

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: P648115

Luminaire Tested: **GALN-SA8A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21615.5 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

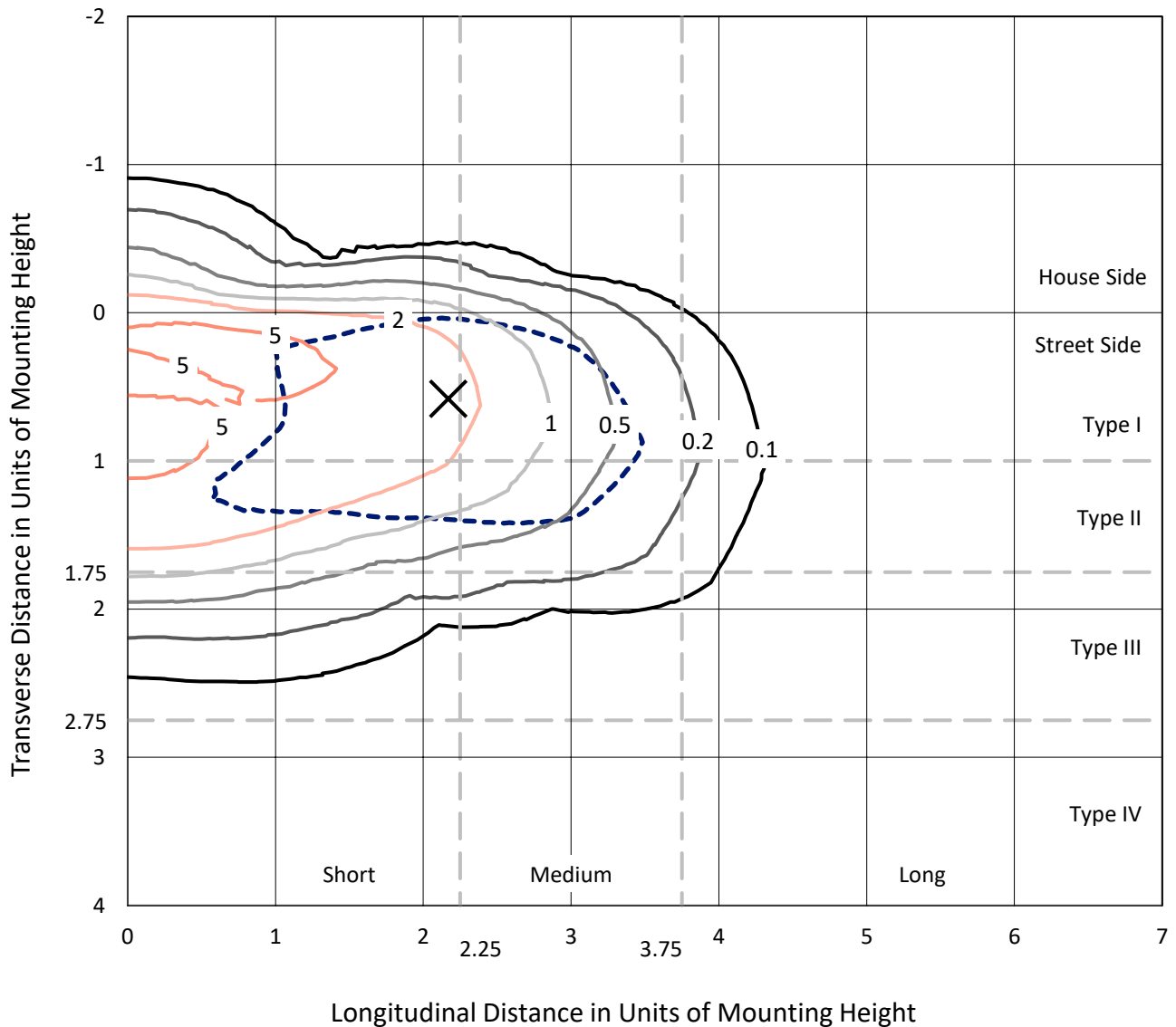
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

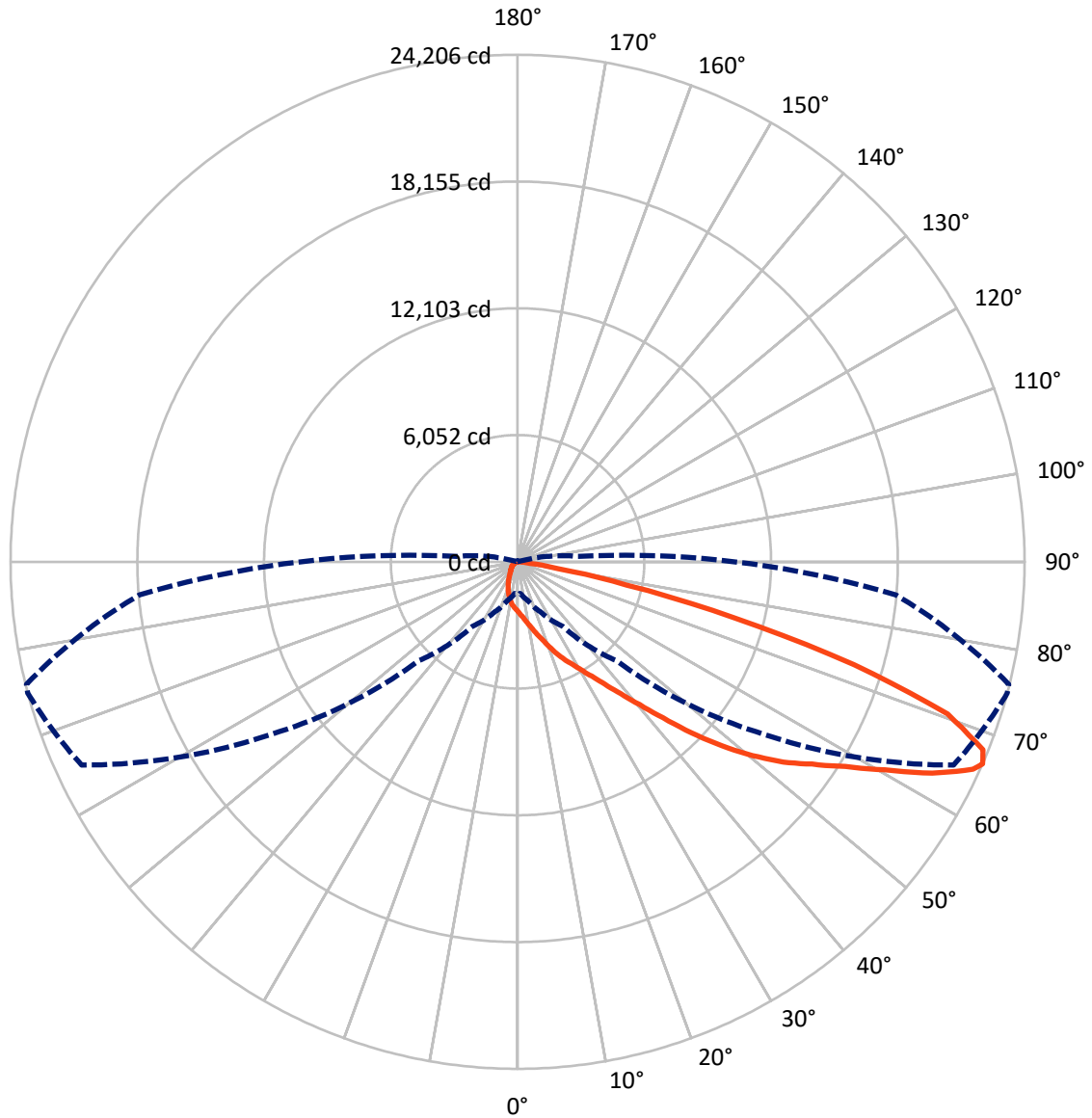
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.5	0.0	1334.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	20281.1	0.0	20281.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	21615.5	0.0	21615.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.1
10°-20°	671.0	3.1
20°-30°	1158.7	5.4
30°-40°	2090.0	9.7
40°-50°	3775.7	17.5
50°-60°	5886.4	27.2
60°-70°	5591.8	25.9
70°-80°	2095.7	9.7
80°-90°	118.2	0.5
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°	21615.5	100.0
0°-180°	21615.5	100.0

Coefficient of Utilization

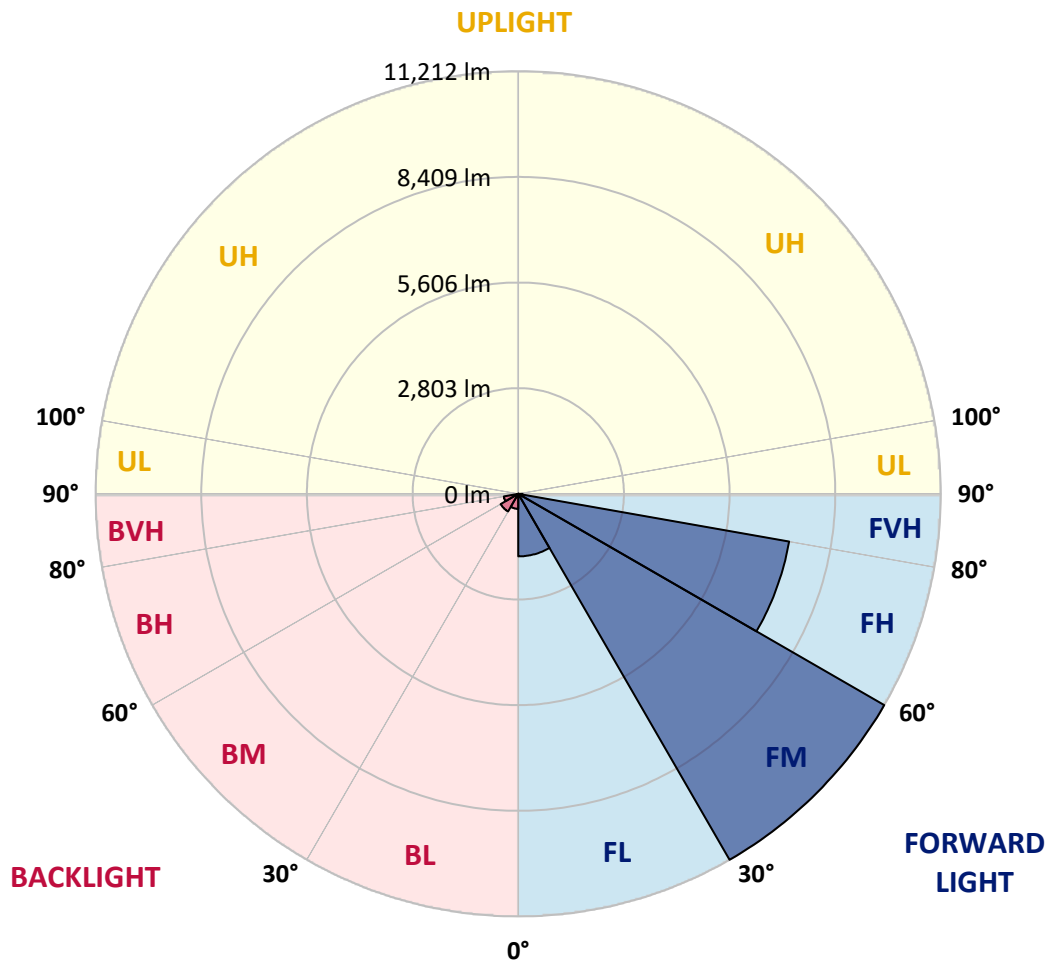


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.2	7.7			
FM (30°-60°)	11212.0	51.9			
FH (60°-80°)	7297.8	33.8			G3/7500
FVH (80°-90°)	112.1	0.5			G2/225
BL (0°-30°)	398.5	1.8	B1/500		
BM (30°-60°)	540.1	2.5	B1/1000		
BH (60°-80°)	389.7	1.8	B1/500		G1/500
BVH (80°-90°)	6.1	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9
2.5°	2824.2	2789.0	2800.2	2784.2	2747.5	2693.1	2645.1	2576.5	2507.7	2496.5	2419.8
5°	3196.6	3187.0	3174.2	3127.9	3102.2	3019.2	2920.0	2801.8	2659.5	2634.0	2495.0
7.5°	3450.7	3445.9	3452.3	3428.4	3406.0	3330.8	3225.3	3064.0	2843.4	2829.0	2597.2
10°	3533.8	3546.6	3570.6	3608.9	3644.1	3620.1	3540.2	3338.8	3081.5	3039.9	2713.9
12.5°	3485.8	3500.2	3557.8	3660.1	3773.6	3839.1	3807.1	3660.1	3334.0	3300.5	2845.0
15°	3362.8	3380.4	3461.9	3620.1	3823.1	4008.5	4088.4	3983.0	3628.1	3573.8	3003.2
17.5°	3180.6	3206.2	3322.8	3532.2	3810.3	4130.0	4355.4	4320.2	3941.4	3890.3	3175.8
20°	3043.1	3062.3	3161.4	3401.2	3756.0	4197.1	4609.4	4708.6	4328.2	4240.3	3378.8
22.5°	3134.3	3140.6	3174.2	3318.0	3658.5	4214.7	4833.2	5112.9	4739.0	4660.6	3589.7
25°	3580.2	3516.2	3482.7	3450.7	3637.7	4198.7	5036.2	5534.9	5148.1	5065.0	3799.1
27.5°	4283.4	4254.7	4085.2	3858.2	3815.1	4219.5	5170.5	5934.4	5533.3	5443.8	4003.7
30°	5049.0	4999.5	4895.6	4563.1	4229.1	4366.6	5267.9	6322.8	5988.8	5870.5	4190.7
32.5°	5752.2	5784.2	5629.1	5287.1	4900.3	4679.8	5394.2	6746.4	6511.4	6364.4	4408.1
35°	6572.2	6636.1	6398.0	6070.3	5617.9	5245.6	5640.3	7224.3	7174.7	6989.3	4743.7
37.5°	7404.8	7443.2	7297.8	6837.5	6429.9	5964.8	6103.9	7814.0	7991.5	7833.2	5144.9
40°	8104.9	8157.7	8050.6	7641.5	7206.7	6797.5	6776.7	8456.6	8963.2	8800.1	5742.7
42.5°	8640.3	8680.3	8683.5	8394.2	8002.7	7817.2	7635.0	9276.4	10181.1	9992.5	6436.3
45°	9316.4	9374.0	9340.4	9143.8	8851.3	8817.8	8723.5	10267.4	11638.7	11400.6	7336.2
47.5°	10361.7	10400.0	10317.0	10085.2	9787.9	9840.7	9784.8	11378.2	13125.1	12920.6	8267.9
50°	11087.4	11151.3	11269.6	11362.3	11146.5	10951.5	10785.3	12415.5	14536.4	14352.6	9220.5
52.5°	11079.4	11184.8	11558.8	12025.5	12497.0	12437.9	11960.0	13561.5	15883.8	15656.9	10115.6
55°	10332.9	10537.5	11087.4	11915.2	13221.0	13871.5	13654.2	14888.0	17047.3	16893.9	11152.8
57.5°	8792.2	8916.9	9680.9	10838.0	12816.7	14546.0	15616.9	16686.1	18442.6	18370.7	12763.9
60°	5913.7	5969.6	6952.6	8383.0	10911.5	13873.1	17055.3	18861.4	20160.8	20125.7	14645.2
62.5°	3388.4	3412.3	4125.2	5331.9	7764.5	11757.0	17176.8	21544.9	22221.0	22240.2	16822.0
65°	1823.7	1836.4	2411.8	3129.4	4724.5	8379.8	15445.8	23015.3	23886.4	23923.2	18170.9
66°	1574.3	1513.6	1919.5	2667.5	3759.2	6669.7	14351.1	22962.6	24206.1	24166.1	18123.0
67.5°	1197.1	1251.5	1532.7	2050.6	2785.8	4742.1	11848.1	21941.3	23963.2	23838.4	17386.2
70°	856.7	879.1	1091.7	1462.4	1897.1	2602.0	7571.1	18223.7	21779.8	21612.1	15147.0
72.5°	553.0	577.0	773.6	1058.1	1371.3	1420.9	4238.7	13166.7	16791.6	16767.6	11407.0
75°	394.8	417.2	511.5	757.6	1030.9	879.1	2041.0	8873.7	10675.0	10603.1	7056.5
77.5°	286.1	297.3	342.0	495.5	736.8	629.7	946.2	4739.0	5314.3	5565.3	3118.3
80°	164.6	174.2	238.1	302.1	498.7	429.9	452.3	1902.0	1961.1	1866.8	975.0
82.5°	81.5	92.7	142.3	206.2	311.6	289.3	207.8	572.2	604.2	588.2	246.2
85°	19.2	24.0	79.9	135.9	151.8	129.4	100.7	167.8	207.8	203.0	94.3
87.5°	1.6	3.2	28.7	24.0	25.6	43.1	35.2	43.1	67.1	62.3	33.6
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°	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9	2363.9
2.5°	2384.6	2354.2	2266.4	2180.0	2108.1	2033.1	1964.3	1924.3	1908.3	1890.8	1898.8
5°	2418.2	2344.7	2167.3	2013.9	1863.6	1735.8	1633.4	1568.0	1535.9	1531.2	1523.2
7.5°	2462.9	2336.7	2061.8	1822.0	1625.4	1483.2	1366.6	1272.2	1243.5	1217.9	1197.1
10°	2517.3	2322.3	1930.7	1620.7	1411.3	1232.3	1078.8	966.9	909.5	893.5	904.6
12.5°	2574.8	2295.1	1793.3	1435.2	1193.9	965.4	823.1	767.2	751.2	744.8	746.4
15°	2632.4	2261.5	1649.5	1256.2	951.0	770.4	704.9	690.4	684.0	680.9	677.7
17.5°	2685.1	2207.2	1488.0	1082.0	770.4	658.5	634.5	621.7	608.9	604.2	596.2
20°	2747.5	2144.9	1342.5	887.1	652.1	596.2	567.4	543.4	524.2	511.5	509.9
22.5°	2806.6	2065.0	1190.7	735.2	594.5	535.4	489.1	463.5	441.1	425.2	429.9
25°	2838.5	1967.5	1054.9	640.9	541.8	474.7	423.5	391.6	367.6	359.6	358.0
27.5°	2838.5	1847.6	922.2	586.5	493.8	420.3	367.6	337.2	321.3	310.1	311.6
30°	2816.2	1714.9	799.1	545.0	452.3	372.4	322.8	295.7	282.9	274.9	273.3
32.5°	2798.6	1588.7	693.7	505.0	409.2	330.8	287.7	266.9	254.2	246.2	246.2
35°	2825.8	1480.0	612.1	465.1	369.2	298.9	260.5	241.3	228.6	222.1	220.6
37.5°	2897.7	1380.9	549.8	422.0	332.5	271.7	241.3	218.9	206.2	198.2	195.0
40°	3075.1	1325.0	503.5	382.0	297.3	249.3	218.9	198.2	182.2	174.2	172.7
42.5°	3359.6	1326.6	458.7	345.2	270.1	230.1	199.8	175.8	158.2	150.3	148.6
45°	3787.9	1387.3	423.5	310.1	246.2	209.4	179.0	153.5	137.4	129.4	129.4
47.5°	4301.0	1505.6	393.1	279.7	223.8	190.2	158.2	132.6	116.7	110.2	110.2
50°	4857.2	1659.0	362.8	247.7	204.6	169.4	135.9	115.1	102.3	97.5	97.5
52.5°	5424.6	1844.4	332.5	222.1	183.8	147.0	116.7	102.3	91.1	87.9	86.3
55°	6169.4	2081.0	300.5	195.0	161.5	126.3	103.9	89.5	76.7	72.0	70.3
57.5°	7315.3	2437.4	265.3	171.0	132.6	105.5	89.5	75.1	60.8	52.8	51.1
60°	8697.9	2872.1	228.6	150.3	107.1	86.3	72.0	57.6	44.8	35.2	33.6
62.5°	9992.5	3148.6	193.4	126.3	84.7	65.5	51.1	43.1	31.9	22.4	20.7
65°	10564.7	3055.9	159.8	102.3	67.1	46.4	33.6	30.4	19.2	9.6	8.0
66°	10374.5	2918.5	147.0	92.7	60.8	39.9	28.7	25.6	14.4	4.8	4.8
67.5°	9813.5	2594.0	127.9	79.9	52.8	31.9	22.4	19.2	8.0	1.6	0.0
70°	8408.6	2098.5	100.7	59.1	38.4	22.4	12.8	9.6	4.8	0.0	0.0
72.5°	6458.7	1563.1	79.9	44.8	27.2	12.8	6.4	3.2	4.8	0.0	0.0
75°	3957.4	893.5	62.3	33.6	17.6	8.0	4.8	0.0	4.8	1.6	0.0
77.5°	1756.5	401.2	41.6	22.4	12.8	6.4	3.2	0.0	3.2	1.6	0.0
80°	444.4	131.1	24.0	16.0	9.6	4.8	1.6	0.0	3.2	3.2	1.6
82.5°	121.4	47.9	17.6	12.8	8.0	4.8	1.6	0.0	3.2	3.2	3.2
85°	47.9	22.4	16.0	12.8	9.6	4.8	1.6	0.0	3.2	3.2	3.2
87.5°	22.4	16.0	16.0	14.4	11.2	4.8	1.6	0.0	3.2	1.6	3.2
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)