

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: P458777

Luminaire Tested: **GALN-SA3B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12964 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

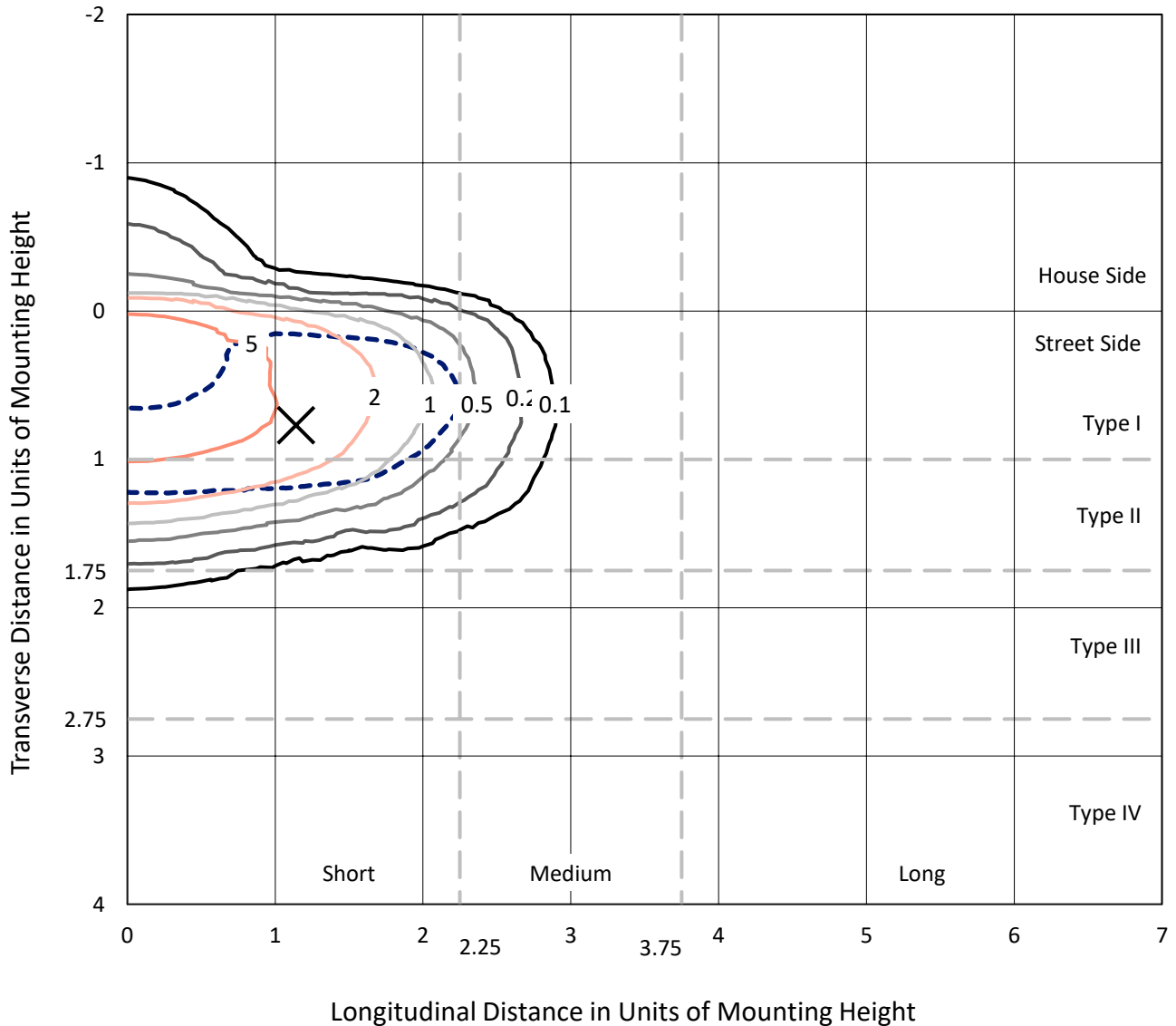
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

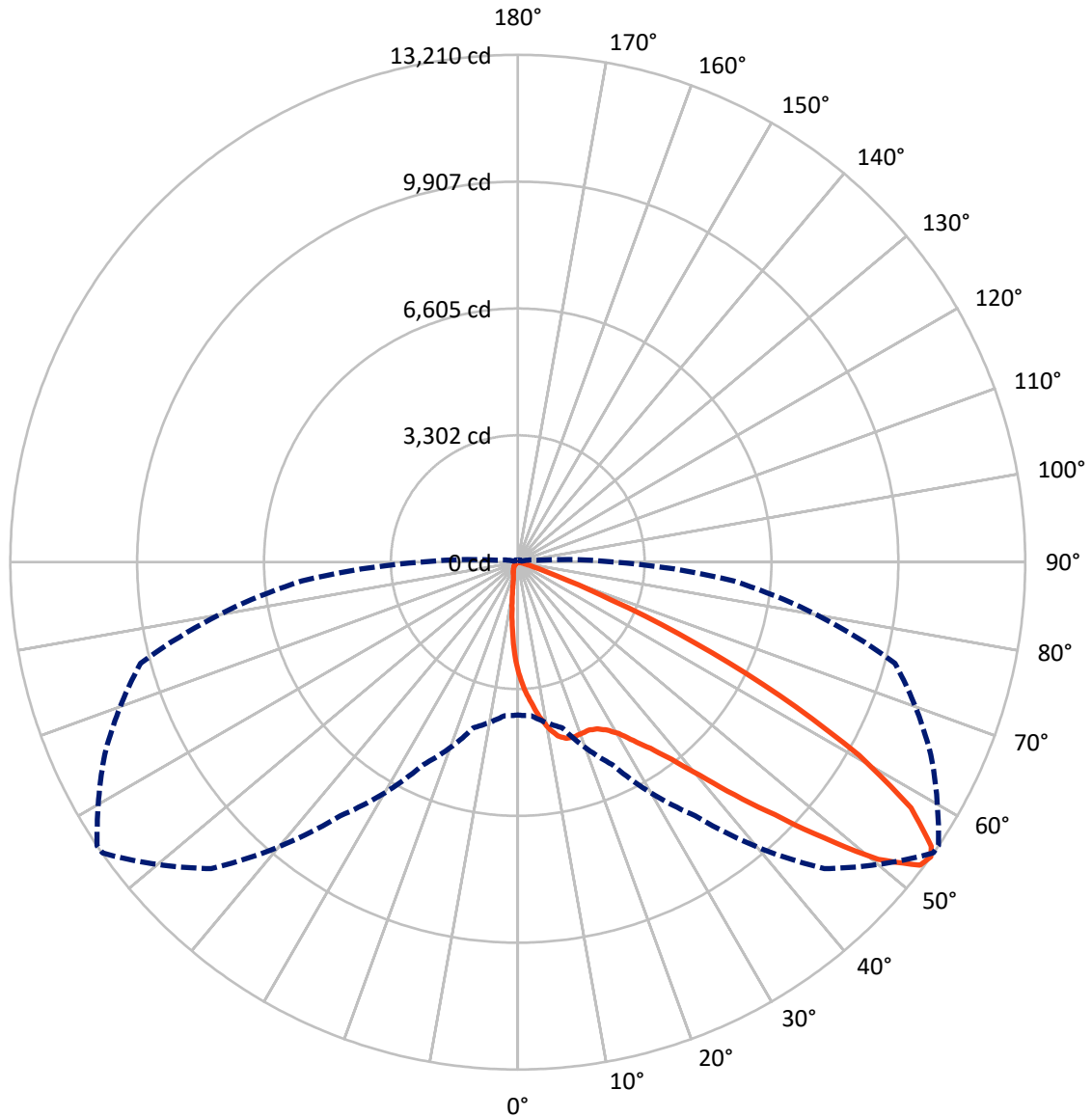
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	613.0	0.0	613.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	12351.0	0.0	12351.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	12964.0	0.0	12964.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.5	2.0
10°-20°	688.0	5.3
20°-30°	1191.6	9.2
30°-40°	2056.9	15.9
40°-50°	3501.0	27.0
50°-60°	3464.6	26.7
60°-70°	1581.3	12.2
70°-80°	203.1	1.6
80°-90°	22.9	0.2
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°	12964.0	100.0
0°-180°	12964.0	100.0



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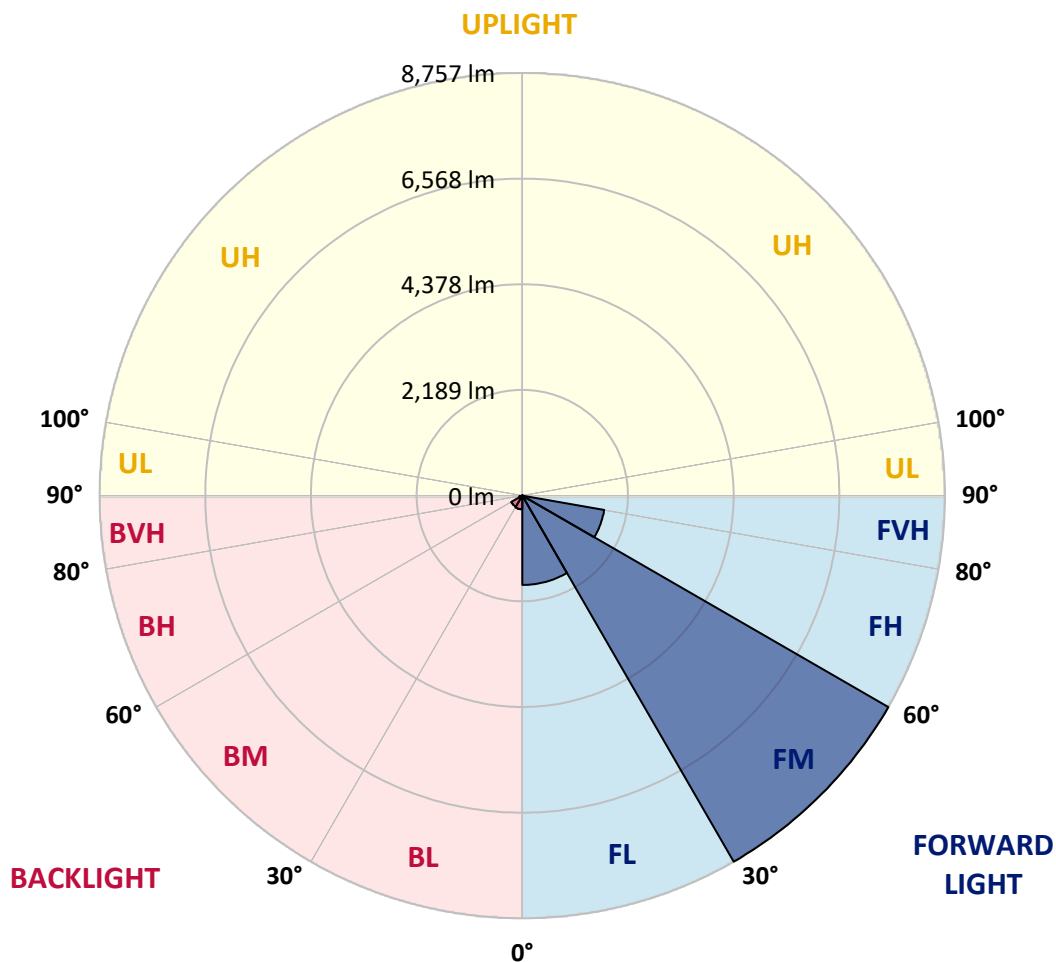
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1850.7	14.3			
FM	(30°-60°)	8756.9	67.5			
FH	(60°-80°)	1723.0	13.3			G1/1800
FVH	(80°-90°)	20.4	0.2			G1/100
BL	(0°-30°)	283.5	2.2	B1/500		
BM	(30°-60°)	265.7	2.0	B1/1000		
BH	(60°-80°)	61.4	0.5	B0/110		G0/110
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2
2.5°	3660.4	3635.1	3600.1	3573.0	3509.1	3417.3	3320.2	3320.2	3226.6	3096.3	2963.3
5°	4221.9	4205.3	4171.2	4101.2	4029.5	3900.9	3705.9	3671.8	3504.7	3268.6	3020.2
7.5°	4450.2	4458.1	4459.8	4441.5	4407.4	4280.5	4087.2	4063.6	3796.9	3480.2	3094.5
10°	4231.6	4270.0	4307.7	4383.8	4491.3	4521.9	4412.6	4388.1	4125.7	3694.5	3175.0
12.5°	3906.2	3927.2	3948.2	4068.0	4284.0	4531.6	4646.1	4645.3	4423.1	3907.9	3277.3
15°	3754.9	3773.2	3775.0	3828.4	4015.5	4375.9	4745.9	4759.0	4713.5	4171.2	3387.5
17.5°	3786.4	3801.2	3789.0	3802.1	3900.1	4204.5	4734.5	4778.2	4948.8	4424.0	3487.2
20°	3991.9	4020.8	3973.5	3936.8	3966.5	4159.0	4696.0	4757.2	5115.0	4670.6	3578.2
22.5°	4361.0	4376.8	4317.3	4216.7	4164.2	4254.3	4685.5	4745.9	5256.7	4872.7	3630.7
25°	4771.2	4766.0	4700.4	4587.5	4477.3	4446.7	4754.6	4808.8	5373.9	5054.6	3646.4
27.5°	5181.4	5197.2	5087.0	4947.0	4815.0	4735.4	4909.4	4949.7	5505.9	5261.9	3665.7
30°	5658.1	5632.8	5524.3	5364.2	5212.9	5101.8	5158.7	5170.1	5687.9	5536.5	3716.4
32.5°	6278.3	6208.3	6086.7	5806.8	5698.4	5510.3	5524.3	5538.3	5909.1	5808.6	3777.6
35°	7119.7	7116.2	6878.3	6501.3	6237.1	6003.6	5942.4	5953.8	6244.1	6212.7	3913.2
37.5°	8132.5	8146.5	7875.4	7495.8	7009.5	6638.6	6512.7	6514.4	6753.2	6770.7	4119.6
40°	8957.3	8994.0	8832.2	8576.0	8095.8	7515.9	7304.2	7285.0	7468.7	7446.8	4414.4
42.5°	9312.4	9346.5	9406.9	9496.1	9231.9	8753.5	8254.1	8280.3	8336.3	8183.2	4745.0
45°	9138.4	9192.6	9429.6	9980.7	10229.1	10068.1	9472.5	9380.6	9143.6	8983.5	5077.4
47.5°	8413.3	8545.3	8941.6	9859.1	10728.5	11272.5	10847.4	10725.9	9951.8	9567.8	5289.0
50°	7221.1	7229.0	7780.9	8953.8	10469.6	12032.6	12251.2	12160.3	10704.9	9895.8	5395.7
52.5°	5234.8	5407.1	5912.6	7271.0	9348.3	11917.1	13146.0	13108.4	11481.6	10063.7	5549.7
54°	3979.7	4012.9	4462.5	5810.3	8059.9	11283.0	13201.1	13209.9	11867.3	10165.2	5640.6
55°	3262.5	3182.9	3655.2	4949.7	7180.9	10722.4	13020.9	13062.9	12040.5	10217.7	5708.0
57.5°	1546.4	1547.3	1908.5	2610.8	4497.5	8325.8	11919.8	12068.4	12059.7	10307.8	5915.3
60°	782.8	788.1	867.7	1205.3	2221.6	5534.8	9855.6	10209.8	11131.7	10320.9	5983.5
62.5°	547.5	541.4	528.3	579.9	935.0	2812.9	7337.5	7645.3	9457.6	9821.5	5766.6
65°	468.8	455.7	419.0	411.1	472.3	1120.4	4570.1	5072.1	7221.1	8504.2	5149.1
67.5°	400.6	395.3	362.1	342.0	334.1	488.1	2358.1	2622.2	4935.7	6112.9	3900.1
70°	340.2	337.6	317.5	292.1	270.3	292.1	874.7	1083.7	2750.8	3291.3	1840.3
72.5°	276.4	279.0	282.5	250.2	227.4	207.3	373.5	434.7	1151.0	1176.4	643.7
75°	242.3	239.7	239.7	217.8	189.8	153.9	205.5	221.3	352.5	327.1	149.6
77.5°	170.6	164.4	192.4	179.3	158.3	109.3	117.2	124.2	146.1	125.1	70.0
80°	118.1	118.1	123.3	160.9	142.6	79.6	71.7	77.0	86.6	74.3	40.2
82.5°	66.5	68.2	80.5	85.7	83.1	53.4	47.2	48.1	57.7	50.7	25.4
85°	7.9	13.1	46.4	45.5	34.1	23.6	26.2	27.1	35.9	31.5	14.9
87.5°	0.9	1.7	9.6	12.2	8.7	9.6	9.6	9.6	12.2	14.0	10.5
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°	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2	2880.2
2.5°	2891.6	2825.1	2666.8	2483.1	2365.9	2175.3	2014.3	1898.0	1869.1	1813.2	1829.8
5°	2888.1	2749.9	2427.2	2086.0	1722.2	1451.0	1249.0	1089.8	1019.8	973.5	941.1
7.5°	2889.8	2673.8	2156.0	1612.9	1178.2	912.3	725.1	628.0	563.3	536.2	539.7
10°	2895.1	2588.1	1841.1	1194.8	795.1	589.5	474.9	428.6	406.7	403.2	402.3
12.5°	2907.3	2494.5	1540.3	886.9	556.3	428.6	384.8	369.1	362.1	362.1	359.5
15°	2920.5	2391.3	1290.1	659.5	428.6	368.2	348.1	340.2	335.9	335.9	335.0
17.5°	2920.5	2272.3	1056.6	511.7	369.1	338.5	322.7	312.3	308.8	308.8	307.9
20°	2902.1	2134.2	849.3	412.0	335.0	310.5	294.8	283.4	279.0	277.3	276.4
22.5°	2838.2	1949.6	676.1	354.2	307.0	286.0	265.9	252.8	249.3	247.5	248.4
25°	2724.5	1741.4	535.3	311.4	281.6	256.3	238.8	229.2	225.7	225.7	226.5
27.5°	2607.3	1523.6	424.2	279.0	251.0	228.3	214.3	208.2	207.3	209.9	210.8
30°	2498.9	1305.0	343.7	252.8	223.9	204.7	195.0	193.3	193.3	194.2	195.0
32.5°	2378.2	1113.4	287.8	230.0	202.0	185.4	180.2	180.2	181.9	181.9	183.7
35°	2302.1	949.0	252.8	208.2	185.4	171.4	167.9	168.8	171.4	174.9	176.7
37.5°	2261.0	817.8	230.0	190.7	169.7	160.1	156.6	158.3	164.4	170.6	171.4
40°	2264.5	719.0	211.7	175.8	157.4	146.9	144.3	149.6	155.7	161.8	162.7
42.5°	2303.0	645.5	194.2	158.3	146.9	132.1	131.2	136.4	139.1	145.2	146.1
45°	2348.4	592.1	175.8	139.9	127.7	114.6	115.5	119.8	123.3	132.9	134.7
47.5°	2362.4	555.4	154.8	119.0	105.0	100.6	101.5	104.1	111.1	119.8	120.7
50°	2378.2	532.7	134.7	100.6	89.2	88.3	89.2	91.0	95.3	98.8	98.0
52.5°	2445.5	531.8	118.1	87.5	76.1	77.8	78.7	77.8	74.3	69.1	67.3
54°	2508.5	534.4	110.2	81.3	70.0	72.6	71.7	67.3	58.6	53.4	50.7
55°	2559.2	537.0	105.8	77.0	66.5	67.3	68.2	59.5	48.1	42.9	41.1
57.5°	2658.9	530.9	95.3	67.3	58.6	55.1	54.2	39.4	26.2	22.7	21.0
60°	2609.1	479.3	86.6	57.7	49.9	44.6	36.7	21.9	13.1	9.6	9.6
62.5°	2413.2	406.7	77.0	47.2	41.1	34.1	19.2	12.2	6.1	3.5	2.6
65°	2158.6	342.0	69.1	37.6	32.4	21.9	10.5	7.9	2.6	0.0	0.0
67.5°	1605.0	253.6	58.6	29.7	24.5	14.0	7.0	4.4	0.9	0.0	0.0
70°	743.5	154.8	49.9	22.7	17.5	10.5	5.2	2.6	0.0	0.0	0.0
72.5°	213.4	97.1	41.1	16.6	12.2	8.7	4.4	1.7	0.9	0.0	0.0
75°	74.3	77.8	30.6	12.2	9.6	6.1	3.5	1.7	0.9	0.0	0.0
77.5°	44.6	63.0	19.2	10.5	7.9	5.2	3.5	1.7	0.9	0.9	0.0
80°	25.4	42.0	12.2	8.7	7.0	4.4	2.6	1.7	0.9	0.9	0.0
82.5°	14.0	20.1	9.6	7.9	6.1	4.4	2.6	1.7	0.9	0.9	0.9
85°	11.4	10.5	7.9	7.0	5.2	3.5	2.6	0.9	0.0	0.0	0.0
87.5°	8.7	7.0	7.0	7.0	5.2	3.5	2.6	0.9	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)