

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: P459200

Luminaire Tested: **GALN-SA6D-735-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43551 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

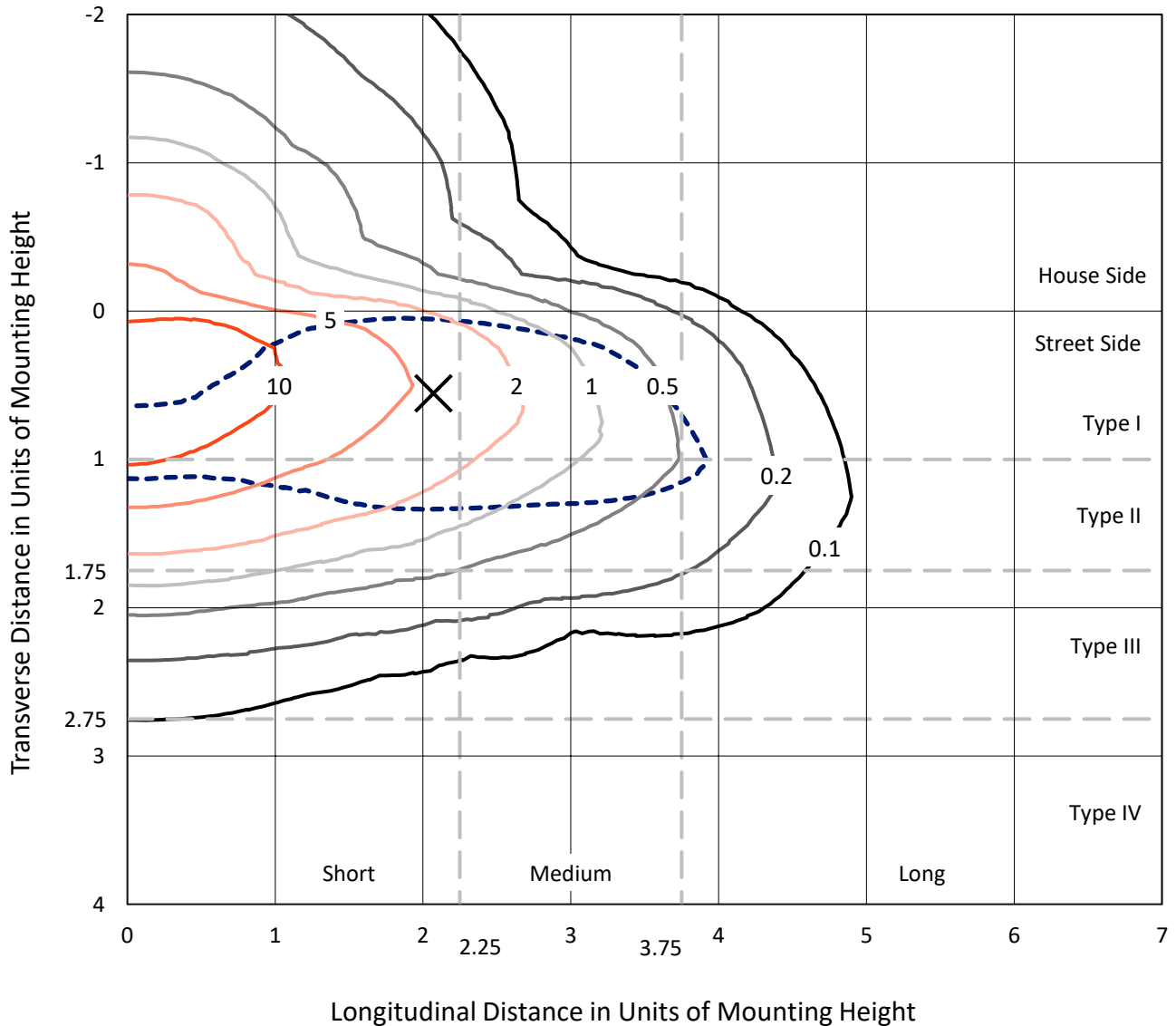
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

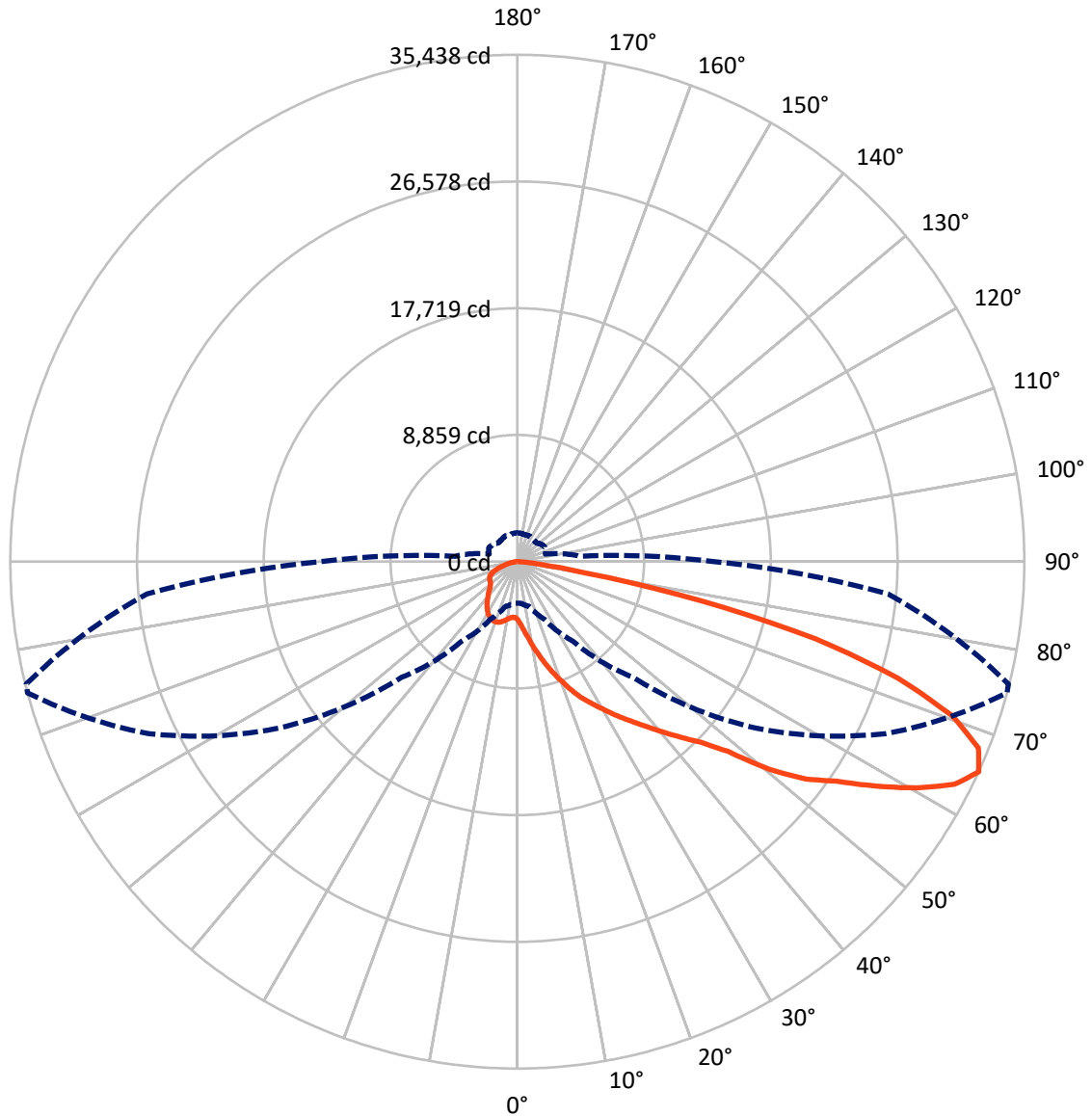
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7321.5	0.0	7321.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	36229.5	0.0	36229.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	43551.0	0.0	43551.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.6	1.1
10°-20°	1925.6	4.4
20°-30°	3719.7	8.5
30°-40°	6041.9	13.9
40°-50°	8311.2	19.1
50°-60°	9812.7	22.5
60°-70°	8597.5	19.7
70°-80°	4104.5	9.4
80°-90°	546.2	1.3
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°	43551.0	100.0
0°-180°	43551.0	100.0

**Coefficient of Utilization**



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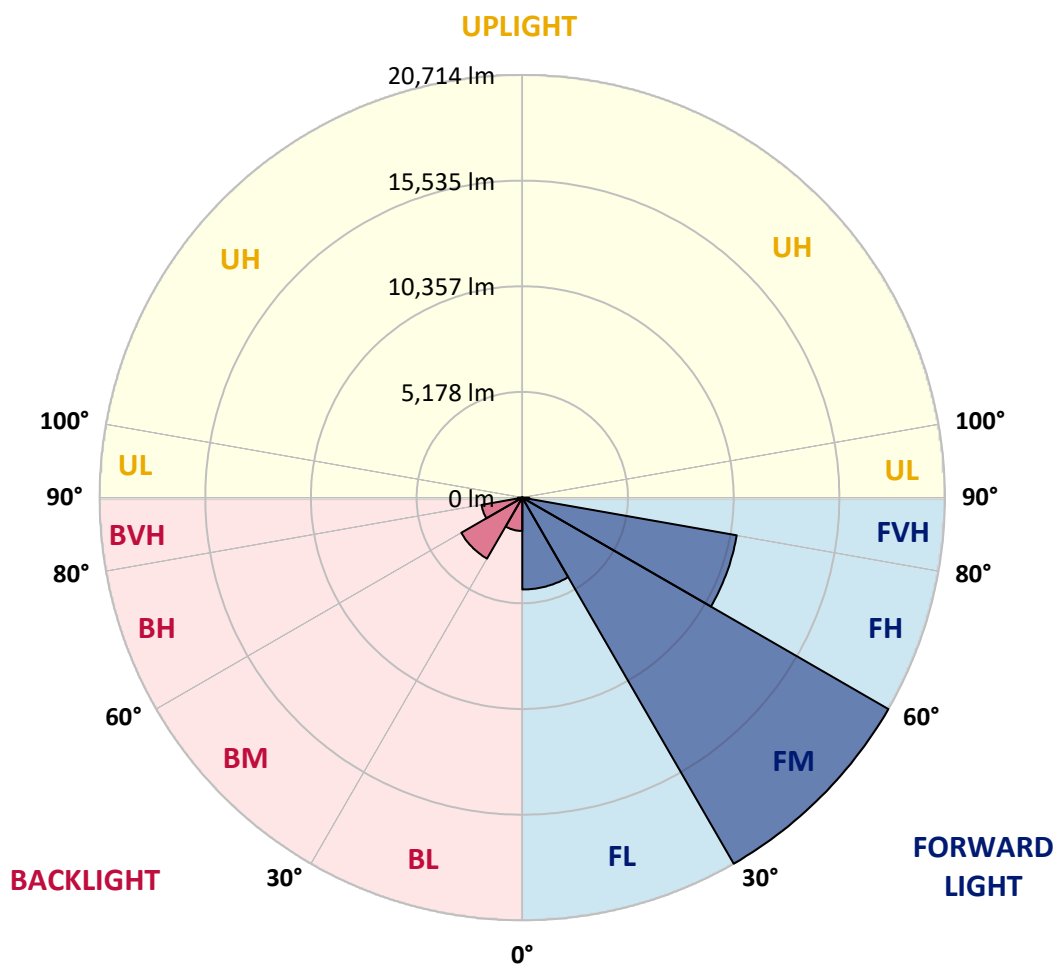
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4502.5	10.3			
FM	(30°-60°)	20713.8	47.6			
FH	(60°-80°)	10671.9	24.5			G4/12000
FVH	(80°-90°)	341.3	0.8			G3/500
BL	(0°-30°)	1634.5	3.8	B3/2500		
BM	(30°-60°)	3452.0	7.9	B3/5000		
BH	(60°-80°)	2030.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	204.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4
2.5°	5376.4	5340.9	5303.1	5199.2	5088.2	4963.0	4783.4	4611.0	4381.9	4374.8	4204.7
5°	6866.9	6843.3	6675.6	6578.7	6321.2	5978.7	5688.2	5237.0	4818.9	4769.3	4438.6
7.5°	8237.0	8144.8	8081.1	7906.3	7651.1	7211.8	6649.6	6040.1	5340.9	5274.8	4726.7
10°	9269.2	9259.8	9226.7	9075.5	8884.2	8447.2	7823.6	6949.6	6002.3	5872.4	5076.4
12.5°	10041.7	10048.8	10044.0	10041.7	9904.7	9533.8	8858.2	7937.0	6670.8	6578.7	5480.3
15°	10549.6	10620.4	10648.8	10766.9	10778.7	10530.7	9949.6	8891.3	7424.4	7287.4	5914.9
17.5°	10885.0	10920.4	11052.7	11253.5	11416.5	11371.6	10854.3	9774.8	8194.5	7965.3	6366.1
20°	11206.2	11267.7	11369.2	11643.3	11931.4	12063.7	11699.9	10679.5	8957.4	8811.0	6864.5
22.5°	11874.7	11962.1	11997.6	12137.0	12382.6	12616.5	12451.1	11546.4	9793.7	9595.2	7393.7
25°	13006.2	13098.4	12999.2	12966.1	13046.4	13162.1	13126.7	12363.7	10582.6	10299.2	7894.5
27.5°	14480.2	14492.1	14298.4	14114.1	13915.7	13856.6	13748.0	13088.9	11267.7	11031.4	8397.6
30°	16062.9	16006.2	15685.0	15351.9	15016.5	14685.8	14373.9	13788.1	12030.7	11759.0	8891.3
32.5°	17532.2	17501.5	17144.8	16627.5	16060.6	15748.7	15118.0	14494.4	12848.0	12585.8	9399.2
35°	18633.0	18677.9	18285.7	17721.2	17102.3	16825.9	16029.8	15236.1	13693.6	13407.8	9951.9
37.5°	19414.9	19391.2	19044.0	18555.0	18011.7	17770.8	17095.2	16046.4	14603.1	14329.1	10556.6
40°	19693.6	19679.4	19422.0	19065.3	18720.4	18635.3	18210.2	16920.4	15644.8	15323.6	11284.2
42.5°	19516.4	19547.2	19377.1	19280.2	19216.4	19277.9	19318.0	18066.1	16781.0	16485.8	12073.2
45°	18973.1	18956.6	18933.0	19091.3	19450.3	19854.2	20414.1	19147.9	18016.5	17780.2	13131.4
47.5°	18002.3	18120.4	18179.4	18616.4	19400.7	20357.4	21675.5	20598.3	19809.4	19603.8	14744.8
50°	16644.0	16738.5	17088.1	17865.3	19034.6	20546.4	22908.6	22970.0	22799.9	22414.9	16497.6
52.5°	14522.8	14669.2	15389.7	16814.1	18283.4	20468.4	23655.0	25003.8	25228.2	24940.0	18224.3
55°	12148.8	12354.3	13114.9	14983.4	17248.7	20043.2	24170.0	26182.6	27077.8	26810.9	19887.3
57.5°	9824.4	10041.7	10823.6	12633.0	15444.0	19103.1	24507.8	27495.9	29595.9	29248.7	21956.6
60°	7363.0	7589.7	8260.6	10124.4	12874.0	17265.3	24278.6	28634.5	32111.7	31962.8	24028.2
62.5°	4750.4	5000.8	5584.2	7126.7	9895.2	14754.3	23052.6	29262.9	34289.6	34110.1	25540.0
65°	2893.7	2922.0	3243.3	4424.4	6772.4	11423.6	20248.7	28429.0	35437.6	35383.3	26000.7
67.5°	1870.9	1915.7	2062.2	2650.4	4060.6	7934.6	16190.5	25677.0	34766.8	34747.9	25048.7
70°	1580.3	1594.5	1660.6	1788.2	2359.8	4811.8	11369.2	21290.5	32218.0	32218.0	22759.7
72.5°	1412.6	1431.5	1455.1	1495.3	1684.2	2726.0	6784.2	16573.2	27817.2	28001.4	19372.4
75°	1282.7	1277.9	1292.1	1299.2	1436.2	1781.1	3507.9	12257.4	21519.6	21151.1	14029.1
77.5°	1098.4	1105.5	1098.4	1129.1	1268.5	1355.9	1781.1	8225.2	13041.7	12564.5	7041.7
80°	902.4	914.2	926.0	944.9	1084.2	1029.9	1070.1	3748.8	4823.6	4722.0	2175.6
82.5°	677.9	694.5	713.4	758.3	852.8	680.3	675.6	1601.6	1740.9	1594.5	800.8
85°	274.0	323.6	489.0	533.9	536.2	373.2	415.7	668.5	711.0	694.5	314.2
87.5°	63.8	75.6	158.3	238.6	219.7	139.4	153.5	217.3	248.0	229.1	106.3
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°	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4	4046.4
2.5°	4126.8	4044.1	3902.3	3793.7	3715.7	3647.2	3604.7	3578.7	3569.3	3566.9	3569.3
5°	4266.1	4119.7	3895.3	3753.5	3675.6	3630.7	3604.7	3602.3	3604.7	3607.1	3600.0
7.5°	4457.5	4247.2	3954.3	3822.0	3763.0	3729.9	3718.1	3713.4	3715.7	3713.4	3713.4
10°	4712.6	4424.4	4070.1	3933.1	3883.4	3845.7	3826.8	3814.9	3805.5	3796.0	3791.3
12.5°	4993.7	4620.5	4195.3	4063.0	3992.1	3933.1	3890.5	3859.8	3838.6	3817.3	3812.6
15°	5307.8	4828.3	4334.6	4150.4	4048.8	3961.4	3888.2	3838.6	3800.8	3770.1	3767.7
17.5°	5607.8	5024.4	4429.1	4190.5	4041.7	3918.9	3822.0	3753.5	3706.3	3666.1	3661.4
20°	5929.1	5211.0	4471.6	4164.5	3970.8	3822.0	3694.5	3611.8	3557.5	3512.6	3505.5
22.5°	6252.7	5369.3	4466.9	4081.9	3848.0	3673.2	3538.6	3451.2	3387.4	3342.5	3326.0
25°	6562.2	5496.8	4407.9	3949.6	3677.9	3496.0	3359.0	3278.7	3222.0	3167.7	3167.7
27.5°	6840.9	5572.4	4296.8	3789.0	3503.1	3311.8	3203.1	3129.9	3077.9	3042.5	3021.2
30°	7114.9	5607.8	4145.7	3585.8	3318.9	3155.9	3068.5	3026.0	2978.7	2938.6	2933.8
32.5°	7360.6	5600.8	3956.7	3387.4	3144.1	3028.3	2992.9	2959.8	2910.2	2853.5	2839.4
35°	7599.2	5553.5	3732.3	3170.1	2997.6	2952.7	2962.2	2914.9	2825.2	2754.3	2742.5
37.5°	7859.0	5468.5	3486.6	2992.9	2874.8	2917.3	2940.9	2837.0	2690.5	2579.5	2553.5
40°	8159.0	5371.6	3231.5	2815.7	2777.9	2884.2	2884.2	2692.9	2492.1	2423.6	2404.7
42.5°	8511.0	5291.3	3018.9	2666.9	2697.6	2803.9	2792.1	2501.6	2418.9	2383.5	2374.0
45°	9068.5	5263.0	2799.2	2537.0	2631.5	2709.4	2612.6	2435.4	2388.2	2359.8	2350.4
47.5°	9949.6	5296.0	2605.5	2440.1	2555.9	2614.9	2411.8	2390.5	2357.5	2317.3	2312.6
50°	10766.9	5265.3	2468.5	2385.8	2489.8	2501.6	2329.1	2336.2	2317.3	2272.4	2263.0
52.5°	11435.4	5168.5	2381.1	2357.5	2433.1	2303.1	2251.2	2277.2	2270.1	2213.4	2203.9
55°	12170.0	5109.4	2338.6	2357.5	2395.3	2130.7	2177.9	2215.7	2206.3	2166.1	2163.8
57.5°	13060.6	5121.2	2307.9	2364.6	2357.5	2043.3	2104.7	2149.6	2147.2	2135.4	2135.4
60°	13972.4	5126.0	2260.6	2362.2	2312.6	1974.8	2029.1	2092.9	2097.6	2104.7	2104.7
62.5°	14274.7	4920.4	2168.5	2319.7	2213.4	1908.7	1958.3	2045.7	2040.9	2059.8	2062.2
65°	13710.2	4351.2	2031.5	2222.8	2085.8	1861.4	1903.9	1984.2	1958.3	2007.9	2017.3
67.5°	12479.5	3600.0	1818.9	2048.0	1944.1	1811.8	1868.5	1899.2	1852.0	1948.8	1951.2
70°	10785.8	2811.0	1549.6	1800.0	1783.5	1759.8	1840.1	1792.9	1726.8	1844.9	1821.3
72.5°	9018.9	2147.2	1237.8	1471.6	1568.5	1681.9	1790.5	1655.9	1563.8	1599.2	1556.7
75°	6774.8	1587.4	994.5	1152.8	1306.3	1570.9	1745.7	1490.5	1348.8	1315.7	1306.3
77.5°	3453.5	1037.0	744.1	862.2	980.3	1419.7	1684.2	1296.8	1117.3	1065.3	1041.7
80°	1233.1	644.9	524.4	595.3	661.4	1221.3	1471.6	1072.4	866.9	857.5	866.9
82.5°	571.7	415.7	352.0	389.8	392.1	815.0	1122.0	800.8	659.1	1001.6	845.7
85°	245.7	207.9	198.4	193.7	179.5	363.8	630.7	429.9	670.9	300.0	276.4
87.5°	73.2	82.7	73.2	54.3	40.2	40.2	63.8	23.6	16.5	11.8	11.8
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)