

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: P532614

Luminaire Tested: **GALN-SA8A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532614  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26960 lumens  
Efficiency: N/A  
Efficacy: 110.5 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

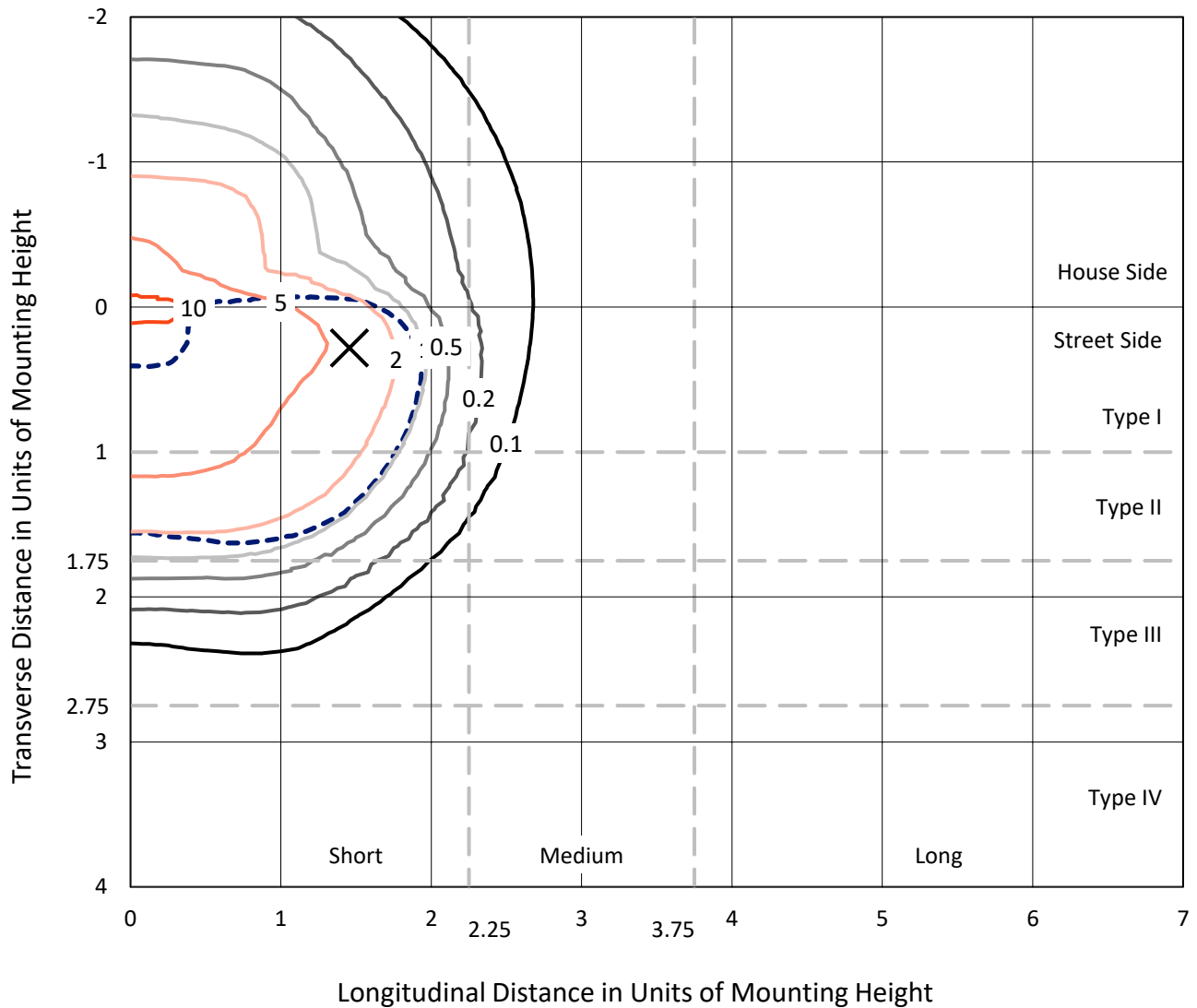
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

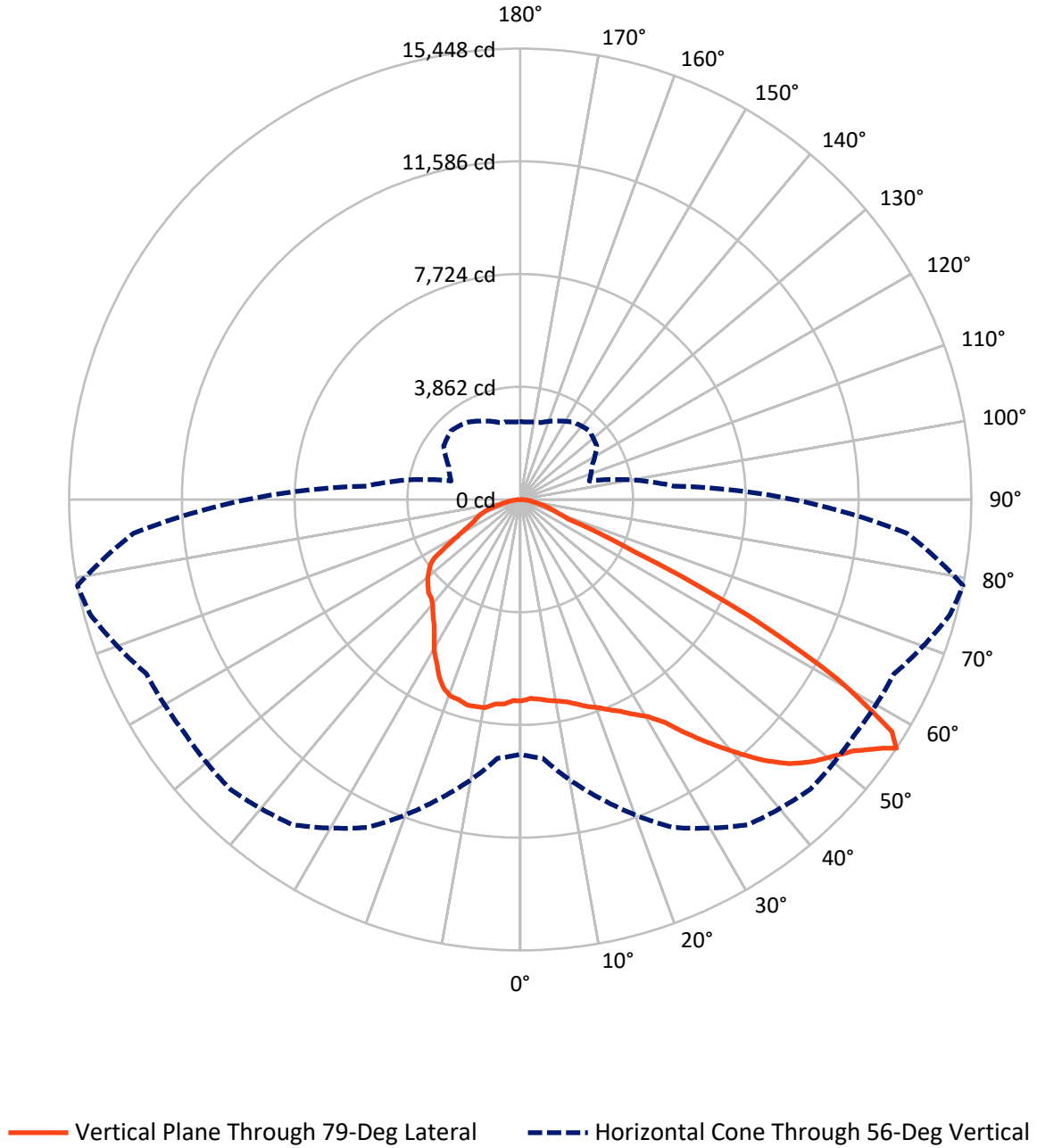
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7961.9	0.0	7961.9
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	18998.1	0.0	18998.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	26960.0	0.0	26960.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.2	2.3
10°-20°	1716.4	6.4
20°-30°	2936.4	10.9
30°-40°	4500.3	16.7
40°-50°	6082.2	22.6
50°-60°	6985.6	25.9
60°-70°	3184.2	11.8
70°-80°	785.1	2.9
80°-90°	142.7	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°	26960.0	100.0
0°-180°	26960.0	100.0

**Coefficient of Utilization**

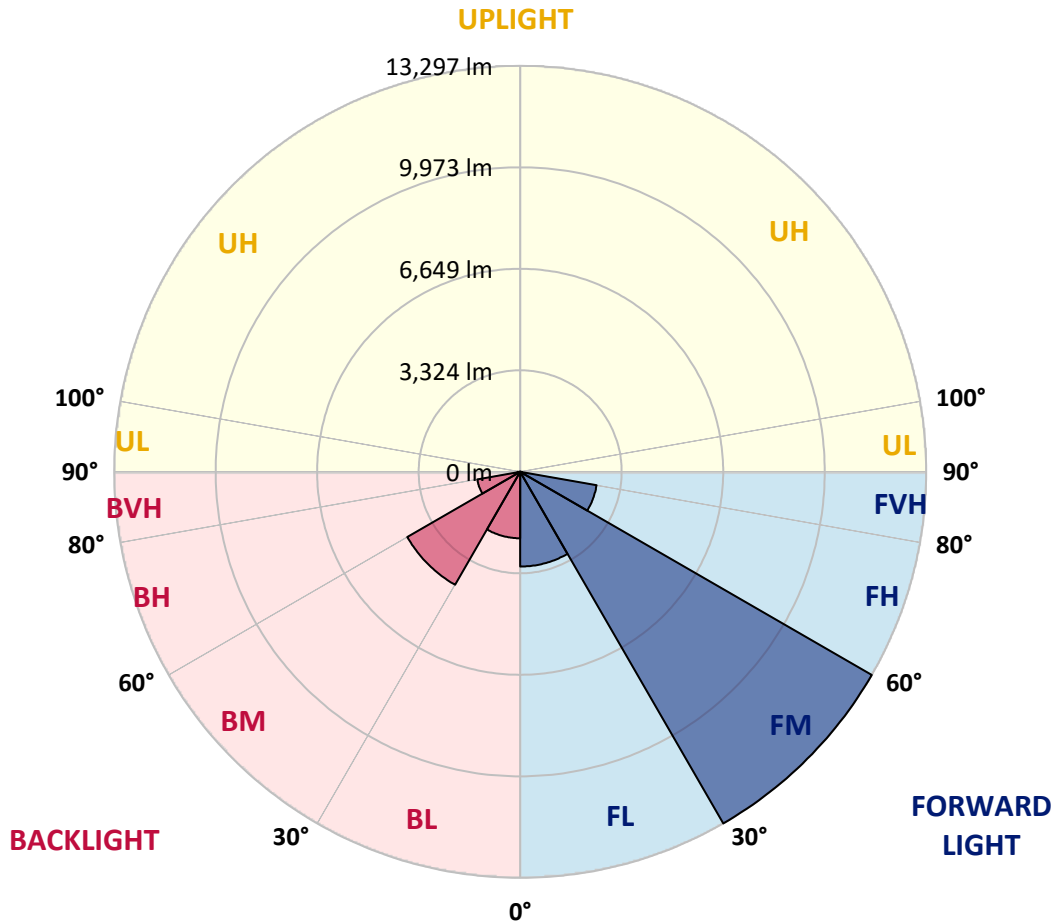


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3102.0	11.5			
FM (30°-60°)	13297.5	49.3			
FH (60°-80°)	2541.7	9.4			G2/5000
FVH (80°-90°)	57.0	0.2			G1/100
BL (0°-30°)	2177.9	8.1	B3/2500		
BM (30°-60°)	4270.6	15.8	B3/5000		
BH (60°-80°)	1427.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	85.7	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°	79°	85°
0°	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0
2.5°	6562.2	6545.4	6585.7	6615.9	6652.8	6699.9	6723.4	6736.8	6854.3	6824.1	6914.8
5°	6421.1	6377.5	6407.7	6431.2	6495.0	6552.1	6615.9	6716.6	6824.1	6871.1	6982.0
7.5°	6296.9	6273.3	6266.6	6283.4	6370.7	6444.6	6555.4	6703.2	6877.8	6955.1	7018.9
10°	6092.0	6058.4	6108.8	6219.6	6243.1	6397.6	6525.2	6736.8	6887.9	7022.3	7210.3
12.5°	6001.3	5967.7	5977.8	6041.6	6206.2	6353.9	6505.1	6743.5	7062.6	7116.3	7368.2
15°	6145.7	6112.1	6122.2	6105.4	6263.3	6340.5	6579.0	6877.8	7183.5	7274.1	7542.8
17.5°	6474.8	6478.2	6434.5	6397.6	6360.7	6525.2	6689.8	6958.4	7230.5	7458.8	7660.3
20°	7102.9	6992.0	6904.7	6696.5	6639.4	6709.9	6918.1	7176.7	7421.9	7610.0	7838.3
22.5°	7586.5	7596.5	7472.3	7129.7	7005.5	7035.7	7213.7	7425.3	7693.9	7828.3	8090.2
25°	8288.3	8217.8	8083.5	7811.5	7532.7	7556.2	7687.2	7878.6	7952.5	8046.5	8332.0
27.5°	8929.8	8949.9	8684.6	8429.4	8083.5	8016.3	8251.4	8285.0	8160.7	8338.7	8436.1
30°	9581.3	9564.5	9389.9	9091.0	8751.8	8765.2	8869.3	8704.8	8533.5	8630.9	8698.1
32.5°	10256.3	10064.9	10058.2	9789.5	9530.9	9406.7	9279.0	9359.6	9094.3	9114.5	9050.7
35°	10797.0	10823.9	10669.4	10478.0	10350.4	10132.1	9782.8	9927.2	9876.8	9853.3	9577.9
37.5°	11189.9	11085.8	11163.1	11099.3	10978.4	10706.3	10343.6	10481.3	10504.8	10619.0	10300.0
40°	11512.3	11468.7	11673.5	11707.1	11623.2	11035.5	10383.9	10793.7	11146.3	11394.8	11015.3
42.5°	11666.8	11760.8	11975.8	12234.4	12046.3	11418.3	10592.2	11032.1	11817.9	12210.9	11693.7
45°	11875.0	11754.1	12073.2	12546.7	12550.1	11740.7	10793.7	11354.5	12341.8	12912.8	12157.1
47.5°	11663.5	11723.9	12053.0	12654.2	12808.6	12079.9	11337.7	11811.2	12919.5	13426.6	12587.0
50°	11189.9	11310.8	11912.0	12536.6	13003.4	12439.2	11962.3	12304.9	13453.4	13839.7	12657.5
52.5°	10696.3	10763.4	11703.8	12627.3	13090.7	12902.7	12798.6	12986.6	14105.0	14306.5	12744.8
55°	9352.9	9672.0	11015.3	12587.0	13517.3	13738.9	13658.3	13933.7	14843.8	15045.3	13221.7
56°	8731.6	8899.6	10602.2	12398.9	13601.2	14044.5	14004.2	14128.5	15236.7	15448.3	13295.6
57.5°	7583.1	7596.5	9040.6	11566.1	13285.5	14135.2	14094.9	14192.3	15159.5	15015.1	12647.4
60°	4745.3	4953.5	6152.4	8896.2	11297.4	13114.3	13342.6	12560.1	12781.8	12476.2	9839.9
62.5°	2458.3	2428.1	3224.0	5202.0	7499.1	9389.9	9601.4	9564.5	9222.0	8775.3	6427.8
65°	1225.8	1232.5	1685.9	2575.8	3841.9	4916.6	5507.7	5571.5	4661.4	4288.6	3049.4
67.5°	890.0	923.5	1212.4	1575.1	1810.1	2025.1	2481.8	2434.8	1843.7	1753.0	1625.4
70°	691.8	722.0	984.0	1202.3	1091.5	1091.5	1188.8	1229.1	1313.1	1350.0	1393.7
72.5°	503.7	527.3	752.3	829.5	715.3	769.1	890.0	984.0	1071.3	1084.7	1135.1
75°	345.9	366.1	493.7	456.7	429.9	530.6	651.5	738.8	802.6	836.2	866.4
77.5°	225.0	231.7	282.1	238.4	275.4	342.5	423.1	497.0	560.8	587.7	594.4
80°	100.7	110.8	120.9	151.1	191.4	245.2	302.2	362.7	403.0	413.1	433.2
82.5°	57.1	57.1	73.9	107.5	141.0	178.0	218.3	261.9	309.0	319.0	315.7
85°	30.2	30.2	43.7	63.8	87.3	104.1	100.7	104.1	110.8	127.6	124.3
87.5°	10.1	10.1	13.4	13.4	16.8	20.1	16.8	23.5	30.2	30.2	30.2
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°	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0	6898.0
2.5°	6887.9	6918.1	6877.8	6965.2	6965.2	6948.4	6864.4	6891.3	6911.4	6911.4	6928.2
5°	7018.9	7008.8	7035.7	6931.6	6867.8	6844.3	6706.6	6639.4	6582.3	6579.0	6528.6
7.5°	7092.8	7065.9	7055.8	6978.6	6696.5	6525.2	6229.7	6058.4	6021.5	5890.5	5940.9
10°	7210.3	7260.7	7210.3	6790.5	6397.6	6004.7	5715.9	5450.6	5346.5	5262.5	5212.1
12.5°	7452.1	7428.6	7136.4	6568.9	6018.1	5551.3	5121.4	4842.7	4738.6	4664.7	4658.0
15°	7657.0	7539.4	7092.8	6219.6	5427.1	4930.0	4577.4	4379.3	4332.2	4339.0	4369.2
17.5°	7727.5	7646.9	6864.4	5856.9	4987.1	4402.8	4238.2	4208.0	4251.6	4302.0	4315.4
20°	7838.3	7710.7	6770.4	5363.2	4443.1	4073.6	4063.6	4171.0	4251.6	4325.5	4335.6
22.5°	8070.1	7747.7	6464.8	4896.4	4070.3	3976.3	4073.6	4164.3	4288.6	4349.0	4295.3
25°	8137.2	7667.1	6034.9	4335.6	3835.2	3915.8	4019.9	4144.2	4231.5	4265.1	4288.6
27.5°	8194.3	7542.8	5453.9	3962.8	3761.3	3912.4	4019.9	4124.0	4171.0	4201.3	4228.1
30°	8355.5	7505.9	4950.2	3714.3	3714.3	3845.3	3983.0	4009.8	4073.6	4110.6	4157.6
32.5°	8436.1	7250.6	4433.0	3556.5	3667.3	3878.9	3888.9	3939.3	3942.7	3972.9	3922.5
35°	8647.7	7069.3	3952.7	3442.3	3687.4	3845.3	3895.7	3865.4	3700.9	3620.3	3637.1
37.5°	8802.2	6978.6	3606.8	3428.8	3690.8	3882.2	3909.1	3680.7	3509.4	3375.1	3408.7
40°	9218.6	6753.6	3344.9	3405.3	3721.0	3922.5	3848.6	3600.1	3291.2	3153.5	3130.0
42.5°	9537.6	6592.4	3180.3	3378.5	3744.5	3979.6	3818.4	3438.9	3123.2	2995.6	3029.2
45°	9907.1	6555.4	3093.0	3385.2	3784.8	4009.8	3781.5	3314.7	2978.8	2928.5	2918.4
47.5°	10038.0	6290.1	2999.0	3328.1	3774.8	3999.8	3657.2	3220.6	2925.1	2931.8	2958.7
50°	9819.7	6018.1	2928.5	3210.6	3707.6	3909.1	3462.4	3096.4	2894.9	2978.8	3025.8
52.5°	9541.0	5739.4	2784.1	3052.7	3569.9	3768.0	3371.8	3089.7	2864.6	2837.8	2847.9
55°	9625.0	5511.0	2582.6	2837.8	3348.2	3506.1	3271.0	3025.8	2790.8	2690.0	2723.6
56°	9352.9	5275.9	2451.6	2703.5	3197.1	3338.2	3220.6	2968.8	2730.3	2663.2	2663.2
57.5°	8583.9	4486.7	2280.3	2488.5	2878.1	3046.0	3123.2	2935.2	2663.2	2545.6	2549.0
60°	6330.4	3190.4	2045.2	2193.0	2384.4	2518.7	2878.1	2841.1	2495.2	2414.6	2384.4
62.5°	3902.4	2330.7	1877.3	1934.4	2031.8	2142.6	2512.0	2572.5	2317.2	2229.9	2209.8
65°	2186.3	1783.3	1749.7	1773.2	1820.2	1877.3	2085.5	2219.9	2045.2	1910.9	1904.2
67.5°	1598.6	1595.2	1622.1	1642.2	1662.4	1662.4	1712.7	1766.5	1743.0	1635.5	1625.4
70°	1420.6	1430.6	1450.8	1454.2	1460.9	1437.4	1397.1	1380.3	1407.1	1340.0	1326.5
72.5°	1172.1	1205.6	1229.1	1232.5	1195.6	1165.3	1111.6	1054.5	1034.4	1020.9	1017.6
75°	900.0	923.5	933.6	930.3	916.8	873.2	809.4	752.3	715.3	675.0	695.2
77.5°	607.9	641.4	658.2	658.2	638.1	570.9	540.7	497.0	460.1	416.4	423.1
80°	426.5	450.0	476.9	473.5	439.9	406.4	362.7	322.4	292.2	258.6	255.2
82.5°	319.0	332.5	345.9	339.2	315.7	282.1	251.9	214.9	181.3	157.8	157.8
85°	114.2	124.3	151.1	157.8	171.3	171.3	144.4	120.9	97.4	80.6	80.6
87.5°	33.6	33.6	36.9	36.9	33.6	36.9	30.2	33.6	36.9	23.5	23.5
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)