

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: P651414

Luminaire Tested: **GALN-SA5D-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651414  
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-SA5D-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1200mA 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: 27329.1 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

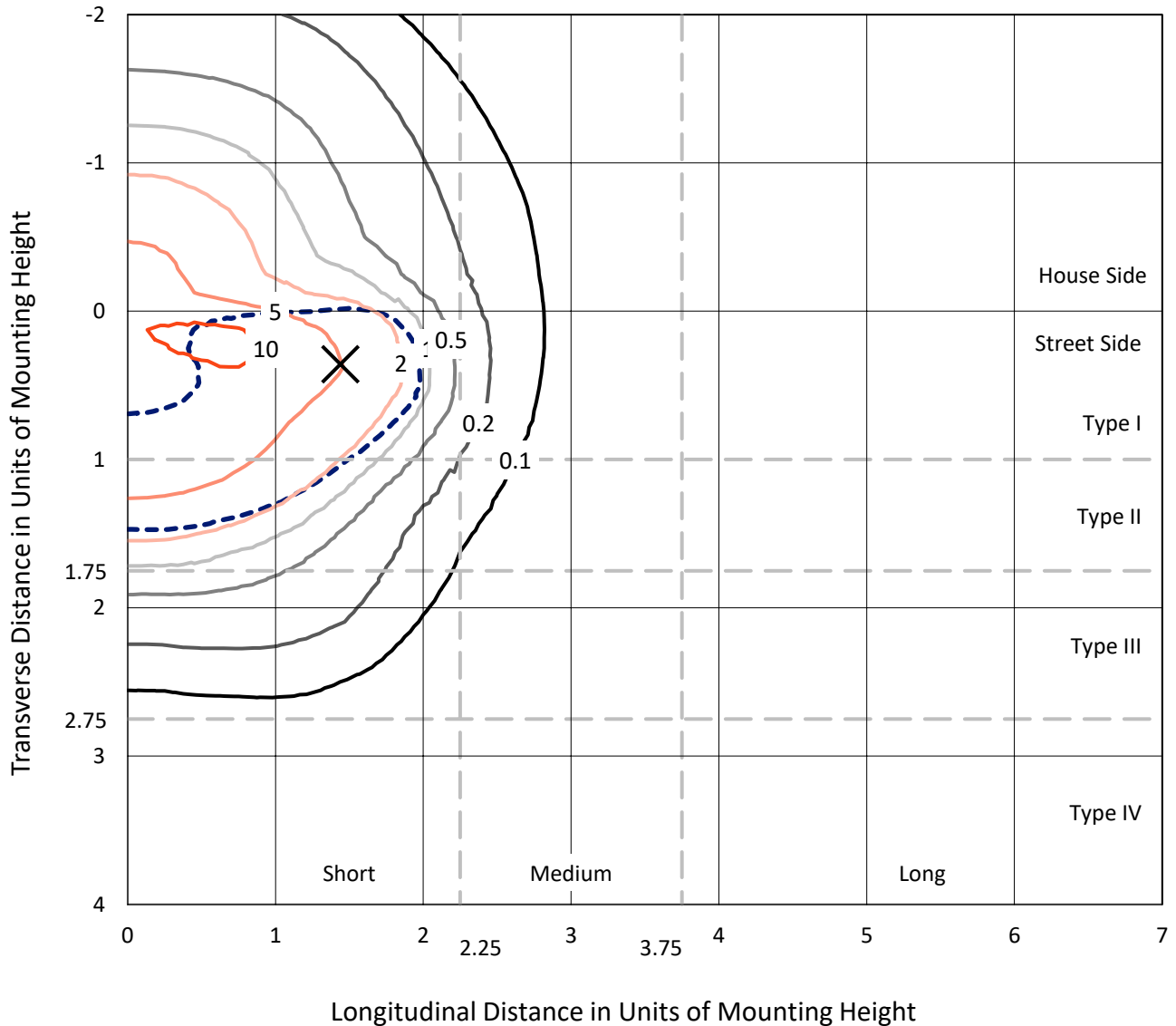
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

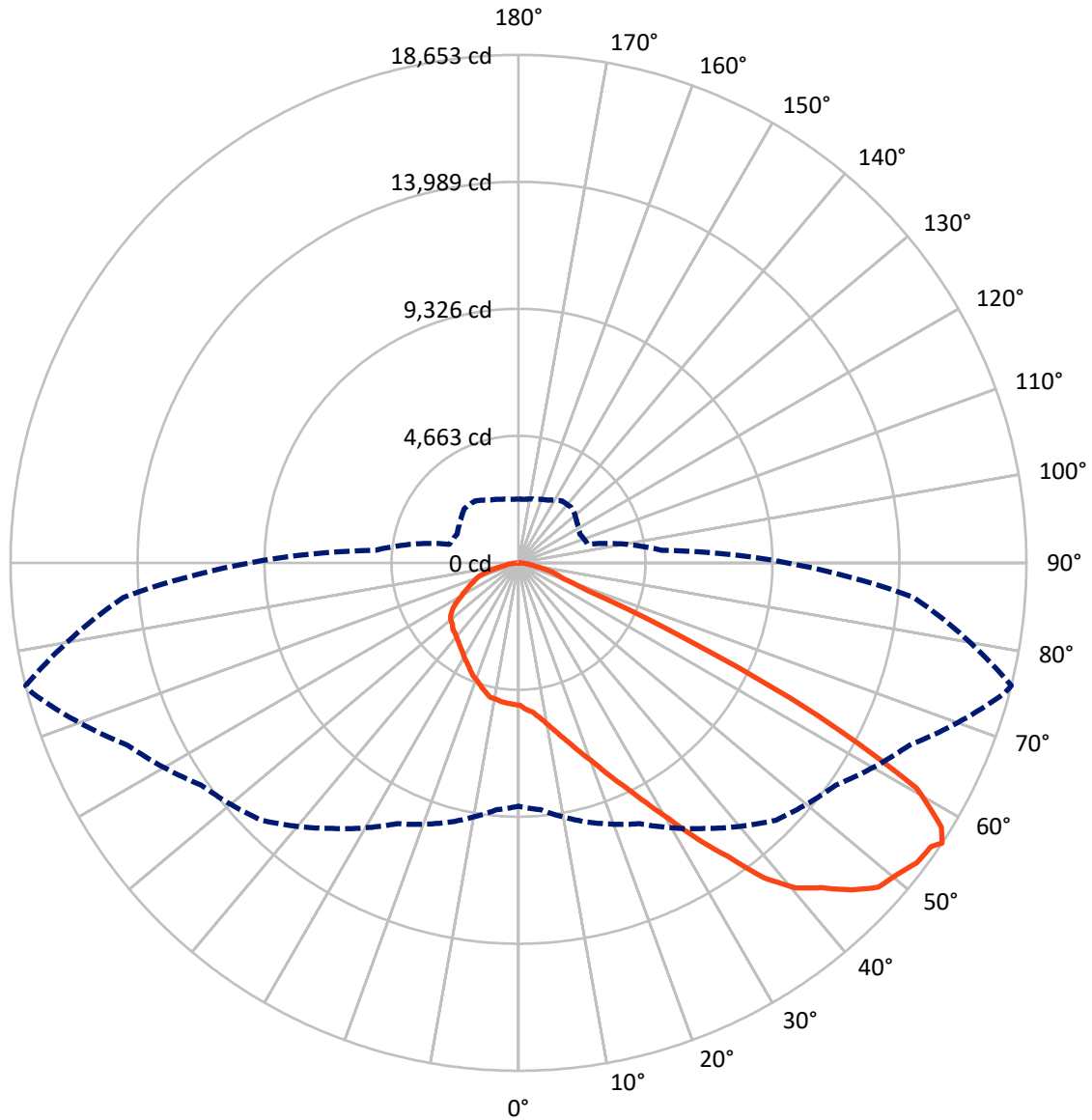
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	7348.0	0.0	7348.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	19981.1	0.0	19981.1
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	27329.1	0.0	27329.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.6	1.9
10°-20°	1629.0	6.0
20°-30°	2848.9	10.4
30°-40°	4460.5	16.3
40°-50°	6488.8	23.7
50°-60°	7131.6	26.1
60°-70°	3183.2	11.6
70°-80°	919.4	3.4
80°-90°	149.1	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°	27329.1	100.0
0°-180°	27329.1	100.0

**Coefficient of Utilization**

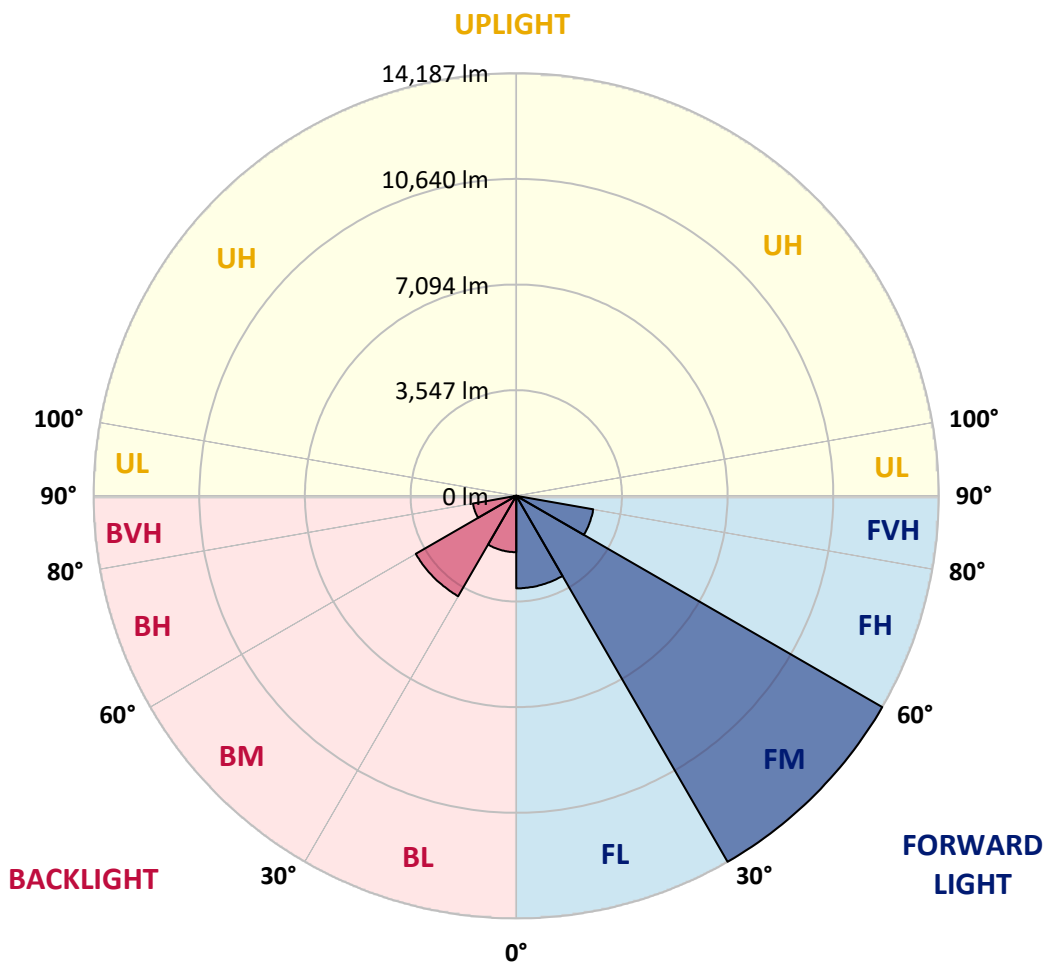


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.7	11.4			
FM (30°-60°)	14187.1	51.9			
FH (60°-80°)	2624.2	9.6			G2/5000
FVH (80°-90°)	64.2	0.2			G1/100
BL (0°-30°)	1890.8	6.9	B3/2500		
BM (30°-60°)	3893.8	14.2	B3/5000		
BH (60°-80°)	1478.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	84.9	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°	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1
2.5°	5760.5	5668.3	5661.3	5636.5	5650.7	5586.9	5519.6	5431.0	5338.9	5395.6	5261.0
5°	6164.4	6040.4	6089.9	6004.9	6015.6	5930.6	5792.4	5689.6	5576.3	5509.0	5413.3
7.5°	6306.1	6316.7	6352.2	6337.9	6267.1	6267.1	6175.0	5994.3	5795.9	5757.0	5597.5
10°	6497.4	6500.9	6462.0	6472.6	6571.7	6525.7	6444.2	6366.3	6111.2	6065.1	5781.7
12.5°	6564.7	6500.9	6564.7	6621.4	6738.3	6802.1	6784.3	6727.7	6454.8	6423.0	6008.4
15°	6575.4	6536.3	6589.5	6717.1	6819.8	7089.0	7223.6	7184.7	6823.3	6826.8	6263.6
17.5°	6525.7	6578.9	6600.1	6709.9	6947.3	7198.9	7588.5	7641.7	7344.1	7298.0	6586.0
20°	6593.0	6554.1	6582.4	6681.6	6996.9	7390.1	7900.3	8251.1	7833.0	7801.1	6919.0
22.5°	6851.6	6798.5	6791.4	6855.2	7081.9	7489.4	8229.8	8860.4	8428.2	8445.9	7333.4
25°	7053.6	7081.9	7057.2	7053.6	7195.3	7638.1	8665.5	9586.6	9235.9	9133.2	7822.4
27.5°	7400.8	7468.1	7418.5	7485.8	7454.0	7861.3	8977.3	10390.8	10107.4	9969.3	8265.2
30°	7882.6	7918.0	7871.9	7871.9	7776.3	8173.1	9260.7	11230.5	11113.6	10925.8	8786.0
32.5°	8516.7	8569.9	8477.8	8424.6	8410.4	8637.2	9770.9	12059.4	12257.8	12098.5	9476.8
35°	9356.4	9324.5	9214.7	9165.0	8973.7	9349.3	10529.0	13012.5	13533.3	13249.9	10312.9
37.5°	10096.8	10047.2	10040.1	9763.8	9809.8	10118.1	11173.8	13735.2	14769.6	14688.1	11195.1
40°	10787.6	10833.7	10908.1	10752.2	10681.4	11021.5	11924.9	14287.8	15729.7	15697.9	11875.3
42.5°	11528.1	11485.5	11616.6	11485.5	11379.2	11861.0	12739.7	14670.5	16572.9	16310.8	12587.3
45°	12601.5	12466.9	12513.0	12523.6	12445.6	12622.7	13076.2	14946.8	17164.6	17136.2	13108.2
47.5°	13497.8	13501.3	13423.5	13363.2	13125.8	13302.9	13451.8	15120.4	17844.8	17798.7	13310.1
50°	13830.8	13784.7	14011.6	14142.6	14156.8	13795.4	13745.8	15216.0	18202.6	18000.7	13512.0
52.5°	12633.4	12675.9	13033.7	13813.1	14263.0	14302.0	14089.4	15414.4	18347.8	18305.3	13675.0
55°	10167.7	10373.1	10961.3	11861.0	12927.4	14100.1	14461.4	15619.9	18425.8	18390.3	14397.7
56°	8938.3	9097.8	9863.0	10568.0	11907.1	13366.8	14227.6	15839.6	18486.0	18652.5	14567.7
57.5°	7195.3	7379.5	7928.6	8729.3	10309.4	11970.9	13582.8	15570.4	18252.1	18316.0	14691.8
60°	4499.3	4517.0	5175.9	5703.8	6816.2	8438.8	10366.1	13547.4	16891.7	16799.6	13196.7
62.5°	2951.1	2954.6	3553.4	3985.6	4492.2	4864.2	6100.6	8984.4	12463.4	12300.4	9395.3
65°	2072.5	2118.6	2582.6	3160.1	3365.6	3170.7	3131.8	4736.7	6961.5	6727.7	5048.4
67.5°	1516.3	1519.9	1930.8	2550.8	2848.4	2412.6	1959.1	2313.4	2756.2	2749.1	2338.2
70°	1002.6	1045.1	1360.4	1906.0	2246.1	1937.9	1601.3	1654.5	1753.7	1753.7	1739.5
72.5°	584.6	623.5	832.5	1208.1	1261.2	1211.6	1268.3	1417.1	1480.8	1477.3	1459.6
75°	333.0	350.7	396.8	503.1	627.0	740.4	931.7	1073.5	1137.2	1176.2	1130.1
77.5°	194.9	205.5	233.8	286.9	326.0	400.3	506.6	605.8	690.8	680.2	687.3
80°	102.8	102.8	131.1	170.1	226.7	283.4	336.6	393.3	439.3	449.9	460.5
82.5°	60.2	63.7	85.0	124.0	163.0	201.9	258.6	297.6	340.1	343.6	350.7
85°	31.9	35.4	53.2	81.5	109.8	124.0	127.6	120.4	131.1	124.0	141.7
87.5°	10.6	10.6	17.7	14.2	14.2	17.7	21.3	21.3	28.3	28.3	28.3
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°	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1	5229.1
2.5°	5257.4	5257.4	5197.2	5083.8	5066.1	5020.1	4977.5	4974.0	4942.1	4913.8	4899.6
5°	5356.6	5246.8	5158.2	5055.5	4935.1	4878.4	4814.6	4743.7	4715.4	4743.7	4740.2
7.5°	5469.9	5377.9	5112.2	4920.9	4782.7	4726.0	4655.2	4580.8	4587.8	4587.8	4538.2
10°	5579.8	5455.8	5030.7	4786.2	4584.3	4541.8	4502.8	4531.1	4566.5	4573.7	4541.8
12.5°	5764.0	5484.2	4991.8	4651.7	4524.1	4432.0	4456.8	4534.7	4609.1	4587.8	4612.6
15°	5902.2	5509.0	4814.6	4513.5	4354.0	4396.5	4485.1	4538.2	4662.3	4648.0	4672.8
17.5°	6036.8	5523.1	4641.0	4329.2	4261.9	4378.8	4446.1	4598.5	4637.4	4722.5	4754.3
20°	6313.1	5551.4	4463.9	4215.8	4194.6	4329.2	4446.1	4517.0	4602.0	4676.4	4676.4
22.5°	6454.8	5537.3	4347.0	4067.1	4134.4	4219.4	4325.7	4446.1	4446.1	4517.0	4520.5
25°	6632.0	5480.6	4162.7	3996.2	4045.8	4127.3	4247.7	4205.3	4251.3	4251.3	4307.9
27.5°	6834.0	5360.2	4003.3	3868.7	3967.8	4056.4	4074.1	4045.8	3992.6	3985.6	3964.3
30°	6996.9	5211.3	3886.3	3826.1	3907.6	3957.2	3900.6	3840.3	3748.3	3741.1	3691.6
32.5°	7220.1	5027.2	3741.1	3719.9	3812.0	3815.5	3797.8	3705.7	3571.1	3514.4	3457.7
35°	7595.7	4920.9	3631.3	3663.2	3691.6	3680.9	3649.0	3549.9	3415.2	3390.4	3369.1
37.5°	7871.9	4842.9	3517.9	3556.9	3581.7	3595.9	3500.2	3390.4	3393.9	3344.3	3330.2
40°	8183.7	4793.4	3425.8	3443.6	3447.1	3493.2	3376.2	3323.1	3347.9	3316.0	3337.3
42.5°	8584.1	4807.5	3330.2	3316.0	3383.3	3365.6	3308.9	3238.1	3252.2	3156.6	3170.7
45°	8796.6	4903.1	3273.5	3209.8	3284.1	3280.6	3206.1	3138.9	3053.8	2869.6	2876.7
47.5°	8938.3	4927.9	3138.9	3096.4	3174.3	3220.4	3135.3	2979.4	2859.0	2727.9	2696.0
50°	9083.6	4974.0	3075.1	2986.6	3018.4	3128.3	3022.0	2873.2	2756.2	2639.3	2657.1
52.5°	9211.1	5062.6	2951.1	2820.0	2876.7	2997.2	2940.5	2759.8	2632.2	2536.6	2508.3
55°	9778.0	5261.0	2742.1	2572.0	2706.7	2859.0	2827.1	2607.4	2469.3	2419.7	2412.6
56°	9866.5	5268.0	2632.2	2487.0	2611.0	2812.9	2774.0	2540.2	2416.1	2338.2	2341.8
57.5°	9880.7	5183.0	2476.4	2409.0	2515.3	2745.6	2696.0	2487.0	2317.0	2246.1	2224.9
60°	8693.8	4045.8	2281.5	2239.0	2363.0	2540.2	2522.4	2341.8	2150.4	2068.9	2108.0
62.5°	5927.0	2965.3	2129.2	2122.1	2185.8	2359.4	2313.4	2150.4	1991.0	1937.9	1913.1
65°	3450.6	2249.7	1980.4	1952.0	2005.2	2097.3	2129.2	1959.1	1792.6	1757.2	1746.6
67.5°	2037.1	1860.0	1789.1	1743.1	1725.3	1782.0	1806.8	1707.6	1541.0	1491.5	1534.0
70°	1704.0	1654.5	1658.0	1580.1	1537.5	1498.6	1477.3	1388.7	1250.6	1186.8	1169.1
72.5°	1470.2	1449.0	1434.8	1363.9	1325.0	1236.4	1144.3	1055.7	953.0	899.9	903.4
75°	1123.1	1115.9	1123.1	1087.6	1020.3	949.5	864.5	751.1	673.1	605.8	620.0
77.5°	669.6	690.8	701.5	687.3	658.9	595.2	542.0	467.7	393.3	340.1	333.0
80°	460.5	478.3	496.0	478.3	449.9	403.8	347.2	290.5	237.3	209.0	201.9
82.5°	350.7	368.4	379.0	361.4	326.0	276.4	237.3	198.4	155.9	127.6	120.4
85°	127.6	145.2	141.7	170.1	184.3	177.1	152.3	116.9	88.6	63.7	60.2
87.5°	35.4	31.9	35.4	35.4	35.4	31.9	28.3	28.3	28.3	17.7	14.2
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)