

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: P647134

Luminaire Tested: **GALN-SA8C-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27034.6 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 429
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

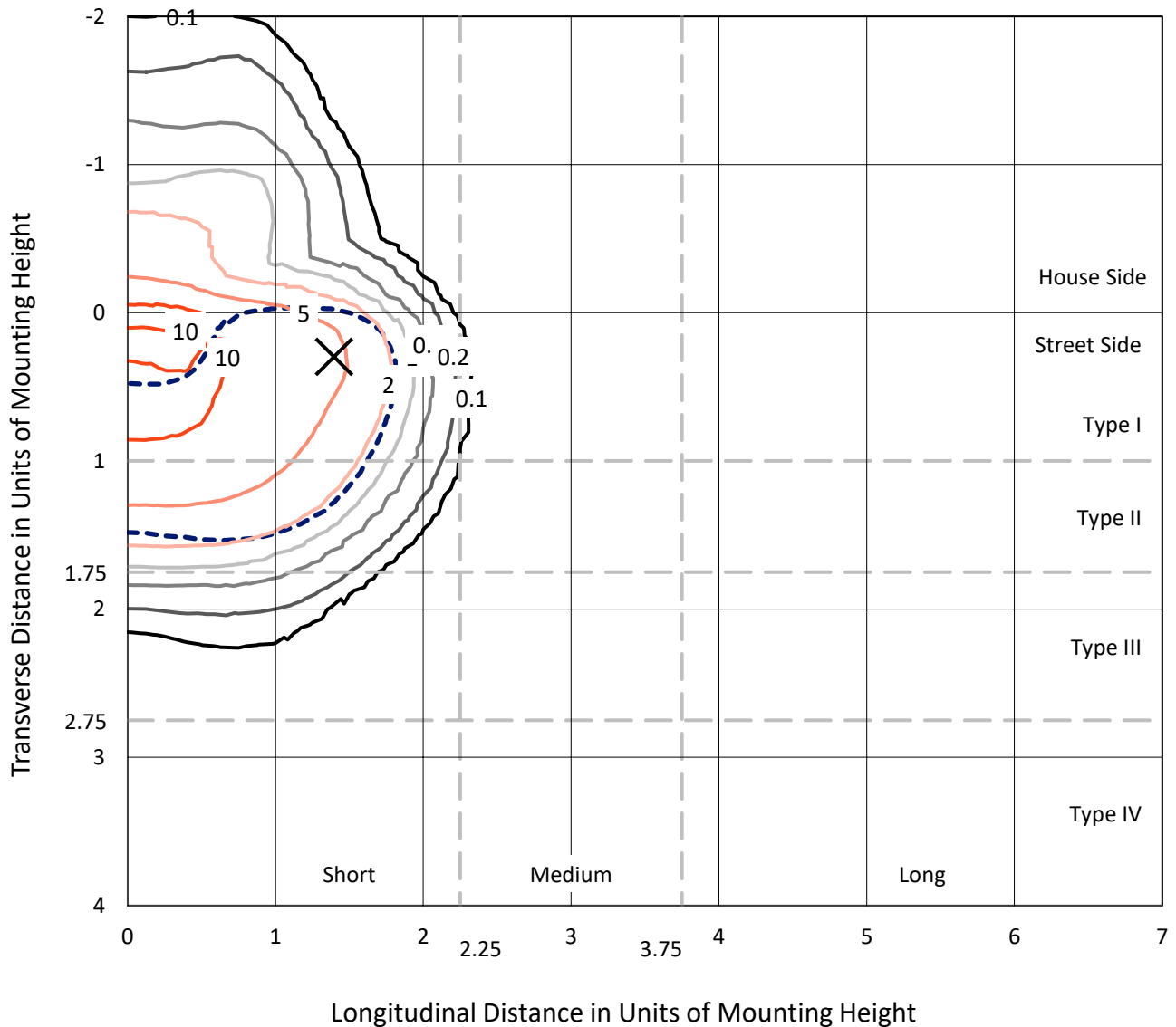




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Iso-Footcandle Lines of Horizontal Illumination

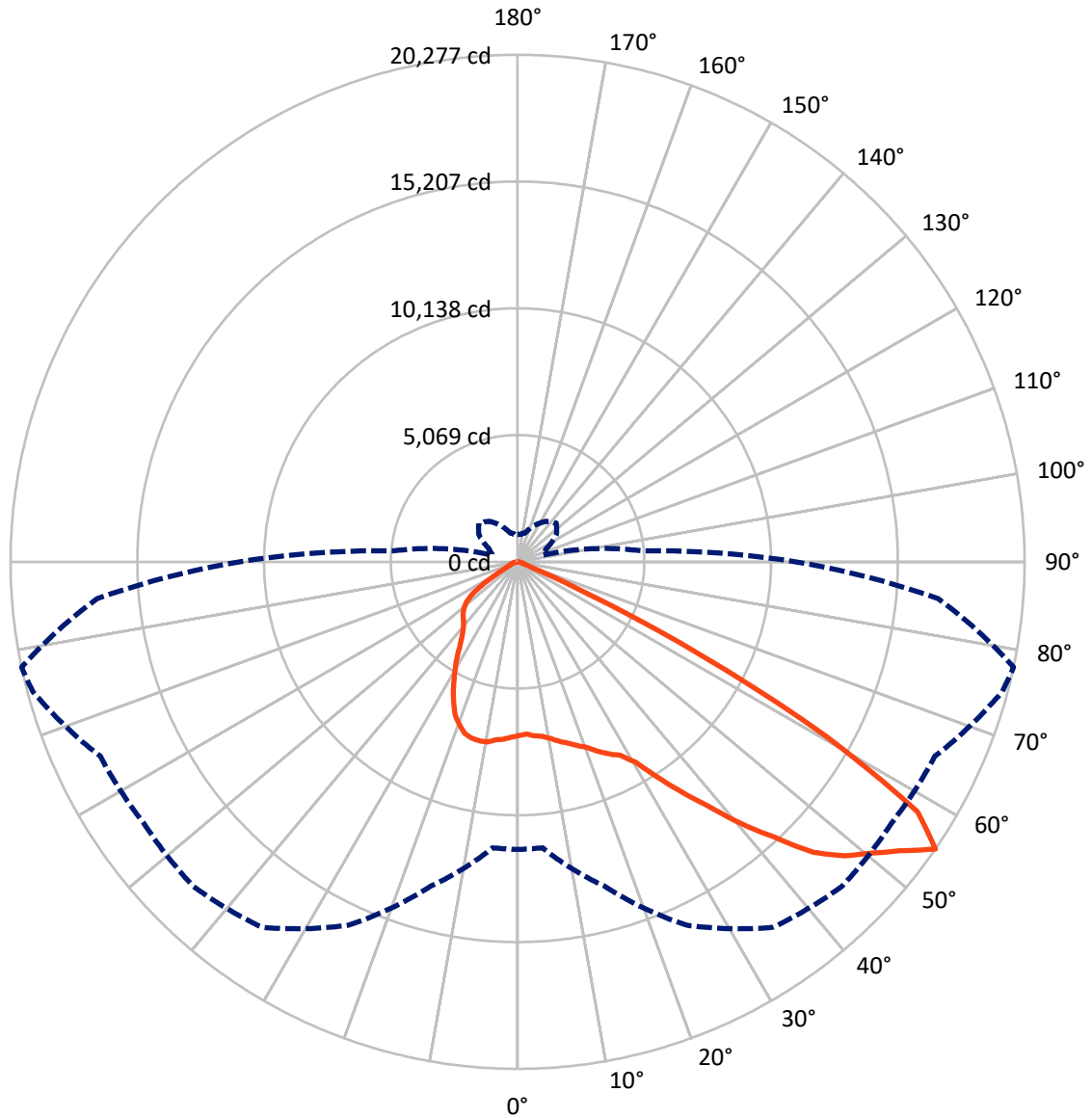
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5021.4	0.0	5021.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22013.2	0.0	22013.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	27034.6	0.0	27034.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.8	2.3
10°-20°	1640.2	6.1
20°-30°	2875.1	10.6
30°-40°	4740.6	17.5
40°-50°	6898.2	25.5
50°-60°	7816.3	28.9
60°-70°	2234.8	8.3
70°-80°	173.5	0.6
80°-90°	36.1	0.1
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°	27034.6	100.0
0°-180°	27034.6	100.0

Coefficient of Utilization

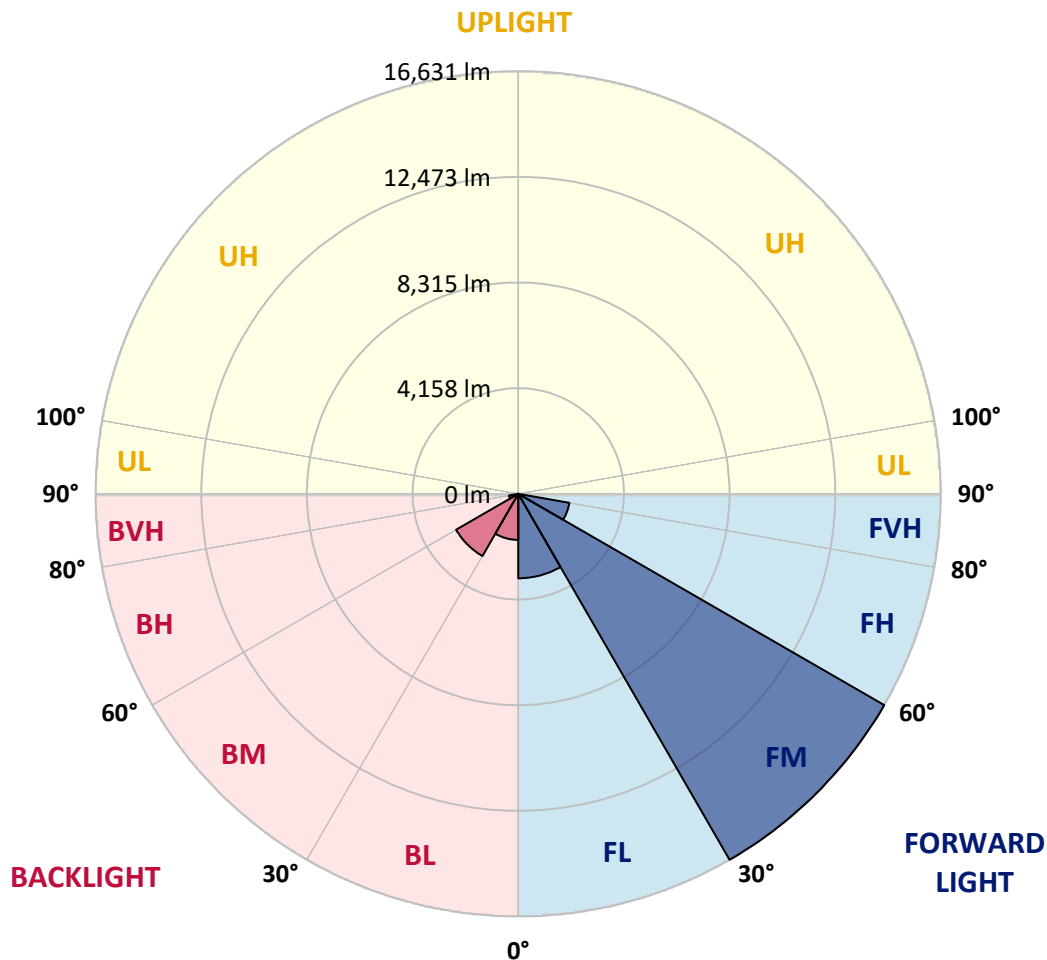


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3323.3	12.3			
FM (30°-60°)	16630.5	61.5			
FH (60°-80°)	2041.8	7.6			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1811.7	6.7	B3/2500		
BM (30°-60°)	2824.6	10.4	B3/5000		
BH (60°-80°)	366.5	1.4	B1/500		G1/500
BVH (80°-90°)	18.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6
2.5°	6534.9	6597.8	6607.4	6684.8	6679.9	6810.5	6849.1	6854.0	6941.0	6897.4	7008.6
5°	6351.2	6317.4	6302.9	6438.3	6476.9	6592.9	6689.6	6747.6	6926.4	6989.3	7105.3
7.5°	6187.0	6187.0	6196.6	6317.4	6302.9	6452.8	6554.3	6733.1	6994.1	7047.3	7187.5
10°	6027.5	5969.4	6041.9	6167.6	6273.9	6341.6	6554.3	6723.5	7028.0	7182.6	7375.9
12.5°	5945.2	5974.2	5983.9	6075.8	6191.7	6394.8	6510.8	6791.1	7269.6	7361.5	7569.3
15°	6462.4	6404.5	6264.2	6182.1	6278.8	6375.4	6665.4	6950.6	7395.3	7525.8	7757.8
17.5°	7061.8	7013.5	6897.4	6675.1	6457.6	6636.5	6863.6	7124.6	7530.7	7724.0	8067.2
20°	7844.8	7767.5	7651.5	7216.4	7028.0	6834.7	7076.3	7385.6	7753.0	7927.0	8279.8
22.5°	8777.7	8777.7	8516.7	7989.8	7598.3	7414.6	7516.2	7695.0	7999.5	8236.4	8584.3
25°	9749.2	9720.2	9483.4	8937.2	8275.0	8057.5	8173.5	8299.2	8381.3	8511.8	8743.8
27.5°	10860.9	10691.8	10392.1	9787.9	9203.1	8782.5	8908.2	8797.0	8695.5	8763.2	9096.7
30°	11614.9	11721.4	11339.5	10759.4	10208.4	9739.6	9763.8	9667.1	9203.1	9299.7	9497.9
32.5°	12398.0	12465.7	12253.0	11934.0	11382.9	10836.8	10638.6	10556.4	10208.4	10251.9	10058.6
35°	13050.6	13181.0	12992.6	12852.4	12692.8	12253.0	11706.8	11972.7	11412.0	11305.7	10803.0
37.5°	13649.9	13611.2	13833.6	13688.6	13654.7	13345.4	12746.1	12799.2	12422.2	12398.0	11818.0
40°	14186.4	14196.1	14500.6	14568.3	14433.0	13881.9	13011.9	13432.4	13736.9	13765.9	13021.5
42.5°	14631.1	14761.6	15022.6	15568.8	15365.8	14447.4	13287.4	13746.6	14877.6	15056.5	14162.3
45°	15017.8	15283.6	15607.5	16095.7	15979.7	15249.8	13973.7	14394.3	16095.7	16564.5	15235.3
47.5°	15042.0	15389.9	15742.8	16467.8	16612.8	15680.0	14684.3	15419.0	17062.4	17569.9	16018.3
50°	14945.3	15129.0	15834.7	16622.5	16951.2	16380.8	15680.0	16279.4	18000.1	18319.1	16414.7
52.5°	13799.7	13939.9	15356.1	16767.6	17560.3	17173.5	16999.6	17478.0	18957.1	19194.0	16786.9
55°	11503.8	11479.6	13427.6	16037.6	17840.6	18348.1	18241.8	18410.9	20064.0	20276.6	16878.7
57.5°	7869.0	8308.9	9990.9	13355.1	16124.6	18072.6	18183.8	17903.4	18773.4	18855.6	14713.3
60°	4243.9	4427.6	5780.9	8913.0	12277.2	14727.8	15017.8	14510.2	14442.6	14210.6	10503.2
62.5°	1686.9	1778.7	2547.3	4413.0	6689.6	8951.7	9575.2	9367.4	8922.7	8313.7	5437.7
65°	802.3	860.4	1266.4	2063.9	2967.8	3731.5	4355.0	4548.4	3354.5	3021.0	1793.2
67.5°	546.2	589.7	923.2	1179.4	1058.5	1106.8	1440.4	1338.9	787.9	671.9	497.8
70°	415.7	444.7	739.5	802.3	473.7	333.5	372.2	348.0	323.8	328.7	323.8
72.5°	294.9	319.0	541.4	473.7	207.8	154.6	198.2	236.9	236.9	236.9	232.0
75°	178.8	203.0	314.2	183.7	82.1	82.1	125.7	159.5	169.2	174.0	164.4
77.5°	91.8	116.0	106.3	53.2	53.2	62.9	91.8	111.2	120.8	120.8	116.0
80°	19.3	19.3	19.3	29.0	53.2	67.7	91.8	101.5	116.0	116.0	106.3
82.5°	0.0	4.9	14.5	29.0	48.3	62.9	87.0	101.5	116.0	120.8	111.2
85°	0.0	4.9	9.6	19.3	33.8	38.7	33.8	29.0	29.0	29.0	29.0
87.5°	0.0	0.0	4.9	4.9	4.9	9.6	9.6	9.6	9.6	9.6	9.6
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°	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6	6950.6
2.5°	7018.3	7032.8	7008.6	7003.8	6984.4	7042.5	6902.3	6868.5	6955.5	6873.3	6892.6
5°	7110.1	7143.9	7100.5	7028.0	6921.6	6757.3	6617.1	6433.4	6346.4	6283.6	6273.9
7.5°	7177.8	7202.0	7158.5	6926.4	6607.4	6191.7	5882.4	5655.2	5476.4	5423.2	5336.2
10°	7453.3	7458.2	7240.6	6728.2	6104.7	5558.6	5084.9	4736.8	4558.0	4446.8	4398.5
12.5°	7637.0	7627.3	7187.5	6336.7	5505.4	4780.4	4239.0	3818.5	3654.2	3601.0	3567.1
15°	7869.0	7815.8	7061.8	5935.6	4732.1	3949.0	3460.8	3170.8	3156.3	3122.4	3156.3
17.5°	8052.7	7902.8	6878.1	5205.7	3992.5	3253.0	2934.0	2953.3	2991.9	3025.8	3030.6
20°	8352.3	8043.0	6457.6	4567.7	3306.1	2789.0	2784.1	2871.1	2967.8	3006.5	3045.2
22.5°	8579.5	8101.0	6008.1	3886.2	2745.4	2600.4	2682.6	2813.1	2885.6	2924.3	2982.3
25°	8661.7	7941.5	5408.7	3204.7	2474.7	2513.4	2639.1	2726.1	2817.9	2861.5	2837.3
27.5°	8743.8	7859.4	4693.4	2639.1	2329.7	2455.4	2561.7	2648.8	2677.8	2735.8	2774.5
30°	8942.0	7574.1	4050.5	2281.4	2257.2	2416.7	2494.1	2523.1	2600.4	2634.2	2634.2
32.5°	9101.5	7463.0	3368.9	2112.2	2247.6	2436.1	2445.8	2445.8	2455.4	2431.3	2421.6
35°	9430.2	7081.1	2759.9	2010.7	2242.7	2440.9	2465.1	2382.9	2160.6	2073.6	2049.4
37.5°	9836.3	6834.7	2310.4	1986.5	2276.6	2498.9	2537.6	2228.3	1938.2	1798.1	1773.9
40°	10329.3	6660.6	2015.6	1976.9	2353.9	2634.2	2518.3	2107.4	1730.4	1527.4	1517.8
42.5°	10904.4	6501.1	1817.4	1972.1	2450.6	2774.5	2498.9	2005.9	1517.8	1382.4	1401.7
45°	11363.6	6414.1	1682.0	1938.2	2484.5	2856.6	2513.4	1827.1	1430.7	1343.7	1353.4
47.5°	11721.4	6230.4	1570.9	1880.2	2479.6	2885.6	2382.9	1754.5	1387.2	1411.4	1435.6
50°	11731.0	5983.9	1430.7	1754.5	2407.1	2832.4	2233.1	1686.9	1377.5	1479.1	1527.4
52.5°	11600.5	5635.9	1280.9	1575.7	2237.9	2648.8	2097.7	1657.9	1334.1	1324.4	1382.4
55°	11136.5	4983.4	1029.6	1276.1	1889.9	2184.7	1976.9	1604.8	1203.5	1092.4	1102.1
57.5°	9000.0	3572.0	758.9	913.5	1338.9	1599.9	1783.6	1580.6	1082.7	928.0	932.9
60°	5573.1	2025.2	555.9	623.5	826.5	971.5	1445.3	1469.4	966.7	783.0	773.4
62.5°	2861.5	1000.5	430.2	439.9	507.5	570.3	990.9	1232.5	874.8	744.4	744.4
65°	957.1	493.1	377.0	338.3	338.3	352.8	599.4	855.5	739.5	623.5	623.5
67.5°	410.8	367.4	328.7	294.9	270.7	256.2	338.3	497.8	551.0	473.7	454.4
70°	319.0	309.4	285.2	246.5	212.7	193.3	198.2	256.2	314.2	304.5	294.9
72.5°	236.9	236.9	227.1	193.3	164.4	140.2	130.5	135.3	149.9	154.6	159.5
75°	164.4	169.2	169.2	149.9	120.8	101.5	87.0	72.5	58.0	48.3	43.5
77.5°	111.2	116.0	125.7	111.2	91.8	67.7	53.2	38.7	24.2	9.6	9.6
80°	96.7	111.2	120.8	111.2	96.7	72.5	53.2	29.0	14.5	0.0	0.0
82.5°	101.5	111.2	125.7	106.3	91.8	67.7	53.2	33.8	14.5	4.9	0.0
85°	24.2	24.2	29.0	33.8	43.5	48.3	38.7	24.2	14.5	4.9	0.0
87.5°	9.6	9.6	9.6	9.6	9.6	4.9	4.9	4.9	4.9	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)