

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: P383308

Luminaire Tested: **GLEON-SA6B-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383308
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-SA6B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA 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: 25842 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

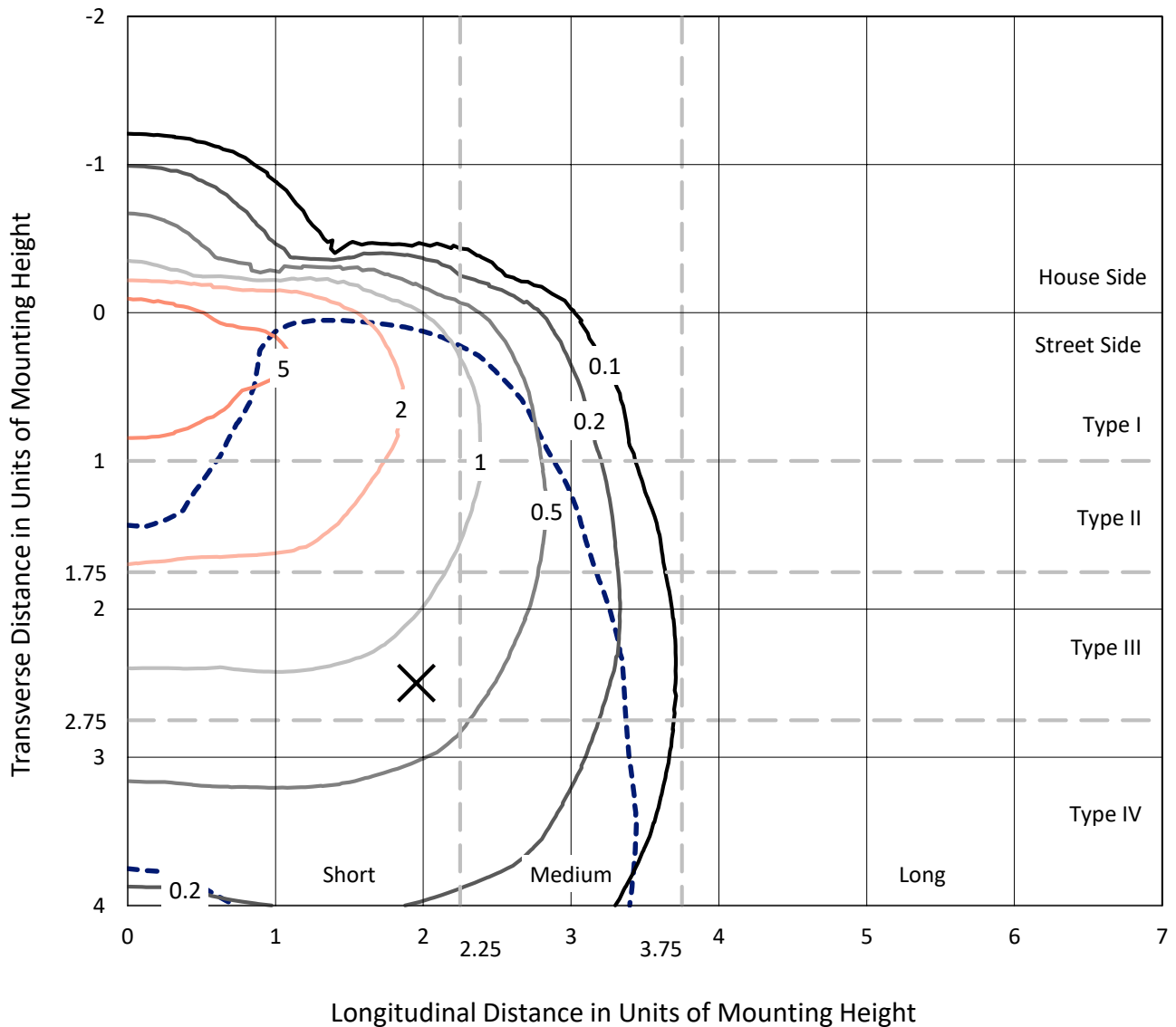
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

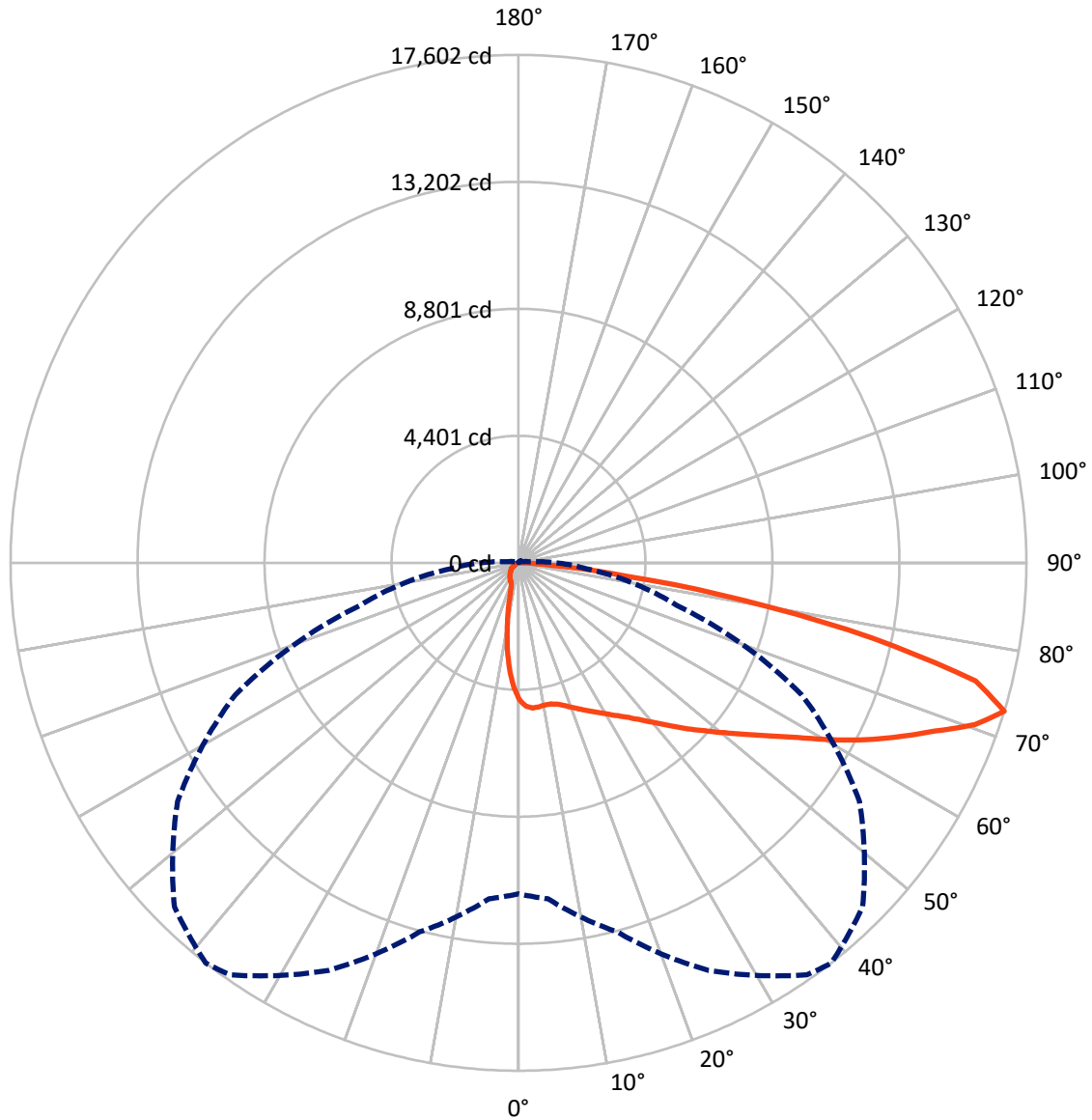
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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
House Side	Lumens	2174.7	0.0	2174.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23667.4	0.0	23667.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	25842.0	0.0	25842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	1.6
10°-20°	990.3	3.8
20°-30°	1575.0	6.1
30°-40°	2367.9	9.2
40°-50°	3612.3	14.0
50°-60°	5105.5	19.8
60°-70°	6404.0	24.8
70°-80°	4788.4	18.5
80°-90°	593.7	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°	25842.0	100.0
0°-180°	25842.0	100.0

Coefficient of Utilization



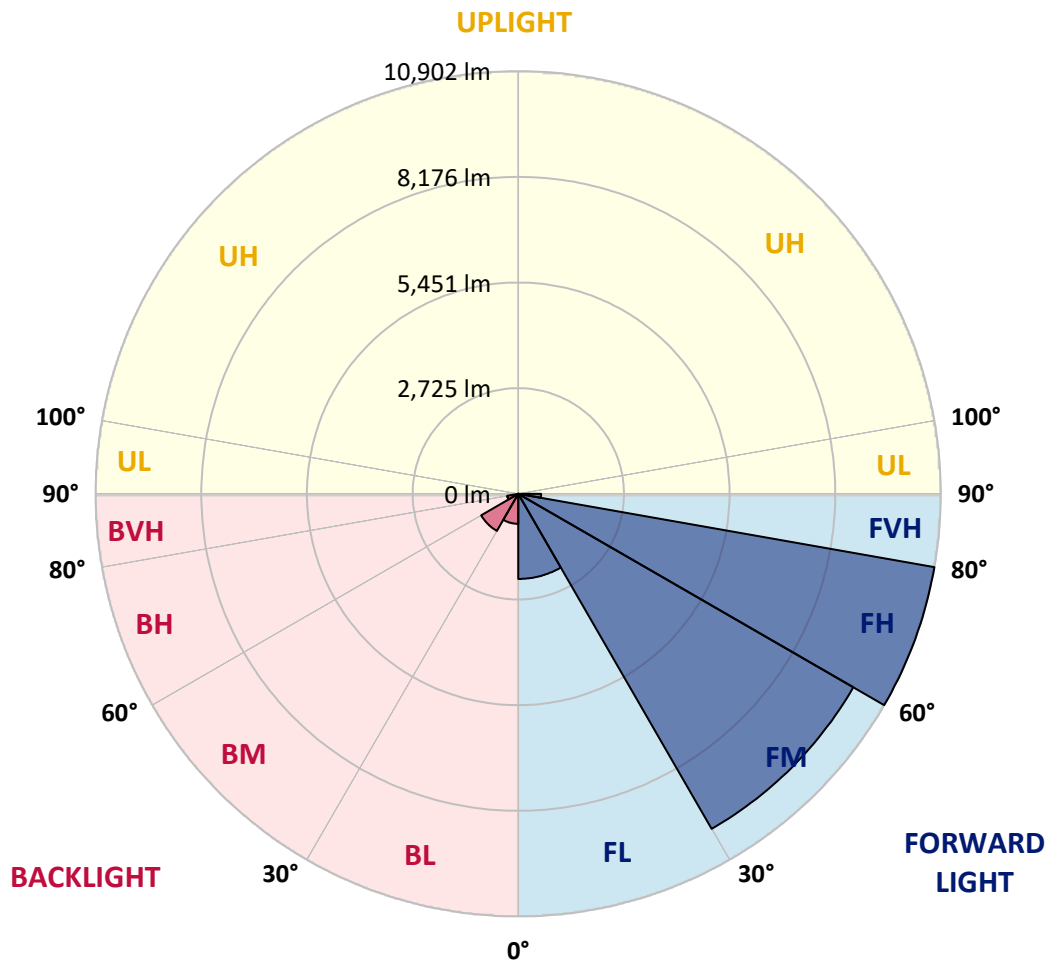
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.0	8.5			
FM (30°-60°)	9981.3	38.6			
FH (60°-80°)	10901.9	42.2			G4/12000
FVH (80°-90°)	588.2	2.3			G4/750
BL (0°-30°)	774.3	3.0	B2/1000		
BM (30°-60°)	1104.3	4.3	B2/2500		
BH (60°-80°)	290.5	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3
2.5°	5044.1	5045.3	5033.4	5014.1	4989.5	4976.6	4955.1	4920.8	4884.3	4818.8	4748.0
5°	5147.2	5147.2	5132.2	5106.5	5066.7	5054.9	5014.1	4959.4	4884.3	4778.0	4658.9
7.5°	5136.5	5138.6	5118.2	5091.4	5051.7	5041.0	4991.6	4930.4	4837.1	4708.2	4555.8
10°	5080.7	5086.1	5069.9	5057.1	5020.6	5008.7	4962.6	4901.4	4808.1	4670.7	4495.7
12.5°	5023.8	5029.1	5034.5	5046.4	5023.8	5019.6	4983.0	4931.5	4842.5	4699.7	4502.2
15°	4987.3	4998.0	5036.7	5082.8	5088.2	5083.9	5060.3	5012.0	4921.8	4773.7	4548.4
17.5°	4987.3	5004.5	5084.9	5173.0	5204.1	5207.4	5187.0	5119.3	5012.0	4853.2	4591.3
20°	5029.1	5052.8	5178.4	5302.8	5354.3	5354.3	5314.7	5220.2	5094.6	4925.1	4620.3
22.5°	5136.5	5167.6	5325.4	5469.2	5523.9	5512.2	5458.5	5321.1	5180.5	5006.6	4656.7
25°	5347.9	5371.5	5535.7	5680.6	5713.9	5687.1	5619.5	5443.4	5290.0	5117.2	4723.3
27.5°	5620.5	5623.8	5793.3	5915.6	5895.3	5877.0	5792.3	5596.9	5447.7	5274.9	4838.1
30°	5920.0	5920.0	6069.1	6162.5	6100.2	6085.2	6000.5	5782.6	5649.5	5489.6	5001.3
32.5°	6209.7	6222.6	6343.8	6402.9	6333.1	6318.1	6235.5	6017.6	5917.8	5817.0	5255.6
35°	6489.8	6499.5	6614.4	6646.5	6580.0	6584.3	6525.2	6340.7	6303.1	6290.2	5638.8
37.5°	6761.4	6763.5	6880.5	6900.9	6867.6	6904.1	6909.5	6746.4	6816.1	6920.2	6178.6
40°	7009.2	7011.4	7127.4	7179.9	7236.8	7284.1	7325.9	7239.0	7469.7	7711.2	6821.4
42.5°	7207.8	7230.4	7377.4	7477.2	7627.4	7717.6	7831.3	7827.0	8247.8	8610.6	7598.4
45°	7382.8	7421.4	7626.4	7801.3	8058.9	8202.7	8380.9	8520.4	9123.6	9611.9	8385.1
47.5°	7613.5	7650.0	7884.0	8170.5	8514.0	8702.8	8998.0	9299.5	10086.2	10595.0	9153.6
50°	7938.6	7922.6	8153.4	8564.4	9005.5	9253.4	9674.1	10125.9	11041.4	11451.4	9605.5
52.5°	8285.4	8278.9	8449.5	8992.6	9585.1	9874.8	10430.7	10980.2	11954.7	12041.7	9812.5
55°	8714.6	8668.5	8812.3	9480.9	10273.0	10584.2	11238.8	11825.9	12682.4	12374.4	9916.7
57.5°	9164.3	9088.1	9225.5	10025.0	11048.9	11417.0	12134.0	12650.1	13166.4	12601.9	9915.6
60°	9629.0	9538.9	9702.0	10705.5	12012.7	12438.8	13104.2	13207.2	13618.2	12716.7	9842.6
62.5°	10017.6	9963.9	10206.4	11433.2	13089.2	13507.7	13837.2	13713.8	13999.2	12805.8	9672.0
65°	10428.6	10431.8	10823.6	12282.1	14233.2	14515.5	14543.3	14370.6	14318.0	12787.5	9094.6
67.5°	10984.5	11036.0	11689.6	13434.7	15346.1	15564.0	15561.9	15082.1	14550.9	12062.1	7814.2
70°	11572.6	11693.9	12687.8	14753.8	16561.1	16782.1	16668.4	15535.0	13700.8	9753.5	5530.3
72.5°	11474.0	11684.3	13242.6	15585.4	17433.5	17602.1	16862.6	14422.1	10828.9	5668.8	2354.7
75°	8852.0	9095.6	12142.5	14761.2	16518.1	16366.8	14488.6	11222.8	5917.8	1582.0	530.1
77.5°	4676.1	4805.9	8021.4	11245.4	12879.9	12563.2	10206.4	6225.8	1804.1	391.7	238.3
80°	2449.1	2479.1	3495.5	6380.4	7949.5	7951.6	6048.7	2734.6	743.7	200.7	159.9
82.5°	1311.5	1337.2	1847.1	2948.2	4165.2	3775.7	2316.0	1504.6	432.5	113.7	153.4
85°	315.5	320.9	1047.4	1346.9	1637.8	1169.8	687.9	1263.2	117.0	66.5	124.5
87.5°	121.3	123.4	388.5	582.8	417.5	270.4	321.9	471.2	15.0	25.8	19.3
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°	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3	4752.3
2.5°	4705.1	4677.1	4608.5	4521.5	4444.2	4388.4	4304.8	4250.0	4213.5	4212.5	4198.5
5°	4585.9	4529.0	4381.0	4204.9	4045.0	3901.2	3731.6	3597.5	3497.7	3481.6	3447.2
7.5°	4458.2	4364.9	4137.3	3862.6	3594.3	3321.6	3005.1	2808.6	2640.2	2559.6	2551.0
10°	4379.9	4248.9	3925.9	3528.8	3108.1	2664.9	2250.5	1964.0	1756.9	1697.8	1653.9
12.5°	4363.7	4190.9	3762.7	3215.4	2614.4	2028.4	1570.1	1265.3	1100.1	1047.4	1033.6
15°	4379.9	4164.1	3625.4	2905.2	2114.2	1439.2	1054.0	876.9	814.5	799.5	798.5
17.5°	4389.5	4132.0	3469.7	2560.7	1629.2	1028.1	807.1	755.6	745.9	744.9	747.0
20°	4388.4	4082.6	3284.1	2176.5	1211.7	808.1	729.8	719.1	716.9	718.0	716.9
22.5°	4381.0	4024.7	3080.2	1780.5	915.4	722.3	696.5	690.1	689.0	689.0	689.0
25°	4394.9	3978.5	2855.8	1401.6	754.5	682.5	666.5	661.1	660.0	660.0	657.9
27.5°	4445.3	3952.7	2610.1	1078.6	681.5	647.1	634.3	633.2	630.0	628.9	631.0
30°	4526.9	3952.7	2340.7	839.2	637.5	610.6	601.0	598.9	597.8	596.7	597.8
32.5°	4670.7	3982.7	2046.6	697.6	595.6	569.9	563.5	566.7	563.5	563.5	563.5
35°	4930.4	4072.9	1738.6	608.5	551.7	530.1	523.7	528.0	525.9	525.9	524.8
37.5°	5309.3	4240.3	1428.4	554.8	513.0	490.5	481.9	488.3	486.2	486.2	485.1
40°	5770.8	4484.0	1133.3	514.1	475.5	451.8	444.3	447.5	442.2	442.2	444.3
42.5°	6340.7	4793.1	875.7	474.3	437.9	415.4	411.1	407.8	398.1	392.8	393.9
45°	6973.8	5115.0	682.5	435.8	402.4	384.3	377.7	369.2	353.1	342.3	343.5
47.5°	7539.5	5362.9	554.8	398.1	370.3	356.3	346.6	330.5	306.9	294.1	295.1
50°	7836.7	5400.5	472.2	360.6	340.2	326.2	312.3	287.7	259.7	245.7	244.7
52.5°	7912.9	5224.5	411.1	326.2	310.2	294.1	275.8	242.6	211.5	196.4	194.2
55°	7940.9	4956.2	356.3	294.1	278.0	259.7	236.1	198.5	169.5	154.5	153.4
57.5°	7848.6	4555.8	313.4	265.1	245.7	223.2	194.2	158.8	131.0	119.1	119.1
60°	7643.5	4013.9	280.1	234.0	212.5	186.8	156.7	123.4	97.6	88.0	88.0
62.5°	7234.7	3312.0	249.0	201.8	181.4	154.5	126.6	93.3	68.7	63.3	64.4
65°	6463.0	2512.5	217.9	172.8	154.5	127.7	98.7	66.5	46.1	46.1	48.3
67.5°	5270.6	1745.1	185.7	147.0	133.1	104.1	75.1	46.1	32.2	36.5	40.8
70°	3489.1	978.8	158.8	121.3	113.7	82.6	55.8	31.1	25.8	34.4	41.8
72.5°	1316.8	381.0	133.1	97.6	98.7	63.3	39.7	23.6	23.6	37.5	49.4
75°	367.0	186.8	95.5	71.9	77.3	46.1	29.0	20.4	22.5	42.9	57.9
77.5°	215.7	137.4	62.2	41.8	52.6	32.2	19.3	16.1	19.3	36.5	55.8
80°	173.8	72.9	36.5	21.4	29.0	18.3	12.9	9.7	5.4	14.0	29.0
82.5°	173.8	44.0	17.1	15.0	15.0	9.7	6.4	4.3	1.1	0.0	7.5
85°	117.0	18.3	10.7	9.7	7.5	3.3	2.1	1.1	0.0	0.0	0.0
87.5°	19.3	7.5	4.3	2.1	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)