

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: P652641

Luminaire Tested: **GALN-SA9B-840-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31383.6 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

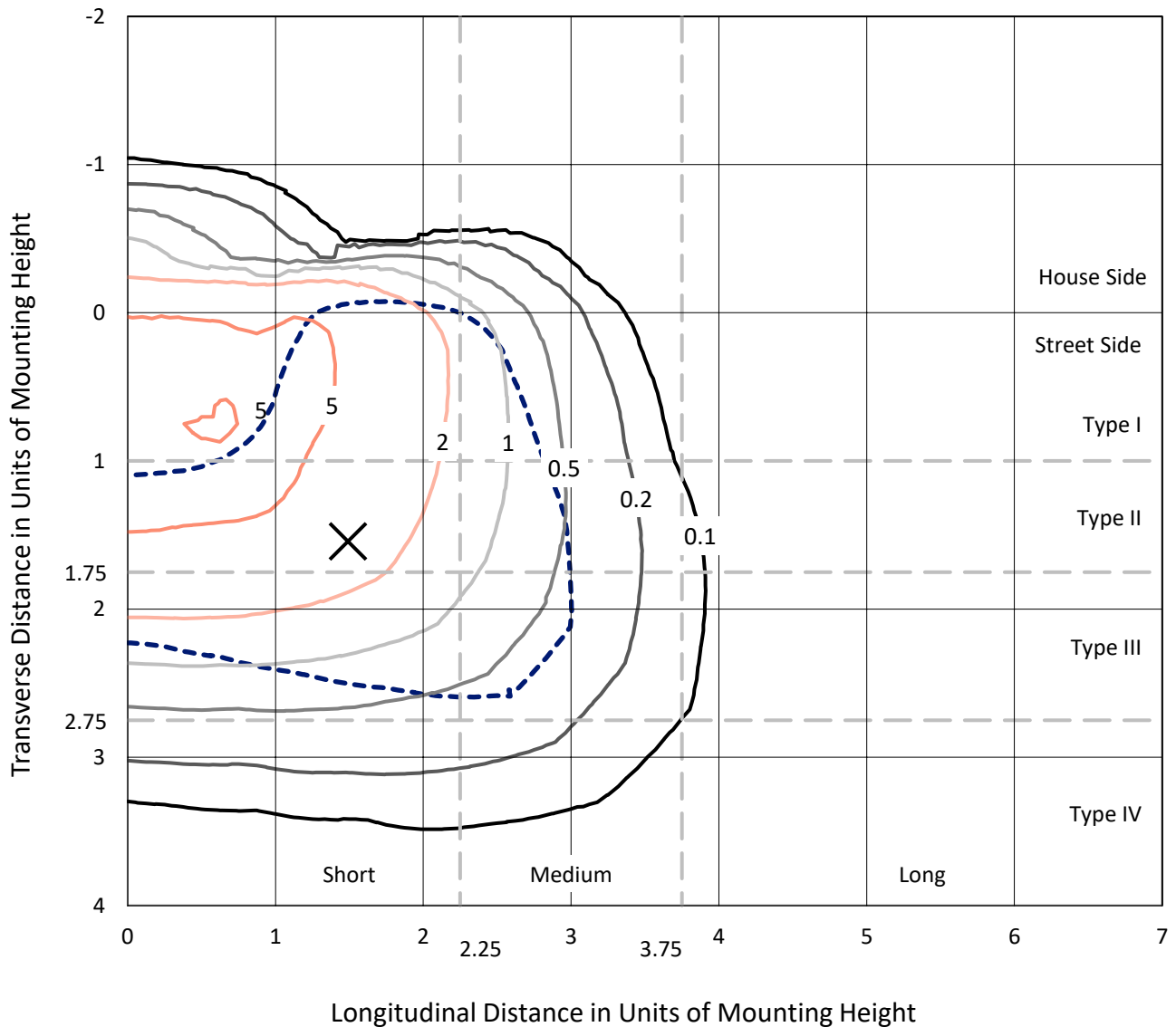
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

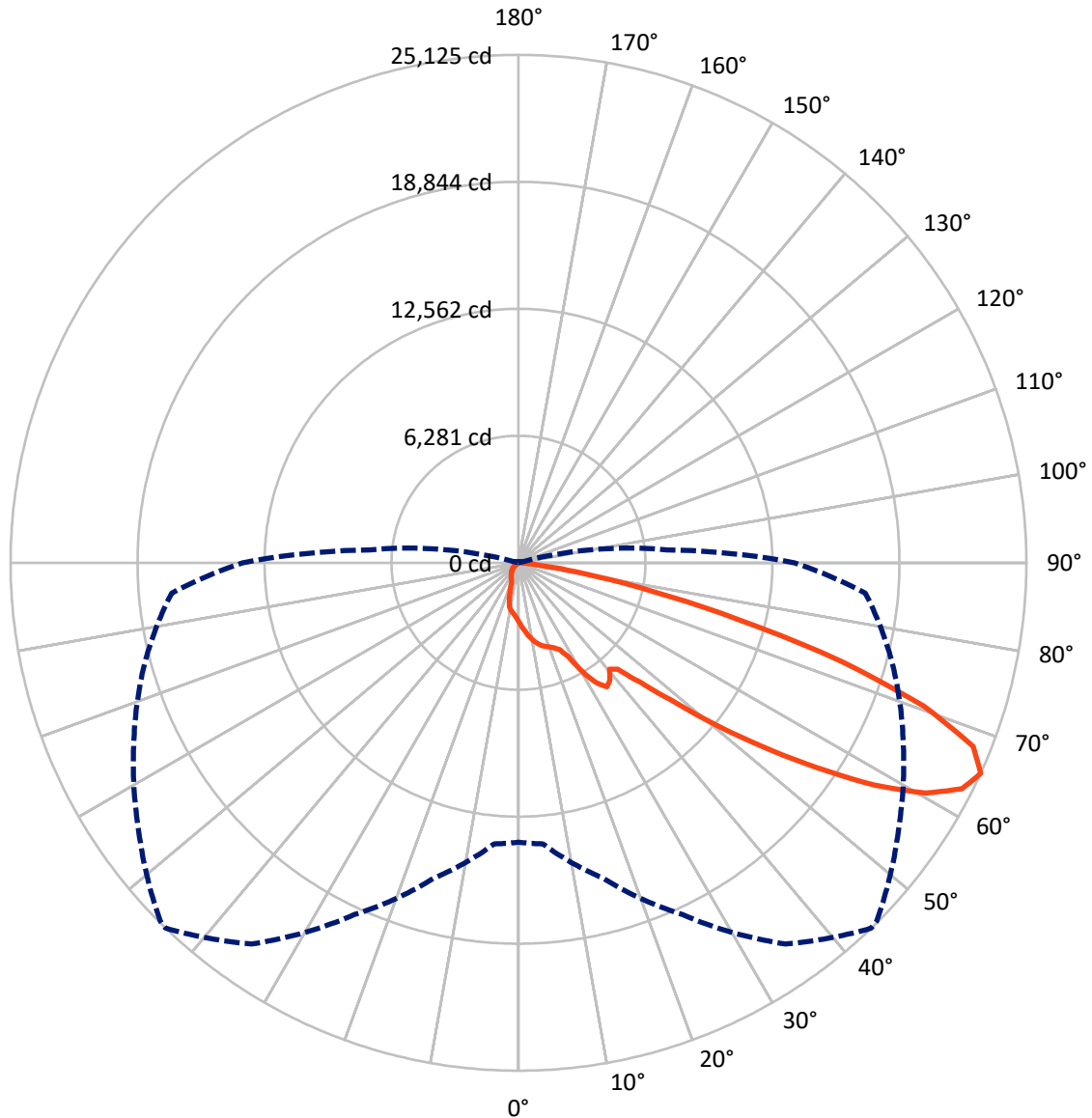
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2891.5	0.0	2891.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	28492.1	0.0	28492.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	31383.6	0.0	31383.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	0.9
10°-20°	874.3	2.8
20°-30°	1482.6	4.7
30°-40°	2465.0	7.9
40°-50°	4304.0	13.7
50°-60°	8408.5	26.8
60°-70°	9755.8	31.1
70°-80°	3552.6	11.3
80°-90°	250.3	0.8
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°	31383.6	100.0
0°-180°	31383.6	100.0

Coefficient of Utilization

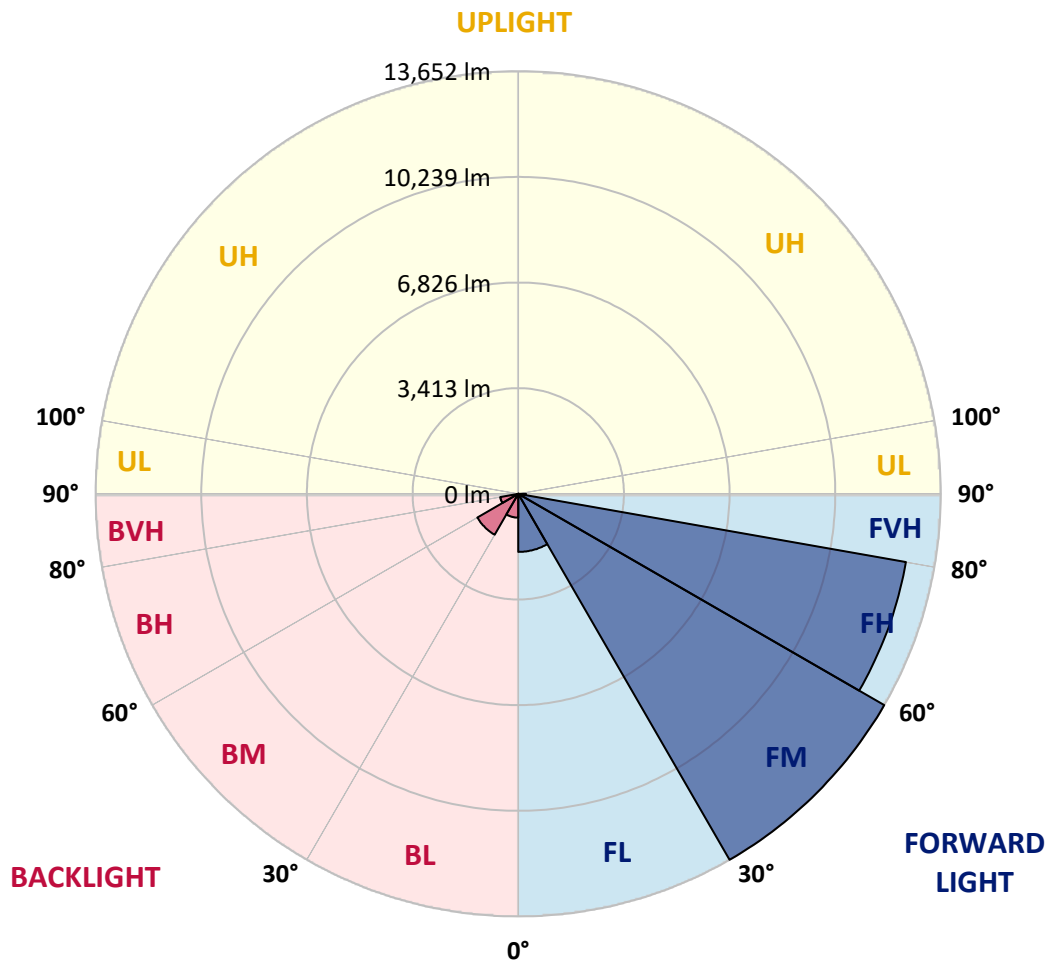


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.0	6.0			
FM (30°-60°)	13651.9	43.5			
FH (60°-80°)	12716.2	40.5			G5
FVH (80°-90°)	246.9	0.8			G3/500
BL (0°-30°)	770.4	2.5	B2/1000		
BM (30°-60°)	1525.6	4.9	B2/2500		
BH (60°-80°)	592.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.4	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9
2.5°	3287.8	3273.4	3266.2	3227.8	3199.1	3163.1	3163.1	3117.5	3064.8	3007.2	2954.4
5°	3654.7	3630.7	3599.6	3565.9	3498.8	3402.9	3402.9	3307.0	3196.6	3098.3	2990.4
7.5°	4007.2	3985.7	3932.9	3868.1	3757.8	3657.1	3649.9	3510.8	3378.9	3230.2	3076.7
10°	4316.6	4299.8	4254.2	4129.5	4014.4	3882.5	3880.1	3724.2	3570.8	3388.5	3199.1
12.5°	4532.4	4534.8	4474.9	4355.0	4206.3	4081.5	4072.0	3918.5	3757.8	3561.1	3328.6
15°	4685.9	4685.9	4623.5	4489.3	4355.0	4244.6	4235.0	4100.7	3935.3	3721.8	3470.1
17.5°	4729.0	4743.4	4676.3	4556.4	4448.5	4352.5	4350.2	4237.5	4105.5	3899.3	3613.9
20°	4712.3	4726.7	4673.9	4580.3	4506.0	4450.8	4443.7	4398.1	4275.8	4081.5	3767.4
22.5°	4676.3	4690.7	4652.3	4597.2	4561.2	4578.0	4566.0	4604.3	4539.5	4304.6	3949.7
25°	4683.4	4697.8	4669.1	4637.9	4669.1	4772.2	4803.4	4968.9	4911.3	4587.6	4146.3
27.5°	4908.9	4937.7	4896.9	4911.3	5021.6	5261.4	5321.3	5606.8	5352.5	4947.3	4453.3
30°	5410.1	5390.9	5314.2	5383.7	5767.4	6275.8	6259.1	6213.5	5815.3	5362.1	4817.8
32.5°	5865.7	5849.0	5844.2	6143.9	6839.3	7086.4	7074.4	6633.1	6230.2	5837.0	5177.4
35°	6050.4	5985.6	5971.3	6697.9	7860.9	7534.8	7460.4	6805.8	6733.8	6354.9	5544.4
37.5°	6606.7	6561.1	6338.2	6789.0	7453.3	7345.4	7287.8	7103.2	7271.0	6812.9	5959.2
40°	7753.0	7625.9	7424.5	6983.2	6875.3	6920.9	6978.4	7484.5	7906.5	7438.9	6513.2
42.5°	9177.5	9148.7	8774.7	7952.1	7144.0	7206.3	7280.6	8280.7	8820.2	8381.3	7417.3
45°	10887.3	10928.1	10388.5	9417.3	8357.4	8410.1	8518.0	9455.7	10057.6	9846.6	8839.3
47.5°	12441.3	12410.1	12227.9	11218.3	10239.8	10122.4	10297.4	10964.1	11769.9	11803.4	10604.3
50°	14004.8	14170.3	13899.4	13503.7	12777.1	12530.1	12465.3	12791.4	14019.2	13858.6	12724.2
52.5°	16251.9	16338.2	15829.8	15729.1	15894.6	15093.6	15028.8	15108.0	16206.3	15654.7	14311.8
55°	17664.4	17614.0	17424.5	18211.1	18865.8	17865.8	17784.3	17465.3	18021.7	16923.4	15839.4
57.5°	18110.4	18182.3	18623.6	20045.7	21594.9	20745.9	20597.2	19690.8	19331.1	18105.6	17244.7
60°	17911.4	18043.2	18995.3	21110.4	23259.1	23132.0	23004.9	21482.1	20271.0	19093.6	18230.3
62.5°	16494.1	16678.7	18201.5	20921.0	23822.7	24616.4	24458.1	22599.6	20897.0	19573.3	18402.9
65°	13822.6	13959.3	16146.4	19201.5	23021.7	25124.8	25067.3	22949.7	20995.3	19134.3	17220.7
67.5°	9853.7	10319.0	12345.4	16182.4	20652.4	24256.7	24355.0	22530.1	20072.1	17237.5	14261.4
70°	6194.3	6510.9	7964.1	11585.2	16556.4	21280.7	21604.4	20609.2	17419.7	13436.5	9546.8
72.5°	2954.4	3189.5	4225.4	7333.4	11685.9	16743.5	17000.1	16918.6	13470.1	8465.3	4925.7
75°	1316.6	1405.3	2016.8	3743.5	7544.4	11254.3	11918.5	12028.8	8417.3	4141.5	1916.1
77.5°	671.5	673.9	944.9	1812.9	3767.4	6714.6	6846.6	7232.7	4563.6	1825.0	666.7
80°	357.3	381.3	501.2	856.1	1954.5	3307.0	3290.2	3616.3	2024.0	894.5	223.0
82.5°	160.6	177.5	283.0	448.4	954.5	1254.2	1352.5	1479.7	868.1	570.8	98.3
85°	47.9	57.5	139.1	225.4	345.3	362.1	405.3	522.8	491.6	405.3	50.4
87.5°	7.2	7.2	57.5	62.3	50.4	64.8	67.1	74.3	158.3	148.7	26.4
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°	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9	2920.9
2.5°	2925.7	2908.9	2849.0	2798.6	2755.4	2729.0	2697.8	2678.7	2669.1	2661.8	2664.3
5°	2937.7	2896.9	2793.8	2712.2	2649.9	2582.7	2537.2	2510.8	2498.8	2479.6	2479.6
7.5°	3004.8	2940.1	2796.2	2671.4	2563.5	2472.5	2386.1	2355.0	2333.4	2328.6	2323.8
10°	3100.8	3019.2	2822.6	2649.9	2496.4	2371.7	2249.4	2141.5	2057.6	2007.2	2000.0
12.5°	3220.6	3103.1	2863.4	2635.5	2438.9	2218.2	1894.5	1676.3	1529.9	1484.4	1491.6
15°	3330.9	3203.9	2904.1	2623.5	2333.4	1839.4	1472.4	1223.1	1148.7	1141.5	1143.9
17.5°	3462.8	3311.8	2952.1	2606.8	2043.2	1405.3	1093.6	1026.4	1040.7	1064.8	1062.4
20°	3599.6	3426.9	3009.6	2506.0	1630.7	1057.6	966.4	973.6	995.2	1016.8	1021.6
22.5°	3745.8	3558.8	3076.7	2263.8	1244.6	920.9	916.1	925.7	947.2	971.2	976.1
25°	3947.2	3724.2	3127.1	1947.3	942.4	851.3	860.9	877.7	896.9	923.2	928.0
27.5°	4206.3	3947.2	3153.5	1534.7	815.3	788.9	791.4	815.3	839.3	863.3	863.3
30°	4542.0	4213.4	3100.8	1160.7	753.0	729.0	719.4	733.9	765.0	788.9	791.4
32.5°	4841.7	4465.3	2961.7	887.3	707.4	673.9	649.9	652.3	664.3	678.7	681.0
35°	5141.5	4709.9	2724.3	745.8	659.5	621.1	585.2	565.9	556.3	549.2	556.3
37.5°	5525.2	5014.4	2407.7	678.7	618.7	570.8	520.4	479.6	446.1	424.5	429.2
40°	6019.2	5436.5	2033.6	635.5	580.4	522.8	455.7	402.8	345.3	326.1	316.6
42.5°	6834.6	6076.7	1640.3	599.5	541.9	472.4	388.5	316.6	263.8	244.6	249.4
45°	8122.4	6884.9	1263.8	561.1	503.6	417.3	326.1	249.4	206.2	196.6	201.4
47.5°	9829.8	7930.5	973.6	518.0	455.7	357.3	256.6	196.6	170.3	167.9	165.5
50°	11436.5	8904.1	813.0	470.0	398.0	297.4	211.0	165.5	148.7	146.2	146.2
52.5°	12889.8	9601.9	661.9	414.9	335.7	244.6	177.5	146.2	131.9	124.7	124.7
55°	14182.3	10057.6	537.1	347.8	263.8	194.3	153.5	131.9	115.1	105.5	103.1
57.5°	15158.4	10112.8	402.8	278.2	196.6	151.0	131.9	115.1	96.0	83.9	79.1
60°	15575.6	9635.5	297.4	211.0	146.2	119.9	105.5	93.5	71.9	60.0	57.5
62.5°	15155.9	8707.5	220.6	160.6	112.7	88.7	74.3	69.6	50.4	36.0	33.6
65°	13652.4	7366.9	175.1	122.3	83.9	64.8	47.9	45.6	31.2	16.8	14.4
67.5°	10937.7	5769.8	139.1	91.2	60.0	43.1	31.2	28.8	16.8	4.8	4.8
70°	7112.8	3688.3	112.7	67.1	38.3	28.8	19.2	14.4	9.6	2.4	0.0
72.5°	3518.0	1724.2	91.2	52.7	26.4	14.4	7.2	4.8	7.2	0.0	0.0
75°	1364.5	613.9	67.1	36.0	14.4	7.2	4.8	0.0	2.4	0.0	0.0
77.5°	453.2	203.9	40.8	19.2	9.6	4.8	0.0	0.0	0.0	0.0	0.0
80°	167.9	79.1	21.6	12.0	4.8	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	67.1	31.2	14.4	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.6	19.2	9.6	7.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.0	14.4	9.6	7.2	4.8	2.4	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)