

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: P647069

Luminaire Tested: **GALN-SA7C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647069  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-835-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32161 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

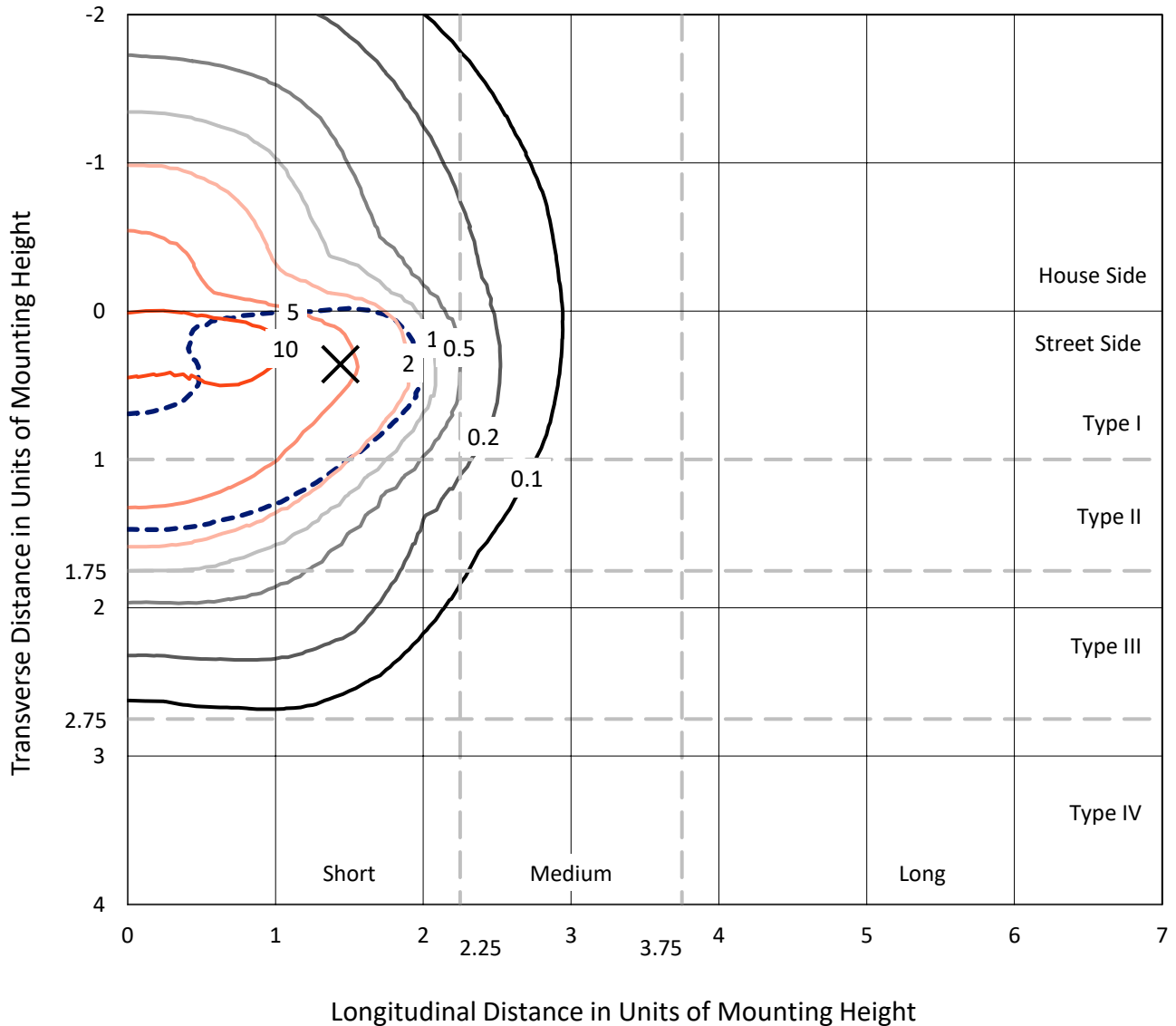
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

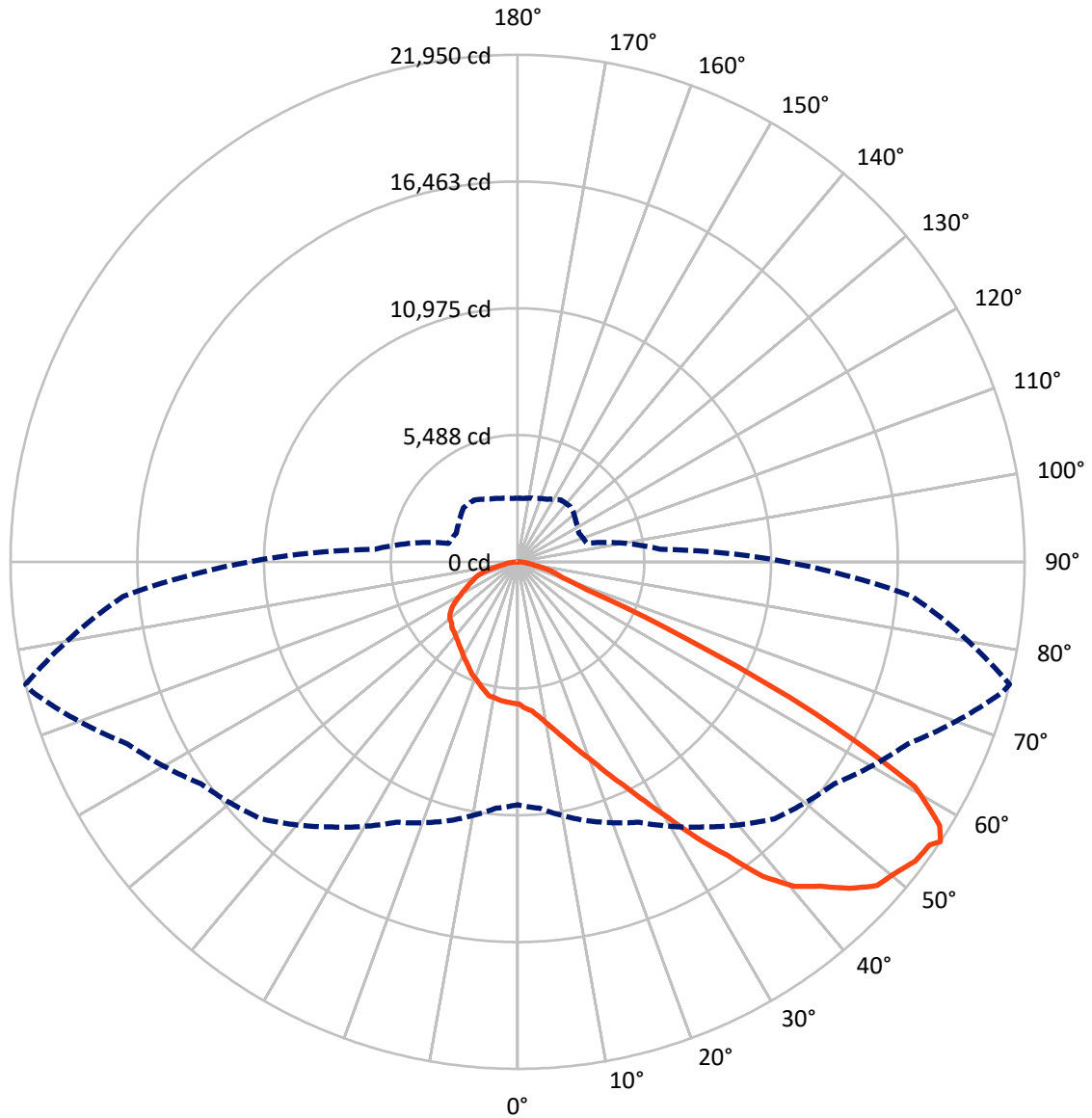
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8647.1	0.0	8647.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	23513.8	0.0	23513.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	32161.0	0.0	32161.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	610.3	1.9
10°-20°	1917.0	6.0
20°-30°	3352.6	10.4
30°-40°	5249.1	16.3
40°-50°	7636.0	23.7
50°-60°	8392.5	26.1
60°-70°	3746.0	11.6
70°-80°	1082.0	3.4
80°-90°	175.5	0.5
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°	32161.0	100.0
0°-180°	32161.0	100.0

**Coefficient of Utilization**

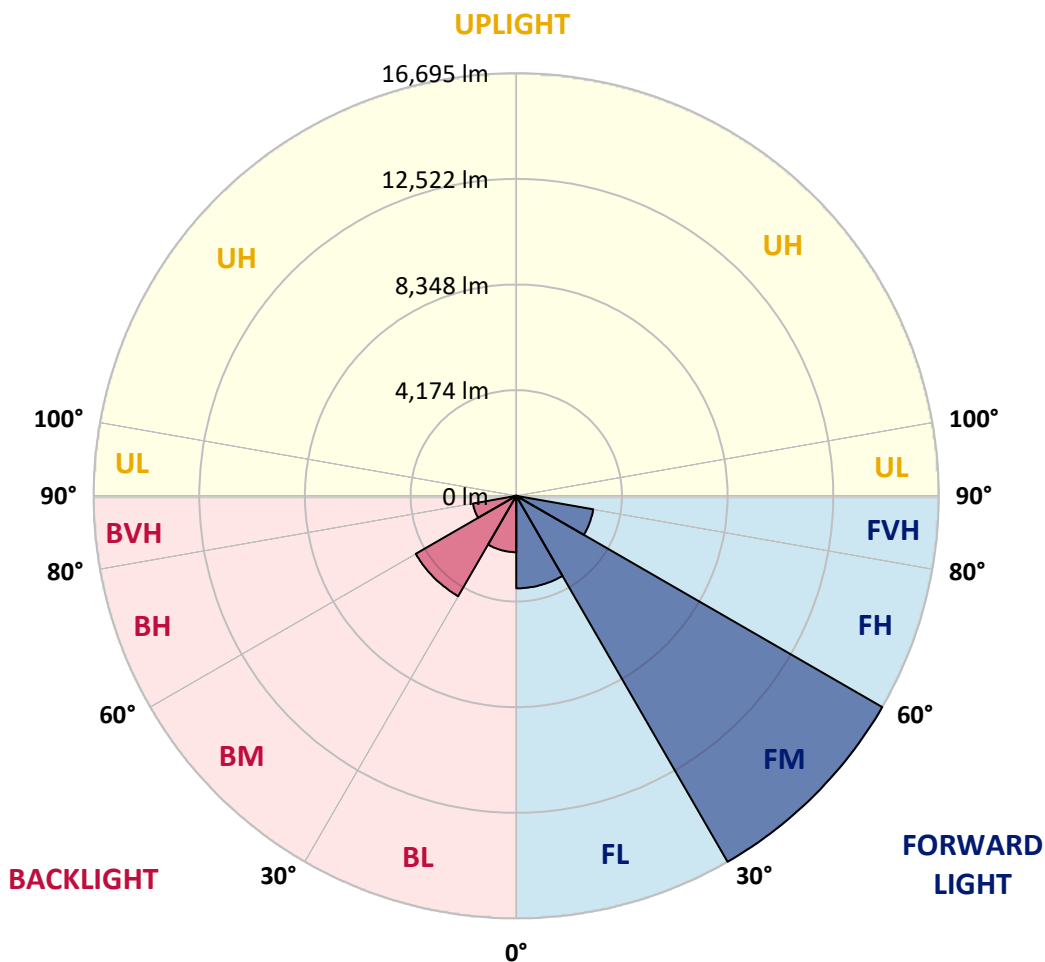


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3654.7	11.4			
FM (30°-60°)	16695.3	51.9			
FH (60°-80°)	3088.2	9.6			G2/5000
FVH (80°-90°)	75.6	0.2			G1/100
BL (0°-30°)	2225.1	6.9	B3/2500		
BM (30°-60°)	4582.3	14.2	B3/5000		
BH (60°-80°)	1739.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	100.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6
2.5°	6779.0	6670.5	6662.2	6633.0	6649.7	6574.7	6495.5	6391.2	6282.8	6349.5	6191.1
5°	7254.3	7108.3	7166.6	7066.7	7079.1	6979.0	6816.5	6695.6	6562.2	6482.9	6370.4
7.5°	7421.0	7433.5	7475.2	7458.5	7375.2	7375.2	7266.7	7054.1	6820.6	6774.8	6587.1
10°	7646.2	7650.3	7604.4	7616.9	7733.7	7679.5	7583.6	7491.9	7191.7	7137.5	6804.0
12.5°	7725.3	7650.3	7725.3	7792.0	7929.6	8004.7	7983.8	7917.1	7596.1	7558.5	7070.8
15°	7737.8	7692.0	7754.5	7904.6	8025.5	8342.4	8500.8	8454.9	8029.7	8033.8	7370.9
17.5°	7679.5	7742.0	7767.0	7896.2	8175.6	8471.6	8930.2	8992.8	8642.5	8588.3	7750.4
20°	7758.7	7712.9	7746.1	7862.9	8233.9	8696.7	9297.1	9709.8	9217.9	9180.4	8142.3
22.5°	8063.0	8000.5	7992.2	8067.2	8334.0	8813.4	9684.8	10426.9	9918.3	9939.1	8630.0
25°	8300.7	8334.0	8304.8	8300.7	8467.4	8988.6	10197.6	11281.5	10868.8	10747.9	9205.3
27.5°	8709.2	8788.5	8730.1	8809.3	8771.8	9251.2	10564.5	12228.0	11894.4	11731.8	9726.5
30°	9276.2	9317.9	9263.8	9263.8	9151.2	9618.1	10898.0	13216.0	13078.4	12857.5	10339.4
32.5°	10022.5	10085.0	9976.7	9914.1	9897.4	10164.3	11498.4	14191.6	14425.1	14237.4	11152.3
35°	11010.5	10973.0	10843.8	10785.4	10560.3	11002.2	12390.6	15313.1	15925.9	15592.4	12136.3
37.5°	11881.9	11823.5	11815.2	11490.1	11544.2	11906.9	13149.3	16163.5	17381.0	17285.0	13174.4
40°	12694.9	12749.1	12836.7	12653.2	12569.8	12970.1	14033.2	16814.0	18510.7	18473.2	13974.8
42.5°	13566.3	13516.2	13670.5	13516.2	13391.1	13958.1	14992.1	17264.2	19503.0	19194.5	14812.8
45°	14829.5	14671.1	14725.3	14737.8	14646.0	14854.4	15388.1	17589.4	20199.3	20165.9	15425.6
47.5°	15884.3	15888.4	15796.7	15725.9	15446.5	15654.9	15830.1	17793.7	20999.7	20945.6	15663.3
50°	16276.1	16222.0	16488.8	16643.1	16659.7	16234.5	16176.1	17906.3	21420.8	21183.2	15900.9
52.5°	14867.0	14917.0	15338.1	16255.3	16784.8	16830.7	16580.5	18139.8	21591.8	21541.7	16092.7
55°	11965.3	12207.1	12899.1	13958.1	15213.1	16593.0	17018.3	18381.6	21683.5	21641.8	16943.2
56°	10518.6	10706.3	11606.7	12436.4	14012.3	15730.0	16743.0	18640.0	21754.3	21950.3	17143.3
57.5°	8467.4	8684.3	9330.5	10272.6	12132.0	14087.3	15984.3	18323.1	21479.2	21554.2	17289.3
60°	5294.7	5315.6	6091.0	6712.3	8021.4	9930.8	12198.7	15942.6	19878.3	19769.8	15529.9
62.5°	3472.8	3477.0	4181.6	4690.2	5286.4	5724.2	7179.2	10572.8	14666.8	14475.1	11056.4
65°	2438.9	2493.2	3039.3	3718.9	3960.6	3731.3	3685.5	5574.1	8192.3	7917.1	5940.9
67.5°	1784.4	1788.5	2272.2	3001.8	3351.9	2839.2	2305.5	2722.4	3243.6	3235.2	2751.6
70°	1179.8	1229.9	1600.9	2243.0	2643.2	2280.5	1884.4	1946.9	2063.7	2063.7	2047.0
72.5°	687.9	733.7	979.8	1421.7	1484.2	1425.8	1492.6	1667.6	1742.6	1738.5	1717.7
75°	391.9	412.7	466.9	592.0	737.9	871.3	1096.4	1263.2	1338.3	1384.1	1329.9
77.5°	229.3	241.8	275.1	337.7	383.6	471.1	596.2	712.9	813.0	800.5	808.8
80°	120.9	120.9	154.3	200.1	266.8	333.6	396.0	462.8	516.9	529.5	542.0
82.5°	70.9	75.0	100.1	146.0	191.8	237.6	304.4	350.2	400.3	404.4	412.7
85°	37.5	41.7	62.6	95.9	129.3	146.0	150.1	141.7	154.3	146.0	166.8
87.5°	12.5	12.5	20.8	16.7	16.7	20.8	25.0	25.0	33.4	33.4	33.4
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°	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6	6153.6
2.5°	6187.0	6187.0	6116.1	5982.7	5961.8	5907.6	5857.5	5853.4	5815.9	5782.5	5765.9
5°	6303.7	6174.4	6070.2	5949.3	5807.5	5740.9	5665.8	5582.4	5549.0	5582.4	5578.2
7.5°	6437.0	6328.7	6016.0	5790.8	5628.3	5561.6	5478.2	5390.6	5398.9	5398.9	5340.6
10°	6566.3	6420.4	5920.1	5632.4	5394.8	5344.8	5299.0	5332.3	5374.0	5382.3	5344.8
12.5°	6783.1	6453.7	5874.2	5474.0	5323.9	5215.6	5244.7	5336.5	5424.0	5398.9	5428.1
15°	6945.7	6482.9	5665.8	5311.4	5123.8	5173.8	5278.0	5340.6	5486.6	5469.9	5499.0
17.5°	7104.2	6499.6	5461.5	5094.7	5015.4	5153.0	5232.2	5411.5	5457.4	5557.4	5594.9
20°	7429.3	6533.0	5253.1	4961.2	4936.2	5094.7	5232.2	5315.6	5415.6	5503.2	5503.2
22.5°	7596.1	6516.3	5115.5	4786.1	4865.3	4965.4	5090.4	5232.2	5232.2	5315.6	5319.8
25°	7804.6	6449.6	4898.7	4702.8	4761.1	4857.0	4998.8	4948.7	5002.9	5002.9	5069.6
27.5°	8042.2	6307.8	4711.1	4552.7	4669.4	4773.6	4794.5	4761.1	4698.5	4690.2	4665.2
30°	8233.9	6132.8	4573.5	4502.6	4598.5	4656.9	4590.2	4519.3	4410.9	4402.6	4344.2
32.5°	8496.6	5916.0	4402.6	4377.5	4486.0	4490.1	4469.3	4360.8	4202.4	4135.7	4069.0
35°	8938.6	5790.8	4273.3	4310.8	4344.2	4331.7	4294.1	4177.5	4019.0	3989.9	3964.8
37.5°	9263.8	5699.1	4139.9	4185.8	4215.0	4231.6	4119.0	3989.9	3994.0	3935.6	3918.9
40°	9630.6	5640.8	4031.5	4052.3	4056.6	4110.8	3973.2	3910.6	3939.8	3902.2	3927.3
42.5°	10101.7	5657.5	3918.9	3902.2	3981.5	3960.6	3893.9	3810.5	3827.2	3714.6	3731.3
45°	10351.9	5770.0	3852.3	3777.2	3864.7	3860.6	3773.0	3693.8	3593.7	3377.0	3385.3
47.5°	10518.6	5799.2	3693.8	3643.8	3735.5	3789.7	3689.7	3506.2	3364.5	3210.2	3172.7
50°	10689.6	5853.4	3618.8	3514.6	3552.1	3681.3	3556.2	3381.2	3243.6	3106.0	3126.8
52.5°	10839.6	5957.6	3472.8	3318.6	3385.3	3527.0	3460.3	3247.7	3097.6	2985.1	2951.8
55°	11506.7	6191.1	3226.9	3026.8	3185.2	3364.5	3327.0	3068.4	2905.9	2847.5	2839.2
56°	11611.0	6199.5	3097.6	2926.7	3072.6	3310.3	3264.4	2989.3	2843.3	2751.6	2755.8
57.5°	11627.6	6099.4	2914.2	2835.0	2960.1	3231.0	3172.7	2926.7	2726.6	2643.2	2618.2
60°	10231.0	4761.1	2684.9	2634.9	2780.8	2989.3	2968.4	2755.8	2530.7	2434.7	2480.6
62.5°	6974.9	3489.5	2505.6	2497.3	2572.3	2776.6	2722.4	2530.7	2343.0	2280.5	2251.3
65°	4060.7	2647.4	2330.5	2297.2	2359.7	2468.1	2505.6	2305.5	2109.6	2067.9	2055.4
67.5°	2397.2	2188.8	2105.4	2051.2	2030.3	2097.0	2126.2	2009.5	1813.6	1755.2	1805.2
70°	2005.3	1946.9	1951.2	1859.4	1809.4	1763.6	1738.5	1634.3	1471.7	1396.6	1375.8
72.5°	1730.2	1705.1	1688.5	1605.1	1559.3	1455.0	1346.6	1242.4	1121.5	1058.9	1063.2
75°	1321.6	1313.2	1321.6	1279.9	1200.7	1117.3	1017.3	883.9	792.2	712.9	729.6
77.5°	787.9	813.0	825.5	808.8	775.5	700.4	637.9	550.3	462.8	400.3	391.9
80°	542.0	562.8	583.6	562.8	529.5	475.3	408.6	341.9	279.3	245.9	237.6
82.5°	412.7	433.5	446.1	425.2	383.6	325.2	279.3	233.5	183.5	150.1	141.7
85°	150.1	170.9	166.8	200.1	216.8	208.4	179.3	137.6	104.2	75.0	70.9
87.5°	41.7	37.5	41.7	41.7	41.7	37.5	33.4	33.4	33.4	20.8	16.7
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)