

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: P647629

Luminaire Tested: **GALN-SA8D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647629  
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-SA8D-835-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA 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: 29746.9 lumens  
Efficiency: N/A  
Efficacy: 60.3 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

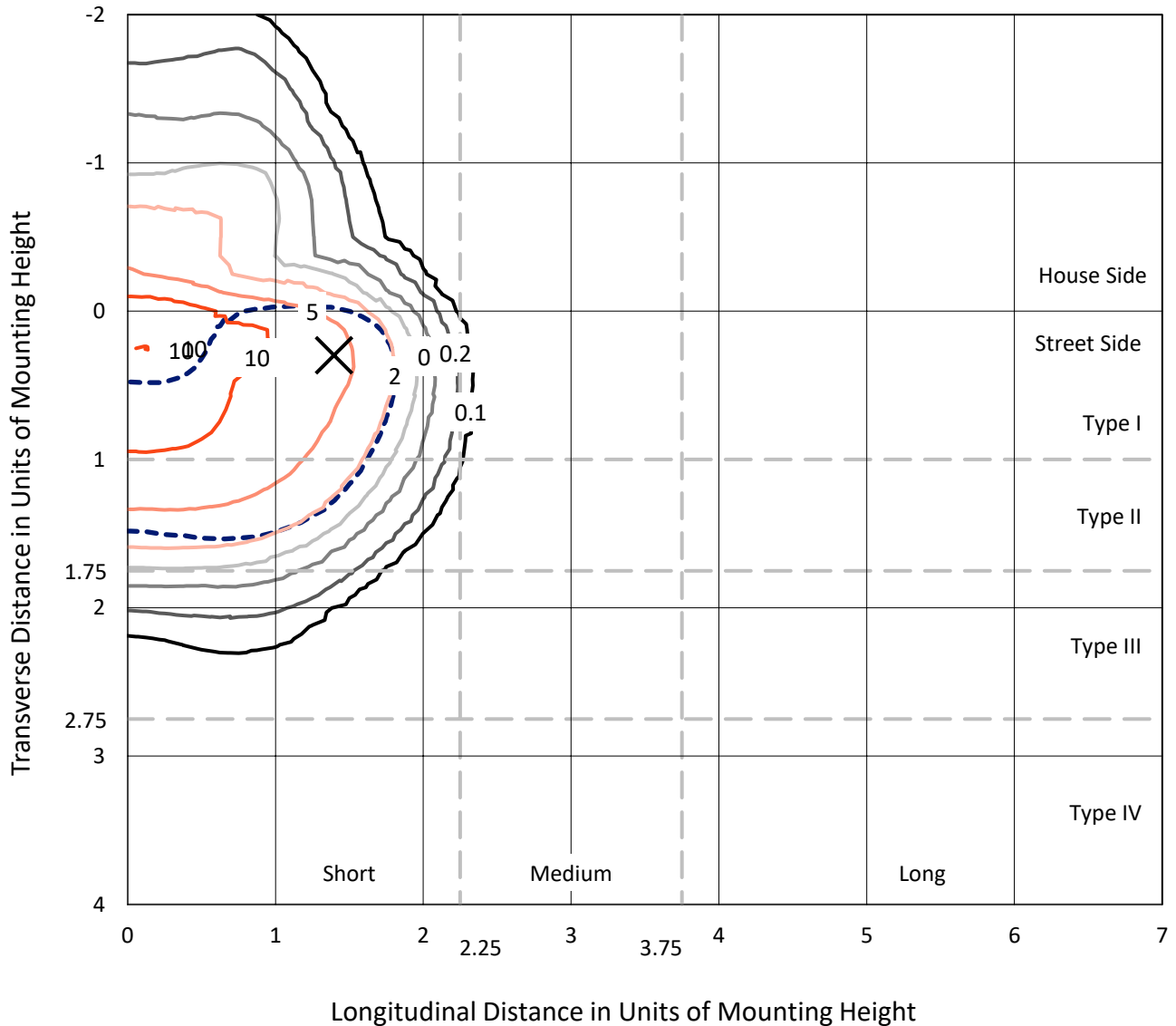
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

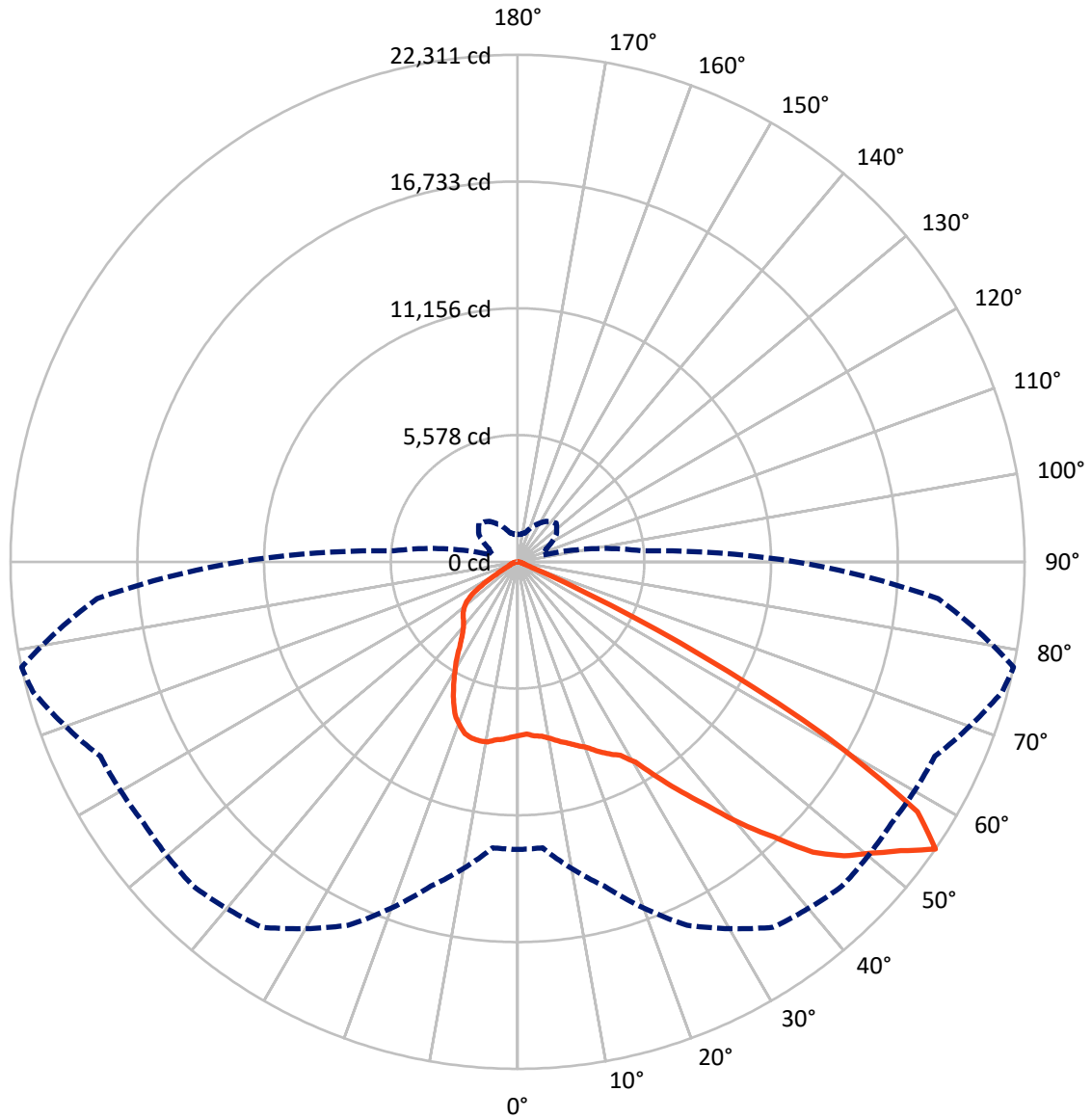
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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
<b>House Side</b>	Lumens	5525.2	0.0	5525.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	24221.8	0.0	24221.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	29746.9	0.0	29746.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	682.0	2.3
10°-20°	1804.8	6.1
20°-30°	3163.5	10.6
30°-40°	5216.2	17.5
40°-50°	7590.3	25.5
50°-60°	8600.5	28.9
60°-70°	2459.0	8.3
70°-80°	190.9	0.6
80°-90°	39.7	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°	29746.9	100.0
0°-180°	29746.9	100.0

**Coefficient of Utilization**



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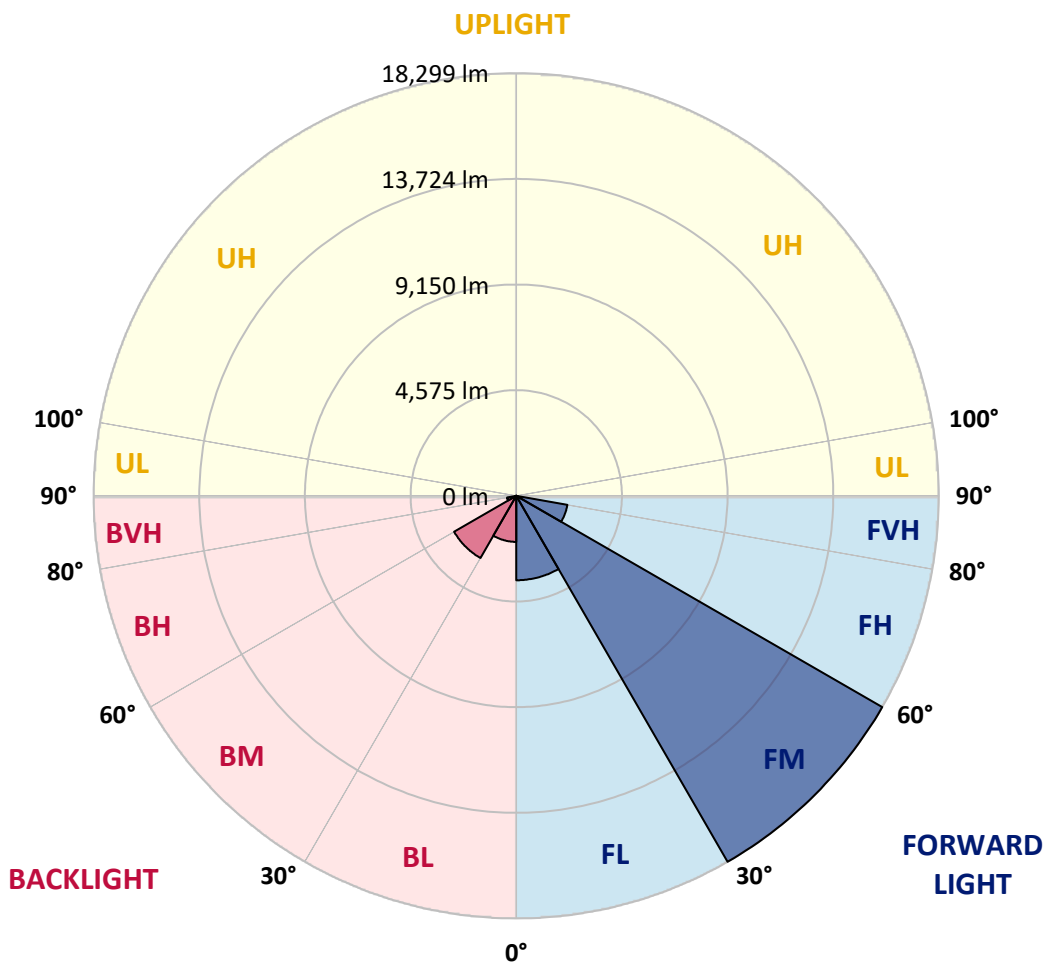
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3656.8	12.3			
FM (30°-60°)	18299.0	61.5			
FH (60°-80°)	2246.7	7.6			G2/5000
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1993.5	6.7	B3/2500		
BM (30°-60°)	3108.0	10.4	B3/5000		
BH (60°-80°)	403.3	1.4	B1/500		G1/500
BVH (80°-90°)	20.4	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°	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0
2.5°	7190.6	7259.7	7270.3	7355.4	7350.1	7493.7	7536.3	7541.6	7637.3	7589.5	7711.8
5°	6988.4	6951.2	6935.3	7084.2	7126.8	7254.4	7360.7	7424.6	7621.3	7690.5	7818.2
7.5°	6807.6	6807.6	6818.3	6951.2	6935.3	7100.2	7211.8	7408.6	7695.8	7754.4	7908.5
10°	6632.2	6568.3	6648.1	6786.3	6903.4	6977.9	7211.8	7398.0	7733.1	7903.2	8116.0
12.5°	6541.7	6573.6	6584.2	6685.3	6813.0	7036.4	7164.0	7472.5	7999.0	8100.1	8328.7
15°	7110.8	7047.0	6892.7	6802.3	6908.7	7015.1	7334.2	7648.0	8137.2	8280.9	8536.1
17.5°	7770.3	7717.1	7589.5	7344.8	7105.5	7302.3	7552.2	7839.4	8286.2	8498.9	8876.6
20°	8631.9	8546.8	8419.1	7940.5	7733.1	7520.3	7786.2	8126.6	8530.9	8722.3	9110.5
22.5°	9658.3	9658.3	9371.2	8791.4	8360.6	8158.5	8270.2	8467.0	8802.1	9062.7	9445.6
25°	10727.3	10695.5	10434.8	9833.9	9105.2	8865.9	8993.5	9131.8	9222.3	9365.9	9621.1
27.5°	11950.6	11764.4	11434.7	10769.9	10126.4	9663.6	9801.9	9679.6	9567.9	9642.4	10009.3
30°	12780.3	12897.3	12477.1	11838.9	11232.6	10716.7	10743.3	10637.0	10126.4	10232.7	10450.8
32.5°	13641.9	13716.4	13482.3	13131.3	12525.0	11924.0	11705.9	11615.6	11232.6	11280.4	11067.7
35°	14359.8	14503.4	14296.0	14141.8	13966.3	13482.3	12881.4	13173.8	12556.9	12439.9	11886.8
37.5°	15019.3	14976.8	15221.4	15061.9	15024.7	14684.3	14024.8	14083.3	13668.4	13641.9	13003.7
40°	15609.7	15620.4	15955.4	16029.9	15881.0	15274.6	14317.3	14780.1	15115.1	15147.0	14328.0
42.5°	16099.0	16242.6	16529.8	17130.8	16907.4	15896.9	14620.5	15125.8	16370.3	16567.0	15583.1
45°	16524.5	16817.0	17173.3	17710.5	17582.9	16779.8	15375.7	15838.4	17710.5	18226.4	16763.8
47.5°	16551.1	16934.0	17322.2	18120.0	18279.6	17253.1	16157.5	16965.9	18774.2	19332.7	17625.4
50°	16444.7	16646.8	17423.3	18290.3	18651.8	18024.3	17253.1	17912.6	19806.0	20157.0	18061.5
52.5°	15184.2	15338.5	16896.7	18449.8	19322.0	18896.5	18705.1	19231.6	20859.0	21119.6	18471.0
55°	12658.0	12631.4	14774.7	17646.7	19630.4	20188.9	20071.9	20258.1	22077.0	22311.0	18572.1
57.5°	8658.5	9142.5	10993.2	14695.0	17742.4	19885.8	20008.1	19699.6	20656.9	20747.4	16189.4
60°	4669.6	4871.7	6360.9	9807.2	13508.9	16205.4	16524.5	15966.1	15891.6	15636.3	11557.0
62.5°	1856.2	1957.2	2802.8	4855.8	7360.7	9849.8	10535.9	10307.2	9817.9	9147.8	5983.3
65°	882.8	946.7	1393.4	2271.0	3265.5	4105.9	4792.0	5004.7	3691.0	3324.1	1973.2
67.5°	601.0	648.9	1015.9	1297.7	1164.7	1218.0	1584.9	1473.2	866.9	739.2	547.8
70°	457.4	489.3	813.7	882.8	521.2	367.0	409.5	383.0	356.3	361.7	356.3
72.5°	324.4	351.0	595.7	521.2	228.7	170.2	218.1	260.6	260.6	260.6	255.3
75°	196.8	223.4	345.7	202.1	90.4	90.4	138.3	175.5	186.1	191.4	180.8
77.5°	101.1	127.6	117.0	58.5	58.5	69.1	101.1	122.3	133.0	133.0	127.6
80°	21.3	21.3	21.3	31.9	58.5	74.5	101.1	111.7	127.6	127.6	117.0
82.5°	0.0	5.3	16.0	31.9	53.2	69.1	95.8	111.7	127.6	133.0	122.3
85°	0.0	5.3	10.6	21.3	37.2	42.5	37.2	31.9	31.9	31.9	31.9
87.5°	0.0	0.0	5.3	5.3	5.3	10.6	10.6	10.6	10.6	10.6	10.6
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°	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0	7648.0
2.5°	7722.4	7738.4	7711.8	7706.4	7685.2	7749.0	7594.8	7557.5	7653.3	7562.8	7584.1
5°	7823.5	7860.7	7812.9	7733.1	7616.1	7435.2	7281.0	7078.9	6983.2	6914.0	6903.4
7.5°	7898.0	7924.5	7876.7	7621.3	7270.3	6813.0	6472.6	6222.6	6025.8	5967.3	5871.6
10°	8201.1	8206.4	7967.1	7403.3	6717.2	6116.2	5595.0	5212.1	5015.3	4893.0	4839.8
12.5°	8403.2	8392.5	7908.5	6972.5	6057.8	5260.0	4664.3	4201.6	4020.8	3962.3	3925.0
15°	8658.5	8600.0	7770.3	6531.1	5206.8	4345.2	3808.0	3488.9	3473.0	3435.7	3473.0
17.5°	8860.6	8695.7	7568.2	5728.0	4393.0	3579.3	3228.3	3249.6	3292.1	3329.4	3334.7
20°	9190.3	8849.9	7105.5	5025.9	3637.8	3068.7	3063.4	3159.2	3265.5	3308.1	3350.6
22.5°	9440.3	8913.8	6610.9	4276.0	3020.9	2861.3	2951.8	3095.4	3175.1	3217.7	3281.5
25°	9530.7	8738.3	5951.3	3526.2	2723.0	2765.6	2903.9	2999.6	3100.7	3148.5	3122.0
27.5°	9621.1	8647.8	5164.2	2903.9	2563.5	2701.8	2818.8	2914.5	2946.4	3010.2	3052.8
30°	9839.2	8334.0	4456.9	2510.3	2483.8	2659.2	2744.3	2776.2	2861.3	2898.6	2898.6
32.5°	10014.6	8211.7	3707.0	2324.2	2473.1	2680.5	2691.2	2691.2	2701.8	2675.2	2664.5
35°	10376.3	7791.6	3036.9	2212.4	2467.8	2685.8	2712.4	2622.0	2377.3	2281.7	2255.0
37.5°	10823.1	7520.3	2542.2	2185.9	2505.0	2749.7	2792.2	2451.8	2132.7	1978.5	1951.9
40°	11365.6	7328.9	2217.8	2175.3	2590.1	2898.6	2771.0	2318.9	1904.0	1680.6	1670.0
42.5°	11998.5	7153.3	1999.8	2169.9	2696.5	3052.8	2749.7	2207.2	1670.0	1521.1	1542.4
45°	12503.7	7057.6	1850.9	2132.7	2733.7	3143.2	2765.6	2010.4	1574.3	1478.5	1489.2
47.5°	12897.3	6855.5	1728.5	2068.9	2728.4	3175.1	2622.0	1930.6	1526.4	1553.0	1579.6
50°	12907.9	6584.2	1574.3	1930.6	2648.6	3116.7	2457.1	1856.2	1515.7	1627.5	1680.6
52.5°	12764.3	6201.4	1409.4	1733.8	2462.5	2914.5	2308.2	1824.2	1467.9	1457.2	1521.1
55°	12253.7	5483.3	1132.8	1404.1	2079.5	2404.0	2175.3	1765.7	1324.3	1202.0	1212.6
57.5°	9903.0	3930.3	835.0	1005.2	1473.2	1760.4	1962.5	1739.1	1191.3	1021.1	1026.4
60°	6132.2	2228.4	611.6	686.1	909.5	1069.0	1590.2	1616.8	1063.7	861.6	851.0
62.5°	3148.5	1100.9	473.3	484.0	558.4	627.6	1090.2	1356.2	962.6	819.0	819.0
65°	1053.1	542.5	414.8	372.3	372.3	388.2	659.5	941.4	813.7	686.1	686.1
67.5°	452.1	404.2	361.7	324.4	297.9	281.9	372.3	547.8	606.3	521.2	499.9
70°	351.0	340.4	313.8	271.2	234.0	212.7	218.1	281.9	345.7	335.0	324.4
72.5°	260.6	260.6	249.9	212.7	180.8	154.3	143.6	148.9	164.9	170.2	175.5
75°	180.8	186.1	186.1	164.9	133.0	111.7	95.8	79.8	63.8	53.2	47.8
77.5°	122.3	127.6	138.3	122.3	101.1	74.5	58.5	42.5	26.6	10.6	10.6
80°	106.3	122.3	133.0	122.3	106.3	79.8	58.5	31.9	16.0	0.0	0.0
82.5°	111.7	122.3	138.3	117.0	101.1	74.5	58.5	37.2	16.0	5.3	0.0
85°	26.6	26.6	31.9	37.2	47.8	53.2	42.5	26.6	16.0	5.3	0.0
87.5°	10.6	10.6	10.6	10.6	10.6	5.3	5.3	5.3	5.3	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)