

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: P455371

Luminaire Tested: **GALN-SA6C-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455371
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-SA6C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA 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: 33378 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

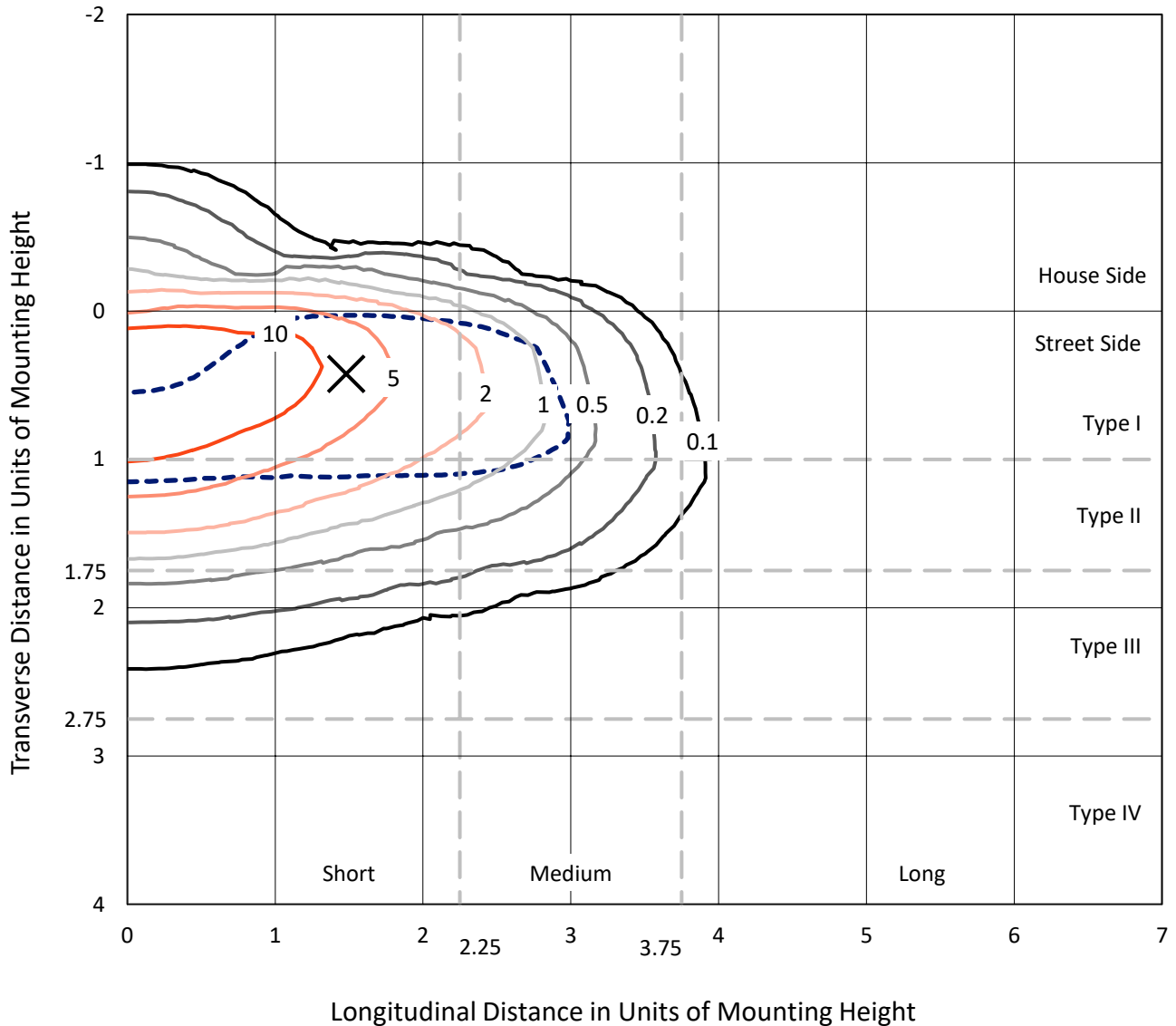
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

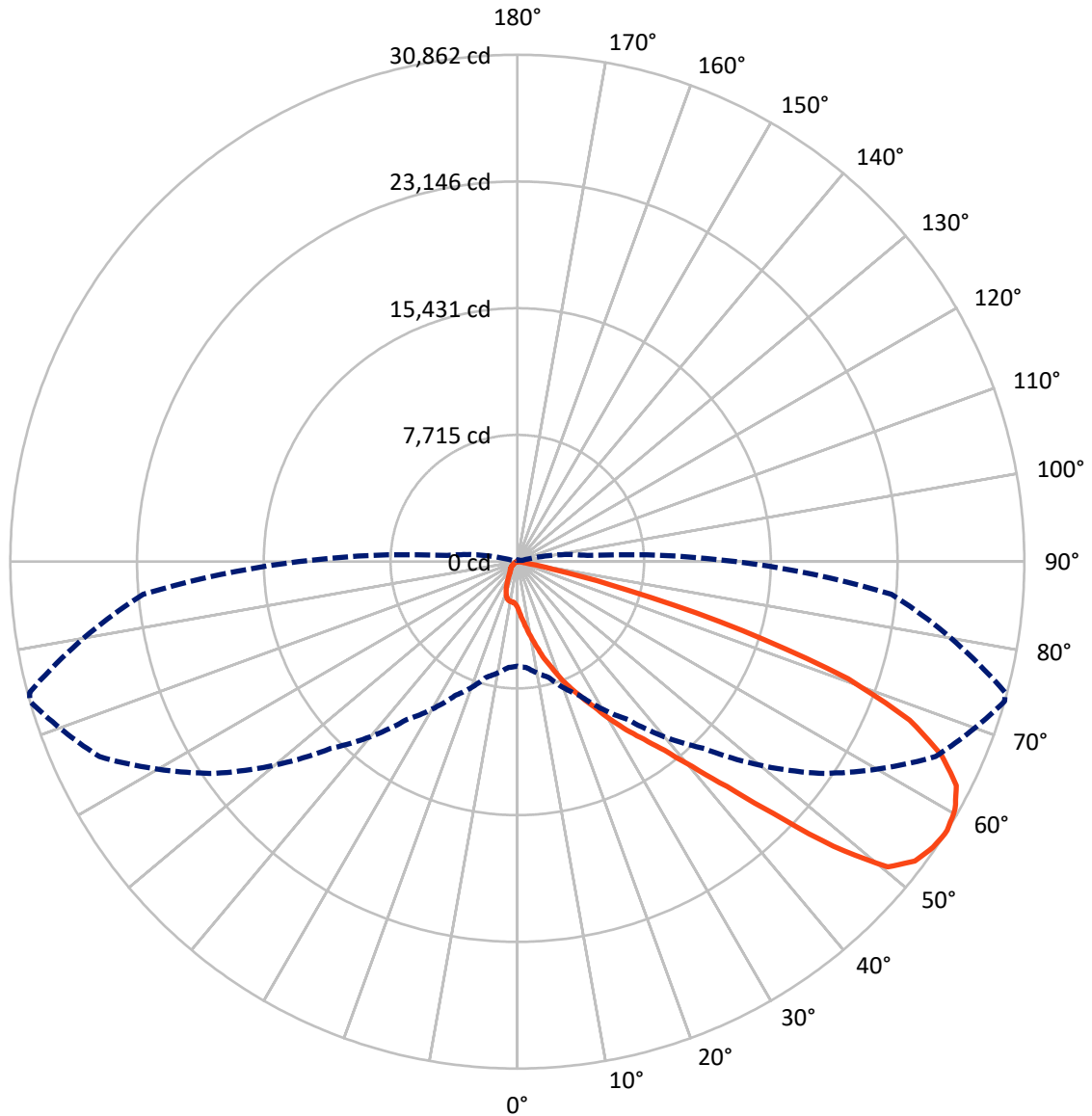
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	1925.1	0.0	1925.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	31452.9	0.0	31452.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	33378.0	0.0	33378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.4	1.0
10°-20°	1329.9	4.0
20°-30°	2845.7	8.5
30°-40°	5230.4	15.7
40°-50°	8018.3	24.0
50°-60°	8482.2	25.4
60°-70°	5539.1	16.6
70°-80°	1513.5	4.5
80°-90°	81.5	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°	33378.0	100.0
0°-180°	33378.0	100.0

Coefficient of Utilization



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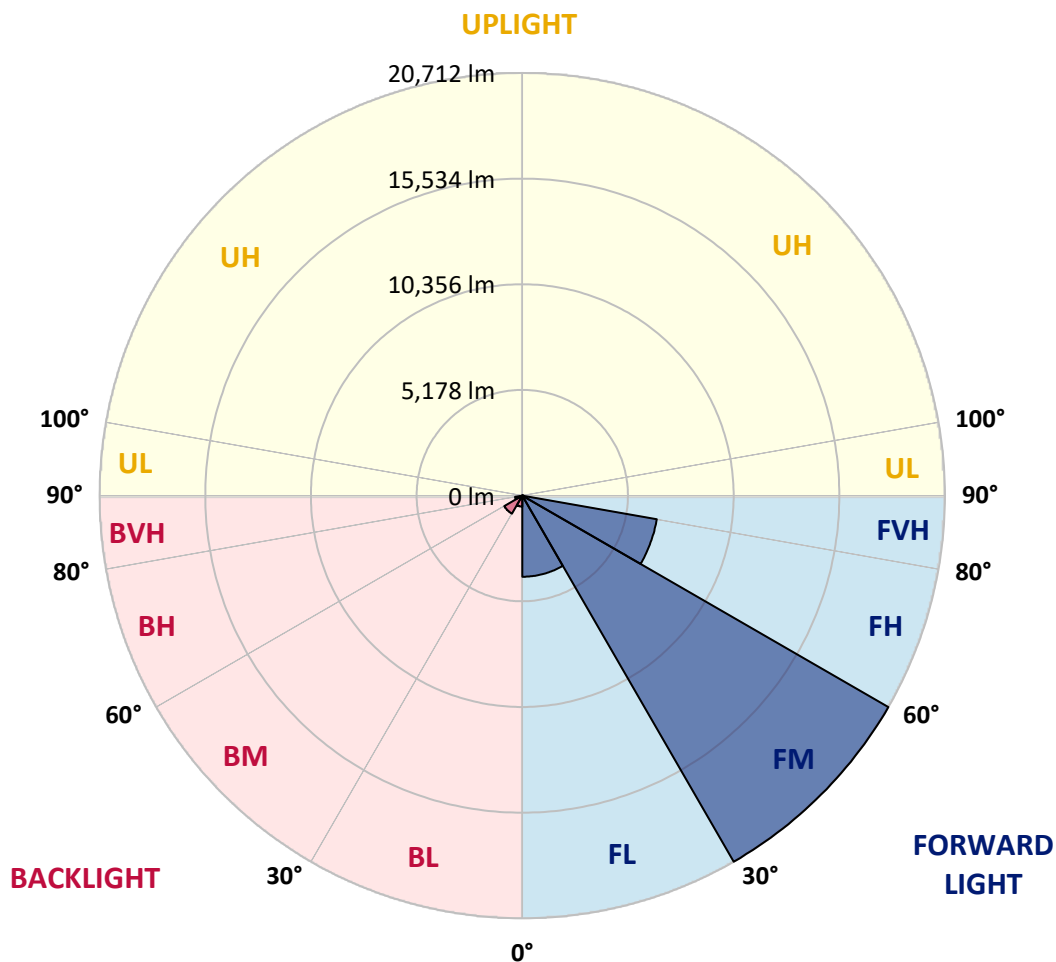
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3975.3	11.9			
FM	(30°-60°)	20711.7	62.1			
FH	(60°-80°)	6691.2	20.0			G3/7500
FVH	(80°-90°)	74.7	0.2			G1/100
BL	(0°-30°)	537.8	1.6	B2/1000		
BM	(30°-60°)	1019.2	3.1	B2/2500		
BH	(60°-80°)	361.4	1.1	B1/500		G1/500
BVH	(80°-90°)	6.7	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4
2.5°	4090.5	4053.6	3979.9	3954.5	3846.2	3678.0	3530.5	3332.3	3175.6	3159.5	2970.5
5°	5477.8	5394.8	5360.3	5194.4	4933.9	4689.7	4270.2	3952.2	3585.8	3558.2	3177.9
7.5°	6814.4	6699.2	6664.6	6507.9	6203.7	5818.9	5275.0	4696.6	4115.8	4062.8	3456.8
10°	7782.3	7798.4	7736.2	7632.5	7385.9	6994.2	6323.6	5533.1	4705.8	4639.0	3770.2
12.5°	8476.0	8473.7	8485.2	8482.9	8351.5	8054.2	7349.1	6438.8	5355.7	5224.3	4129.7
15°	8927.7	8934.6	8969.1	9089.0	9102.8	8918.4	8330.8	7305.3	6109.2	5945.6	4519.1
17.5°	9383.9	9432.3	9487.6	9600.6	9702.0	9628.2	9213.4	8208.6	6791.4	6669.2	4936.2
20°	10137.5	10204.3	10172.1	10241.2	10294.2	10301.1	9980.8	9042.9	7618.7	7413.6	5413.3
22.5°	11342.8	11340.5	11257.5	11133.1	11029.4	11024.7	10734.4	9900.2	8370.0	8171.8	5892.6
25°	12866.0	12873.0	12711.6	12356.8	12098.6	11782.9	11448.8	10651.4	9174.2	8930.0	6397.3
27.5°	14612.9	14569.1	14324.8	13836.2	13324.6	12785.4	12303.7	11524.8	10026.9	9824.1	6975.7
30°	16182.2	16166.1	15880.3	15283.5	14610.6	14069.0	13370.7	12619.5	11130.8	10881.9	7623.3
32.5°	17643.3	17666.3	17270.0	16652.3	16002.5	15378.0	14640.5	13665.7	12213.9	11861.3	8328.5
35°	18784.0	18807.1	18396.9	17883.0	17214.6	16696.1	15993.3	14781.1	13283.2	12985.9	9139.7
37.5°	19392.4	19422.4	19185.0	18797.8	18380.7	18120.3	17465.8	16216.8	14582.9	14403.2	10098.3
40°	19507.6	19542.2	19438.5	19334.8	19311.7	19498.4	19307.1	17908.3	16385.0	16103.9	11527.1
42.5°	19162.0	19208.0	19254.1	19484.6	19954.7	20639.1	21305.1	20203.6	18705.7	18327.7	13273.9
45°	18254.0	18249.4	18431.4	19028.3	20081.5	21542.5	23393.0	23077.3	21867.4	21418.1	15742.1
47.5°	16700.7	16677.7	17071.8	17922.1	19562.9	21708.4	25096.1	26566.3	25902.6	25487.8	18394.6
50°	14334.0	14446.9	15066.9	16253.7	18274.7	21206.1	25621.5	28854.7	29214.2	28774.0	20537.7
52.5°	11561.7	11557.1	12529.6	14140.4	16366.6	20099.9	25255.1	29269.5	30290.4	29954.0	21593.2
55°	8556.6	8616.5	9628.2	11252.9	13889.2	18081.1	24059.0	28843.2	30700.6	30463.2	22289.2
57°	6365.0	6471.0	7282.2	9001.4	11732.2	16083.1	22466.6	28080.4	30861.9	30732.9	22867.6
57.5°	5941.0	5945.6	6736.1	8298.5	11100.8	15315.7	22010.3	27762.4	30857.3	30785.9	22962.1
60°	3657.2	3772.5	4318.6	5609.2	8125.7	11953.5	18952.2	25934.9	30617.6	30721.4	23365.4
62.5°	2189.3	2237.7	2592.6	3380.7	5238.1	8724.9	15509.3	23595.8	29993.1	30308.8	23337.7
65°	1408.1	1419.6	1580.9	2046.4	3274.7	5897.2	11951.2	20505.5	28377.7	28958.4	22425.1
67.5°	1087.7	1106.2	1170.7	1343.5	1898.9	3673.4	8452.9	17207.7	25764.4	26513.3	20212.8
70°	965.6	974.8	997.9	1053.2	1256.0	2074.1	5258.9	13442.2	21365.1	21577.1	15818.1
72.5°	788.1	813.5	884.9	903.4	995.5	1295.1	2926.7	9022.1	14354.8	14407.8	8849.3
75°	610.7	615.3	721.3	774.3	838.8	891.8	1306.7	4549.1	6895.1	6526.4	3410.7
77.5°	456.3	477.0	525.4	592.3	684.4	638.3	585.3	1714.6	2140.9	2101.7	990.9
80°	292.7	304.2	366.4	444.8	532.3	417.1	329.5	502.4	470.1	483.9	237.4
82.5°	147.5	149.8	235.1	361.8	338.8	209.7	207.4	205.1	175.1	172.8	110.6
85°	16.1	34.6	152.1	207.4	152.1	69.1	96.8	94.5	92.2	94.5	64.5
87.5°	2.3	2.3	25.3	30.0	20.7	23.0	27.7	30.0	36.9	34.6	27.7
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°	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4	2795.4
2.5°	2878.3	2786.1	2615.6	2452.0	2329.9	2251.5	2150.1	2113.2	2060.2	2053.3	2028.0
5°	3002.8	2827.6	2530.3	2295.3	2106.3	1963.4	1839.0	1735.3	1652.3	1633.9	1643.1
7.5°	3180.2	2919.8	2505.0	2184.7	1922.0	1677.7	1479.5	1357.4	1269.8	1237.5	1242.1
10°	3380.7	3041.9	2500.4	2067.1	1666.2	1366.6	1149.9	1041.6	990.9	972.5	951.8
12.5°	3618.1	3182.5	2488.9	1885.1	1385.0	1090.0	935.6	871.1	822.7	808.9	808.9
15°	3885.4	3332.3	2433.6	1659.2	1124.6	901.1	797.4	746.7	730.5	716.7	716.7
17.5°	4164.2	3479.8	2318.3	1380.4	933.3	772.0	707.5	677.5	654.5	638.3	638.3
20°	4482.3	3625.0	2134.0	1133.8	788.1	689.0	638.3	603.8	585.3	571.5	566.9
22.5°	4784.2	3742.5	1898.9	931.0	686.7	619.9	573.8	536.9	518.5	511.6	511.6
25°	5097.6	3814.0	1615.5	769.7	626.8	562.3	511.6	481.6	465.5	460.9	458.6
27.5°	5401.8	3855.4	1366.6	672.9	571.5	509.3	460.9	437.9	421.7	417.1	419.4
30°	5770.5	3862.3	1124.6	603.8	523.1	458.6	414.8	394.1	384.9	380.2	377.9
32.5°	6143.8	3853.1	944.8	562.3	477.0	414.8	377.9	361.8	354.9	348.0	348.0
35°	6563.2	3804.7	804.3	520.8	433.2	377.9	345.7	331.8	322.6	315.7	313.4
37.5°	7084.0	3779.4	723.6	474.7	394.1	343.4	313.4	299.6	292.7	283.5	281.1
40°	7904.5	3892.3	698.3	433.2	354.9	311.1	283.5	267.3	258.1	248.9	246.6
42.5°	8927.7	4090.5	656.8	391.8	320.3	281.1	253.5	235.1	218.9	207.4	202.8
45°	10252.7	4350.9	592.3	348.0	290.4	248.9	223.5	200.5	179.8	170.5	168.2
47.5°	11642.4	4602.1	534.6	313.4	258.1	221.2	193.6	168.2	149.8	142.9	140.6
50°	12495.0	4652.8	497.8	274.2	225.8	191.3	163.6	140.6	129.1	122.1	122.1
52.5°	12884.5	4572.1	447.1	239.7	195.9	168.2	140.6	122.1	115.2	110.6	108.3
55°	13156.4	4447.7	380.2	207.4	168.2	142.9	124.4	110.6	101.4	96.8	94.5
57°	13315.4	4279.5	329.5	182.1	145.2	124.4	110.6	99.1	89.9	80.7	80.7
57.5°	13322.3	4214.9	315.7	179.8	138.3	119.8	108.3	96.8	85.3	76.0	73.7
60°	13117.2	3772.5	253.5	152.1	110.6	101.4	89.9	76.0	59.9	50.7	48.4
62.5°	12458.2	3210.2	209.7	129.1	89.9	78.4	64.5	57.6	41.5	30.0	30.0
65°	11460.3	2604.1	179.8	103.7	73.7	57.6	43.8	41.5	25.3	13.8	11.5
67.5°	10017.7	2028.0	152.1	85.3	62.2	41.5	30.0	27.7	13.8	4.6	0.0
70°	7632.5	1382.7	126.7	69.1	46.1	30.0	20.7	16.1	9.2	2.3	0.0
72.5°	4399.3	760.5	106.0	53.0	34.6	23.0	16.1	9.2	9.2	0.0	0.0
75°	1571.7	327.2	80.7	39.2	27.7	18.4	11.5	4.6	6.9	2.3	0.0
77.5°	500.1	175.1	53.0	30.0	23.0	13.8	9.2	4.6	4.6	2.3	0.0
80°	147.5	92.2	32.3	25.3	16.1	11.5	6.9	2.3	4.6	2.3	0.0
82.5°	80.7	46.1	25.3	18.4	16.1	9.2	6.9	2.3	2.3	2.3	0.0
85°	41.5	27.7	20.7	18.4	16.1	9.2	6.9	2.3	0.0	2.3	2.3
87.5°	23.0	20.7	20.7	18.4	16.1	11.5	6.9	2.3	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)