

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: P650727

Luminaire Tested: **GALN-SA2C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8869.2 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

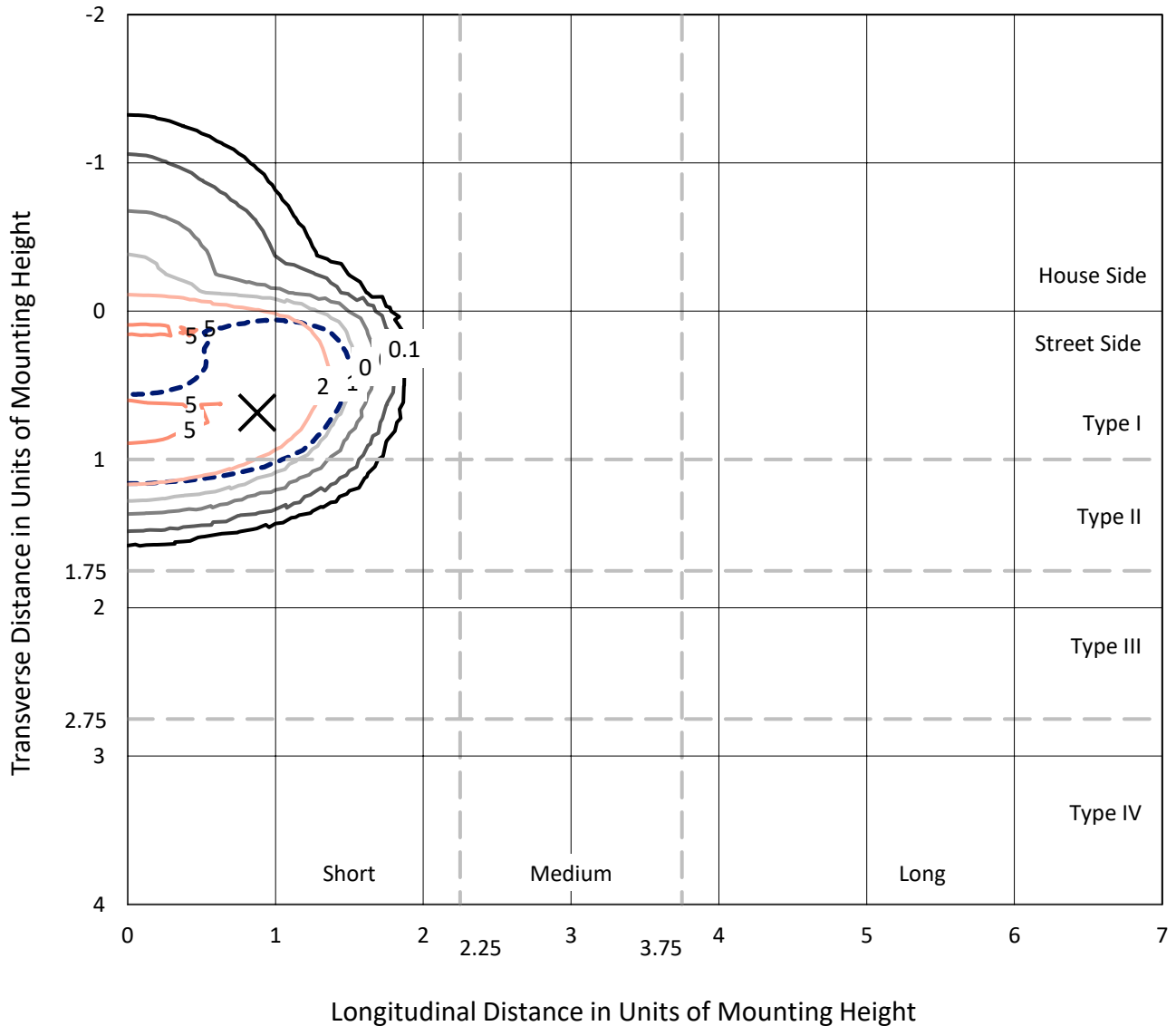
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

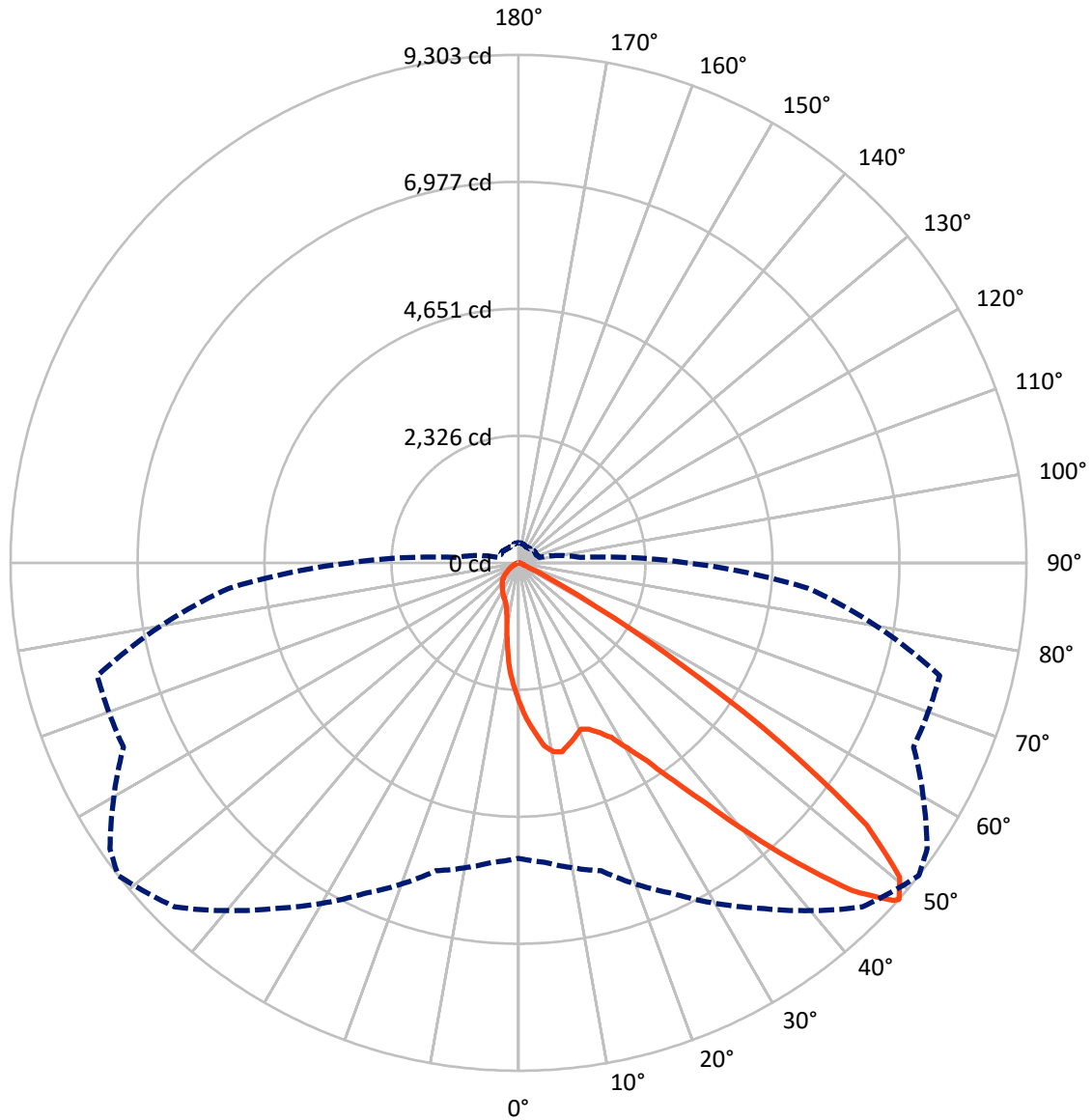
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1079.9	0.0	1079.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7789.3	0.0	7789.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	8869.2	0.0	8869.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	2.6
10°-20°	612.6	6.9
20°-30°	1046.0	11.8
30°-40°	1926.3	21.7
40°-50°	2991.5	33.7
50°-60°	1800.4	20.3
60°-70°	208.2	2.3
70°-80°	40.3	0.5
80°-90°	9.3	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°	8869.2	100.0
0°-180°	8869.2	100.0

Coefficient of Utilization

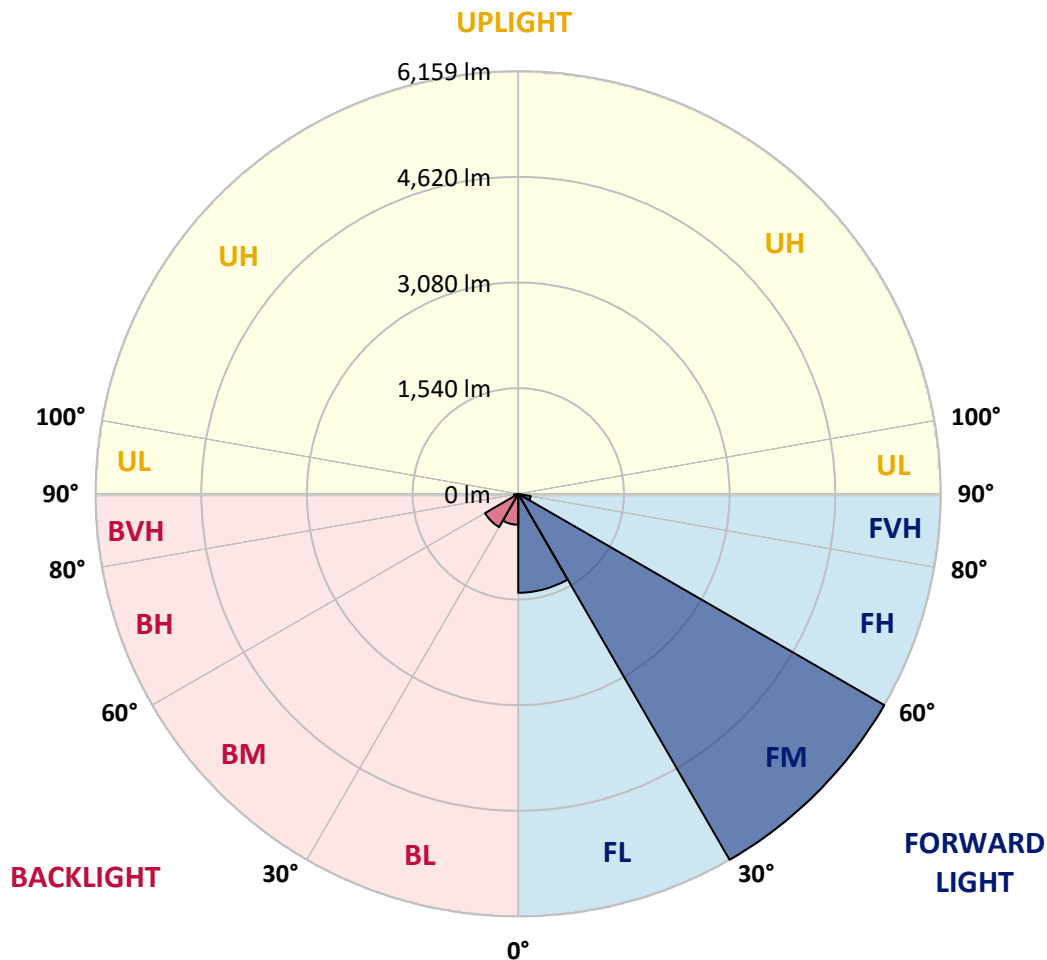


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.0	16.3			
FM (30°-60°)	6159.5	69.4			
FH (60°-80°)	183.4	2.1			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	451.1	5.1	B1/500		
BM (30°-60°)	558.7	6.3	B1/1000		
BH (60°-80°)	65.2	0.7	B0/110		G0/110
BVH (80°-90°)	4.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	3104.3	3033.2	3039.6	2993.1	2966.0	2922.0	2862.5	2850.9	2786.2	2698.3	2609.1
5°	3383.6	3366.8	3388.7	3321.5	3324.1	3251.7	3112.0	3114.6	2966.0	2822.5	2684.1
7.5°	3401.7	3362.9	3384.9	3444.3	3479.2	3466.3	3387.5	3318.9	3178.0	2967.2	2765.5
10°	3046.1	3119.8	3143.1	3241.4	3381.0	3528.4	3519.3	3523.2	3405.5	3130.1	2835.3
12.5°	2832.8	2783.6	2862.5	2922.0	3132.7	3418.5	3549.1	3577.5	3586.5	3287.9	2905.2
15°	2735.9	2735.9	2748.7	2765.5	2918.1	3181.8	3448.2	3530.9	3726.2	3494.8	3015.1
17.5°	2796.6	2794.0	2812.1	2777.2	2834.1	3037.1	3355.1	3449.5	3882.6	3697.7	3101.7
20°	2981.5	2990.5	2978.9	2878.1	2881.9	3034.5	3251.7	3400.4	3988.7	3873.6	3216.8
22.5°	3238.8	3243.9	3178.0	3068.1	3035.8	3110.8	3311.2	3425.0	4074.0	4084.3	3251.7
25°	3536.2	3515.5	3502.5	3347.3	3249.1	3313.8	3445.7	3511.6	4127.0	4265.3	3351.2
27.5°	3948.6	3907.2	3828.3	3690.0	3617.6	3525.8	3620.2	3728.7	4278.3	4518.8	3459.9
30°	4557.5	4521.3	4367.5	4189.0	3999.0	3908.5	3938.2	3997.7	4551.1	4812.3	3603.3
32.5°	5474.2	5398.0	5175.6	4835.5	4577.0	4327.4	4319.6	4383.0	4795.5	5218.2	3774.1
35°	6484.0	6460.7	6133.6	5783.2	5282.9	4897.6	4904.0	4937.7	5263.5	5750.9	3997.7
37.5°	7155.0	7283.0	7074.8	6698.6	6278.4	5727.6	5588.0	5599.6	5906.1	6381.8	4401.1
40°	7673.5	7564.9	7589.4	7501.6	7214.5	6839.5	6530.5	6469.7	6649.5	7080.0	4801.9
42.5°	7447.2	7452.4	7603.6	7811.8	7882.9	7855.8	7540.3	7425.3	7285.6	7651.5	5183.3
45°	6808.5	6941.7	7138.2	7689.0	8172.6	8626.4	8564.3	8372.9	7725.2	8104.0	5403.1
47.5°	5789.7	5784.5	6106.5	6822.7	7897.2	8959.9	9241.7	9107.4	8036.8	8053.6	5357.8
48°	5413.4	5506.5	5838.8	6681.8	7722.6	8910.8	9302.6	9133.2	7983.8	7986.4	5319.1
50°	4001.6	3984.7	4398.5	5432.9	6897.7	8372.9	9046.6	9178.4	7982.5	7646.3	5047.6
52.5°	2113.9	2186.3	2487.6	3415.9	4876.9	6852.5	7979.9	8185.5	7700.6	7090.4	4657.1
55°	898.6	812.0	1043.3	1542.5	2743.6	4578.2	5854.4	6312.0	6511.1	6274.5	4074.0
57.5°	320.7	350.4	403.4	580.5	1153.3	2505.7	3490.9	3846.4	4511.0	4604.1	2775.9
60°	205.5	209.5	226.2	266.3	433.1	965.8	1656.3	1939.3	2240.6	2313.0	1295.5
62.5°	159.0	160.3	168.1	174.5	205.5	374.9	621.9	737.0	765.4	658.1	340.0
65°	133.1	134.5	137.1	137.1	146.1	175.9	217.2	239.2	232.7	230.2	192.7
67.5°	102.2	104.7	109.9	109.9	115.0	107.3	120.3	128.0	144.8	175.9	164.2
70°	80.1	81.5	85.4	87.9	87.9	77.5	86.6	94.4	106.1	130.6	129.3
72.5°	62.1	64.7	67.2	67.2	63.3	53.0	62.1	68.5	76.3	90.5	87.9
75°	47.9	47.9	49.1	40.1	31.0	27.2	37.5	45.2	56.9	59.5	49.1
77.5°	13.0	14.2	13.0	11.6	13.0	19.4	24.6	28.4	36.2	36.2	32.3
80°	0.0	1.3	3.9	7.7	13.0	18.1	22.0	24.6	28.4	31.0	29.8
82.5°	0.0	1.3	3.9	7.7	11.6	14.2	19.4	20.7	23.3	27.2	27.2
85°	0.0	1.3	2.6	5.1	7.7	9.1	9.1	7.7	7.7	6.5	5.1
87.5°	0.0	0.0	1.3	2.6	2.6	3.9	3.9	3.9	3.9	3.9	3.9
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°	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3	2561.3
2.5°	2574.2	2534.1	2473.4	2377.7	2285.9	2226.4	2169.5	2106.2	2071.3	2068.7	2049.3
5°	2605.2	2514.8	2369.9	2205.7	2029.9	1878.6	1726.1	1626.5	1537.3	1488.1	1479.1
7.5°	2622.1	2504.4	2270.4	1994.9	1695.0	1448.0	1277.4	1152.0	1102.9	1066.6	1065.4
10°	2657.0	2486.2	2121.7	1715.7	1344.7	1095.1	977.4	920.6	893.4	883.0	867.6
12.5°	2682.8	2452.7	1969.1	1428.7	1062.8	907.6	855.9	843.0	844.3	849.4	843.0
15°	2719.0	2422.9	1763.6	1172.7	892.1	817.1	817.1	819.7	837.8	840.4	839.1
17.5°	2716.4	2364.7	1551.5	965.8	788.7	778.3	782.2	806.8	818.4	822.3	813.2
20°	2747.5	2310.5	1333.0	824.9	730.5	746.1	771.9	778.3	792.6	795.2	784.8
22.5°	2738.4	2174.7	1130.1	713.7	686.5	716.3	742.1	749.9	746.1	738.2	737.0
25°	2721.6	2058.3	943.9	640.0	654.2	686.5	711.1	696.9	689.1	690.5	691.7
27.5°	2691.9	1910.9	790.0	588.3	610.2	658.1	656.8	651.6	659.4	653.0	659.4
30°	2686.7	1763.6	663.3	541.8	577.9	612.8	615.4	624.4	633.5	621.9	633.5
32.5°	2694.5	1601.9	572.8	513.3	558.5	559.9	588.3	597.4	590.9	565.0	567.6
35°	2753.9	1477.8	506.8	497.8	527.5	528.8	556.0	544.3	515.9	500.4	509.4
37.5°	2879.3	1374.4	475.8	483.6	486.1	502.9	504.3	481.0	483.6	482.2	487.4
40°	3039.6	1295.5	453.8	470.6	468.0	479.7	433.1	446.1	457.7	461.5	464.1
42.5°	3149.5	1238.6	439.6	449.9	444.8	424.1	398.2	411.2	420.2	434.5	437.0
45°	3198.7	1193.4	422.8	413.8	413.8	376.3	365.9	368.4	389.1	404.7	402.1
47.5°	3118.5	1149.4	393.1	365.9	374.9	343.9	332.3	332.3	354.2	373.7	369.8
48°	3087.5	1131.3	394.3	355.6	362.1	338.8	327.1	324.5	349.1	367.2	367.2
50°	2933.7	1064.0	360.7	327.1	314.2	311.6	303.9	306.5	321.9	338.8	338.8
52.5°	2633.7	919.3	305.1	280.6	257.3	272.8	276.7	271.5	279.3	294.8	293.5
55°	2198.0	705.9	244.4	232.7	214.6	231.4	239.2	232.7	225.0	236.6	236.6
57.5°	1408.0	380.1	195.2	197.8	179.7	196.5	203.0	187.5	173.2	182.3	181.0
60°	634.8	227.6	160.3	156.4	144.8	164.2	174.5	156.4	137.1	143.5	150.0
62.5°	237.9	161.6	121.5	118.9	116.4	134.5	139.6	125.4	106.1	109.9	111.2
65°	174.5	142.2	97.0	87.9	93.1	106.1	103.4	89.2	76.3	76.3	78.9
67.5°	148.7	124.1	78.9	68.5	68.5	69.8	64.7	56.9	53.0	55.6	58.2
70°	116.4	98.2	62.1	53.0	47.9	42.6	37.5	36.2	32.3	36.2	34.9
72.5°	75.0	65.9	47.9	40.1	36.2	29.8	24.6	23.3	19.4	18.1	18.1
75°	40.1	40.1	37.5	32.3	28.4	23.3	19.4	15.5	10.3	7.7	7.7
77.5°	28.4	31.0	33.6	31.0	25.8	19.4	15.5	10.3	5.1	2.6	2.6
80°	27.2	31.0	33.6	29.8	25.8	19.4	14.2	7.7	3.9	1.3	1.3
82.5°	24.6	28.4	31.0	27.2	23.3	16.8	13.0	7.7	3.9	1.3	1.3
85°	5.1	6.5	7.7	7.7	9.1	11.6	9.1	6.5	2.6	1.3	1.3
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	2.6	2.6	1.3	1.3	1.3
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)