

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: P648373

Luminaire Tested: **GALN-SA4B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10307.4 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

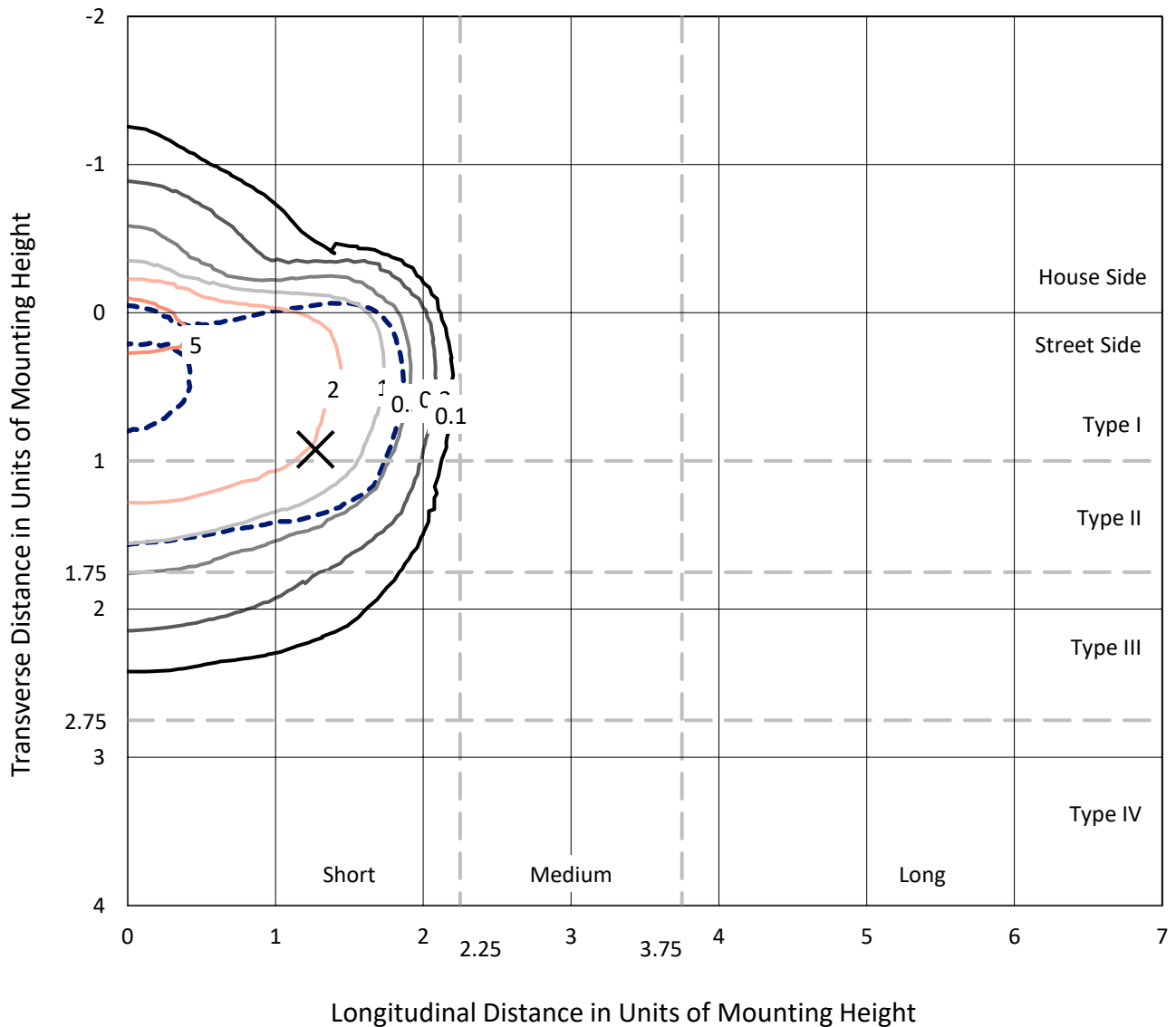
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

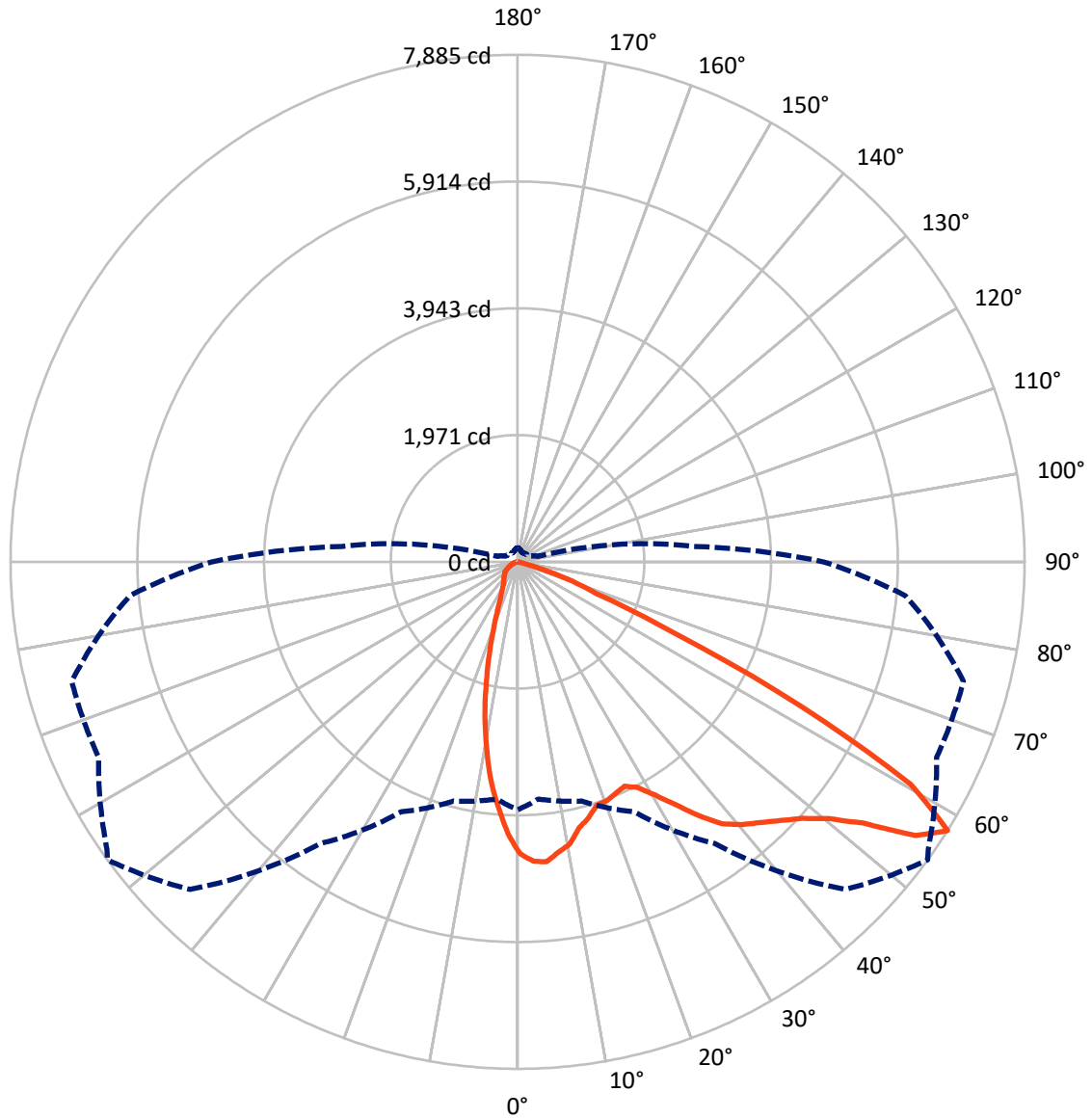
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1456.6	0.0	1456.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8850.8	0.0	8850.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	10307.4	0.0	10307.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.0	3.7
10°-20°	811.2	7.9
20°-30°	1075.0	10.4
30°-40°	1562.3	15.2
40°-50°	2316.7	22.5
50°-60°	2896.9	28.1
60°-70°	1142.7	11.1
70°-80°	113.8	1.1
80°-90°	8.8	0.1
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°	10307.4	100.0
0°-180°	10307.4	100.0

Coefficient of Utilization



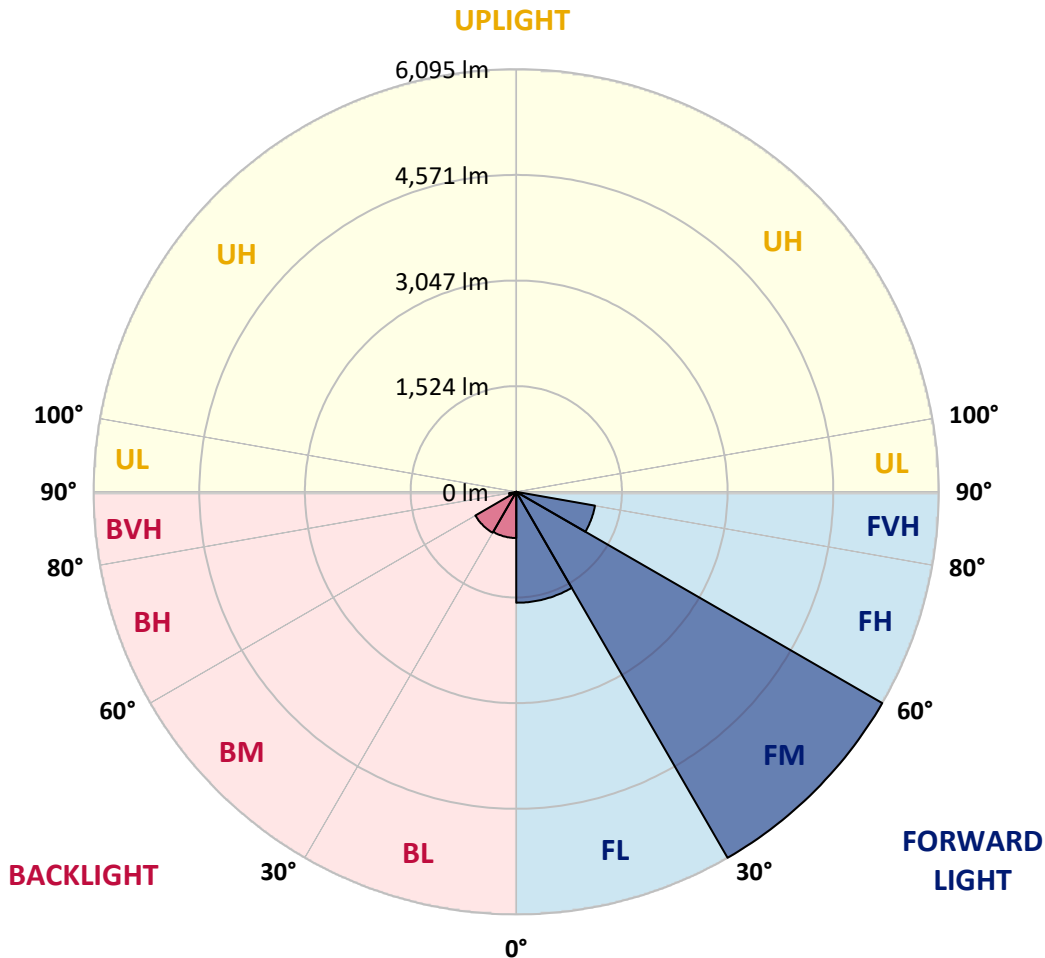
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1600.0	15.5			
FM (30°-60°)	6094.7	59.1			
FH (60°-80°)	1152.0	11.2			G1/1800
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	666.2	6.5	B2/1000		
BM (30°-60°)	681.1	6.6	B1/1000		
BH (60°-80°)	104.4	1.0	B0/110		G0/110
BVH (80°-90°)	4.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5
2.5°	4805.0	4755.2	4759.1	4741.8	4718.8	4736.1	4661.3	4678.6	4676.6	4575.1	4508.0
5°	4684.3	4737.9	4682.4	4728.4	4684.3	4732.2	4686.3	4651.7	4596.1	4521.4	4396.8
7.5°	4479.2	4427.5	4442.8	4500.3	4509.9	4617.2	4559.7	4603.8	4580.8	4433.2	4262.7
10°	4067.1	4055.6	4132.3	4208.9	4302.9	4417.9	4462.0	4437.0	4419.8	4364.2	4136.1
12.5°	3750.9	3783.5	3781.6	3908.0	4067.1	4132.3	4247.3	4243.5	4339.3	4235.8	4017.3
15°	3450.0	3467.2	3547.7	3626.3	3802.6	3988.5	4130.4	4149.6	4264.5	4191.7	3925.3
17.5°	3266.0	3241.1	3304.3	3398.2	3578.4	3821.8	3979.0	4025.0	4182.2	4166.8	3819.9
20°	3083.9	3083.9	3135.7	3246.8	3411.6	3685.7	3965.6	3952.1	4182.2	4138.1	3706.8
22.5°	3022.5	3053.2	3066.6	3150.9	3346.5	3582.2	3908.0	3933.0	4214.7	4124.6	3657.0
25°	3106.9	3066.6	3070.5	3137.6	3321.6	3532.4	3865.9	3921.5	4274.2	4191.7	3616.8
27.5°	3120.3	3160.6	3172.1	3218.1	3340.7	3547.7	3971.3	4084.4	4421.8	4348.9	3628.3
30°	3237.2	3277.5	3275.5	3354.1	3438.5	3672.3	4207.1	4230.1	4726.5	4546.3	3699.1
32.5°	3379.0	3421.2	3434.6	3526.6	3593.7	3900.4	4494.6	4554.0	5019.7	4856.8	3885.1
35°	3555.4	3540.0	3601.4	3693.4	3837.2	4233.9	4845.3	4945.0	5336.0	5259.3	4076.7
37.5°	3775.8	3756.7	3816.0	3965.6	4161.0	4628.7	5169.2	5234.4	5566.0	5633.1	4431.3
40°	3931.1	3938.7	4118.9	4320.1	4527.1	5004.4	5374.3	5437.5	5726.9	5981.9	4699.6
42.5°	4189.8	4237.8	4454.3	4699.6	4916.2	5286.1	5541.1	5602.4	5801.7	6261.7	5061.9
45°	4565.4	4544.4	4784.0	5058.0	5297.6	5579.3	5738.5	5717.4	5845.8	6539.6	5289.9
47.5°	5048.5	5052.3	5211.4	5445.2	5694.4	5834.3	5958.9	5884.2	5937.8	6832.8	5594.7
50°	5378.1	5406.8	5535.3	5774.9	5899.4	6114.1	6273.2	6227.2	6210.0	7009.2	5786.4
52.5°	5462.4	5548.7	5617.7	5916.7	6208.0	6547.3	6750.5	6848.2	6541.6	7068.6	6029.8
55°	4826.1	4902.8	5146.2	5556.4	6325.0	7233.4	7513.3	7515.2	6974.7	7333.1	6200.3
57.5°	3858.2	3703.0	3852.4	4287.6	5347.5	7204.7	7885.1	7795.0	7191.3	7177.8	6052.8
60°	2668.0	2629.6	2639.3	2811.8	3701.1	5730.8	7026.5	7143.4	6622.1	6221.5	4791.6
62.5°	2114.1	2081.4	2039.3	2020.1	2298.1	3570.7	4956.5	5121.3	4630.7	4034.6	2840.5
65°	1656.0	1636.9	1642.6	1719.2	1717.4	2025.9	2710.1	2643.1	2116.0	1564.0	893.2
67.5°	1117.4	1146.2	1169.2	1401.1	1519.9	1410.7	1309.1	1270.7	688.1	289.4	197.4
70°	628.7	632.5	657.4	875.9	1153.8	1094.4	902.7	902.7	343.1	105.4	113.1
72.5°	343.1	331.6	308.6	377.6	513.6	521.3	402.5	350.8	101.6	69.0	63.3
75°	166.8	164.8	141.8	116.9	111.2	92.0	70.9	65.1	46.0	44.1	38.4
77.5°	34.5	32.6	17.2	17.2	19.2	21.1	26.9	26.9	32.6	32.6	26.9
80°	0.0	0.0	1.9	7.7	13.4	19.2	23.0	23.0	26.9	26.9	21.1
82.5°	0.0	0.0	1.9	5.7	11.5	17.2	21.1	23.0	26.9	28.7	23.0
85°	0.0	0.0	0.0	3.8	9.6	13.4	11.5	11.5	9.6	7.7	3.8
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5	4540.5
2.5°	4473.4	4469.6	4381.4	4331.6	4241.6	4163.0	4099.7	4053.7	4053.7	4025.0	3998.2
5°	4347.0	4314.4	4126.6	4005.8	3835.2	3708.8	3622.5	3555.4	3450.0	3478.7	3365.6
7.5°	4189.8	4107.4	3858.2	3674.2	3438.5	3258.3	3074.3	2911.4	2754.2	2683.3	2721.6
10°	4021.2	3877.4	3542.0	3250.6	2957.4	2627.7	2413.0	2152.4	1991.4	1981.9	1939.6
12.5°	3842.9	3679.9	3271.8	2869.2	2484.0	2087.2	1759.5	1516.0	1406.8	1286.1	1309.1
15°	3708.8	3467.2	2970.8	2485.9	1974.2	1573.6	1243.9	1056.1	952.6	923.9	914.2
17.5°	3563.0	3304.3	2664.2	2077.7	1548.7	1132.8	895.0	805.0	764.8	764.8	759.0
20°	3411.6	3120.3	2359.4	1698.2	1161.5	845.2	716.8	688.1	686.1	684.3	684.3
22.5°	3312.0	2909.5	2083.4	1349.3	875.9	676.6	622.9	611.4	619.1	642.1	642.1
25°	3206.5	2706.3	1778.7	1040.8	678.5	580.8	550.1	557.7	576.9	598.0	590.3
27.5°	3099.2	2574.0	1491.1	816.5	555.9	507.9	496.4	513.6	534.7	553.9	548.2
30°	3074.3	2432.2	1219.0	619.1	477.2	442.7	450.4	465.7	486.8	494.5	502.1
32.5°	3112.7	2321.0	998.6	507.9	415.9	406.3	406.3	414.0	427.4	444.7	438.9
35°	3221.9	2257.8	789.7	440.8	381.4	371.8	369.9	377.6	385.2	391.0	385.2
37.5°	3388.7	2208.0	645.9	391.0	358.4	343.1	339.3	337.3	345.0	346.9	350.8
40°	3601.4	2234.8	548.2	360.3	335.4	318.1	306.7	306.7	306.7	312.4	314.3
42.5°	3831.4	2271.2	473.4	343.1	314.3	293.2	281.7	277.9	281.7	289.4	287.5
45°	4072.9	2342.2	425.5	316.3	295.2	268.3	253.0	249.2	258.8	274.0	272.2
47.5°	4299.1	2443.7	389.1	299.0	276.0	251.1	231.9	228.1	245.3	266.4	268.3
50°	4525.2	2620.1	375.7	285.6	262.6	233.8	216.6	212.7	231.9	258.8	264.5
52.5°	4785.9	2809.8	366.1	268.3	247.3	220.4	201.2	197.4	218.5	253.0	254.9
55°	4956.5	2970.8	358.4	237.6	218.5	199.4	184.0	182.0	205.1	235.8	243.4
57.5°	4757.1	2746.5	331.6	207.0	185.9	176.3	162.9	162.9	182.0	210.9	216.6
60°	3607.1	1807.4	235.8	166.8	157.1	151.4	145.6	145.6	161.0	182.0	184.0
62.5°	2112.1	973.7	151.4	134.1	134.1	128.4	118.9	118.9	134.1	145.6	147.6
65°	626.7	312.4	122.7	115.0	113.1	103.5	93.9	92.0	103.5	109.2	107.3
67.5°	180.2	143.8	101.6	95.8	93.9	78.6	72.8	70.9	72.8	69.0	67.1
70°	107.3	97.7	78.6	80.5	70.9	57.5	51.8	49.8	46.0	40.2	36.4
72.5°	59.4	59.4	57.5	61.3	49.8	38.4	32.6	26.9	21.1	17.2	15.3
75°	36.4	38.4	40.2	42.2	32.6	24.9	21.1	13.4	7.7	3.8	3.8
77.5°	24.9	26.9	28.7	30.7	26.9	23.0	17.2	9.6	1.9	0.0	0.0
80°	19.2	21.1	24.9	26.9	28.7	30.7	23.0	9.6	1.9	0.0	0.0
82.5°	21.1	23.0	28.7	26.9	26.9	26.9	21.1	9.6	1.9	0.0	0.0
85°	3.8	5.7	9.6	9.6	13.4	17.2	13.4	3.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)