

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: P383278

Luminaire Tested: **GLEON-SA6A-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383278
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-SA6A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA 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: 22182 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

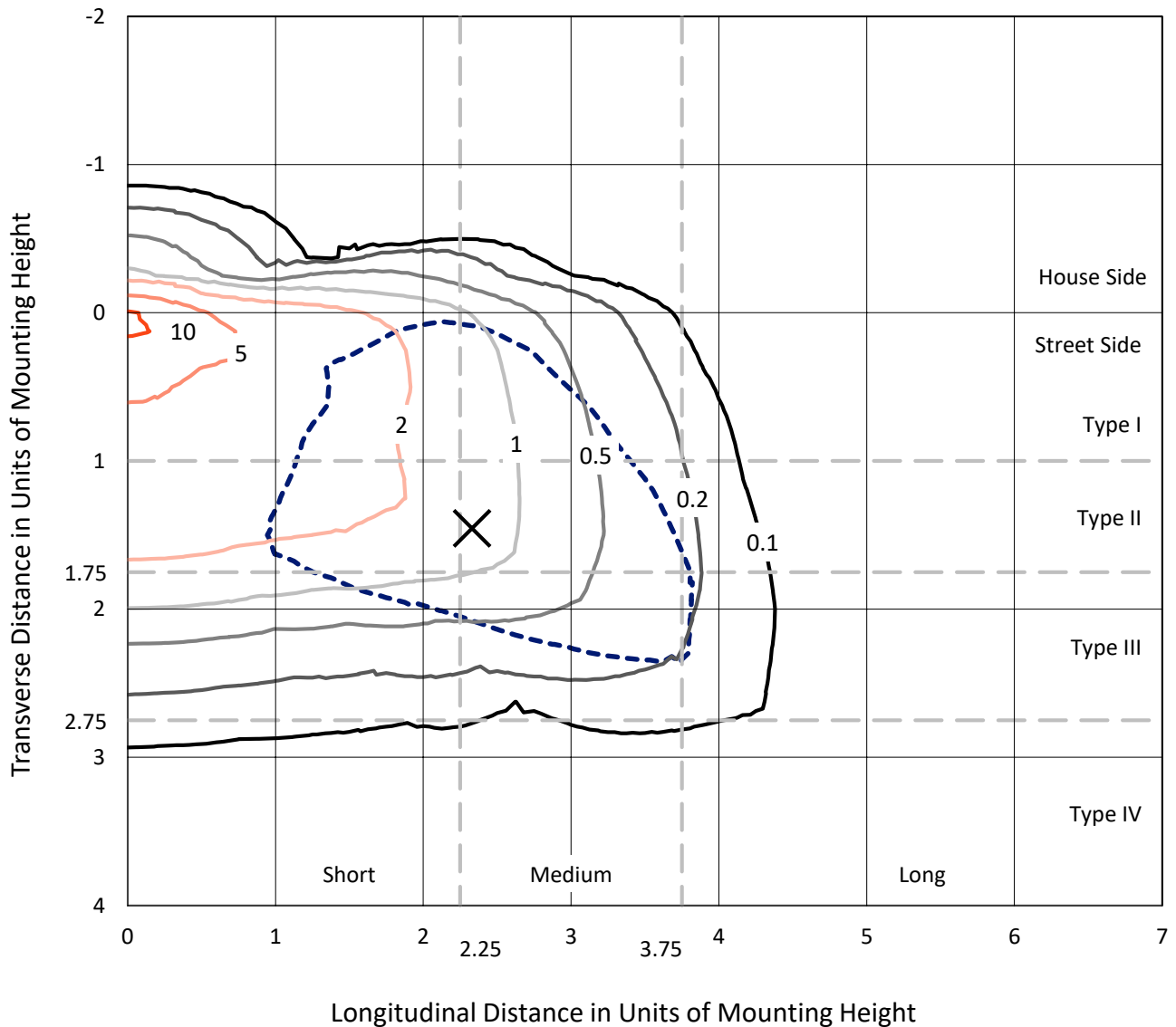
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

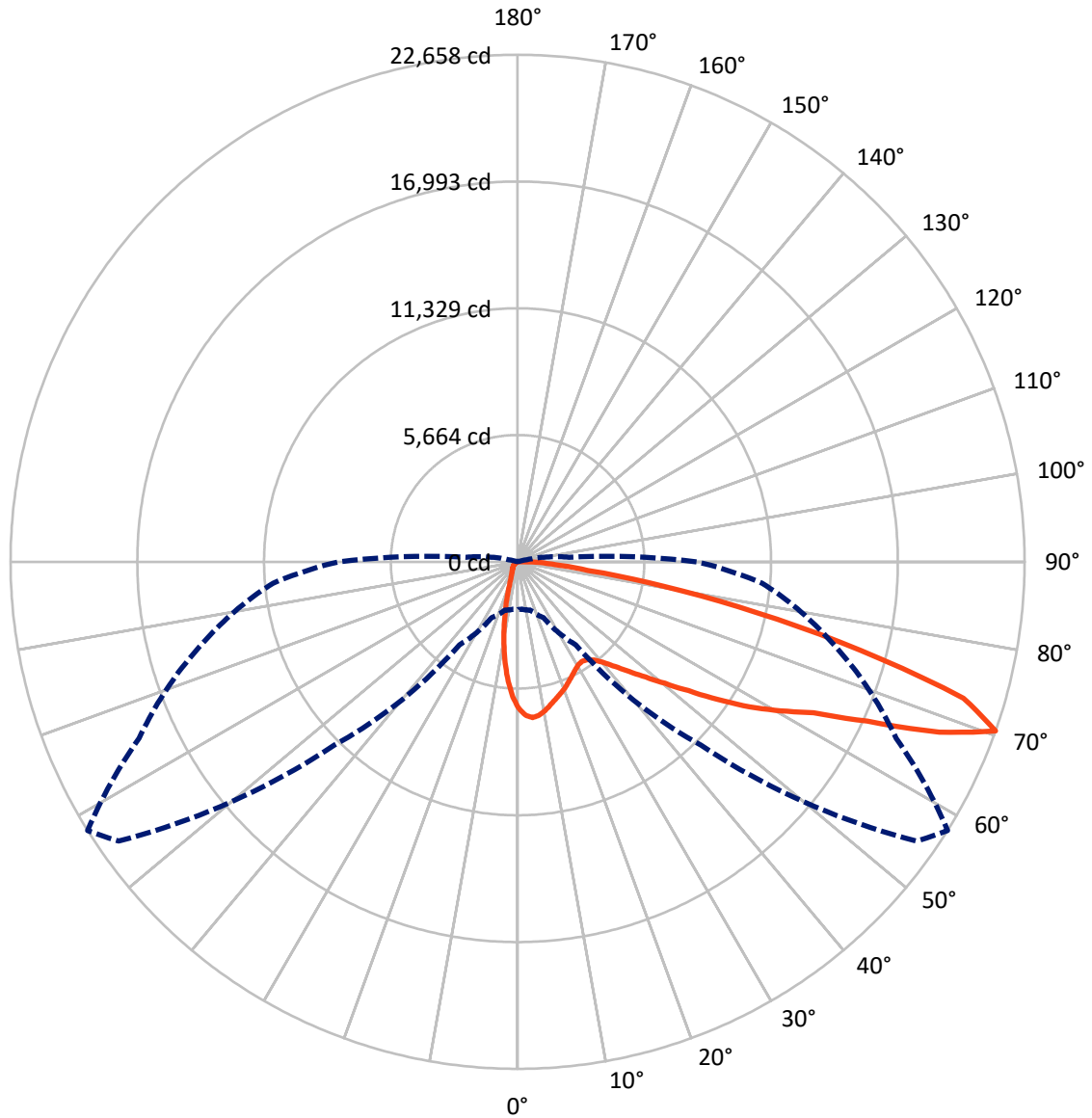
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	1898.3	0.0	1898.3
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	20283.7	0.0	20283.7
	% Fixture	91.4	0.0	91.4
Total	Lumens	22182.0	0.0	22182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	2.4
10°-20°	1124.6	5.1
20°-30°	1478.4	6.7
30°-40°	1958.0	8.8
40°-50°	2926.6	13.2
50°-60°	4688.3	21.1
60°-70°	5909.6	26.6
70°-80°	3187.6	14.4
80°-90°	373.1	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°	22182.0	100.0
0°-180°	22182.0	100.0

Coefficient of Utilization

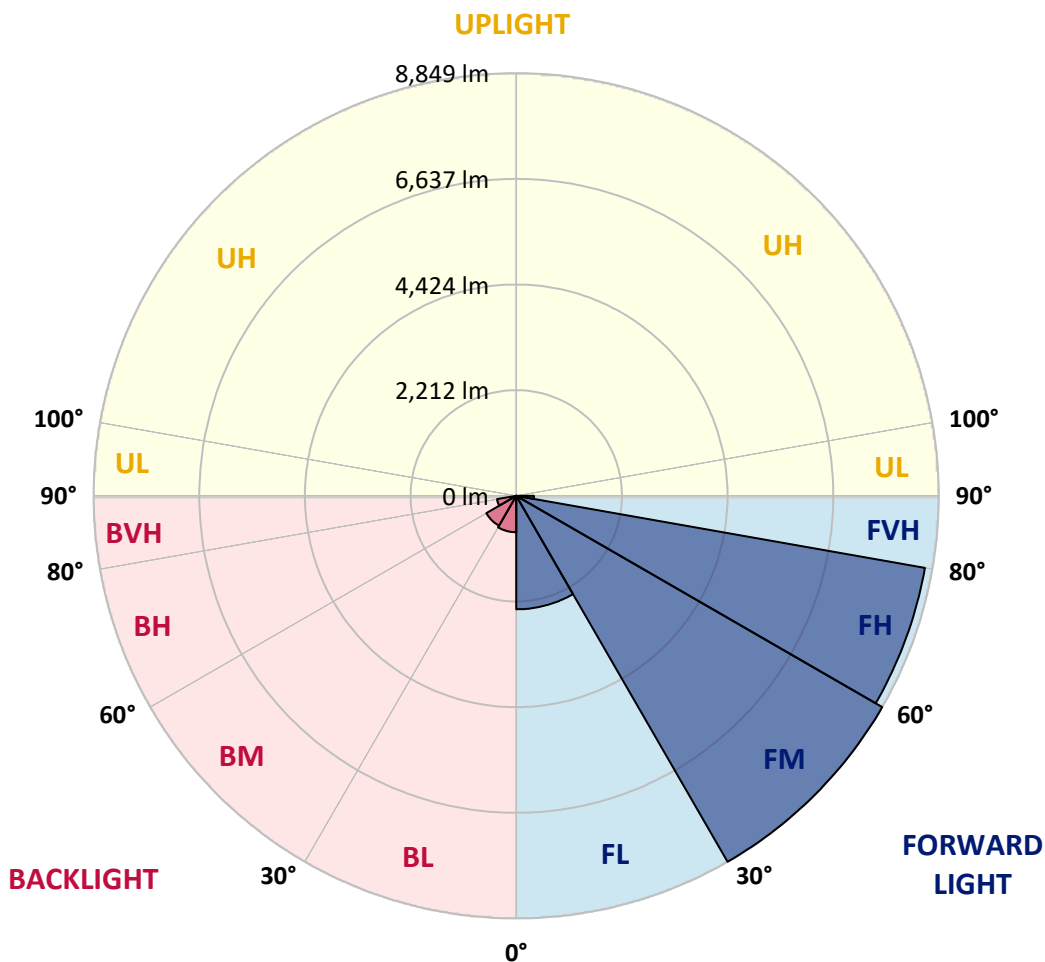


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.2	10.7			
FM (30°-60°)	8848.7	39.9			
FH (60°-80°)	8688.9	39.2			G4/12000
FVH (80°-90°)	369.9	1.7			G3/500
BL (0°-30°)	762.7	3.4	B2/1000		
BM (30°-60°)	724.2	3.3	B1/1000		
BH (60°-80°)	408.2	1.8	B1/500		G1/500
BVH (80°-90°)	3.2	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°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	7095.7	7078.2	7071.8	7060.7	7018.3	6976.7	6894.7	6871.6	6820.0	6697.3	6567.2
5°	7101.3	7100.3	7119.7	7115.1	7100.3	7081.0	7021.9	6991.5	6903.9	6728.7	6490.7
7.5°	6759.0	6776.6	6820.0	6855.0	6895.6	6948.1	6955.5	6926.1	6854.0	6664.9	6349.5
10°	6299.8	6327.4	6388.3	6457.5	6563.5	6668.7	6762.8	6759.0	6734.2	6547.8	6179.8
12.5°	5839.5	5871.7	5941.9	6044.3	6194.6	6366.1	6534.0	6557.1	6598.6	6442.7	6023.0
15°	5436.4	5464.1	5533.2	5658.7	5845.0	6075.6	6321.9	6364.3	6471.3	6360.6	5892.0
17.5°	5094.2	5111.8	5162.5	5301.7	5517.6	5797.0	6117.1	6200.1	6359.7	6296.1	5778.6
20°	4855.3	4858.1	4891.3	4989.1	5204.9	5517.6	5905.0	6023.9	6241.6	6240.7	5661.5
22.5°	4737.3	4728.1	4734.5	4790.8	4949.4	5251.0	5692.8	5833.9	6135.5	6193.7	5542.4
25°	4715.1	4707.8	4689.3	4696.7	4792.6	5017.7	5478.8	5642.1	6042.4	6165.1	5439.2
27.5°	4784.3	4791.7	4760.3	4727.1	4734.5	4866.4	5288.9	5477.9	5966.7	6165.1	5366.3
30°	4923.6	4927.2	4904.2	4860.8	4802.8	4823.9	5157.0	5346.0	5928.9	6207.5	5320.2
32.5°	5077.6	5097.9	5095.1	5060.1	4977.1	4891.3	5125.6	5298.1	5926.1	6301.5	5315.6
35°	5268.6	5291.6	5330.3	5323.0	5236.2	5095.1	5232.6	5368.1	5980.6	6456.6	5365.3
37.5°	5471.4	5506.5	5589.5	5629.2	5572.9	5413.3	5472.4	5569.3	6126.3	6707.4	5491.8
40°	5667.9	5707.6	5858.9	6014.7	5972.3	5808.1	5835.8	5913.3	6385.5	7068.0	5731.5
42.5°	5860.6	5919.7	6142.0	6398.4	6449.2	6318.2	6332.9	6394.7	6770.1	7564.3	6123.5
45°	6091.3	6157.7	6487.0	6803.4	6938.9	6881.7	6944.5	6985.0	7272.9	8220.1	6652.1
47.5°	6429.8	6506.3	6910.3	7271.0	7508.9	7545.8	7672.2	7699.0	7908.4	8983.8	7341.1
50°	7090.2	7111.4	7476.7	7804.1	8147.2	8368.6	8512.5	8532.8	8677.6	9818.5	8201.6
52.5°	7921.2	7935.1	8141.7	8361.2	8751.3	9203.3	9540.0	9568.6	9599.0	10632.0	9051.1
55°	8746.8	8744.9	8881.5	9010.6	9457.0	10113.7	10844.2	10861.8	10643.1	11404.1	9700.5
57.5°	9262.4	9312.1	9519.7	9685.8	10309.3	11151.4	12165.1	12229.6	11739.8	11976.0	10342.4
60°	9098.1	9122.2	9582.5	10196.7	11370.8	12626.2	13501.6	13518.2	12564.4	12546.9	11154.2
62.5°	7751.5	7764.4	8487.6	9754.0	11908.6	14539.2	15113.8	14843.6	13512.6	13339.2	12125.4
65°	5312.8	5396.7	6000.8	7566.1	10920.8	15739.1	17609.7	17162.4	14958.0	14481.1	13003.5
67.5°	3128.7	3111.1	3409.9	4562.9	8020.9	14942.3	20767.0	20322.4	16929.0	15245.7	12746.1
70°	2137.2	2125.1	2239.5	2762.5	4527.9	11591.3	21760.4	22657.8	18669.5	14731.0	10969.6
72.5°	1525.6	1532.0	1700.8	2146.4	2842.7	6753.5	18712.9	20837.0	18124.4	12842.0	8338.2
75°	1035.8	1053.3	1295.0	1760.8	2492.3	3435.8	13279.2	15839.8	14758.7	9333.4	4792.6
77.5°	557.1	576.4	861.5	1418.6	2253.3	2387.1	8542.0	10901.4	9270.7	4195.8	1389.1
80°	232.4	243.5	403.1	1031.2	1947.1	2096.5	5026.0	6610.5	3950.5	827.4	309.9
82.5°	100.5	106.1	167.9	615.2	1455.4	1770.0	2661.1	3180.3	1197.2	181.7	155.8
85°	19.4	20.3	69.2	325.6	928.8	998.9	1724.9	1690.7	537.8	78.4	113.5
87.5°	0.0	0.0	16.6	102.4	273.0	544.2	1052.4	1039.5	182.6	37.8	42.4
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°	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5	6552.5
2.5°	6500.8	6437.2	6303.4	6138.3	6011.9	5872.7	5762.0	5621.8	5561.0	5563.7	5530.5
5°	6355.1	6224.1	5928.0	5554.4	5266.7	4969.7	4714.2	4459.6	4309.2	4260.4	4214.2
7.5°	6146.6	5939.1	5466.9	4891.3	4404.3	3928.3	3514.2	3149.8	2919.3	2806.8	2765.2
10°	5911.4	5619.9	4936.5	4178.3	3482.9	2839.0	2302.2	1835.5	1649.2	1522.8	1490.6
12.5°	5704.8	5310.0	4418.1	3446.9	2621.4	1844.7	1332.9	1042.3	915.9	866.1	857.8
15°	5510.2	5020.4	3919.1	2784.6	1815.2	1135.5	847.6	749.0	719.4	711.1	711.1
17.5°	5326.7	4744.7	3431.2	2132.5	1201.0	796.0	701.9	679.8	670.5	669.6	670.5
20°	5134.8	4468.8	2951.5	1562.5	838.4	674.3	648.5	636.4	633.6	633.6	633.6
22.5°	4951.3	4193.1	2484.8	1116.1	672.4	615.2	602.3	594.0	591.3	590.3	588.5
25°	4775.1	3931.1	2029.2	788.6	590.3	563.6	552.5	541.4	533.1	528.6	525.8
27.5°	4630.3	3697.8	1604.9	632.7	533.1	510.0	496.2	479.7	459.3	450.1	446.4
30°	4514.9	3484.6	1236.9	534.1	479.7	456.6	435.3	406.8	377.3	361.5	360.6
32.5°	4424.6	3275.3	939.0	472.3	431.7	403.1	372.6	336.7	302.6	285.1	284.1
35°	4380.3	3090.9	717.6	427.0	389.2	353.2	315.4	275.8	242.6	226.0	224.1
37.5°	4409.9	2934.9	559.9	389.2	353.2	311.8	267.4	226.0	196.5	181.7	180.8
40°	4517.7	2835.4	454.7	357.0	322.8	272.1	224.1	185.4	160.5	148.5	147.6
42.5°	4747.4	2798.5	388.3	330.2	293.3	235.2	186.3	153.1	130.0	121.8	119.9
45°	5131.1	2852.9	343.1	304.3	262.9	200.2	154.1	125.5	105.2	98.7	97.8
47.5°	5642.1	2995.9	310.9	279.5	235.2	168.8	128.2	101.4	85.8	79.4	78.4
50°	6300.6	3222.7	284.1	254.6	209.4	143.0	106.1	80.2	66.4	61.8	61.8
52.5°	7017.3	3493.0	260.1	231.5	183.5	119.0	85.8	61.8	52.5	47.0	47.0
55°	7609.5	3729.1	234.3	214.0	152.2	98.7	65.5	47.0	38.8	36.0	36.0
57.5°	8200.7	3980.9	204.8	183.5	121.8	80.2	49.8	35.0	28.6	26.7	26.7
60°	8967.2	4288.9	176.2	149.4	95.9	60.8	36.9	24.9	21.2	20.3	20.3
62.5°	9810.2	4469.8	150.4	119.9	74.7	45.2	26.7	16.6	15.6	15.6	14.7
65°	10325.8	4214.2	126.3	95.9	58.1	34.1	17.5	12.0	13.9	12.9	11.1
67.5°	9668.2	3299.3	103.3	74.7	45.2	25.8	11.1	8.3	14.7	12.0	9.2
70°	8005.2	2309.6	80.2	52.5	36.0	22.2	7.4	5.5	15.6	12.0	7.4
72.5°	5990.8	1545.9	63.6	35.0	26.7	19.4	6.4	2.8	13.9	10.2	6.4
75°	3273.5	622.6	50.8	22.2	16.6	13.9	4.7	1.9	9.2	7.4	4.7
77.5°	861.5	164.1	36.9	14.7	9.2	5.5	2.8	0.9	4.7	3.7	1.9
80°	219.6	63.6	23.9	10.2	6.4	2.8	0.0	0.0	0.9	0.0	0.0
82.5°	117.1	26.7	14.7	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	88.6	17.5	8.3	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.1	5.5	2.8	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)