

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: P455906

Luminaire Tested: **GALN-SA7A-827-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455906
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-SA7A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA 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: 19184 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

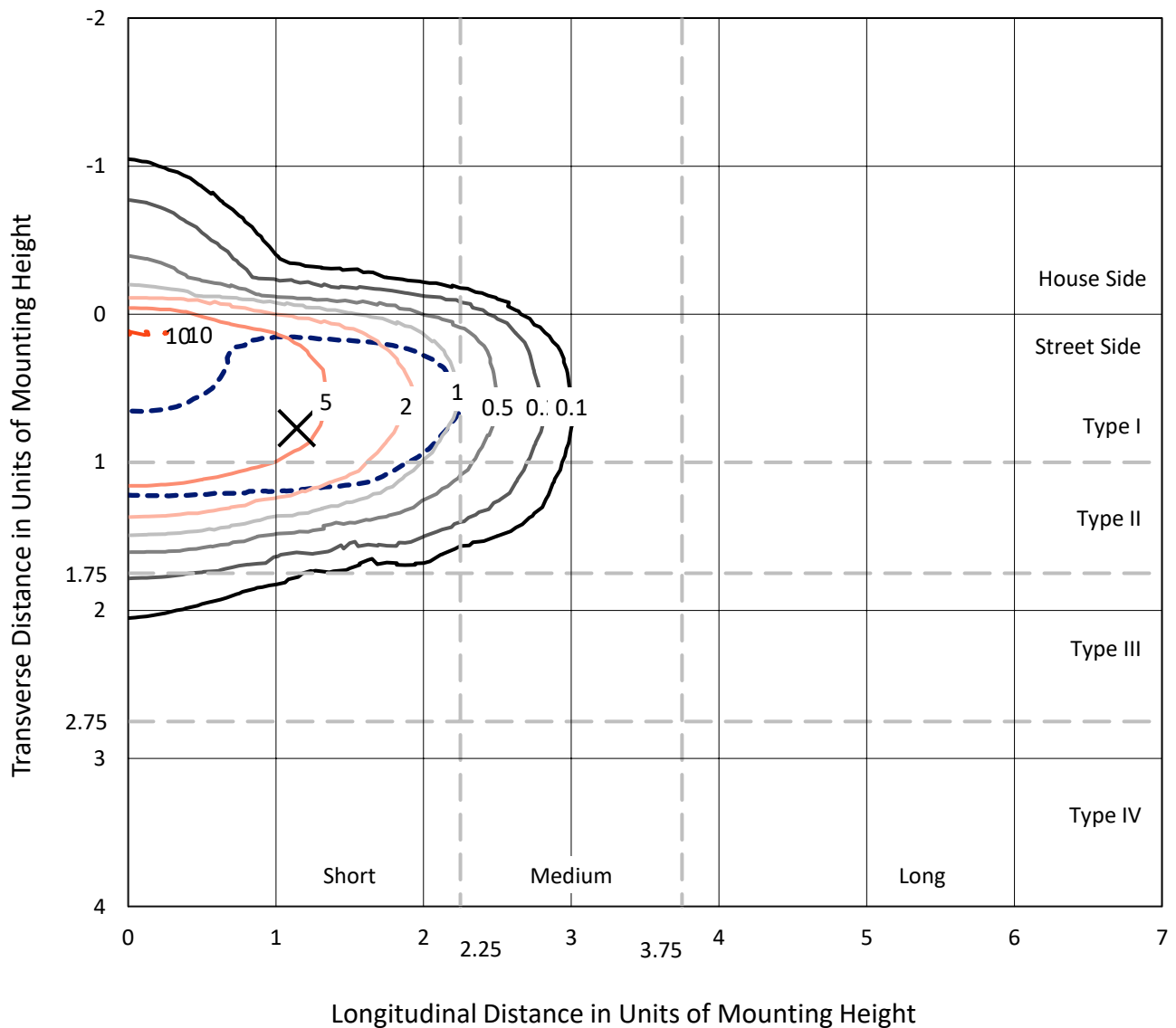
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

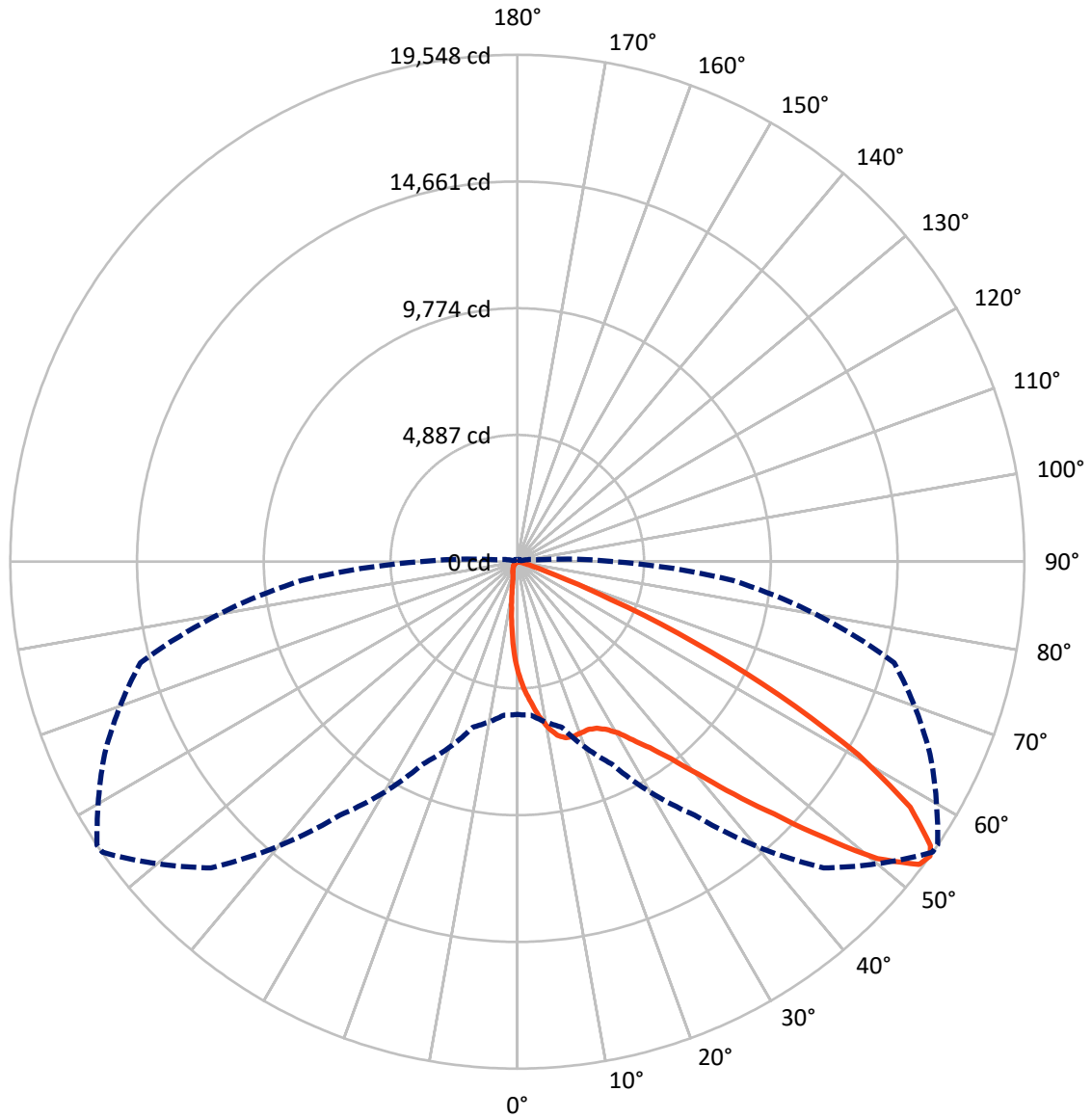
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	907.2	0.0	907.2
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18276.8	0.0	18276.8
	% Fixture	95.3	0.0	95.3
Total	Lumens	19184.0	0.0	19184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.6	2.0
10°-20°	1018.2	5.3
20°-30°	1763.3	9.2
30°-40°	3043.8	15.9
40°-50°	5180.7	27.0
50°-60°	5126.9	26.7
60°-70°	2340.0	12.2
70°-80°	300.5	1.6
80°-90°	33.9	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°	19184.0	100.0
0°-180°	19184.0	100.0

Coefficient of Utilization



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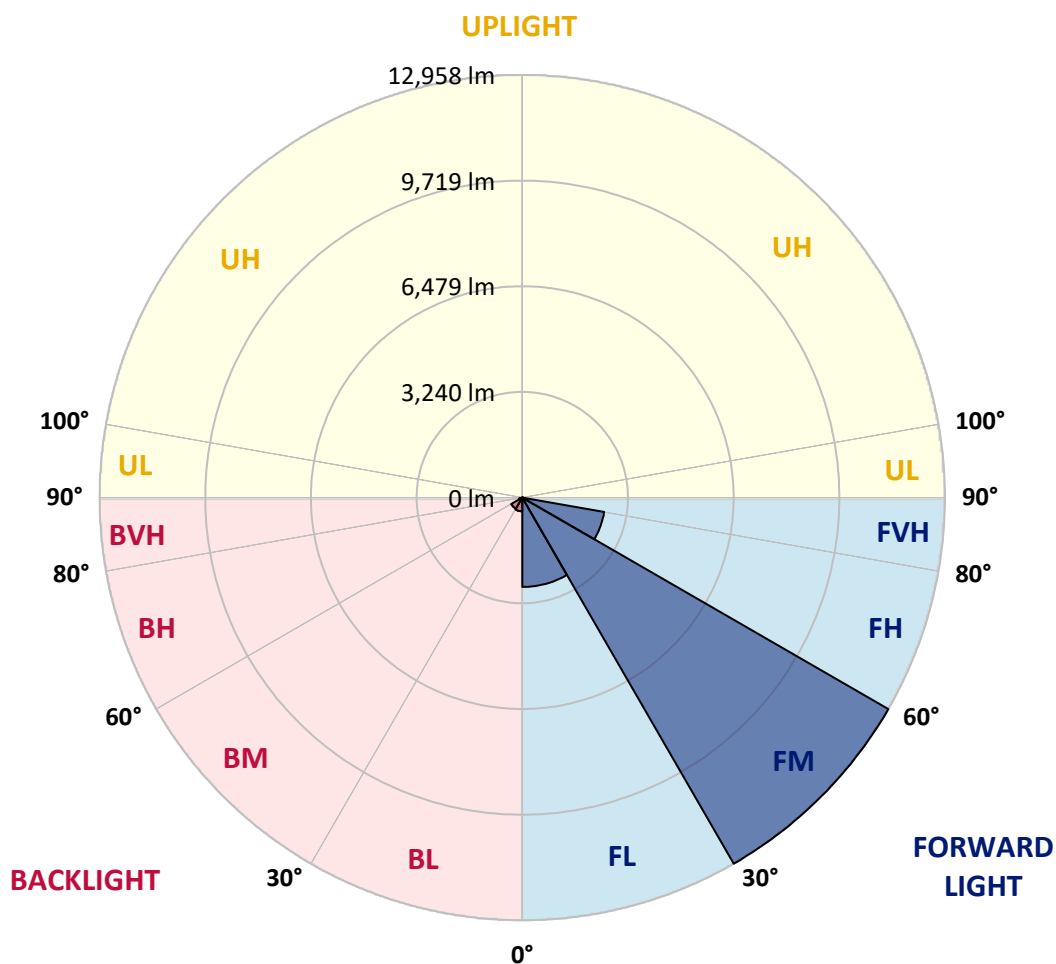
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.6	14.3			
FM (30°-60°)	12958.3	67.5			
FH (60°-80°)	2549.7	13.3			G2/5000
FVH (80°-90°)	30.2	0.2			G1/100
BL (0°-30°)	419.5	2.2	B1/500		
BM (30°-60°)	393.1	2.0	B1/1000		
BH (60°-80°)	90.8	0.5	B0/110		G0/110
BVH (80°-90°)	3.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1
2.5°	5416.6	5379.1	5327.3	5287.2	5192.7	5056.8	4913.2	4913.2	4774.7	4581.8	4385.1
5°	6247.6	6223.0	6172.5	6069.0	5962.8	5772.6	5484.0	5433.5	5186.3	4836.8	4469.2
7.5°	6585.4	6597.1	6599.6	6572.5	6522.0	6334.3	6048.3	6013.3	5618.6	5150.0	4579.2
10°	6261.8	6318.8	6374.4	6487.0	6646.2	6691.5	6529.7	6493.5	6105.2	5467.1	4698.3
12.5°	5780.3	5811.4	5842.5	6019.8	6339.5	6705.8	6875.3	6874.0	6545.3	5782.9	4849.7
15°	5556.4	5583.6	5586.2	5665.2	5942.1	6475.4	7022.9	7042.3	6975.0	6172.5	5012.8
17.5°	5603.0	5625.0	5606.9	5626.3	5771.3	6221.7	7006.1	7070.8	7323.2	6546.6	5160.4
20°	5907.2	5949.9	5880.0	5825.6	5869.7	6154.4	6949.1	7039.7	7569.1	6911.6	5295.0
22.5°	6453.4	6476.7	6388.7	6239.8	6162.2	6295.5	6933.6	7022.9	7778.7	7210.6	5372.6
25°	7060.4	7052.6	6955.6	6788.6	6625.5	6580.2	7035.8	7116.1	7952.2	7479.8	5395.9
27.5°	7667.4	7690.7	7527.7	7320.6	7125.1	7007.3	7264.9	7324.4	8147.6	7786.5	5424.4
30°	8372.8	8335.3	8174.8	7937.9	7714.0	7549.7	7633.8	7650.6	8416.8	8192.9	5499.5
32.5°	9290.5	9186.9	9007.0	8592.9	8432.4	8154.1	8174.8	8195.5	8744.3	8595.5	5590.1
35°	10535.6	10530.4	10178.4	9620.5	9229.7	8884.1	8793.5	8810.3	9240.0	9193.4	5790.7
37.5°	12034.4	12055.1	11653.9	11092.2	10372.5	9823.7	9637.4	9640.0	9993.3	10019.2	6096.2
40°	13254.9	13309.3	13069.9	12690.6	11980.1	11121.9	10808.7	10780.2	11052.0	11019.7	6532.3
42.5°	13780.4	13830.9	13920.2	14052.2	13661.3	12953.4	12214.3	12253.1	12336.0	12109.5	7021.6
45°	13522.9	13603.1	13953.9	14769.3	15136.9	14898.7	14017.3	13881.4	13530.6	13293.8	7513.4
47.5°	12449.9	12645.3	13231.6	14589.4	15875.9	16681.0	16051.9	15872.0	14726.6	14158.4	7826.6
50°	10685.7	10697.4	11514.1	13249.8	15492.8	17805.7	18129.3	17994.7	15841.0	14643.7	7984.5
52.5°	7746.4	8001.4	8749.5	10759.5	13833.5	17634.9	19453.3	19397.7	16990.3	14892.2	8212.3
54°	5889.1	5938.3	6603.5	8598.0	11927.0	16696.5	19534.9	19547.8	17561.1	15042.4	8346.9
55°	4827.7	4710.0	5408.9	7324.4	10626.2	15866.8	19268.3	19330.4	17817.3	15120.0	8446.6
57.5°	2288.3	2289.6	2824.2	3863.5	6655.3	12320.5	17638.7	17858.8	17845.8	15253.3	8753.4
60°	1158.4	1166.2	1283.9	1783.5	3287.5	8190.3	14584.2	15108.4	16472.6	15272.8	8854.3
62.5°	810.2	801.2	781.8	858.1	1383.6	4162.5	10857.9	11313.5	13995.3	14533.7	8533.3
65°	693.7	674.3	620.0	608.3	698.9	1658.0	6762.7	7505.7	10685.7	12584.5	7619.6
67.5°	592.8	585.0	535.8	506.1	494.4	722.2	3489.4	3880.3	7303.7	9045.9	5771.3
70°	503.5	499.6	469.8	432.3	399.9	432.3	1294.3	1603.6	4070.6	4870.5	2723.2
72.5°	409.0	412.9	418.1	370.2	336.5	306.7	552.7	643.3	1703.3	1740.8	952.6
75°	358.5	354.6	354.6	322.3	280.9	227.8	304.2	327.5	521.6	484.1	221.3
77.5°	252.4	243.3	284.7	265.3	234.3	161.8	173.4	183.8	216.1	185.1	103.5
80°	174.7	174.7	182.5	238.2	211.0	117.8	106.1	113.9	128.1	110.0	59.5
82.5°	98.4	101.0	119.1	126.8	123.0	79.0	69.9	71.2	85.4	75.1	37.5
85°	11.6	19.4	68.6	67.3	50.5	34.9	38.8	40.1	53.1	46.6	22.0
87.5°	1.3	2.6	14.2	18.1	12.9	14.2	14.2	14.2	18.1	20.7	15.5
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°	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1	4262.1
2.5°	4279.0	4180.6	3946.3	3674.5	3501.1	3218.9	2980.8	2808.6	2765.9	2683.1	2707.7
5°	4273.8	4069.3	3591.7	3086.9	2548.5	2147.2	1848.3	1612.7	1509.2	1440.6	1392.7
7.5°	4276.4	3956.7	3190.5	2386.7	1743.4	1350.0	1073.0	929.3	833.5	793.4	798.6
10°	4284.1	3829.8	2724.5	1768.0	1176.5	872.4	702.8	634.2	601.8	596.7	595.4
12.5°	4302.3	3691.3	2279.3	1312.4	823.2	634.2	569.5	546.2	535.8	535.8	532.0
15°	4321.7	3538.6	1909.1	975.9	634.2	544.9	515.1	503.5	497.0	497.0	495.7
17.5°	4321.7	3362.6	1563.5	757.2	546.2	500.9	477.6	462.1	456.9	456.9	455.6
20°	4294.5	3158.1	1256.8	609.6	495.7	459.5	436.2	419.4	412.9	410.3	409.0
22.5°	4200.0	2885.0	1000.5	524.2	454.3	423.2	393.5	374.1	368.9	366.3	367.6
25°	4031.7	2577.0	792.1	460.8	416.8	379.2	353.3	339.1	333.9	333.9	335.2
27.5°	3858.3	2254.7	627.7	412.9	371.5	337.8	317.1	308.0	306.7	310.6	311.9
30°	3697.8	1931.1	508.7	374.1	331.3	302.9	288.6	286.0	286.0	287.3	288.6
32.5°	3519.2	1647.6	425.8	340.4	299.0	274.4	266.6	266.6	269.2	269.2	271.8
35°	3406.6	1404.3	374.1	308.0	274.4	253.7	248.5	249.8	253.7	258.9	261.4
37.5°	3345.8	1210.2	340.4	282.2	251.1	236.9	231.7	234.3	243.3	252.4	253.7
40°	3350.9	1063.9	313.2	260.2	233.0	217.4	213.6	221.3	230.4	239.4	240.7
42.5°	3407.9	955.2	287.3	234.3	217.4	195.4	194.1	201.9	205.8	214.9	216.1
45°	3475.2	876.2	260.2	207.1	189.0	169.6	170.8	177.3	182.5	196.7	199.3
47.5°	3495.9	821.9	229.1	176.0	155.3	148.8	150.1	154.0	164.4	177.3	178.6
50°	3519.2	788.2	199.3	148.8	132.0	130.7	132.0	134.6	141.1	146.3	145.0
52.5°	3618.9	786.9	174.7	129.4	112.6	115.2	116.5	115.2	110.0	102.2	99.7
54°	3712.1	790.8	163.1	120.4	103.5	107.4	106.1	99.7	86.7	79.0	75.1
55°	3787.1	794.7	156.6	113.9	98.4	99.7	101.0	88.0	71.2	63.4	60.8
57.5°	3934.7	785.6	141.1	99.7	86.7	81.5	80.2	58.2	38.8	33.7	31.1
60°	3860.9	709.3	128.1	85.4	73.8	66.0	54.4	32.4	19.4	14.2	14.2
62.5°	3571.0	601.8	113.9	69.9	60.8	50.5	28.5	18.1	9.1	5.2	3.9
65°	3194.3	506.1	102.2	55.7	47.9	32.4	15.5	11.6	3.9	0.0	0.0
67.5°	2375.0	375.3	86.7	44.0	36.2	20.7	10.4	6.5	1.3	0.0	0.0
70°	1100.2	229.1	73.8	33.7	25.9	15.5	7.8	3.9	0.0	0.0	0.0
72.5°	315.8	143.7	60.8	24.6	18.1	12.9	6.5	2.6	1.3	0.0	0.0
75°	110.0	115.2	45.3	18.1	14.2	9.1	5.2	2.6	1.3	0.0	0.0
77.5°	66.0	93.2	28.5	15.5	11.6	7.8	5.2	2.6	1.3	1.3	0.0
80°	37.5	62.1	18.1	12.9	10.4	6.5	3.9	2.6	1.3	1.3	0.0
82.5°	20.7	29.8	14.2	11.6	9.1	6.5	3.9	2.6	1.3	1.3	1.3
85°	16.8	15.5	11.6	10.4	7.8	5.2	3.9	1.3	0.0	0.0	0.0
87.5°	12.9	10.4	10.4	10.4	7.8	5.2	3.9	1.3	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)