

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: P647979

Luminaire Tested: **GALN-SA6A-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647979
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-SA6A-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 17396.7 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

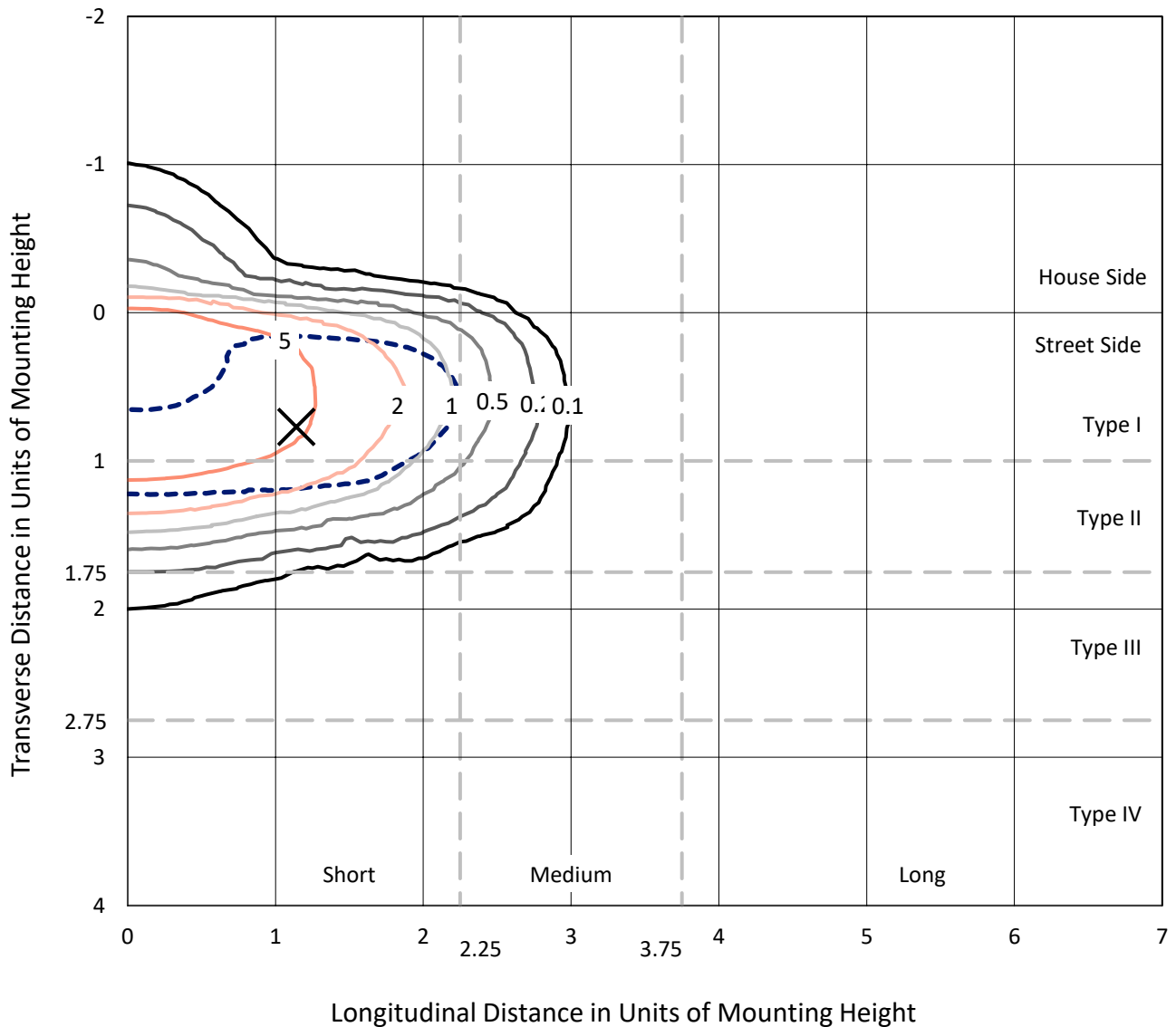
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

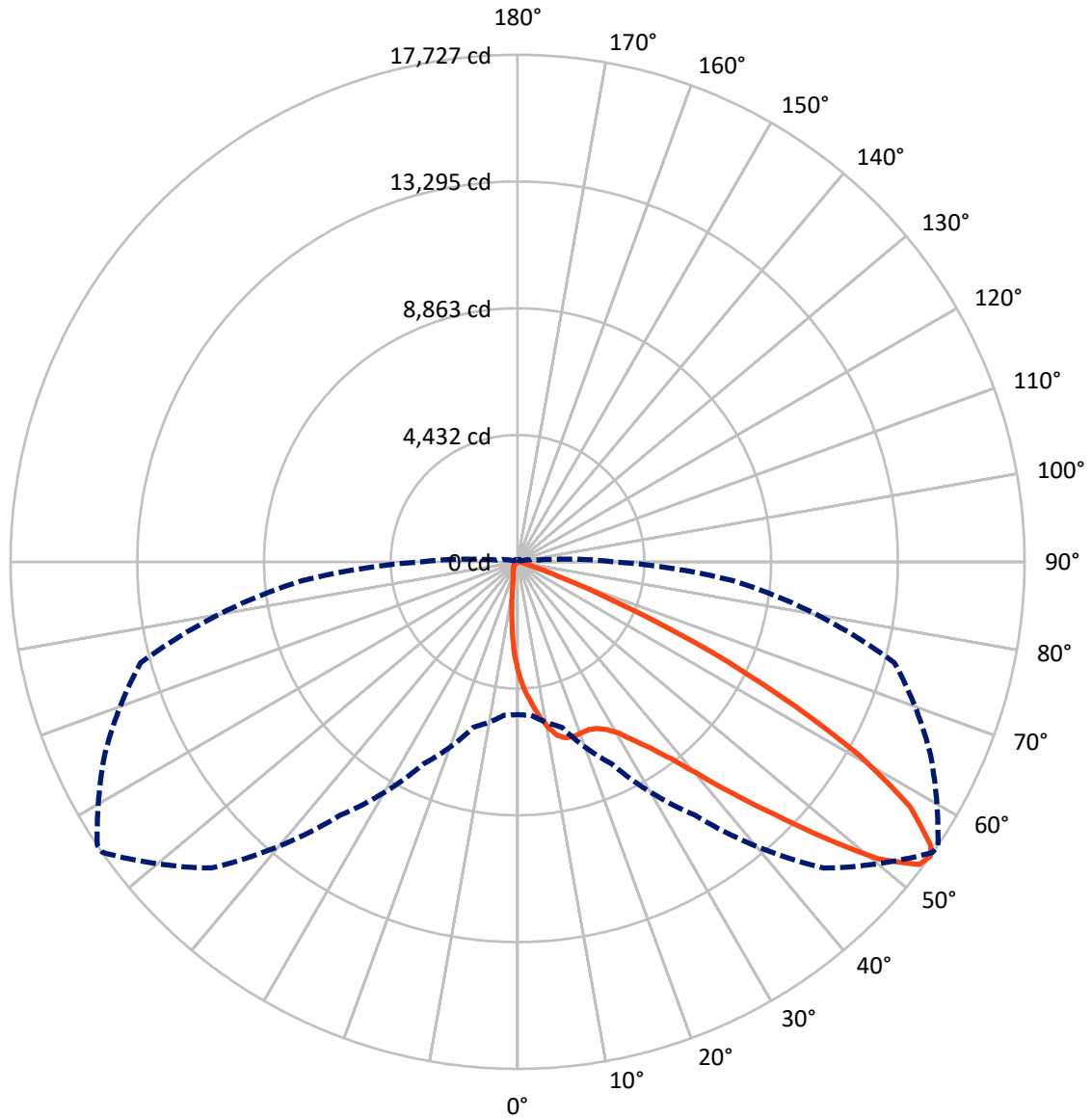
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	822.6	0.0	822.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16574.0	0.0	16574.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	17396.7	0.0	17396.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	2.0
10°-20°	923.3	5.3
20°-30°	1599.1	9.2
30°-40°	2760.2	15.9
40°-50°	4698.0	27.0
50°-60°	4649.3	26.7
60°-70°	2122.0	12.2
70°-80°	272.5	1.6
80°-90°	30.7	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°	17396.7	100.0
0°-180°	17396.7	100.0

Coefficient of Utilization

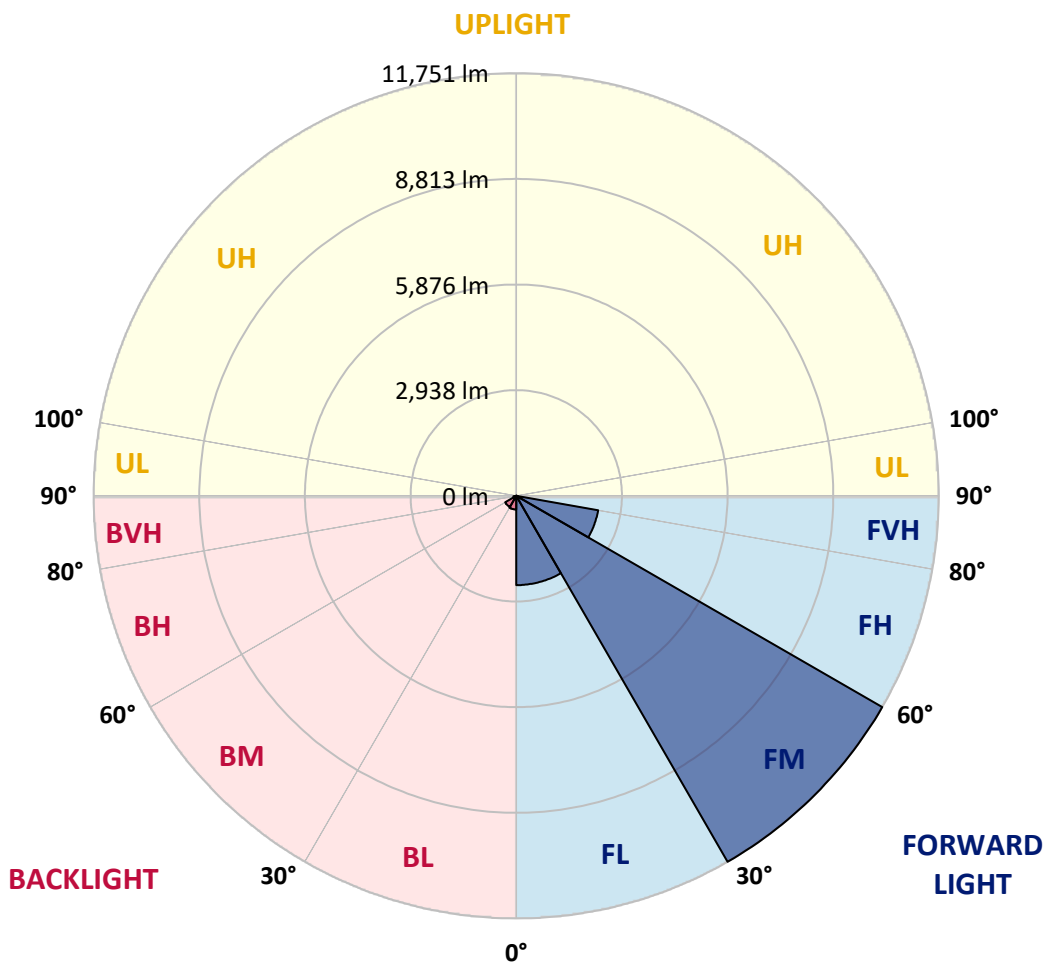


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2483.4	14.3			
FM (30°-60°)	11751.0	67.5			
FH (60°-80°)	2312.2	13.3			G2/5000
FVH (80°-90°)	27.4	0.2			G1/100
BL (0°-30°)	380.5	2.2	B1/500		
BM (30°-60°)	356.5	2.0	B1/1000		
BH (60°-80°)	82.4	0.5	B0/110		G0/110
BVH (80°-90°)	3.3	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°	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0
2.5°	4912.0	4877.9	4831.0	4794.6	4709.0	4585.7	4455.4	4455.4	4329.8	4155.0	3976.5
5°	5665.6	5643.2	5597.4	5503.6	5407.3	5234.7	4973.1	4927.3	4703.1	4386.2	4052.8
7.5°	5971.9	5982.4	5984.8	5960.1	5914.4	5744.2	5484.8	5453.0	5095.1	4670.2	4152.6
10°	5678.5	5730.1	5780.6	5882.7	6027.1	6068.1	5921.4	5888.6	5536.4	4957.8	4260.6
12.5°	5241.8	5270.0	5298.2	5458.9	5748.9	6081.0	6234.8	6233.6	5935.5	5244.1	4397.9
15°	5038.8	5063.4	5065.8	5137.3	5388.5	5872.1	6368.6	6386.1	6325.2	5597.4	4545.8
17.5°	5081.0	5100.9	5084.6	5102.1	5233.6	5642.1	6353.3	6412.0	6640.9	5936.6	4679.6
20°	5356.8	5395.6	5332.2	5282.9	5322.8	5581.0	6301.7	6383.9	6863.9	6267.7	4801.7
22.5°	5852.1	5873.3	5793.5	5658.5	5588.0	5708.9	6287.6	6368.6	7054.0	6538.8	4872.1
25°	6402.6	6395.5	6307.5	6156.1	6008.3	5967.2	6380.4	6453.1	7211.3	6782.9	4893.2
27.5°	6953.1	6974.2	6826.4	6638.5	6461.3	6354.5	6588.1	6642.0	7388.5	7061.1	4919.0
30°	7592.8	7558.7	7413.2	7198.4	6995.3	6846.3	6922.6	6937.8	7632.7	7429.7	4987.1
32.5°	8424.9	8331.0	8167.9	7792.3	7646.8	7394.4	7413.2	7432.0	7929.6	7794.6	5069.3
35°	9554.0	9549.3	9230.1	8724.3	8369.8	8056.4	7974.2	7989.5	8379.1	8336.9	5251.2
37.5°	10913.2	10932.0	10568.2	10058.7	9406.2	8908.5	8739.5	8741.8	9062.3	9085.7	5528.2
40°	12020.0	12069.3	11852.2	11508.3	10863.9	10085.7	9801.7	9775.9	10022.3	9993.0	5923.7
42.5°	12496.5	12542.3	12623.3	12743.0	12388.5	11746.6	11076.3	11111.6	11186.7	10981.3	6367.4
45°	12263.0	12335.8	12653.8	13393.3	13726.6	13510.7	12711.4	12588.1	12270.0	12055.2	6813.4
47.5°	11290.0	11467.2	11998.9	13230.1	14396.8	15126.9	14556.4	14393.3	13354.5	12839.2	7097.4
50°	9690.2	9700.7	10441.4	12015.3	14049.4	16146.8	16440.3	16318.2	14365.1	13279.4	7240.6
52.5°	7024.7	7255.9	7934.3	9757.1	12544.7	15991.8	17640.9	17590.5	15407.3	13504.8	7447.2
54°	5340.4	5385.0	5988.3	7797.0	10815.8	15140.9	17714.9	17726.7	15925.0	13641.0	7569.3
55°	4378.0	4271.2	4904.9	6642.0	9636.2	14388.6	17473.1	17529.4	16157.4	13711.3	7659.7
57.5°	2075.1	2076.3	2561.0	3503.5	6035.2	11172.6	15995.4	16194.9	16183.2	13832.2	7937.8
60°	1050.5	1057.5	1164.3	1617.4	2981.3	7427.3	13225.4	13700.8	14937.8	13849.9	8029.4
62.5°	734.8	726.5	708.9	778.1	1254.7	3774.7	9846.3	10259.4	12691.4	13179.7	7738.3
65°	629.1	611.5	562.2	551.6	633.8	1503.5	6132.7	6806.4	9690.2	11412.1	6909.7
67.5°	537.5	530.5	485.9	458.9	448.3	654.9	3164.3	3518.8	6623.2	8203.1	5233.6
70°	456.6	453.0	426.0	392.0	362.7	392.0	1173.7	1454.3	3691.3	4416.7	2469.5
72.5°	370.9	374.4	379.1	335.7	305.1	278.2	501.2	583.3	1544.6	1578.7	863.9
75°	325.1	321.6	321.6	292.3	254.7	206.6	275.9	296.9	473.0	438.9	200.7
77.5°	228.9	220.6	258.2	240.6	212.4	146.7	157.3	166.7	196.0	167.9	93.9
80°	158.5	158.5	165.5	216.0	191.3	106.8	96.2	103.3	116.2	99.8	54.0
82.5°	89.2	91.5	108.0	115.0	111.5	71.6	63.3	64.5	77.4	68.0	34.1
85°	10.6	17.6	62.2	61.0	45.8	31.7	35.2	36.4	48.2	42.3	20.0
87.5°	1.2	2.3	12.9	16.4	11.7	12.9	12.9	12.9	16.4	18.8	14.1
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°	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0	3865.0
2.5°	3880.3	3791.1	3578.6	3332.2	3174.9	2919.0	2703.1	2546.9	2508.3	2433.1	2455.4
5°	3875.6	3690.2	3257.0	2799.3	2311.0	1947.2	1676.1	1462.5	1368.5	1306.4	1262.9
7.5°	3878.0	3588.0	2893.2	2164.4	1581.0	1224.2	973.0	842.7	755.9	719.5	724.2
10°	3885.0	3473.0	2470.7	1603.3	1066.9	791.1	637.4	575.1	545.8	541.1	539.9
12.5°	3901.5	3347.4	2066.9	1190.2	746.5	575.1	516.5	495.3	485.9	485.9	482.4
15°	3919.1	3209.0	1731.2	884.9	575.1	494.2	467.1	456.6	450.7	450.7	449.5
17.5°	3919.1	3049.3	1417.9	686.6	495.3	454.2	433.1	419.0	414.3	414.3	413.1
20°	3894.4	2863.9	1139.7	552.8	449.5	416.6	395.6	380.3	374.4	372.1	370.9
22.5°	3808.7	2616.2	907.3	475.4	411.9	383.8	356.8	339.2	334.5	332.1	333.3
25°	3656.1	2336.9	718.3	417.8	378.0	343.9	320.4	307.5	302.8	302.8	304.0
27.5°	3498.8	2044.6	569.2	374.4	336.8	306.3	287.6	279.4	278.2	281.7	282.9
30°	3353.3	1751.2	461.3	339.2	300.4	274.7	261.8	259.4	259.4	260.6	261.8
32.5°	3191.4	1494.1	386.2	308.7	271.2	248.8	241.8	241.8	244.1	244.1	246.5
35°	3089.2	1273.5	339.2	279.4	248.8	230.0	225.3	226.5	230.0	234.7	237.1
37.5°	3034.0	1097.5	308.7	255.9	227.7	214.8	210.1	212.4	220.6	228.9	230.0
40°	3038.7	964.8	284.1	235.9	211.3	197.2	193.6	200.7	208.9	217.1	218.3
42.5°	3090.4	866.2	260.6	212.4	197.2	177.2	176.0	183.1	186.6	194.8	196.0
45°	3151.4	794.6	235.9	187.8	171.4	153.8	155.0	160.8	165.5	178.4	180.7
47.5°	3170.2	745.3	207.7	159.7	140.9	135.0	136.2	139.7	149.1	160.8	162.0
50°	3191.4	714.8	180.7	135.0	119.7	118.5	119.7	122.1	127.9	132.6	131.5
52.5°	3281.7	713.6	158.5	117.4	102.1	104.5	105.6	104.5	99.8	92.7	90.4
54°	3366.2	717.1	147.9	109.2	93.9	97.4	96.2	90.4	78.6	71.6	68.0
55°	3434.3	720.7	142.0	103.3	89.2	90.4	91.5	79.8	64.5	57.6	55.2
57.5°	3568.1	712.5	127.9	90.4	78.6	73.9	72.7	52.9	35.2	30.5	28.2
60°	3501.2	643.2	116.2	77.4	66.9	59.8	49.3	29.4	17.6	12.9	12.9
62.5°	3238.3	545.8	103.3	63.3	55.2	45.8	25.8	16.4	8.2	4.7	3.5
65°	2896.7	458.9	92.7	50.5	43.5	29.4	14.1	10.6	3.5	0.0	0.0
67.5°	2153.8	340.4	78.6	39.9	32.9	18.8	9.4	5.9	1.2	0.0	0.0
70°	997.6	207.7	66.9	30.5	23.5	14.1	7.0	3.5	0.0	0.0	0.0
72.5°	286.4	130.3	55.2	22.3	16.4	11.7	5.9	2.3	1.2	0.0	0.0
75°	99.8	104.5	41.1	16.4	12.9	8.2	4.7	2.3	1.2	0.0	0.0
77.5°	59.8	84.5	25.8	14.1	10.6	7.0	4.7	2.3	1.2	1.2	0.0
80°	34.1	56.4	16.4	11.7	9.4	5.9	3.5	2.3	1.2	1.2	0.0
82.5°	18.8	27.0	12.9	10.6	8.2	5.9	3.5	2.3	1.2	1.2	1.2
85°	15.3	14.1	10.6	9.4	7.0	4.7	3.5	1.2	0.0	0.0	0.0
87.5°	11.7	9.4	9.4	9.4	7.0	4.7	3.5	1.2	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)