

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: P459112

Luminaire Tested: **GALN-SA6A-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20225 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

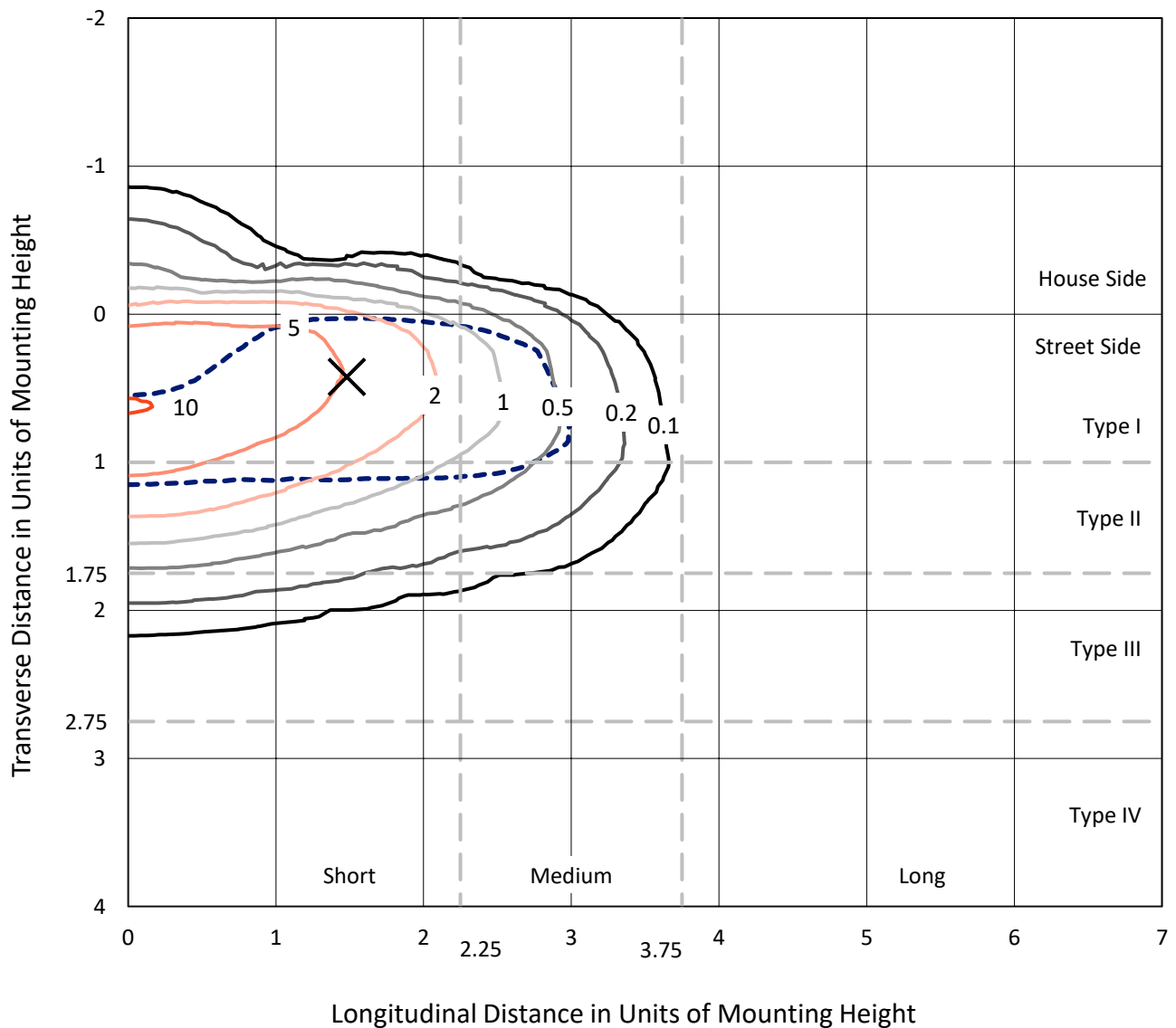
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

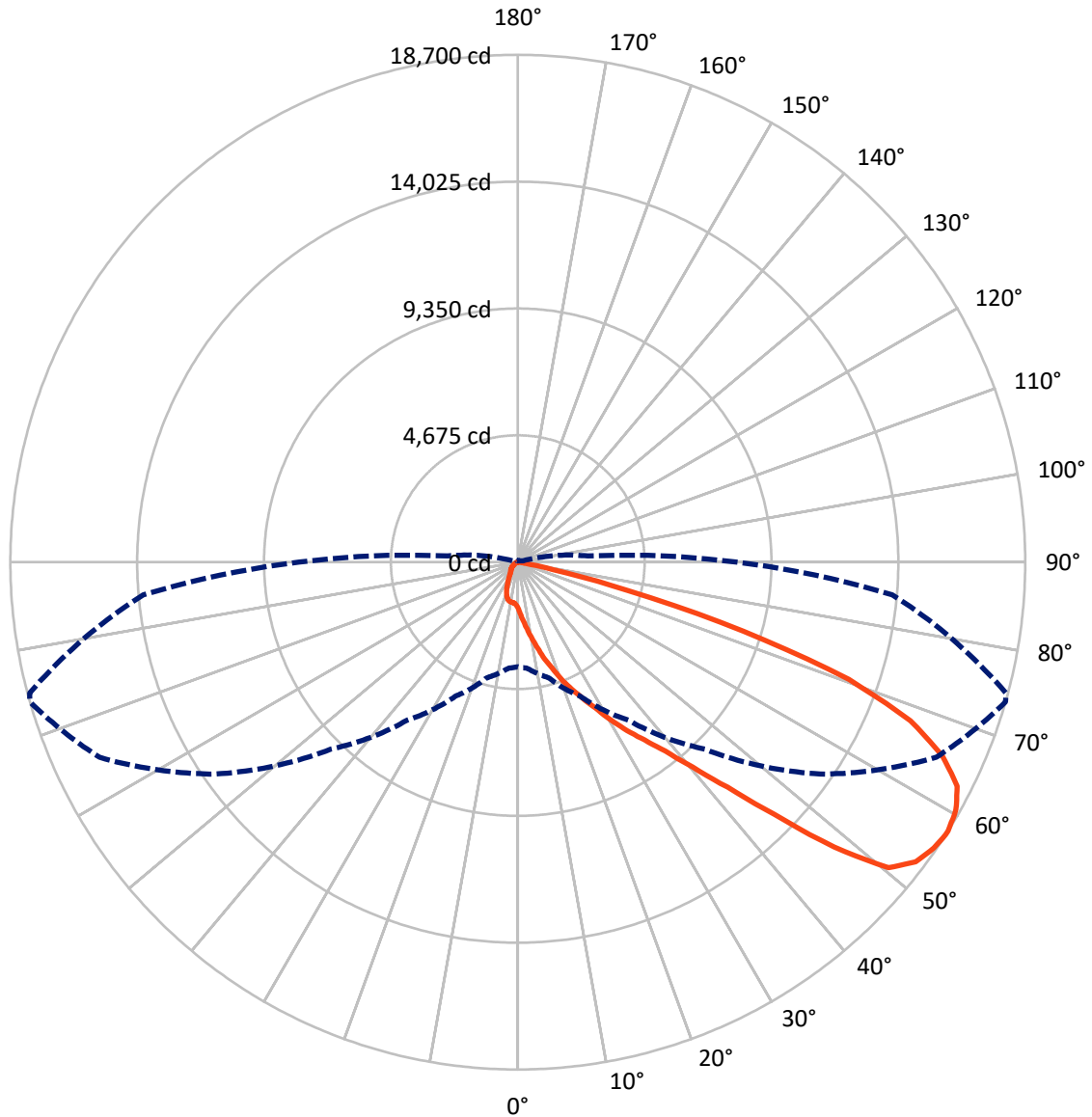
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1166.5	0.0	1166.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	19058.5	0.0	19058.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	20225.0	0.0	20225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.0
10°-20°	805.8	4.0
20°-30°	1724.3	8.5
30°-40°	3169.3	15.7
40°-50°	4858.6	24.0
50°-60°	5139.7	25.4
60°-70°	3356.4	16.6
70°-80°	917.1	4.5
80°-90°	49.4	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°	20225.0	100.0
0°-180°	20225.0	100.0

Coefficient of Utilization



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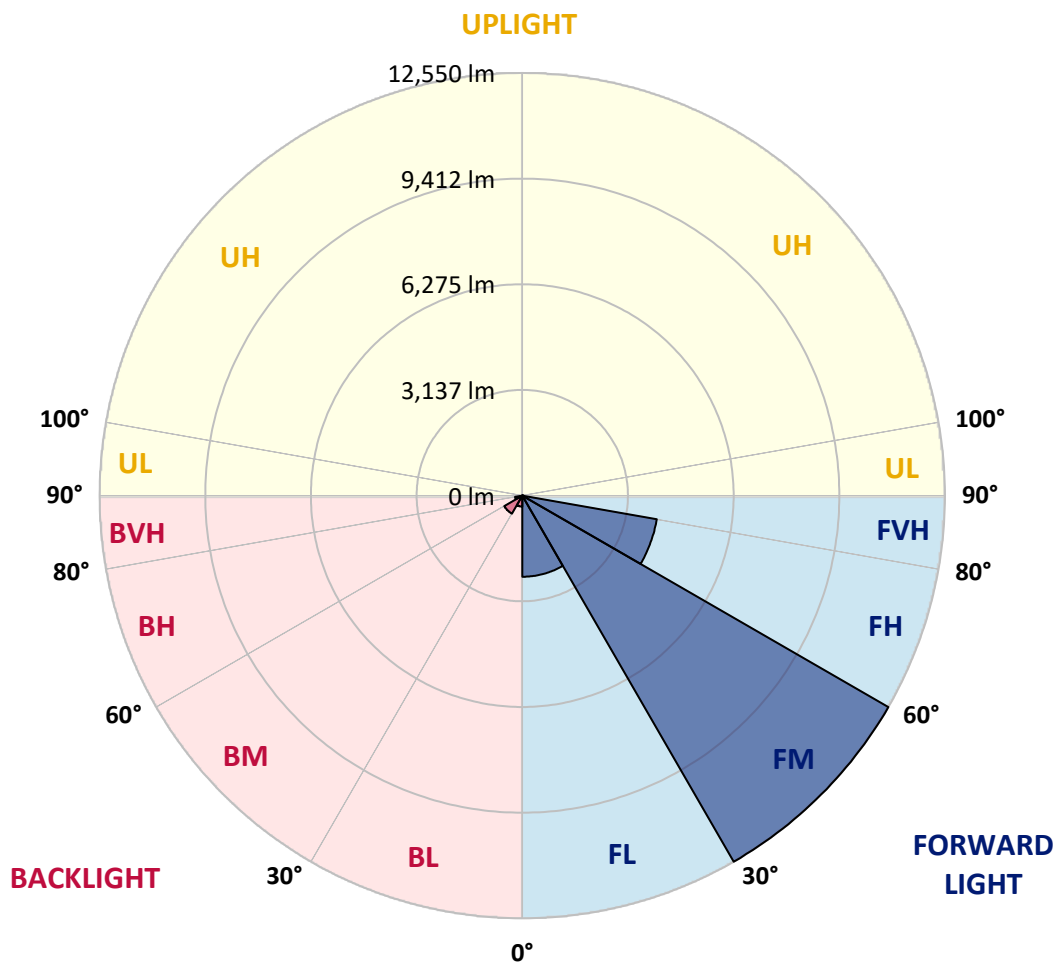
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.8	11.9			
FM (30°-60°)	12550.0	62.1			
FH (60°-80°)	4054.4	20.0			G2/5000
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	325.8	1.6	B1/500		
BM (30°-60°)	617.6	3.1	B1/1000		
BH (60°-80°)	219.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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°	65°	74°	75°	85°
0°	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8
2.5°	2478.6	2456.2	2411.6	2396.2	2330.6	2228.6	2139.3	2019.2	1924.2	1914.4	1799.9
5°	3319.2	3268.9	3248.0	3147.5	2989.7	2841.6	2587.5	2394.8	2172.8	2156.0	1925.6
7.5°	4129.1	4059.3	4038.4	3943.4	3759.1	3525.9	3196.3	2845.8	2493.9	2461.8	2094.6
10°	4715.6	4725.4	4687.7	4624.8	4475.4	4238.0	3831.7	3352.7	2851.4	2810.9	2284.5
12.5°	5135.9	5134.5	5141.5	5140.1	5060.5	4880.4	4453.1	3901.5	3245.2	3165.6	2502.3
15°	5409.6	5413.8	5434.7	5507.4	5515.7	5404.0	5047.9	4426.5	3701.8	3602.7	2738.3
17.5°	5686.1	5715.4	5748.9	5817.3	5878.8	5834.1	5582.8	4973.9	4115.2	4041.1	2991.1
20°	6142.7	6183.2	6163.7	6205.5	6237.7	6241.8	6047.8	5479.4	4616.5	4492.2	3280.1
22.5°	6873.0	6871.6	6821.4	6745.9	6683.1	6680.3	6504.4	5998.9	5071.7	4951.6	3570.6
25°	7796.0	7800.2	7702.5	7487.4	7331.0	7139.7	6937.3	6454.1	5559.0	5411.0	3876.4
27.5°	8854.5	8828.0	8679.9	8383.9	8073.9	7747.2	7455.3	6983.3	6075.7	5952.8	4226.9
30°	9805.4	9795.7	9622.5	9260.8	8853.1	8524.9	8101.8	7646.6	6744.5	6593.7	4619.2
32.5°	10690.7	10704.7	10464.5	10090.3	9696.5	9318.1	8871.2	8280.6	7400.9	7187.2	5046.5
35°	11382.0	11395.9	11147.4	10836.0	10431.0	10116.8	9690.9	8956.4	8048.8	7868.6	5538.1
37.5°	11750.6	11768.7	11624.9	11390.3	11137.6	10979.8	10583.2	9826.4	8836.3	8727.4	6119.0
40°	11820.4	11841.4	11778.5	11715.7	11701.7	11814.8	11698.9	10851.3	9928.3	9758.0	6984.7
42.5°	11611.0	11638.9	11666.8	11806.5	12091.3	12506.0	12909.6	12242.1	11334.5	11105.5	8043.2
45°	11060.8	11058.0	11168.3	11530.0	12168.1	13053.4	14174.7	13983.4	13250.3	12978.0	9538.7
47.5°	10119.6	10105.7	10344.4	10859.7	11853.9	13154.0	15206.7	16097.5	15695.4	15444.0	11146.0
50°	8685.5	8753.9	9129.6	9848.7	11073.3	12849.6	15525.0	17484.2	17702.0	17435.3	12444.6
52.5°	7005.7	7002.9	7592.2	8568.2	9917.1	12179.3	15303.0	17735.5	18354.1	18150.2	13084.1
55°	5184.8	5221.1	5834.1	6818.6	8416.0	10956.1	14578.3	17477.2	18602.7	18458.8	13505.9
57°	3856.8	3921.1	4412.6	5454.3	7109.0	9745.4	13613.4	17015.0	18700.4	18622.2	13856.3
57.5°	3599.9	3602.7	4081.6	5028.4	6726.4	9280.4	13336.9	16822.3	18697.6	18654.3	13913.6
60°	2216.1	2285.9	2616.8	3398.8	4923.7	7243.1	11483.9	15714.9	18552.4	18615.2	14158.0
62.5°	1326.6	1355.9	1570.9	2048.5	3174.0	5286.7	9397.7	14297.6	18174.0	18365.3	14141.2
65°	853.2	860.2	957.9	1240.0	1984.3	3573.4	7241.7	12425.1	17195.1	17547.0	13588.2
67.5°	659.1	670.3	709.4	814.1	1150.6	2225.8	5121.9	10426.8	15611.6	16065.4	12247.7
70°	585.1	590.7	604.6	638.1	761.0	1256.7	3186.6	8145.1	12945.9	13074.4	9584.8
72.5°	477.6	492.9	536.2	547.4	603.2	784.8	1773.4	5466.9	8698.1	8730.2	5362.1
75°	370.0	372.8	437.1	469.2	508.3	540.4	791.8	2756.5	4178.0	3954.6	2066.7
77.5°	276.5	289.1	318.4	358.9	414.7	386.8	354.7	1038.9	1297.2	1273.5	600.4
80°	177.3	184.3	222.0	269.5	322.6	252.7	199.7	304.4	284.9	293.2	143.8
82.5°	89.4	90.8	142.4	219.2	205.3	127.1	125.7	124.3	106.1	104.7	67.0
85°	9.8	20.9	92.2	125.7	92.2	41.9	58.6	57.3	55.9	57.3	39.1
87.5°	1.4	1.4	15.4	18.2	12.6	14.0	16.8	18.2	22.3	20.9	16.8
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°	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8	1693.8
2.5°	1744.1	1688.2	1584.9	1485.8	1411.7	1364.3	1302.8	1280.5	1248.4	1244.2	1228.8
5°	1819.5	1713.4	1533.2	1390.8	1276.3	1189.7	1114.3	1051.5	1001.2	990.0	995.6
7.5°	1927.0	1769.2	1517.9	1323.8	1164.6	1016.6	896.5	822.5	769.4	749.9	752.7
10°	2048.5	1843.2	1515.1	1252.6	1009.6	828.1	696.8	631.2	600.4	589.3	576.7
12.5°	2192.3	1928.4	1508.1	1142.2	839.2	660.5	566.9	527.8	498.5	490.1	490.1
15°	2354.3	2019.2	1474.6	1005.4	681.4	546.0	483.1	452.4	442.7	434.3	434.3
17.5°	2523.3	2108.5	1404.8	836.4	565.5	467.8	428.7	410.5	396.6	386.8	386.8
20°	2716.0	2196.5	1293.1	687.0	477.6	417.5	386.8	365.9	354.7	346.3	343.5
22.5°	2898.9	2267.7	1150.6	564.1	416.1	375.6	347.7	325.4	314.2	310.0	310.0
25°	3088.8	2311.0	978.9	466.4	379.8	340.7	310.0	291.8	282.1	279.3	277.9
27.5°	3273.1	2336.2	828.1	407.7	346.3	308.6	279.3	265.3	255.5	252.7	254.1
30°	3496.6	2340.3	681.4	365.9	317.0	277.9	251.3	238.8	233.2	230.4	229.0
32.5°	3722.8	2334.8	572.5	340.7	289.1	251.3	229.0	219.2	215.0	210.9	210.9
35°	3976.9	2305.4	487.3	315.6	262.5	229.0	209.5	201.1	195.5	191.3	189.9
37.5°	4292.5	2290.1	438.5	287.7	238.8	208.1	189.9	181.5	177.3	171.8	170.4
40°	4789.6	2358.5	423.1	262.5	215.0	188.5	171.8	162.0	156.4	150.8	149.4
42.5°	5409.6	2478.6	398.0	237.4	194.1	170.4	153.6	142.4	132.7	125.7	122.9
45°	6212.5	2636.4	358.9	210.9	175.9	150.8	135.4	121.5	108.9	103.3	101.9
47.5°	7054.5	2788.6	324.0	189.9	156.4	134.1	117.3	101.9	90.8	86.6	85.2
50°	7571.2	2819.3	301.6	166.2	136.8	115.9	99.1	85.2	78.2	74.0	74.0
52.5°	7807.2	2770.4	270.9	145.2	118.7	101.9	85.2	74.0	69.8	67.0	65.6
55°	7972.0	2695.0	230.4	125.7	101.9	86.6	75.4	67.0	61.4	58.6	57.3
57°	8068.3	2593.1	199.7	110.3	88.0	75.4	67.0	60.0	54.5	48.9	48.9
57.5°	8072.5	2554.0	191.3	108.9	83.8	72.6	65.6	58.6	51.7	46.1	44.7
60°	7948.2	2285.9	153.6	92.2	67.0	61.4	54.5	46.1	36.3	30.7	29.3
62.5°	7548.9	1945.2	127.1	78.2	54.5	47.5	39.1	34.9	25.1	18.2	18.2
65°	6944.2	1577.9	108.9	62.8	44.7	34.9	26.5	25.1	15.4	8.4	7.0
67.5°	6070.1	1228.8	92.2	51.7	37.7	25.1	18.2	16.8	8.4	2.8	0.0
70°	4624.8	837.8	76.8	41.9	27.9	18.2	12.6	9.8	5.6	1.4	0.0
72.5°	2665.7	460.8	64.2	32.1	20.9	14.0	9.8	5.6	5.6	0.0	0.0
75°	952.3	198.3	48.9	23.7	16.8	11.2	7.0	2.8	4.2	1.4	0.0
77.5°	303.0	106.1	32.1	18.2	14.0	8.4	5.6	2.8	2.8	1.4	0.0
80°	89.4	55.9	19.5	15.4	9.8	7.0	4.2	1.4	2.8	1.4	0.0
82.5°	48.9	27.9	15.4	11.2	9.8	5.6	4.2	1.4	1.4	1.4	0.0
85°	25.1	16.8	12.6	11.2	9.8	5.6	4.2	1.4	0.0	1.4	1.4
87.5°	14.0	12.6	12.6	11.2	9.8	7.0	4.2	1.4	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)