

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: P650871

Luminaire Tested: **GALN-SA4C-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13967.3 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

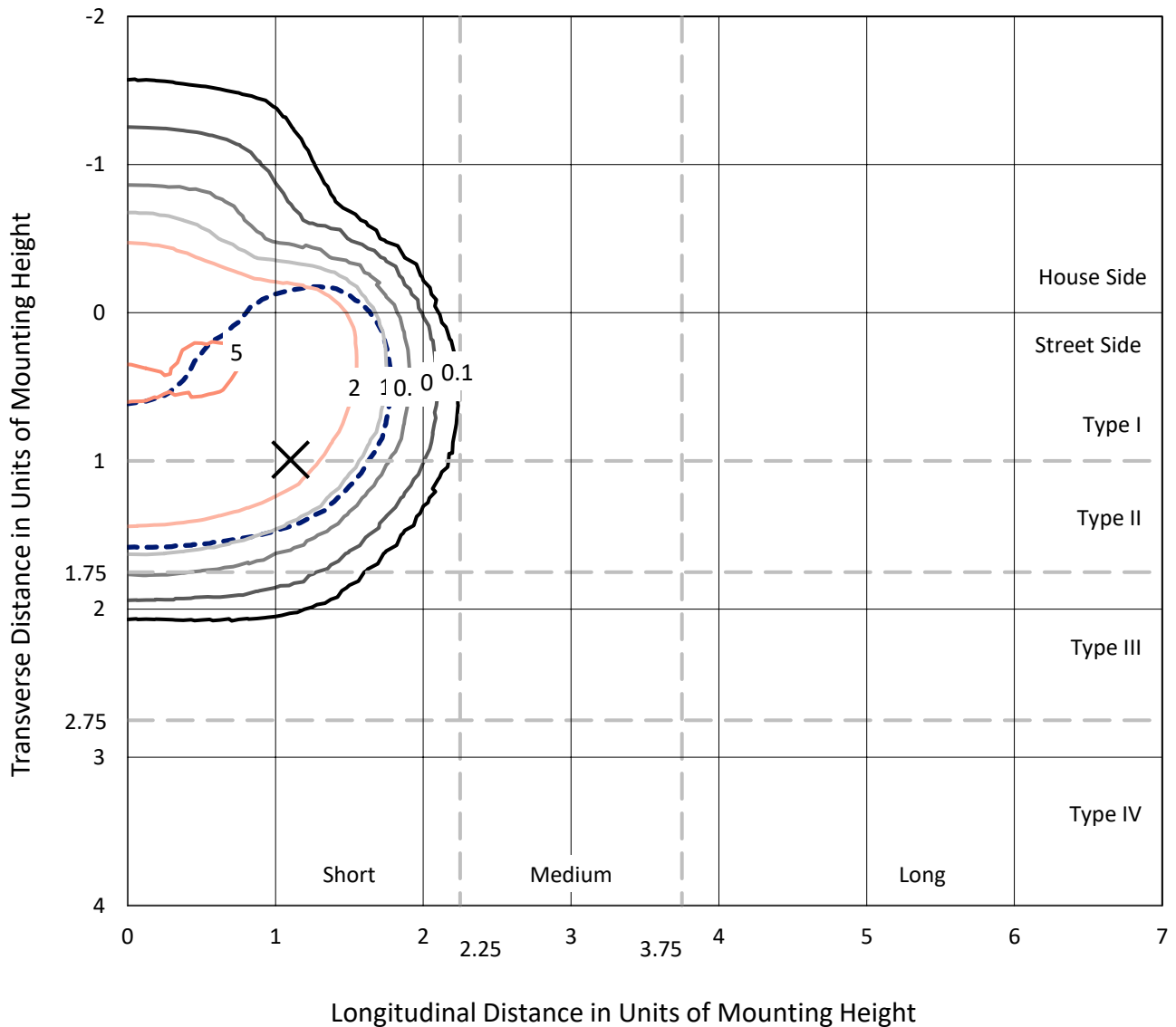
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

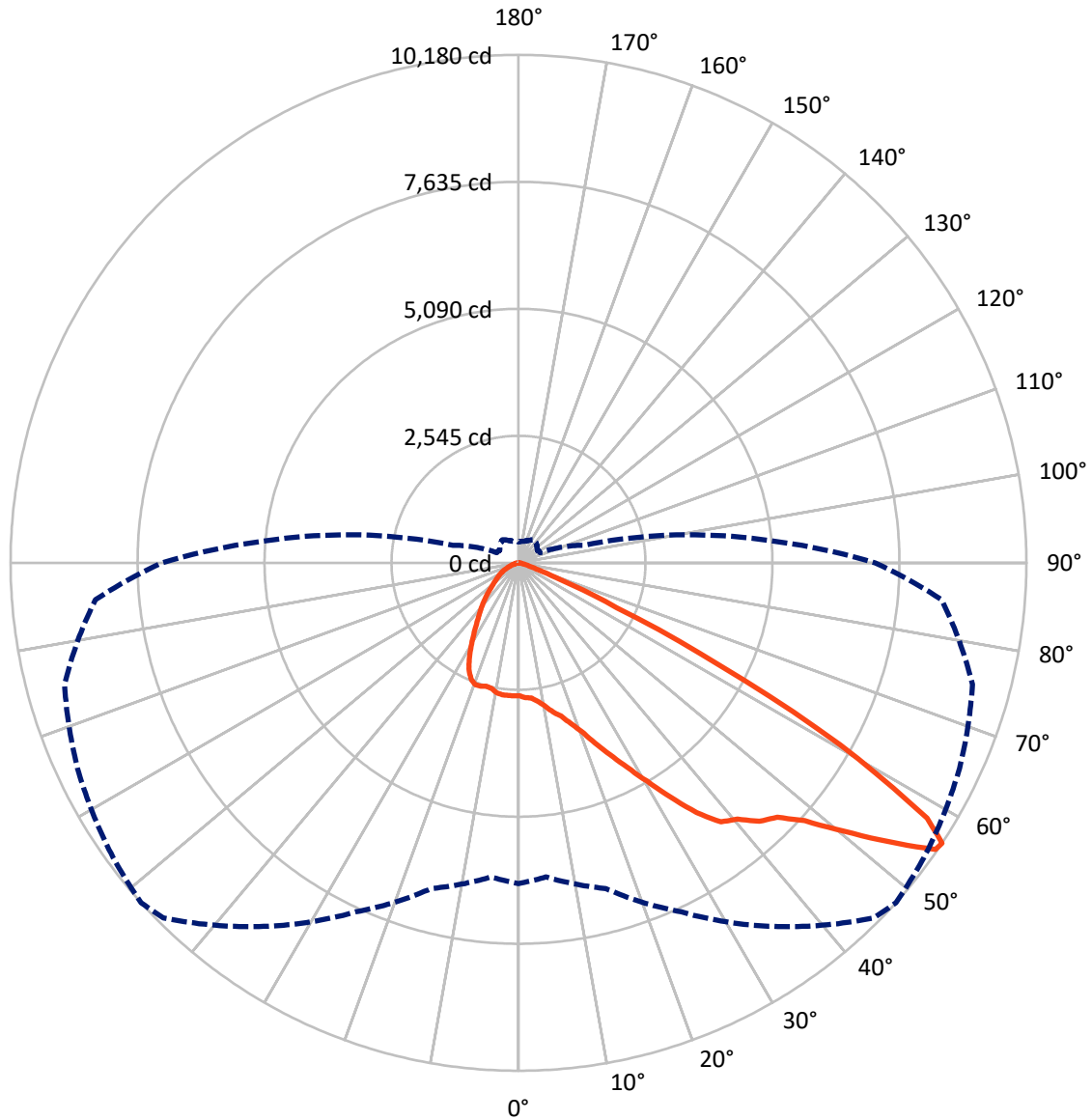
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3037.6	0.0	3037.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10929.7	0.0	10929.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	13967.3	0.0	13967.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	1.9
10°-20°	830.5	5.9
20°-30°	1506.4	10.8
30°-40°	2366.2	16.9
40°-50°	3451.8	24.7
50°-60°	4158.8	29.8
60°-70°	1217.7	8.7
70°-80°	154.5	1.1
80°-90°	21.7	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°	13967.3	100.0
0°-180°	13967.3	100.0

Coefficient of Utilization



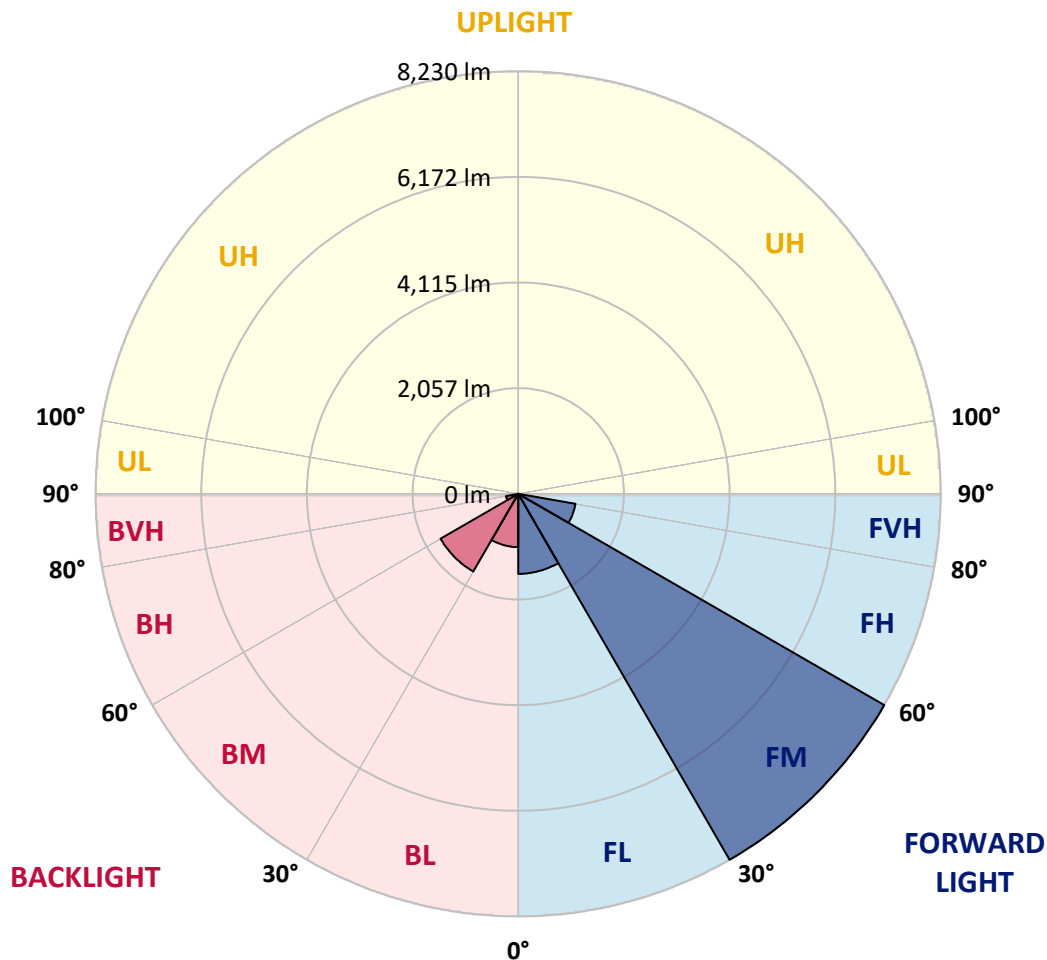
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1558.5	11.2			
FM (30°-60°)	8229.6	58.9			
FH (60°-80°)	1130.8	8.1			G1/1800
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	1038.3	7.4	B3/2500		
BM (30°-60°)	1747.2	12.5	B2/2500		
BH (60°-80°)	241.4	1.7	B1/500		G1/500
BVH (80°-90°)	10.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7
2.5°	2716.1	2703.4	2703.4	2683.0	2705.9	2695.7	2703.4	2677.9	2703.4	2665.2	2695.7
5°	2728.8	2731.3	2721.1	2733.9	2733.9	2749.1	2723.7	2746.6	2759.3	2731.3	2718.6
7.5°	2794.9	2800.0	2797.5	2787.3	2807.7	2805.1	2802.5	2784.7	2789.8	2779.7	2764.4
10°	2924.7	2922.1	2934.8	2909.4	2894.1	2911.9	2917.0	2889.0	2868.7	2861.1	2812.7
12.5°	3112.8	3082.3	3064.5	3039.0	3046.7	3021.3	3067.0	3018.7	3008.5	2962.8	2914.5
15°	3265.4	3260.3	3262.8	3222.2	3176.4	3186.5	3186.5	3161.2	3145.8	3089.9	3021.3
17.5°	3578.2	3471.4	3494.3	3443.4	3405.3	3402.8	3379.8	3384.9	3344.2	3227.3	3123.0
20°	3822.3	3776.6	3740.9	3654.5	3596.0	3613.8	3603.7	3578.2	3565.5	3412.9	3265.4
22.5°	4041.1	4056.3	3997.9	3975.0	3893.6	3901.2	3921.5	3898.6	3802.0	3644.3	3425.6
25°	4348.8	4331.0	4252.2	4224.2	4147.9	4175.8	4254.7	4236.9	4175.8	3891.1	3550.2
27.5°	4712.5	4651.4	4666.7	4539.5	4465.8	4544.6	4638.7	4727.7	4554.8	4180.9	3697.7
30°	4969.3	4905.7	4900.7	4895.5	4877.8	4969.3	5078.7	5160.0	5020.2	4470.8	3941.9
32.5°	5096.5	5111.8	5155.0	5139.7	5294.9	5483.1	5597.4	5714.4	5539.0	4943.9	4264.9
35°	5434.7	5338.1	5434.7	5444.9	5605.1	6004.4	6149.3	6429.1	6385.9	5612.7	4659.1
37.5°	5633.1	5625.4	5638.1	5734.8	5889.9	6383.3	6589.3	6805.5	6724.1	6014.6	5149.9
40°	5961.2	5981.5	5978.9	6052.7	6223.1	6668.1	6752.1	6927.6	6935.1	6571.5	5872.1
42.5°	6487.6	6406.2	6352.8	6429.1	6668.1	6914.9	7082.6	7047.1	7298.9	7248.0	6800.4
45°	6960.6	7008.9	6930.1	7057.3	7143.7	7276.0	7270.9	7347.1	7667.6	7909.2	7499.8
47.5°	7403.2	7433.6	7471.8	7558.2	7746.5	7766.8	7723.6	7690.5	8133.0	8382.2	8041.5
50°	7667.6	7695.6	7873.6	8028.7	8379.7	8425.5	8450.9	8366.9	8667.1	8695.0	8552.6
52.5°	7596.4	7626.9	7876.1	8387.3	8946.8	9366.4	9290.1	9147.7	9129.9	9239.3	9025.6
55°	6965.7	6937.7	7281.0	8077.0	9124.8	10131.9	10142.1	9992.0	9704.6	9630.9	8954.5
56°	6429.1	6319.7	6757.2	7718.4	8895.9	10065.8	10180.2	10020.0	9750.5	9419.9	8514.5
57.5°	5266.8	5371.1	5806.0	6602.0	8105.1	9590.3	9656.4	9618.2	9414.7	8860.4	7492.1
60°	2904.3	3087.4	3471.4	4445.4	5770.4	7359.8	7413.2	7723.6	7761.7	6785.1	5155.0
62.5°	1233.4	1213.1	1612.4	2329.5	3285.8	4442.9	4542.1	4860.0	4918.4	3911.4	2586.4
65°	501.0	529.0	729.9	1172.4	1737.0	2024.4	2164.2	2268.5	2461.8	1614.9	953.7
67.5°	330.6	328.1	429.8	668.8	935.9	902.8	902.8	953.7	882.5	658.7	412.0
70°	236.5	244.1	307.7	462.9	582.4	432.4	414.5	396.7	450.1	434.9	333.1
72.5°	155.2	165.3	206.0	277.2	302.7	236.5	236.5	284.8	371.3	350.9	272.1
75°	101.8	104.3	127.2	160.2	150.0	122.1	134.8	190.7	269.5	259.4	193.3
77.5°	68.6	71.2	86.5	104.3	83.9	68.6	73.8	96.6	132.2	132.2	101.8
80°	25.4	28.0	35.6	33.1	38.2	48.4	53.4	66.1	78.8	78.8	68.6
82.5°	0.0	2.5	7.7	17.8	28.0	38.2	43.2	50.9	58.5	66.1	63.6
85°	0.0	2.5	7.7	12.7	20.4	22.9	25.4	17.8	15.2	15.2	12.7
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0	2.5	2.5
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°	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7	2667.7
2.5°	2667.7	2665.2	2665.2	2657.6	2672.9	2665.2	2670.3	2667.7	2634.7	2660.2	2642.3
5°	2695.7	2713.6	2685.6	2680.5	2660.2	2667.7	2667.7	2642.3	2665.2	2662.7	2657.6
7.5°	2767.0	2736.4	2705.9	2675.4	2670.3	2662.7	2634.7	2624.5	2642.3	2622.0	2652.5
10°	2797.5	2802.5	2756.8	2716.1	2677.9	2624.5	2586.4	2563.5	2535.5	2566.1	2583.8
12.5°	2937.4	2886.5	2807.7	2744.1	2614.3	2560.9	2522.8	2512.7	2560.9	2571.1	2553.4
15°	2985.6	2978.1	2876.3	2733.9	2599.1	2535.5	2543.2	2522.8	2527.9	2502.5	2507.5
17.5°	3084.9	2998.4	2878.8	2700.8	2596.6	2581.3	2535.5	2454.1	2408.4	2388.0	2405.8
20°	3194.2	3110.3	2937.4	2713.6	2619.5	2578.8	2428.7	2329.5	2235.5	2184.6	2187.1
22.5°	3290.8	3186.5	2911.9	2718.6	2639.8	2472.0	2291.4	2095.5	1978.5	1899.7	1902.3
25°	3407.8	3260.3	2922.1	2728.8	2586.4	2301.6	2042.1	1851.4	1711.5	1658.1	1675.9
27.5°	3473.9	3306.1	2978.1	2751.7	2446.6	2059.9	1780.2	1602.2	1520.8	1495.4	1492.9
30°	3672.3	3407.8	3046.7	2705.9	2212.5	1800.6	1541.1	1431.8	1352.9	1330.0	1335.2
32.5°	3967.3	3593.5	3135.7	2586.4	1973.5	1569.1	1386.1	1304.6	1230.9	1187.7	1182.5
35°	4214.0	3911.4	3229.8	2400.7	1696.3	1391.1	1276.6	1175.0	1063.0	1014.8	1002.0
37.5°	4684.5	4269.9	3209.4	2121.0	1431.8	1258.9	1159.7	1035.1	938.4	872.3	864.6
40°	5310.1	4689.6	3110.3	1780.2	1235.9	1141.9	1035.1	915.5	796.0	740.1	734.9
42.5°	6070.5	5203.3	2929.7	1434.3	1040.1	1024.9	928.2	791.0	684.1	643.4	646.0
45°	6688.5	5643.3	2746.6	1152.1	895.2	910.5	826.5	696.9	623.1	590.0	590.0
47.5°	7237.8	5940.8	2548.2	951.2	760.4	796.0	722.3	646.0	582.4	556.9	551.9
50°	7766.8	6243.4	2349.8	770.6	648.5	684.1	676.5	615.4	564.6	534.0	536.6
52.5°	8097.4	6291.8	2098.1	630.7	567.1	607.8	633.3	577.3	521.3	503.5	498.5
55°	7693.0	5668.7	1627.6	518.8	480.6	534.0	582.4	518.8	475.6	445.1	442.5
56°	7148.8	5068.5	1360.6	478.1	455.2	513.7	564.6	495.9	447.6	429.8	417.1
57.5°	6052.7	4147.9	1004.6	424.7	422.2	478.1	536.6	473.1	417.1	401.8	401.8
60°	3774.1	2334.6	607.8	356.1	366.3	424.7	483.2	422.2	371.3	371.3	379.0
62.5°	1719.2	971.5	368.8	302.7	315.4	366.3	429.8	381.5	353.5	381.5	386.5
65°	584.9	419.7	267.0	241.6	249.2	302.7	368.8	386.5	384.0	401.8	412.0
67.5°	328.1	269.5	223.8	200.9	195.8	223.8	302.7	386.5	371.3	363.6	368.8
70°	277.2	228.9	198.4	178.0	170.4	180.6	234.0	292.5	262.0	254.3	249.2
72.5°	223.8	190.7	172.9	160.2	137.3	117.0	106.8	111.9	124.6	132.2	145.0
75°	157.7	145.0	145.0	129.7	99.2	73.8	58.5	48.4	33.1	22.9	25.4
77.5°	89.0	89.0	91.6	78.8	63.6	48.4	35.6	25.4	12.7	5.0	2.5
80°	61.1	66.1	71.2	63.6	53.4	43.2	30.5	17.8	7.7	0.0	0.0
82.5°	61.1	68.6	73.8	63.6	53.4	40.7	30.5	17.8	7.7	2.5	0.0
85°	12.7	15.2	17.8	20.4	30.5	30.5	22.9	15.2	7.7	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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)