

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: P323640

Luminaire Tested: **GLEON-SA6B-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21466 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

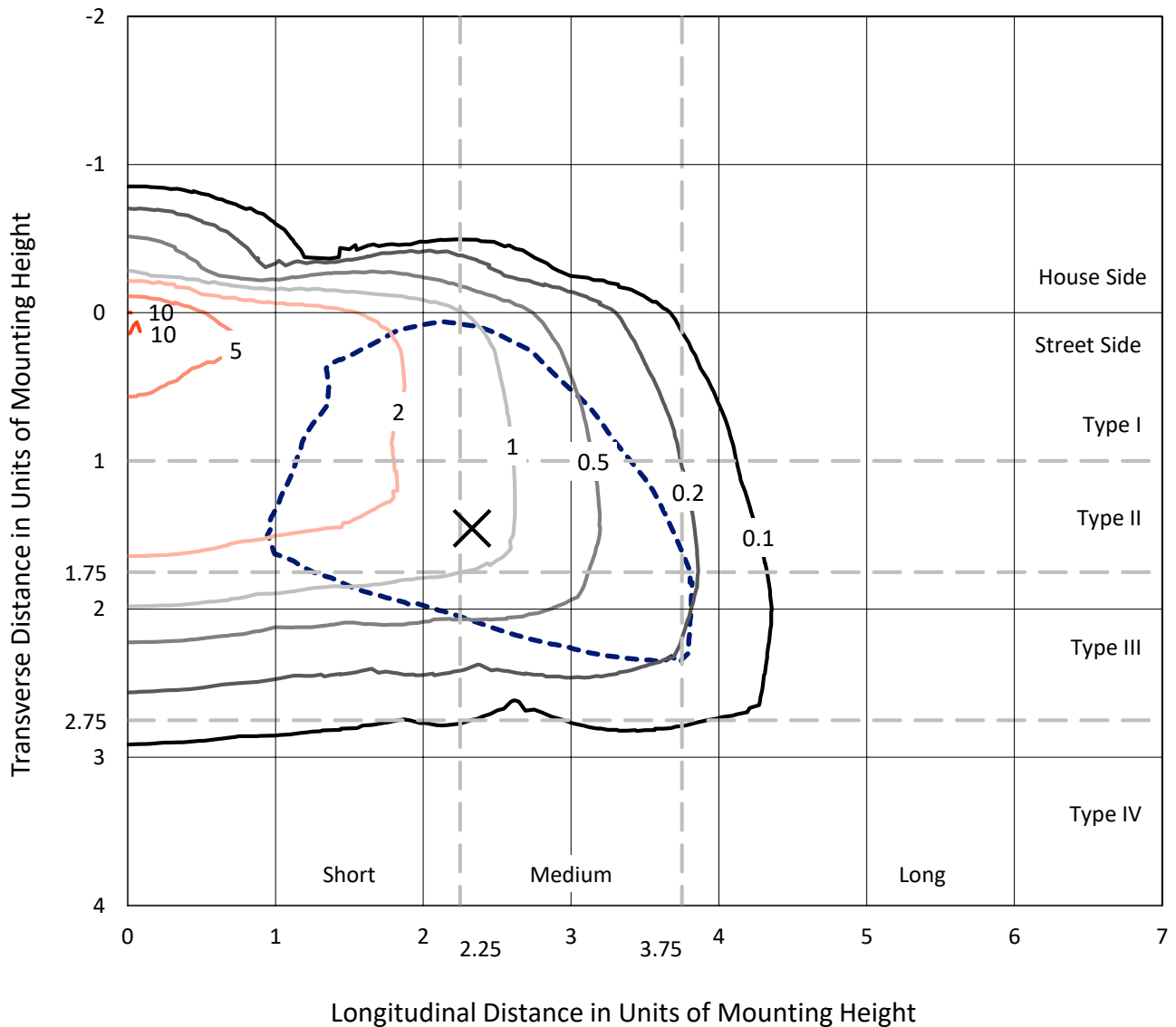
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

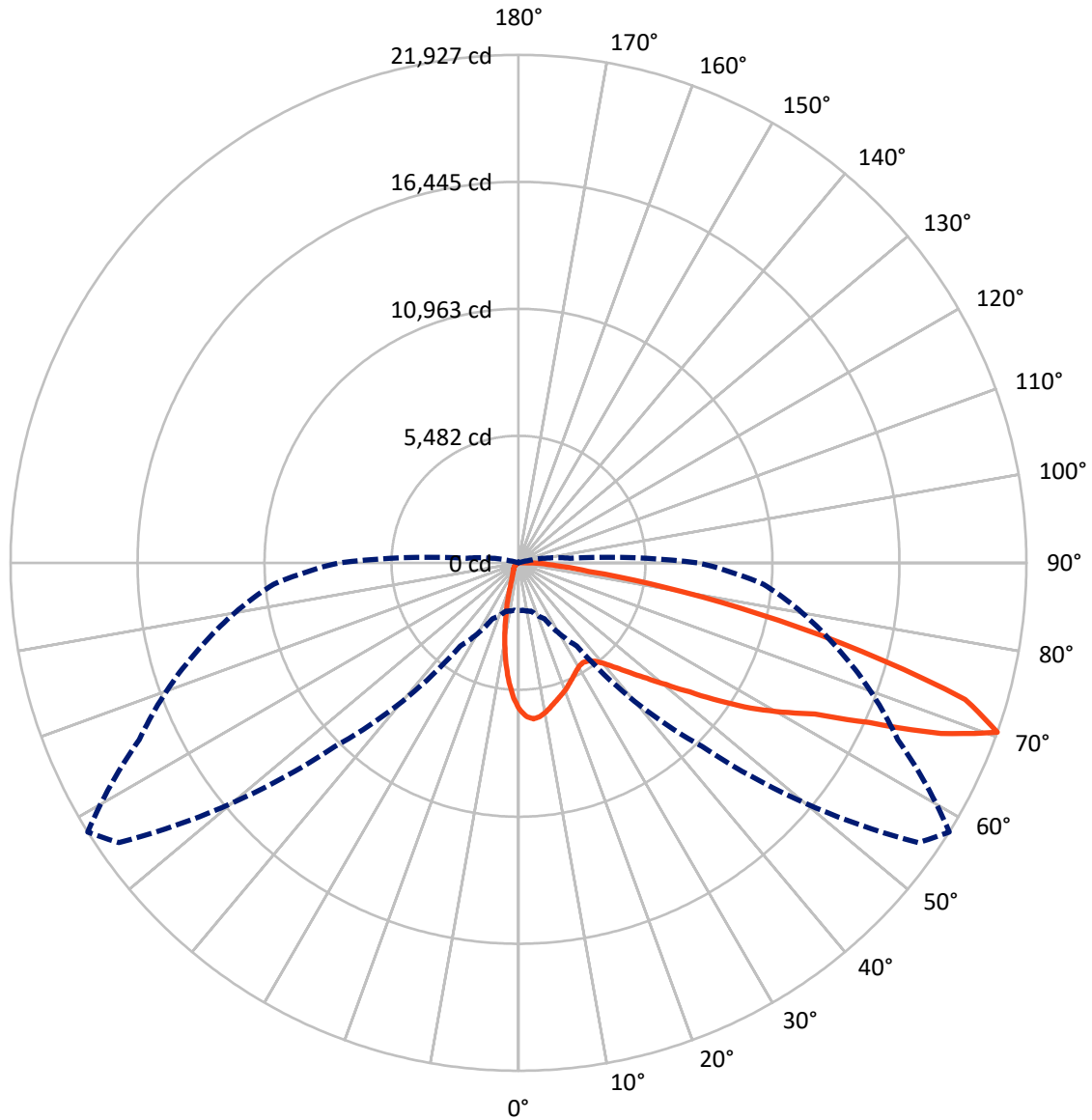
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1837.0	0.0	1837.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	19629.0	0.0	19629.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	21466.0	0.0	21466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.5	2.4
10°-20°	1088.3	5.1
20°-30°	1430.7	6.7
30°-40°	1894.8	8.8
40°-50°	2832.1	13.2
50°-60°	4537.0	21.1
60°-70°	5718.8	26.6
70°-80°	3084.7	14.4
80°-90°	361.1	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°	21466.0	100.0
0°-180°	21466.0	100.0

Coefficient of Utilization

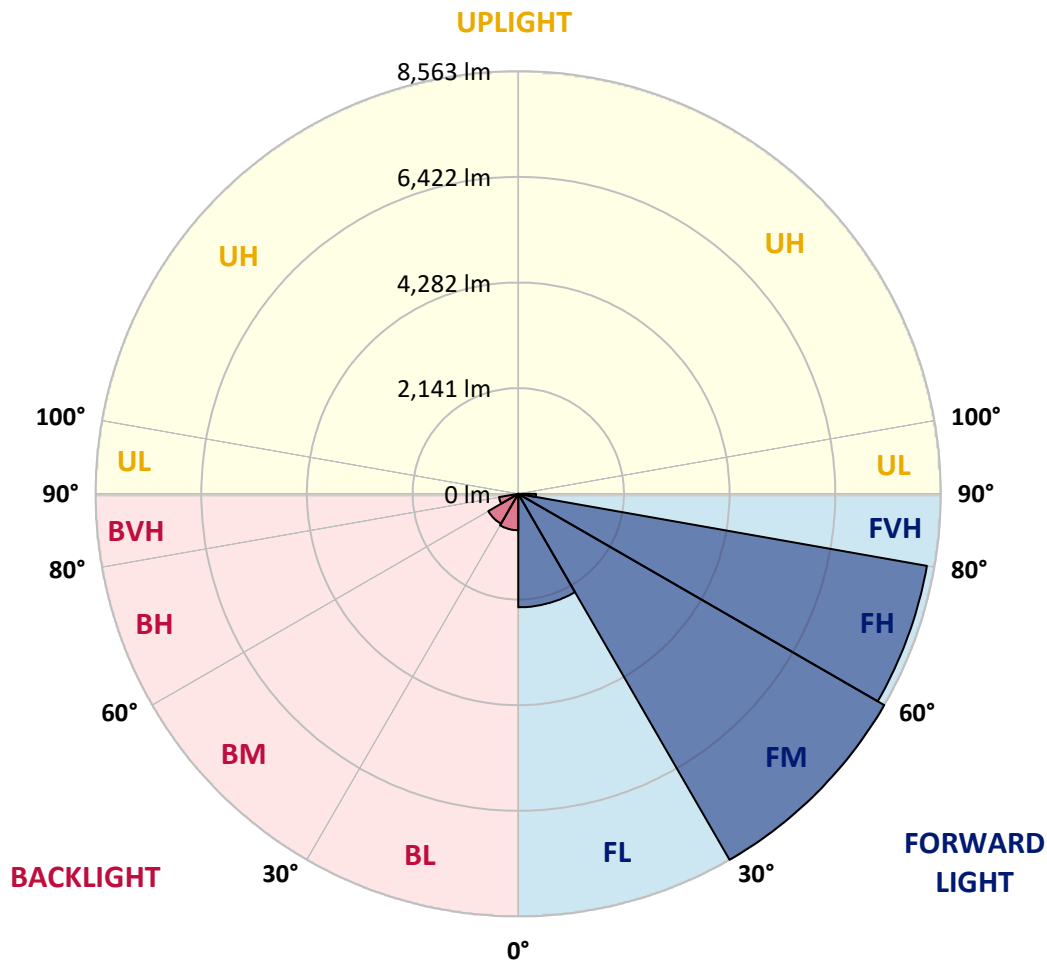


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2299.5	10.7			
FM (30°-60°)	8563.1	39.9			
FH (60°-80°)	8408.5	39.2			G4/12000
FVH (80°-90°)	358.0	1.7			G3/500
BL (0°-30°)	738.0	3.4	B2/1000		
BM (30°-60°)	700.8	3.3	B1/1000		
BH (60°-80°)	395.1	1.8	B1/500		G1/500
BVH (80°-90°)	3.1	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°	58°	65°	75°	85°
0°	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0
2.5°	6866.7	6849.7	6843.5	6832.8	6791.7	6751.5	6672.1	6649.8	6599.8	6481.1	6355.2
5°	6872.0	6871.2	6889.9	6885.4	6871.2	6852.4	6795.3	6765.8	6681.0	6511.4	6281.2
7.5°	6540.9	6557.9	6599.8	6633.7	6673.0	6723.9	6731.0	6702.5	6632.8	6449.9	6144.6
10°	6096.4	6123.2	6182.1	6249.0	6351.7	6453.4	6544.5	6540.9	6516.8	6336.5	5980.3
12.5°	5651.0	5682.2	5750.1	5849.1	5994.6	6160.7	6323.1	6345.4	6385.6	6234.7	5828.6
15°	5260.9	5287.7	5354.6	5476.0	5656.3	5879.5	6117.8	6158.9	6262.4	6155.3	5701.9
17.5°	4929.8	4946.7	4995.8	5130.6	5339.5	5609.9	5919.7	6000.0	6154.4	6092.8	5592.1
20°	4698.6	4701.3	4733.4	4828.0	5036.9	5339.5	5714.4	5829.5	6040.2	6039.3	5478.7
22.5°	4584.3	4575.4	4581.7	4636.1	4789.6	5081.5	5509.1	5645.6	5937.5	5993.7	5363.6
25°	4562.9	4555.8	4537.9	4545.1	4637.9	4855.7	5302.0	5460.0	5847.4	5966.1	5263.6
27.5°	4629.9	4637.0	4606.7	4574.5	4581.7	4709.3	5118.1	5301.1	5774.2	5966.1	5193.1
30°	4764.6	4768.2	4745.9	4703.9	4647.7	4668.2	4990.5	5173.4	5737.6	6007.1	5148.5
32.5°	4913.7	4933.3	4930.7	4896.7	4816.4	4733.4	4960.1	5127.0	5734.9	6098.2	5144.0
35°	5098.5	5120.8	5158.3	5151.1	5067.2	4930.7	5063.7	5194.9	5787.5	6248.1	5192.2
37.5°	5294.8	5328.8	5409.1	5447.5	5393.0	5238.6	5295.7	5389.5	5928.6	6490.9	5314.5
40°	5485.0	5523.3	5669.7	5820.6	5779.5	5620.6	5647.4	5722.4	6179.4	6839.9	5546.6
42.5°	5671.5	5728.6	5943.8	6191.9	6241.0	6114.2	6128.5	6188.3	6551.6	7320.1	5925.9
45°	5894.7	5958.9	6277.6	6583.7	6714.9	6659.6	6720.3	6759.6	7038.1	7954.8	6437.4
47.5°	6222.2	6296.3	6687.3	7036.3	7266.6	7302.3	7424.6	7450.4	7653.1	8693.8	7104.1
50°	6861.3	6881.9	7235.3	7552.2	7884.2	8098.5	8237.7	8257.3	8397.5	9501.6	7936.9
52.5°	7665.6	7678.9	7878.9	8091.3	8468.9	8906.3	9232.1	9259.7	9289.2	10288.9	8759.0
55°	8464.4	8462.6	8594.7	8719.7	9151.7	9787.2	10494.2	10511.1	10299.6	11036.0	9387.4
57.5°	8963.4	9011.6	9212.4	9373.1	9976.5	10791.4	11772.4	11834.8	11360.9	11589.4	10008.6
60°	8804.5	8827.7	9273.1	9867.6	11003.8	12218.7	13065.7	13081.8	12158.9	12141.9	10794.1
62.5°	7501.3	7513.8	8213.6	9439.1	11524.2	14069.9	14626.0	14364.4	13076.4	12908.6	11734.0
65°	5141.3	5222.5	5807.2	7321.9	10568.3	15231.1	17041.3	16608.4	14475.1	14013.7	12583.7
67.5°	3027.7	3010.7	3299.9	4415.6	7762.0	14459.9	20096.6	19666.4	16382.6	14753.6	12334.7
70°	2068.1	2056.5	2167.2	2673.3	4381.7	11217.2	21058.0	21926.5	18066.9	14255.5	10615.6
72.5°	1476.3	1482.6	1645.9	2077.1	2751.0	6535.5	18108.9	20164.5	17539.4	12427.5	8069.0
75°	1002.4	1019.3	1253.2	1704.0	2411.8	3324.9	12850.6	15328.4	14282.3	9032.1	4637.9
77.5°	539.1	557.9	833.7	1372.8	2180.6	2310.0	8266.3	10549.5	8971.4	4060.4	1344.2
80°	224.9	235.6	390.1	997.9	1884.3	2028.9	4863.7	6397.2	3823.0	800.7	299.9
82.5°	97.3	102.6	162.5	595.4	1408.5	1712.9	2575.1	3077.6	1158.6	175.8	150.8
85°	18.7	19.6	66.9	315.1	898.8	966.7	1669.1	1636.1	520.4	75.9	109.8
87.5°	0.0	0.0	16.1	99.1	264.2	526.6	1018.4	1005.9	176.7	36.6	41.1
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°	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0	6341.0
2.5°	6291.0	6229.4	6100.0	5940.2	5817.9	5683.1	5576.0	5440.3	5381.4	5384.1	5352.0
5°	6149.9	6023.2	5736.7	5375.2	5096.7	4809.3	4562.0	4315.7	4170.2	4122.9	4078.2
7.5°	5948.2	5747.4	5290.4	4733.4	4262.1	3801.5	3400.8	3048.2	2825.0	2716.1	2676.0
10°	5720.6	5438.5	4777.1	4043.4	3370.4	2747.4	2227.9	1776.3	1595.9	1473.7	1442.4
12.5°	5520.7	5138.6	4275.5	3335.6	2536.7	1785.2	1289.8	1008.6	886.3	838.1	830.1
15°	5332.3	4858.4	3792.6	2694.7	1756.6	1098.8	820.3	724.8	696.2	688.2	688.2
17.5°	5154.7	4591.5	3320.4	2063.7	1162.2	770.3	679.3	657.8	648.9	648.0	648.9
20°	4969.0	4324.6	2856.3	1512.0	811.4	652.5	627.5	615.9	613.2	613.2	613.2
22.5°	4791.4	4057.7	2404.6	1080.0	650.7	595.4	582.9	574.8	572.1	571.3	569.5
25°	4620.9	3804.2	1963.7	763.2	571.3	545.4	534.7	523.9	515.9	511.5	508.8
27.5°	4480.8	3578.4	1553.1	612.3	515.9	493.6	480.2	464.1	444.5	435.6	432.0
30°	4369.2	3372.2	1197.0	516.8	464.1	441.8	421.3	393.6	365.1	349.9	349.0
32.5°	4281.8	3169.6	908.7	457.0	417.7	390.1	360.6	325.8	292.8	275.8	274.9
35°	4238.9	2991.1	694.4	413.3	376.7	341.9	305.3	266.9	234.8	218.7	216.9
37.5°	4267.5	2840.2	541.8	376.7	341.9	301.7	258.9	218.7	190.1	175.8	174.9
40°	4371.9	2743.8	440.0	345.4	312.4	263.3	216.9	179.4	155.3	143.7	142.8
42.5°	4594.2	2708.1	375.8	319.5	283.8	227.6	180.3	148.2	125.9	117.8	116.0
45°	4965.5	2760.8	332.0	294.6	254.4	193.7	149.1	121.4	101.8	95.5	94.6
47.5°	5460.0	2899.1	300.8	270.5	227.6	163.3	124.1	98.2	83.0	76.8	75.9
50°	6097.3	3118.7	274.9	246.4	202.6	138.4	102.6	77.7	64.3	59.8	59.8
52.5°	6790.8	3380.2	251.7	224.0	177.6	115.1	83.0	59.8	50.9	45.5	45.5
55°	7363.9	3608.7	226.7	207.1	147.3	95.5	63.4	45.5	37.5	34.8	34.8
57.5°	7936.0	3852.4	198.2	177.6	117.8	77.7	48.2	33.9	27.7	25.9	25.9
60°	8677.8	4150.5	170.5	144.6	92.8	58.9	35.7	24.1	20.5	19.6	19.6
62.5°	9493.6	4325.5	145.5	116.0	72.3	43.7	25.9	16.1	15.2	15.2	14.3
65°	9992.5	4078.2	122.3	92.8	56.2	33.0	17.0	11.6	13.4	12.5	10.7
67.5°	9356.1	3192.8	100.0	72.3	43.7	25.0	10.7	8.0	14.3	11.6	8.9
70°	7746.8	2235.0	77.7	50.9	34.8	21.4	7.1	5.4	15.2	11.6	7.1
72.5°	5797.4	1496.0	61.6	33.9	25.9	18.7	6.2	2.7	13.4	9.8	6.2
75°	3167.8	602.5	49.1	21.4	16.1	13.4	4.5	1.8	8.9	7.1	4.5
77.5°	833.7	158.9	35.7	14.3	8.9	5.4	2.7	0.9	4.5	3.6	1.8
80°	212.4	61.6	23.2	9.8	6.2	2.7	0.0	0.0	0.9	0.0	0.0
82.5°	113.4	25.9	14.3	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.7	17.0	8.0	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.0	5.4	2.7	0.0	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)