

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: P648011

Luminaire Tested: **GALN-SA6A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648011
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-SA6A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA 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: 12679.9 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

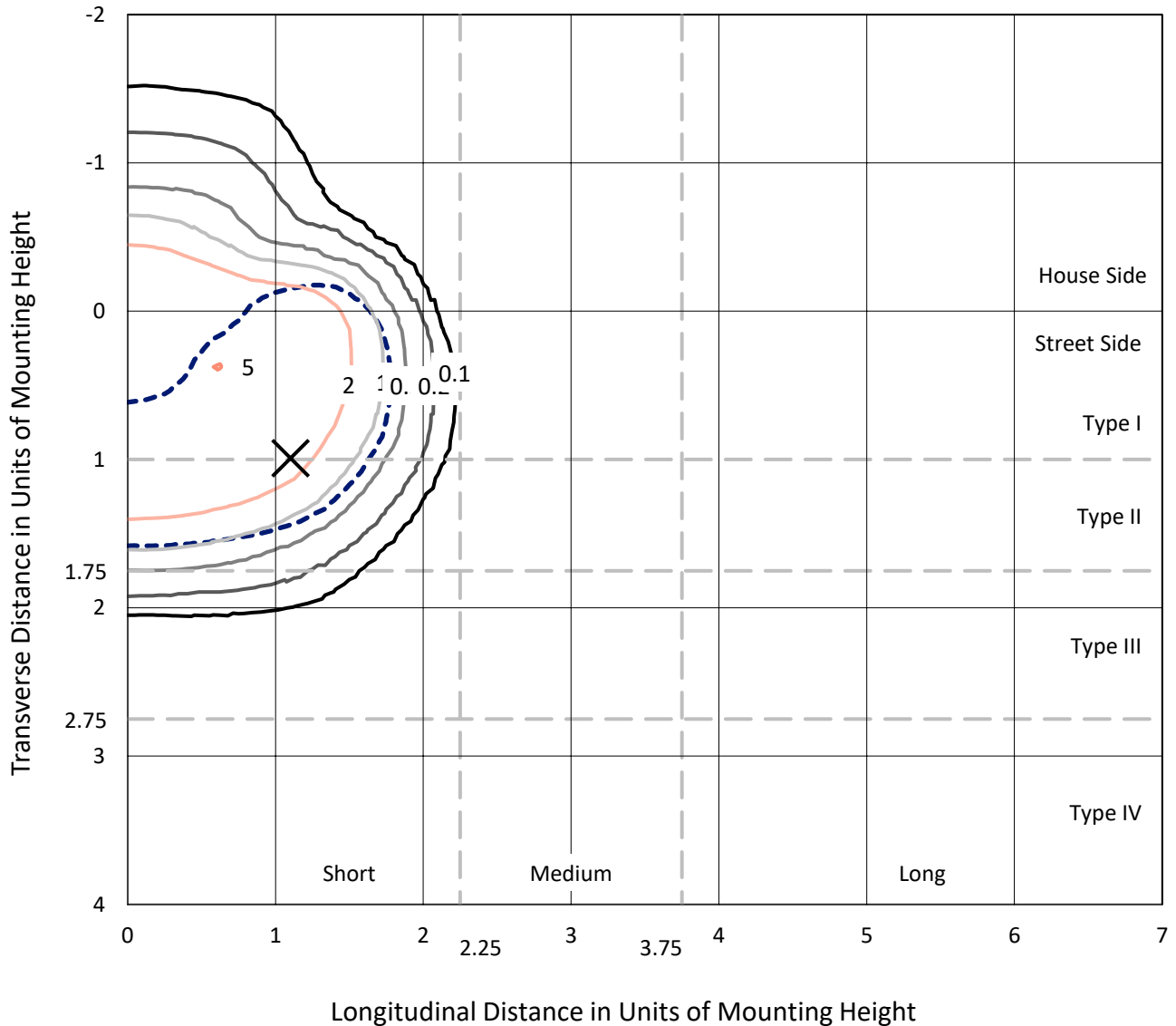
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

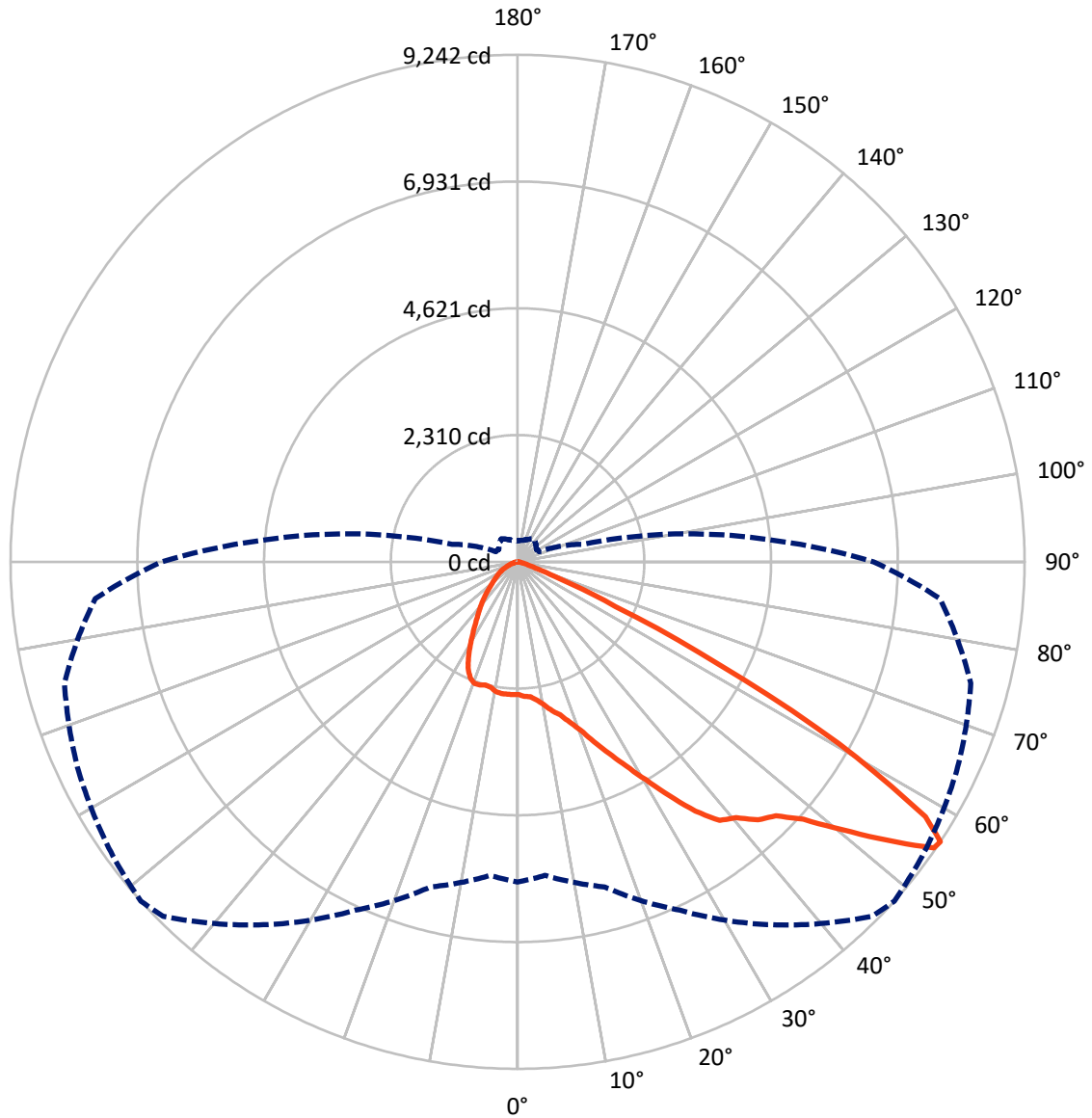
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2757.6	0.0	2757.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9922.3	0.0	9922.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	12679.9	0.0	12679.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.9
10°-20°	753.9	5.9
20°-30°	1367.5	10.8
30°-40°	2148.1	16.9
40°-50°	3133.7	24.7
50°-60°	3775.5	29.8
60°-70°	1105.4	8.7
70°-80°	140.2	1.1
80°-90°	19.7	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°	12679.9	100.0
0°-180°	12679.9	100.0

Coefficient of Utilization

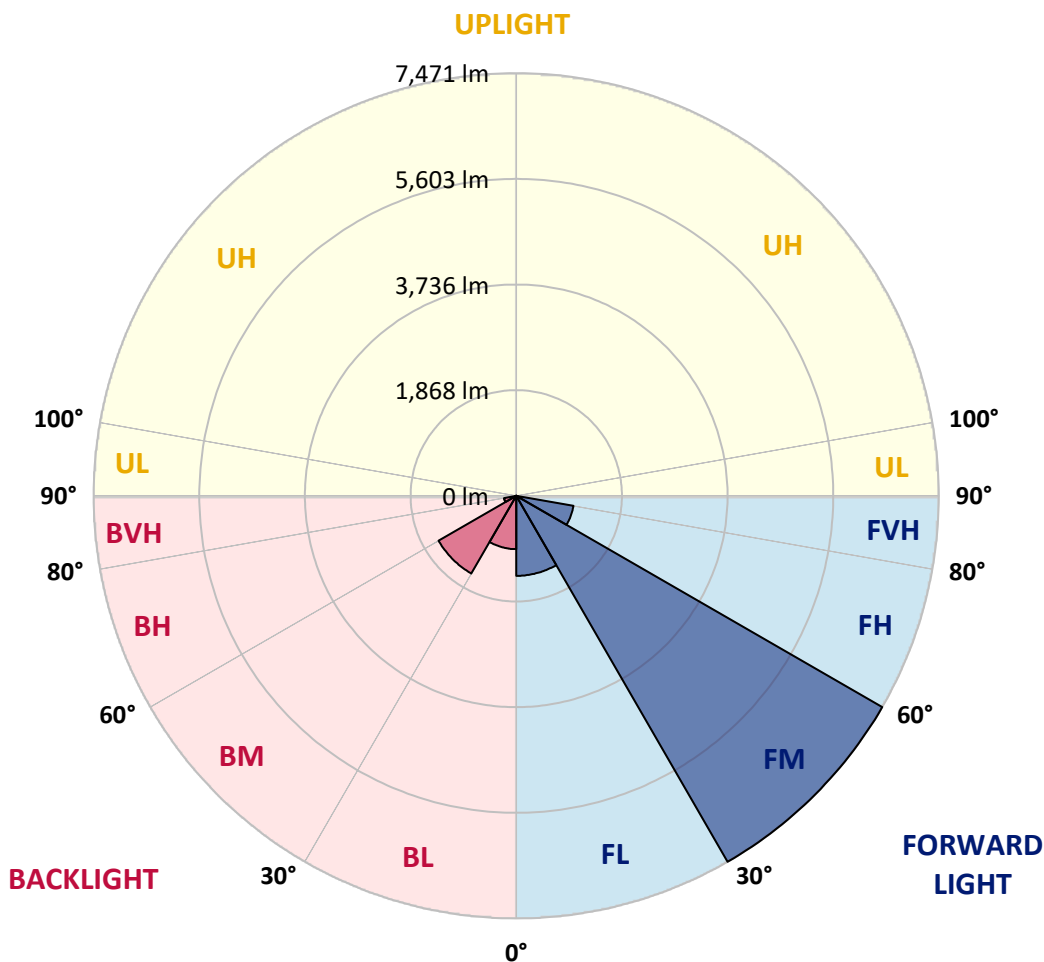


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1414.8	11.2			
FM (30°-60°)	7471.0	58.9			
FH (60°-80°)	1026.5	8.1			G1/1800
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	942.6	7.4	B2/1000		
BM (30°-60°)	1586.2	12.5	B2/2500		
BH (60°-80°)	219.1	1.7	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9
2.5°	2465.7	2454.2	2454.2	2435.8	2456.5	2447.3	2454.2	2431.1	2454.2	2419.5	2447.3
5°	2477.3	2479.6	2470.4	2481.9	2481.9	2495.7	2472.6	2493.5	2505.0	2479.6	2468.0
7.5°	2537.3	2541.9	2539.6	2530.3	2548.8	2546.6	2544.2	2528.1	2532.7	2523.5	2509.6
10°	2655.1	2652.7	2664.3	2641.2	2627.4	2643.5	2648.1	2622.7	2604.3	2597.4	2553.4
12.5°	2825.9	2798.2	2782.0	2759.0	2765.9	2742.8	2784.3	2740.5	2731.3	2689.7	2645.8
15°	2964.4	2959.8	2962.1	2925.2	2883.6	2892.9	2892.9	2869.8	2855.9	2805.1	2742.8
17.5°	3248.4	3151.4	3172.2	3126.0	3091.4	3089.1	3068.3	3073.0	3036.0	2929.8	2835.2
20°	3470.0	3428.4	3396.2	3317.6	3264.6	3280.7	3271.5	3248.4	3236.8	3098.3	2964.4
22.5°	3668.6	3682.4	3629.4	3608.5	3534.7	3541.6	3560.1	3539.3	3451.5	3308.4	3109.8
25°	3948.0	3931.8	3860.2	3834.8	3765.5	3791.0	3862.5	3846.3	3791.0	3532.3	3223.0
27.5°	4278.1	4222.7	4236.5	4121.1	4054.1	4125.7	4211.1	4291.9	4134.9	3795.6	3356.9
30°	4511.3	4453.5	4448.9	4444.3	4428.2	4511.3	4610.5	4684.5	4557.5	4058.8	3578.5
32.5°	4626.7	4640.5	4679.8	4666.0	4806.8	4977.6	5081.5	5187.8	5028.4	4488.2	3871.8
35°	4933.8	4846.1	4933.8	4943.0	5088.5	5450.9	5582.6	5836.5	5797.3	5095.4	4229.6
37.5°	5113.9	5107.0	5118.5	5206.2	5347.0	5794.9	5982.0	6178.2	6104.3	5460.2	4675.2
40°	5411.7	5430.2	5427.8	5494.8	5649.5	6053.5	6129.7	6289.0	6295.9	5965.8	5330.9
42.5°	5889.6	5815.7	5767.3	5836.5	6053.5	6277.5	6429.8	6397.5	6626.1	6579.9	6173.6
45°	6319.0	6362.9	6291.3	6406.7	6485.3	6605.3	6600.7	6669.9	6960.9	7180.2	6808.5
47.5°	6720.7	6748.4	6783.1	6861.6	7032.4	7050.9	7011.6	6981.6	7383.4	7609.6	7300.2
50°	6960.9	6986.2	7147.9	7288.7	7607.3	7648.8	7671.9	7595.7	7868.2	7893.6	7764.3
52.5°	6896.2	6923.9	7150.2	7614.2	8122.1	8503.1	8433.8	8304.5	8288.4	8387.7	8193.7
55°	6323.7	6298.2	6609.9	7332.6	8283.7	9198.0	9207.2	9071.1	8810.2	8743.2	8129.1
56°	5836.5	5737.2	6134.3	7007.0	8075.9	9138.0	9241.9	9096.4	8851.7	8551.5	7729.6
57.5°	4781.4	4876.1	5270.8	5993.5	7357.9	8706.3	8766.3	8731.6	8546.9	8043.7	6801.5
60°	2636.6	2802.8	3151.4	4035.7	5238.5	6681.5	6730.0	7011.6	7046.3	6159.7	4679.8
62.5°	1119.8	1101.3	1463.7	2114.8	2982.9	4033.4	4123.4	4412.0	4465.1	3550.8	2348.0
65°	454.8	480.2	662.6	1064.3	1576.9	1837.8	1964.7	2059.4	2234.8	1466.0	865.8
67.5°	300.1	297.9	390.2	607.2	849.6	819.6	819.6	865.8	801.2	598.0	374.0
70°	214.7	221.7	279.4	420.2	528.7	392.5	376.3	360.2	408.6	394.8	302.5
72.5°	140.9	150.1	187.0	251.7	274.8	214.7	214.7	258.5	337.1	318.6	247.0
75°	92.3	94.7	115.4	145.5	136.2	110.8	122.4	173.1	244.7	235.5	175.5
77.5°	62.3	64.7	78.5	94.7	76.2	62.3	66.9	87.7	120.0	120.0	92.3
80°	23.1	25.4	32.3	30.0	34.6	43.8	48.5	60.1	71.6	71.6	62.3
82.5°	0.0	2.3	6.9	16.1	25.4	34.6	39.2	46.2	53.1	60.1	57.7
85°	0.0	2.3	6.9	11.5	18.5	20.7	23.1	16.1	13.9	13.9	11.5
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	2.3	2.3
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°	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9	2421.9
2.5°	2421.9	2419.5	2419.5	2412.7	2426.5	2419.5	2424.2	2421.9	2391.8	2414.9	2398.8
5°	2447.3	2463.4	2438.0	2433.4	2414.9	2421.9	2421.9	2398.8	2419.5	2417.3	2412.7
7.5°	2511.9	2484.2	2456.5	2428.8	2424.2	2417.3	2391.8	2382.6	2398.8	2380.3	2408.0
10°	2539.6	2544.2	2502.7	2465.7	2431.1	2382.6	2348.0	2327.2	2301.8	2329.5	2345.7
12.5°	2666.6	2620.4	2548.8	2491.1	2373.4	2324.9	2290.3	2281.0	2324.9	2334.1	2318.0
15°	2710.4	2703.5	2611.1	2481.9	2359.5	2301.8	2308.8	2290.3	2294.9	2271.8	2276.4
17.5°	2800.5	2722.0	2613.5	2451.9	2357.2	2343.4	2301.8	2227.9	2186.4	2167.9	2184.1
20°	2899.8	2823.6	2666.6	2463.4	2378.0	2341.1	2204.8	2114.8	2029.4	1983.2	1985.5
22.5°	2987.5	2892.9	2643.5	2468.0	2396.4	2244.1	2080.2	1902.4	1796.2	1724.6	1726.9
25°	3093.7	2959.8	2652.7	2477.3	2348.0	2089.4	1853.9	1680.8	1553.8	1505.3	1521.4
27.5°	3153.8	3001.4	2703.5	2498.1	2221.0	1870.1	1616.1	1454.5	1380.7	1357.6	1355.2
30°	3333.9	3093.7	2765.9	2456.5	2008.6	1634.6	1399.1	1299.9	1228.2	1207.5	1212.1
32.5°	3601.6	3262.2	2846.7	2348.0	1791.6	1424.5	1258.3	1184.4	1117.4	1078.2	1073.6
35°	3825.6	3550.8	2932.1	2179.5	1539.9	1262.9	1159.0	1066.6	965.0	921.2	909.6
37.5°	4252.7	3876.4	2913.6	1925.5	1299.9	1142.8	1052.8	939.7	851.9	791.9	785.0
40°	4820.6	4257.3	2823.6	1616.1	1122.0	1036.6	939.7	831.2	722.6	671.8	667.2
42.5°	5511.0	4723.7	2659.7	1302.1	944.3	930.4	842.7	718.0	621.1	584.1	586.4
45°	6072.0	5123.1	2493.5	1045.9	812.7	826.5	750.3	632.6	565.6	535.7	535.7
47.5°	6570.7	5393.2	2313.4	863.5	690.3	722.6	655.7	586.4	528.7	505.6	501.0
50°	7050.9	5668.0	2133.3	699.5	588.7	621.1	614.1	558.7	512.6	484.8	487.2
52.5°	7351.0	5711.8	1904.7	572.5	514.8	551.8	574.9	524.1	473.3	457.1	452.5
55°	6984.0	5146.2	1477.6	471.0	436.4	484.8	528.7	471.0	431.7	404.0	401.8
56°	6489.9	4601.3	1235.2	434.0	413.3	466.4	512.6	450.2	406.4	390.2	378.7
57.5°	5494.8	3765.5	912.0	385.5	383.3	434.0	487.2	429.4	378.7	364.8	364.8
60°	3426.2	2119.4	551.8	323.2	332.5	385.5	438.6	383.3	337.1	337.1	344.0
62.5°	1560.7	882.0	334.7	274.8	286.3	332.5	390.2	346.3	321.0	346.3	350.9
65°	531.0	380.9	242.4	219.3	226.3	274.8	334.7	350.9	348.6	364.8	374.0
67.5°	297.9	244.7	203.2	182.4	177.7	203.2	274.8	350.9	337.1	330.1	334.7
70°	251.7	207.8	180.1	161.6	154.7	163.9	212.4	265.5	237.8	230.9	226.3
72.5°	203.2	173.1	157.0	145.5	124.7	106.2	96.9	101.6	113.1	120.0	131.6
75°	143.1	131.6	131.6	117.8	90.0	66.9	53.1	43.8	30.0	20.7	23.1
77.5°	80.8	80.8	83.1	71.6	57.7	43.8	32.3	23.1	11.5	4.6	2.3
80°	55.4	60.1	64.7	57.7	48.5	39.2	27.7	16.1	6.9	0.0	0.0
82.5°	55.4	62.3	66.9	57.7	48.5	37.0	27.7	16.1	6.9	2.3	0.0
85°	11.5	13.9	16.1	18.5	27.7	27.7	20.7	13.9	6.9	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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)