8	583.1	555.9	534.1	535.2
27.5°	6223.8	5498.9	3431.2	1303.6	662.7	596.2	545.0	495.9	450.2	425.1	425.1
30°	6143.1	5339.8	3005.1	933.0	594.0	527.5	465.4	404.4	355.3	332.4	330.3
32.5°	6053.7	5174.1	2574.5	707.4	539.5	463.2	392.4	328.1	284.5	266.0	264.9
35°	5977.4	4995.4	2145.1	592.9	485.0	401.1	323.7	269.2	234.3	219.1	218.0
37.5°	5928.4	4816.6	1726.5	529.7	436.0	343.3	271.4	222.4	197.3	185.3	184.2
40°	5920.8	4683.6	1343.9	481.8	390.2	292.1	226.7	188.6	165.7	152.6	151.5
42.5°	6019.9	4607.3	1031.1	441.4	343.3	247.4	192.9	161.3	137.3	124.3	123.2
45°	6280.4	4631.3	793.5	405.5	296.5	209.3	163.5	134.1	112.3	102.5	100.3
47.5°	6755.7	4797.0	631.1	369.5	251.8	177.7	139.5	111.2	92.6	82.8	81.7
50°	7601.5	5186.1	527.5	330.3	210.4	151.5	115.5	90.5	75.2	66.5	65.4
52.5°	8724.2	5879.3	470.9	292.1	174.4	128.6	94.8	71.9	58.9	52.3	51.2
55°	9962.4	6718.6	433.8	250.7	142.8	106.8	75.2	56.7	45.8	40.3	38.1
57.5°	11171.2	7445.6	398.9	210.4	118.8	87.2	59.9	44.7	36.0	30.5	29.4
60°	12281.9	8113.8	358.6	168.9	97.0	68.7	46.9	34.9	28.3	22.9	22.9
62.5°	13471.0	8630.4	303.0	131.9	79.6	52.3	38.1	31.6	22.9	19.6	18.5
65°	14731.0	9014.1	237.6	102.5	62.1	39.2	31.6	32.7	18.5	14.2	13.1
67.5°	15661.9	8937.8	175.5	80.7	48.0	30.5	30.5	34.9	16.3	10.9	9.8
69°	15457.0	8317.6	147.1	69.8	41.4	26.2	28.3	34.9	15.3	9.8	8.7
70°	14862.9	7630.9	129.7	62.1	37.1	24.0	27.2	33.8	14.2	9.8	8.7
72.5°	12377.8	5747.5	101.4	46.9	29.4	19.6	22.9	29.4	14.2	9.8	7.6
75°	9310.6	3678.7	77.4	33.8	21.8	15.3	17.4	21.8	14.2	8.7	7.6
77.5°	5066.2	1326.5	55.6	22.9	15.3	12.0	12.0	16.3	13.1	6.5	4.4
80°	1302.5	333.5	34.9	15.3	12.0	8.7	7.6	10.9	7.6	1.1	0.0
82.5°	321.5	75.2	18.5	10.9	8.7	3.3	3.3	5.4	3.3	0.0	0.0
85°	176.6	37.1	12.0	7.6	4.4	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	90.5	10.9	3.3	2.2	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)