

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: P647126

Luminaire Tested: **GALN-SA8C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647126  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29399.3 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

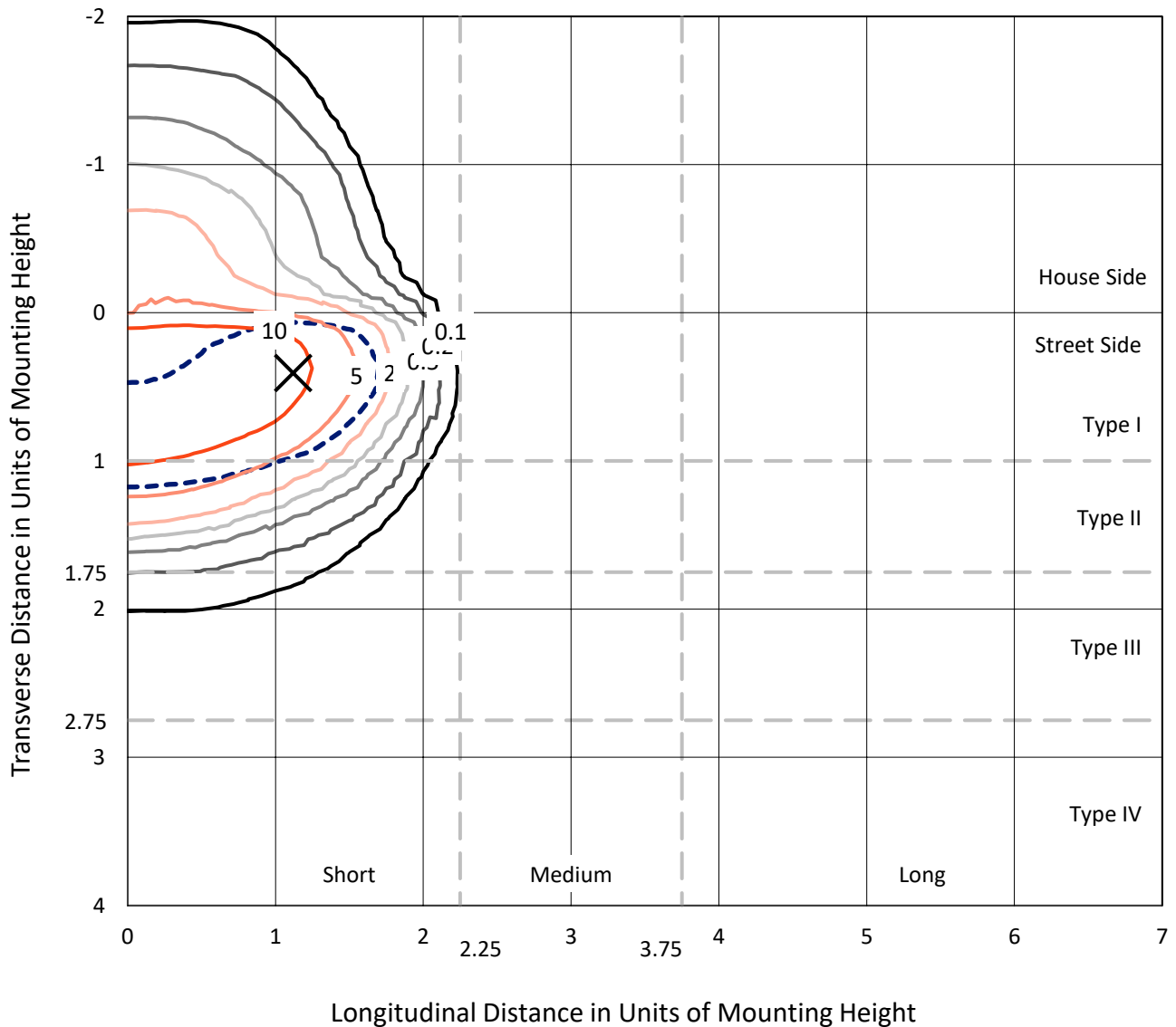
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

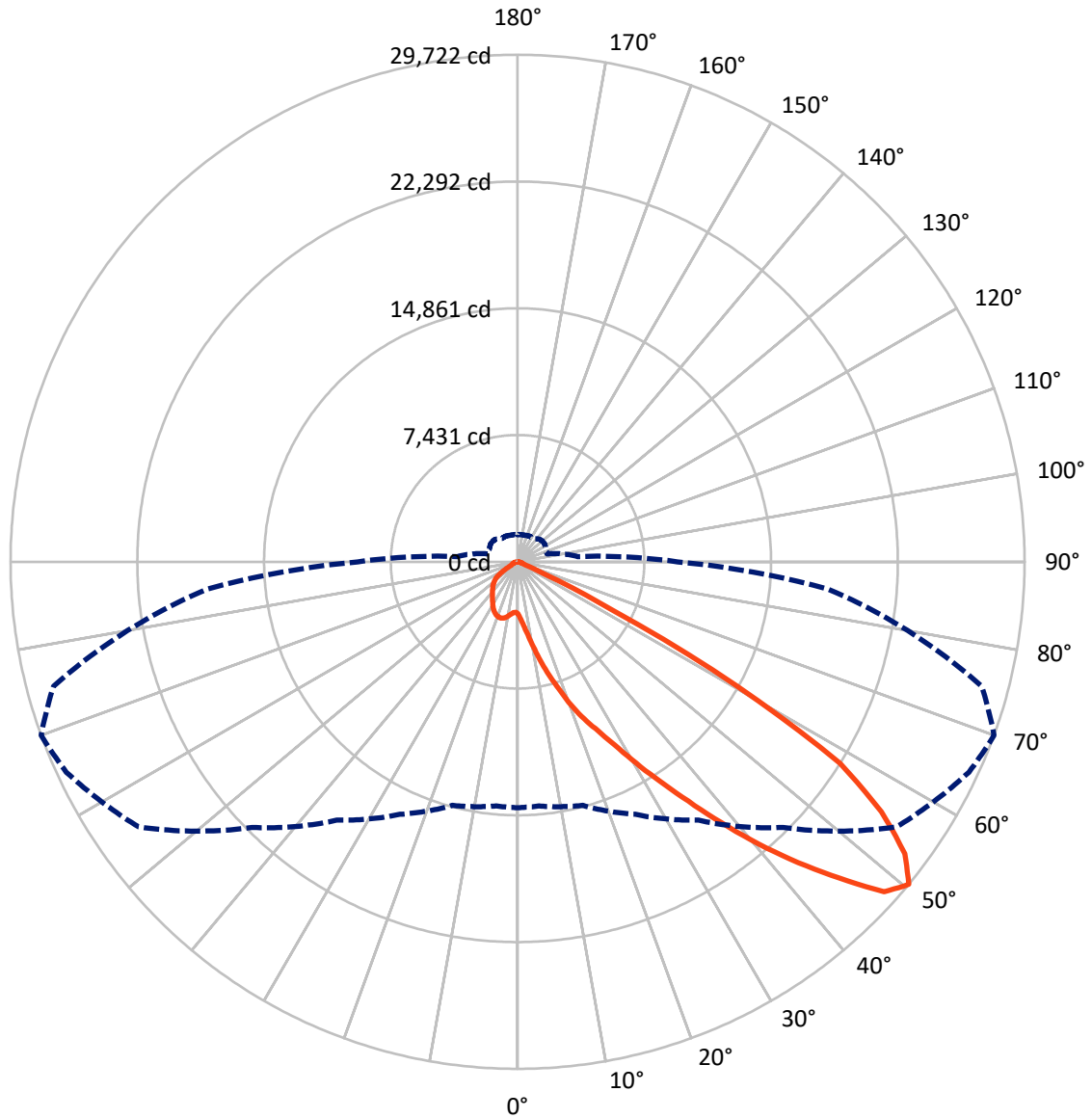
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4105.8	0.0	4105.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	25293.5	0.0	25293.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	29399.3	0.0	29399.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.0	1.3
10°-20°	1712.9	5.8
20°-30°	3593.4	12.2
30°-40°	6193.8	21.1
40°-50°	9052.1	30.8
50°-60°	7050.1	24.0
60°-70°	1194.5	4.1
70°-80°	164.1	0.6
80°-90°	42.5	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°	29399.3	100.0
0°-180°	29399.3	100.0

**Coefficient of Utilization**

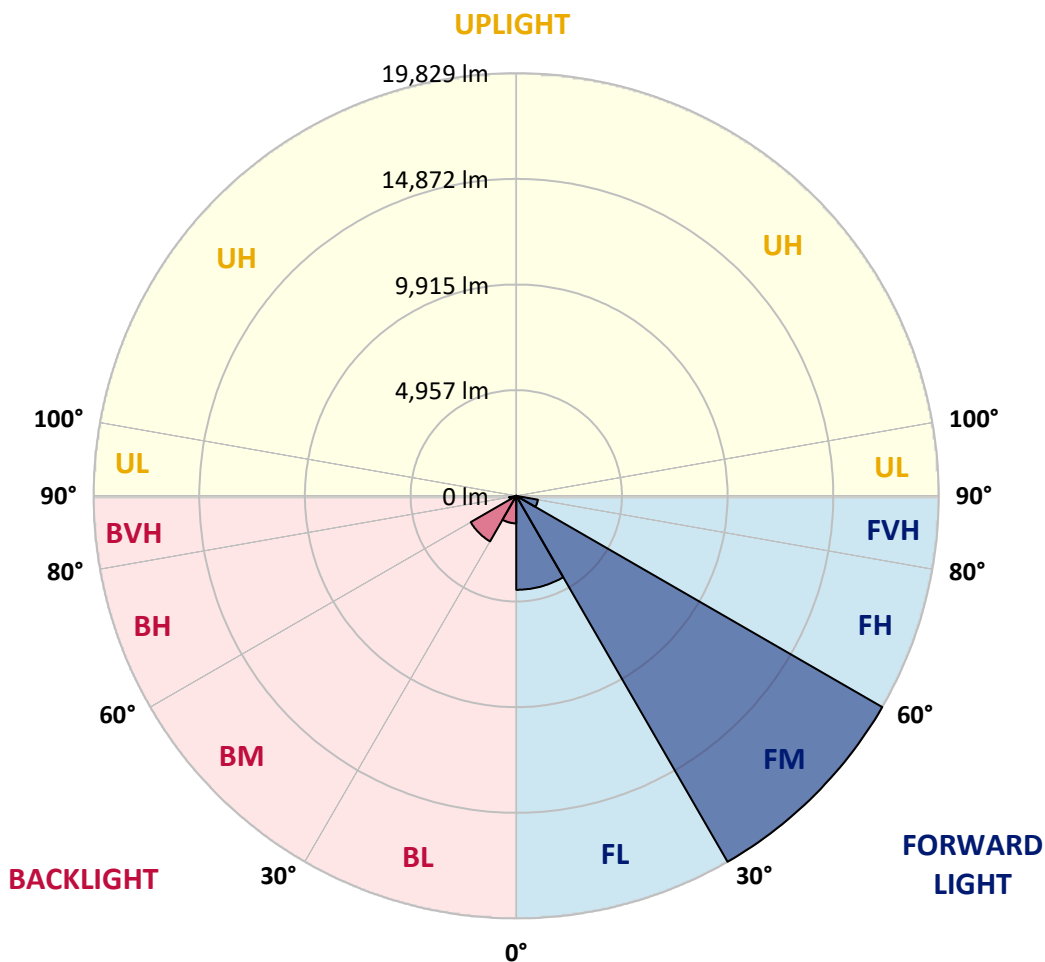


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4410.2	15.0			
FM (30°-60°)	19829.3	67.4			
FH (60°-80°)	1034.3	3.5			G1/1800
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	1292.0	4.4	B3/2500		
BM (30°-60°)	2466.6	8.4	B2/2500		
BH (60°-80°)	324.3	1.1	B1/500		G1/500
BVH (80°-90°)	22.9	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2
2.5°	3987.7	3958.8	3895.9	3779.9	3731.5	3615.6	3547.9	3417.4	3335.2	3243.3	3141.9
5°	5616.7	5466.8	5375.0	5244.5	4862.7	4625.8	4234.2	3900.7	3746.0	3576.9	3344.9
7.5°	7298.8	7202.1	7076.4	6796.1	6535.1	6042.0	5370.1	4635.4	4321.3	4031.3	3572.0
10°	8690.9	8420.2	8405.7	8197.9	7912.7	7322.9	6515.7	5602.2	5041.5	4616.1	3895.9
12.5°	9662.5	9415.9	9527.1	9503.0	9237.1	8695.7	7762.8	6554.4	5969.5	5307.3	4229.5
15°	10547.0	10445.5	10411.6	10382.7	10276.3	9875.1	9038.9	7714.5	6868.6	6071.1	4606.5
17.5°	11412.2	11151.2	11276.8	11301.0	11291.3	10928.9	10145.8	8816.6	7820.8	6878.3	5002.8
20°	12180.7	12204.9	12035.7	12001.9	11972.9	11958.4	11194.7	9908.9	8990.6	7724.1	5520.0
22.5°	13166.8	12997.6	13147.5	13050.8	12862.3	12746.3	12161.4	10875.6	10005.6	8744.1	6046.9
25°	14331.7	14467.1	14114.2	14075.5	13867.7	13466.5	12939.6	11958.4	10982.0	9691.4	6617.2
27.5°	15767.3	15530.5	15438.6	15225.9	14848.9	14679.8	14061.0	13075.0	12161.4	10687.2	7168.3
30°	16999.9	16937.1	16477.8	16226.5	15897.8	15893.0	15027.7	14587.9	13698.5	12248.4	7927.2
32.5°	18005.3	17729.8	17560.6	17386.6	17120.8	17193.3	16463.4	16231.4	15337.1	13698.5	8821.4
35°	18677.1	18479.0	18377.5	18111.7	18034.3	18358.1	18053.6	17956.9	17222.2	15738.3	9870.3
37.5°	18889.9	18952.7	18933.3	18599.9	18764.1	19639.0	20030.5	19779.2	19392.6	17889.3	11006.2
40°	19078.3	19121.9	19025.2	19416.7	19885.5	20881.3	22297.6	21881.9	21736.9	20069.2	12586.8
42.5°	19184.7	19150.8	19150.8	19827.6	20538.1	22539.2	24487.2	24211.7	24100.5	22389.4	14413.9
45°	18725.5	18396.8	18749.6	19668.0	21098.8	23356.1	26236.9	26618.8	26459.3	25149.4	16550.3
47.5°	17009.6	17212.5	17410.7	18638.5	20417.3	23104.8	27310.0	28610.3	28905.1	27469.5	17952.1
50°	14413.9	14370.4	14781.2	16328.0	18488.7	22022.0	27102.2	29185.5	29722.0	28165.6	18247.0
52.5°	10484.1	10803.2	11247.9	12785.0	15346.8	19218.5	24419.5	27701.5	28416.9	27310.0	18053.6
55°	6104.9	5752.0	6752.6	8052.8	10469.6	14496.1	20644.4	24554.9	25879.2	25753.6	17077.2
57.5°	2445.9	2368.5	2711.7	3654.3	5462.0	8985.7	15013.2	20175.6	22297.6	23588.1	15008.5
60°	1073.1	1048.9	1232.6	1488.8	2233.1	4142.5	8212.3	12548.1	14761.9	16482.7	10329.5
62.5°	773.4	763.7	855.6	947.4	1179.4	1802.9	3451.2	5056.0	6303.1	7613.0	4625.8
65°	623.5	647.7	710.6	758.9	870.1	1000.6	1218.1	1406.6	1725.6	1788.5	1019.9
67.5°	507.5	526.9	584.9	638.1	657.4	541.4	560.7	493.1	493.1	439.9	352.8
70°	372.2	377.0	444.7	507.5	406.1	217.5	381.9	381.9	343.2	328.7	299.7
72.5°	275.5	280.3	333.6	314.2	159.5	135.4	280.3	309.4	280.3	265.8	241.7
75°	203.0	207.8	174.0	72.5	67.7	87.0	164.4	212.7	203.0	198.2	183.7
77.5°	38.7	29.0	24.2	33.8	48.3	72.5	106.3	130.5	135.4	145.0	135.4
80°	4.9	4.9	14.5	29.0	53.2	77.4	111.2	125.7	130.5	135.4	125.7
82.5°	0.0	4.9	14.5	29.0	53.2	72.5	96.7	111.2	120.8	125.7	120.8
85°	0.0	4.9	9.6	24.2	43.5	53.2	48.3	33.8	29.0	33.8	24.2
87.5°	0.0	0.0	4.9	4.9	9.6	9.6	9.6	9.6	9.6	9.6	9.6
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°	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2	3045.2
2.5°	3083.8	3064.5	2996.9	2924.3	2861.5	2890.5	2861.5	2837.4	2847.0	2837.4	2827.6
5°	3253.1	3166.1	3021.0	2958.2	2905.0	2900.2	2885.7	2880.8	2885.7	2885.7	2842.2
7.5°	3412.5	3272.4	3117.7	3050.0	2987.2	2992.0	2958.2	2958.2	2953.3	2929.2	2919.5
10°	3654.3	3465.7	3267.5	3146.7	3069.4	3054.9	3021.0	2987.2	2987.2	2987.2	2938.8
12.5°	3920.1	3683.2	3412.5	3272.4	3180.5	3108.0	3054.9	3045.2	2992.0	2982.4	2958.2
15°	4152.1	3852.4	3509.2	3315.8	3199.9	3103.2	3021.0	2967.9	2943.7	2929.2	2909.9
17.5°	4379.2	3997.4	3562.4	3315.8	3190.2	3079.0	2992.0	2943.7	2885.7	2895.4	2856.7
20°	4683.8	4152.1	3576.9	3253.1	3098.3	2992.0	2876.0	2851.8	2818.0	2789.0	2798.7
22.5°	4978.6	4263.3	3533.4	3175.7	2953.3	2827.6	2769.7	2740.7	2726.2	2702.0	2668.2
25°	5244.5	4384.1	3465.7	3035.5	2798.7	2706.8	2653.7	2648.8	2615.0	2615.0	2552.2
27.5°	5515.1	4427.6	3349.7	2871.2	2663.3	2610.1	2586.0	2576.3	2561.8	2528.0	2484.5
30°	5824.5	4442.1	3180.5	2702.0	2542.5	2484.5	2518.3	2542.5	2479.7	2416.8	2436.1
32.5°	6080.7	4408.3	2977.5	2542.5	2455.5	2426.5	2494.2	2518.3	2445.9	2378.1	2344.3
35°	6390.1	4326.1	2779.3	2416.8	2368.5	2426.5	2484.5	2484.5	2339.4	2257.3	2238.0
37.5°	6858.9	4234.2	2595.6	2310.5	2276.7	2397.5	2474.8	2421.7	2194.4	2093.0	2068.8
40°	7361.6	4176.3	2416.8	2204.1	2228.3	2349.2	2392.6	2228.3	1996.3	1933.5	1914.1
42.5°	8091.5	4060.2	2257.3	2112.3	2184.8	2281.5	2281.5	1986.6	1899.6	1865.8	1861.0
45°	9000.2	3978.1	2117.2	2034.9	2121.9	2146.1	2068.8	1861.0	1798.1	1788.5	1793.3
47.5°	9444.9	3818.5	1972.1	1943.1	2006.0	2010.8	1807.8	1759.5	1706.2	1691.7	1682.1
50°	9377.3	3533.4	1783.6	1822.3	1909.3	1861.0	1648.3	1657.9	1609.6	1604.8	1580.6
52.5°	8903.6	3083.8	1595.1	1687.0	1783.6	1643.4	1517.8	1508.1	1508.1	1445.3	1421.1
55°	7893.3	2484.5	1367.9	1483.9	1599.9	1382.4	1348.6	1338.9	1314.7	1256.7	1242.2
57.5°	6249.9	1822.3	1029.6	1155.2	1358.3	1174.6	1169.7	1126.3	1063.4	1019.9	1019.9
60°	3717.1	1048.9	647.7	705.7	899.0	952.2	1058.5	1039.2	932.9	865.2	845.9
62.5°	1696.6	541.4	410.8	420.5	483.3	618.7	831.4	961.9	812.0	696.0	686.4
65°	570.3	401.2	338.3	323.8	333.6	372.2	497.8	681.5	647.7	536.5	517.2
67.5°	348.0	357.7	319.0	294.9	294.9	290.0	285.2	309.4	381.9	372.2	377.0
70°	299.7	328.7	294.9	265.8	256.2	241.7	203.0	169.2	145.0	169.2	178.8
72.5°	241.7	261.1	251.3	227.1	203.0	183.7	145.0	111.2	82.1	72.5	72.5
75°	178.8	193.3	203.0	174.0	154.6	130.5	106.3	72.5	43.5	29.0	29.0
77.5°	130.5	145.0	149.9	135.4	116.0	91.8	67.7	48.3	24.2	9.6	9.6
80°	111.2	130.5	145.0	135.4	120.8	87.0	62.9	33.8	19.3	4.9	4.9
82.5°	106.3	130.5	145.0	130.5	116.0	82.1	62.9	38.7	14.5	4.9	4.9
85°	24.2	33.8	43.5	53.2	62.9	62.9	48.3	29.0	14.5	4.9	4.9
87.5°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	4.9	4.9	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)