

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: P531754

Luminaire Tested: **GALN-SA7A-740-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-740-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27157 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

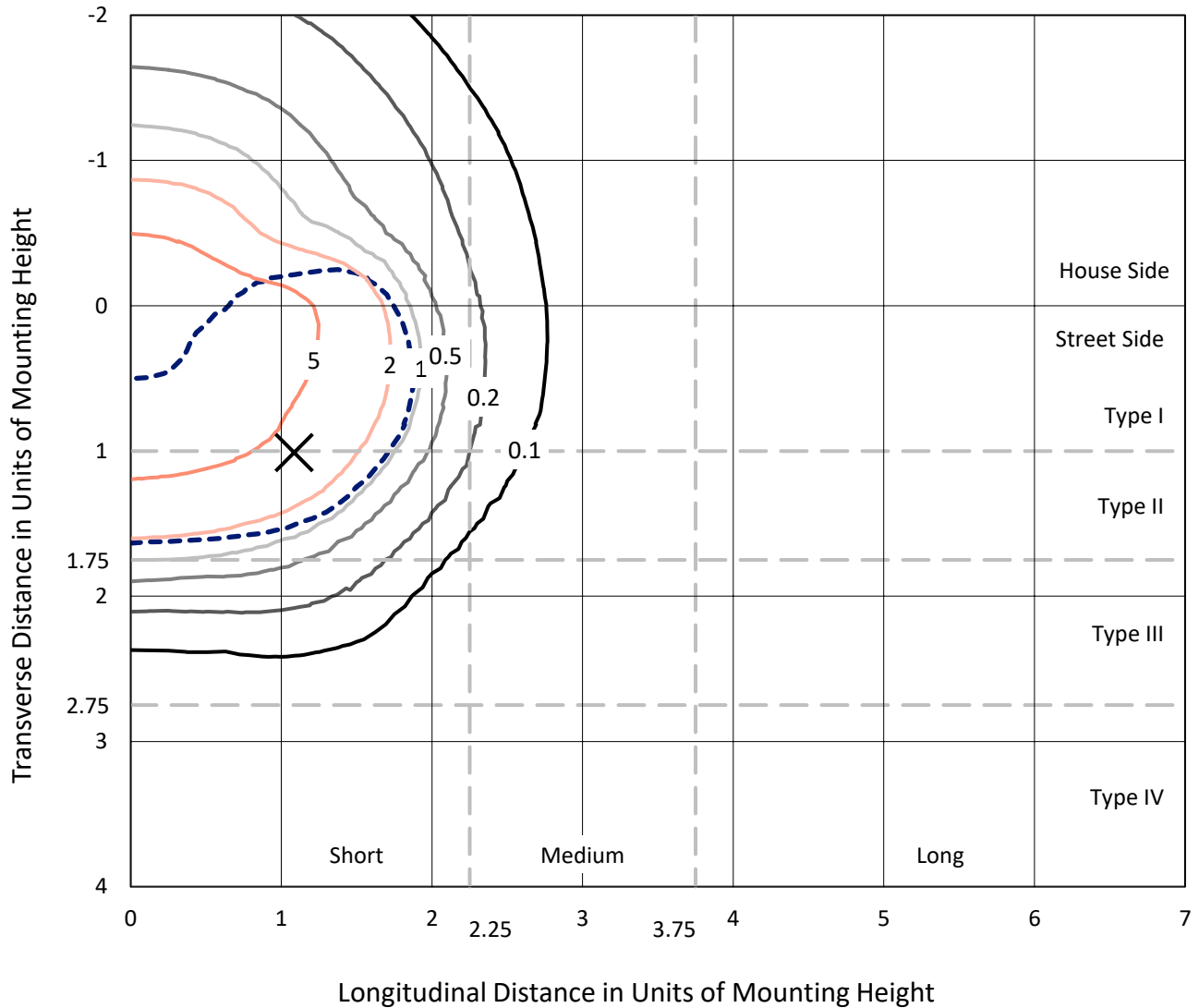
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

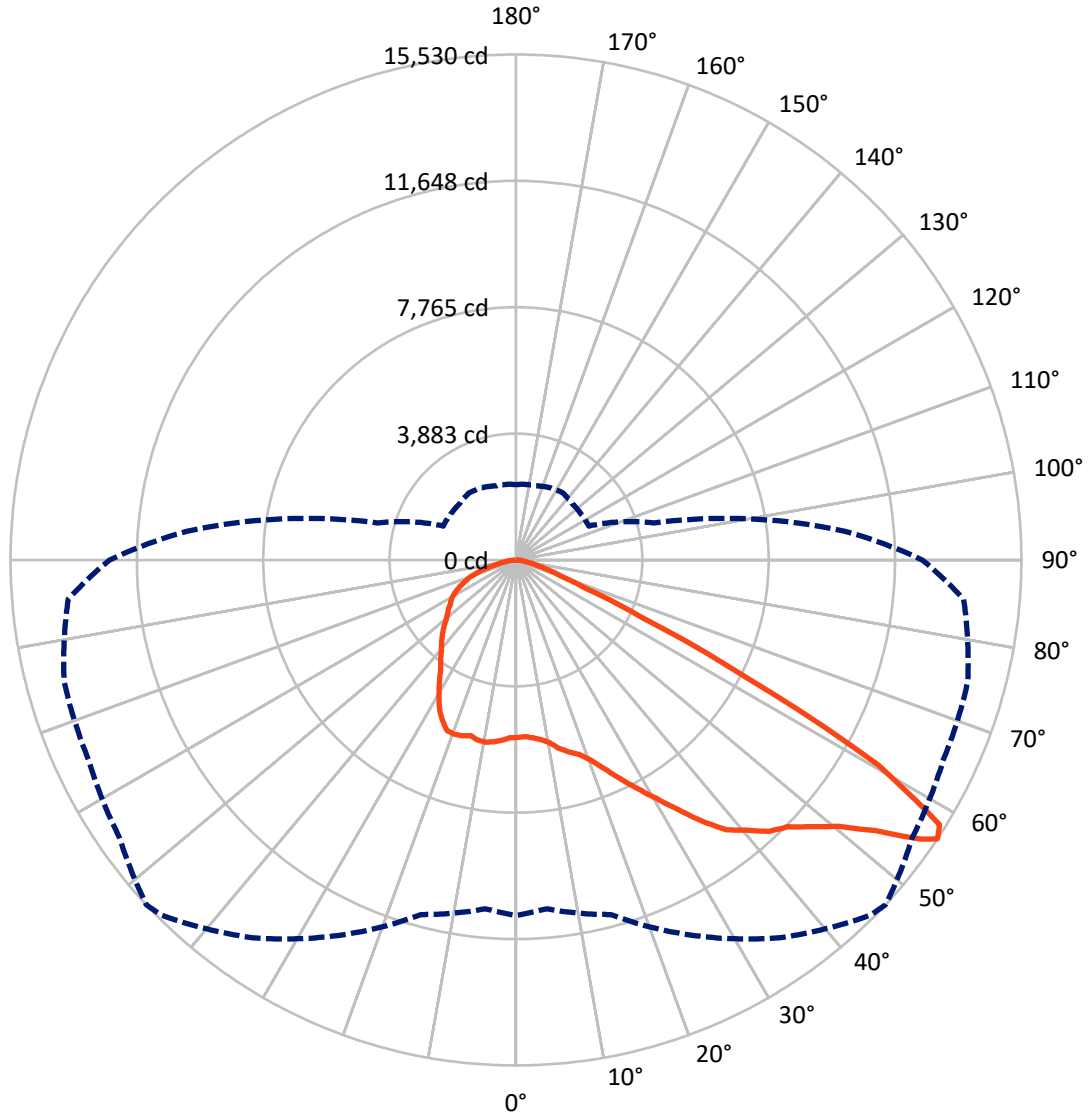
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8605.7	0.0	8605.7
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	18551.3	0.0	18551.3
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	27157.0	0.0	27157.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.5	2.0
10°-20°	1676.7	6.2
20°-30°	2964.0	10.9
30°-40°	4451.8	16.4
40°-50°	6109.6	22.5
50°-60°	7278.8	26.8
60°-70°	3114.9	11.5
70°-80°	881.5	3.2
80°-90°	148.3	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°	27157.0	100.0
0°-180°	27157.0	100.0

**Coefficient of Utilization**



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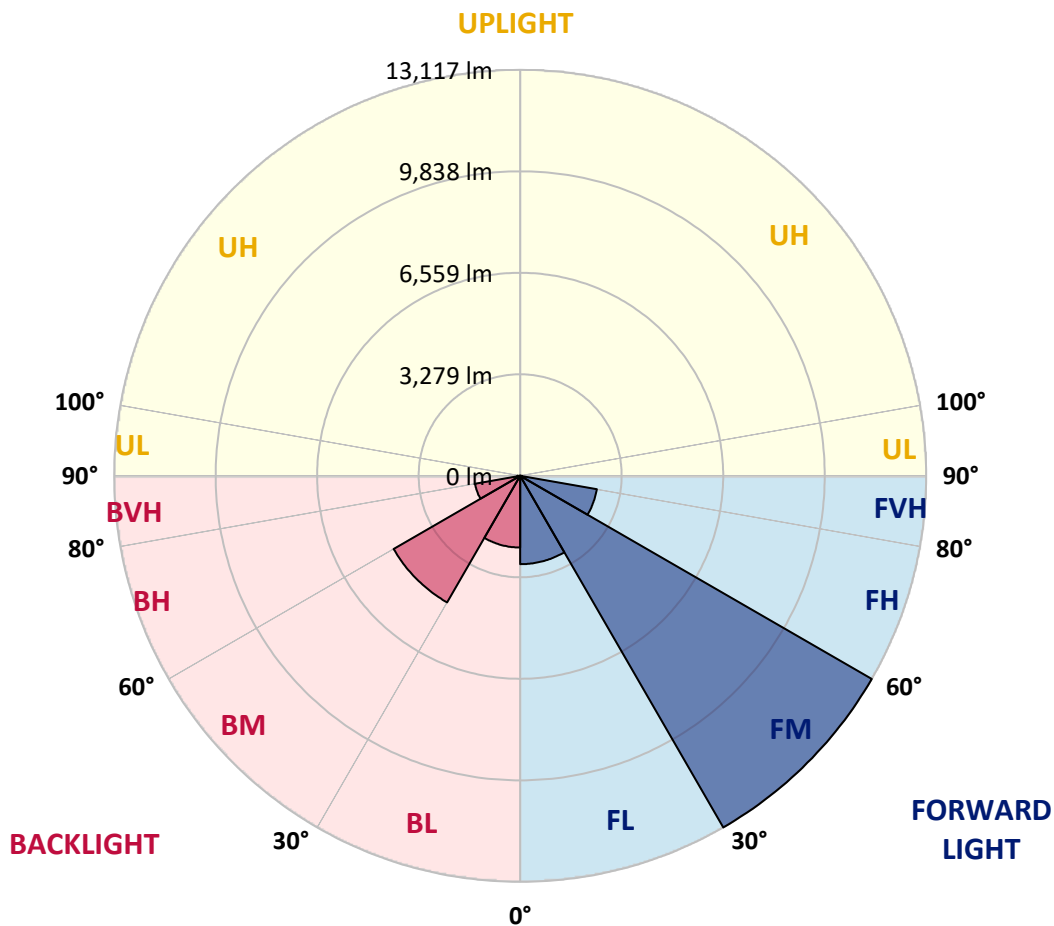
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.1	10.5			
FM (30°-60°)	13117.5	48.3			
FH (60°-80°)	2515.7	9.3			G2/5000
FVH (80°-90°)	63.0	0.2			G1/100
BL (0°-30°)	2317.0	8.5	B3/2500		
BM (30°-60°)	4722.7	17.4	B3/5000		
BH (60°-80°)	1480.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	85.4	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°	47°	55°	65°	75°	85°
0°	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0
2.5°	5434.2	5423.8	5416.9	5472.3	5451.6	5455.0	5434.2	5455.0	5468.9	5437.7	5482.7
5°	5423.8	5455.0	5427.3	5444.6	5489.7	5475.8	5489.7	5531.2	5520.8	5510.4	5496.6
7.5°	5520.8	5524.3	5545.1	5552.0	5565.8	5552.0	5572.8	5610.9	5600.5	5541.6	5548.5
10°	5659.4	5666.3	5669.8	5707.9	5732.1	5735.6	5711.3	5676.7	5673.2	5752.9	5697.5
12.5°	5818.7	5801.4	5842.9	5856.8	5884.5	5915.7	5946.8	5874.1	5919.1	5922.6	5856.8
15°	6050.7	6068.1	6019.6	6019.6	6030.0	6033.4	6120.0	6085.4	6078.4	6040.3	6068.1
17.5°	6397.1	6279.3	6275.9	6227.4	6220.5	6248.2	6279.3	6307.0	6400.6	6324.4	6175.4
20°	6649.9	6677.6	6577.2	6518.3	6528.7	6591.0	6559.9	6684.6	6750.4	6625.7	6480.2
22.5°	7096.7	7003.2	7027.4	6895.8	6906.2	6972.0	6968.6	7096.7	7134.8	6937.4	6726.1
25°	7398.0	7373.8	7394.6	7290.7	7304.5	7356.5	7439.6	7650.9	7588.5	7370.3	6882.0
27.5°	7837.9	7789.4	7772.1	7734.0	7720.1	7858.7	7955.7	8180.8	8135.8	7817.1	7159.1
30°	8288.2	8257.0	8274.3	8118.4	8173.9	8468.3	8496.0	8804.2	8783.4	8222.4	7467.3
32.5°	8599.9	8617.2	8648.4	8561.8	8807.7	9043.2	9136.7	9486.5	9503.9	8918.5	8063.0
35°	9102.1	9043.2	9060.5	9161.0	9275.3	9704.7	9857.1	10089.2	10234.6	9649.3	8634.5
37.5°	9417.3	9479.6	9406.9	9566.2	9864.1	10380.1	10518.7	10757.6	10910.0	10369.7	9413.8
40°	9909.1	9808.6	9860.6	9974.9	10279.7	10951.6	10913.5	11159.4	11207.9	10982.8	10141.1
42.5°	10439.0	10390.5	10317.8	10577.5	10833.8	11322.2	11398.4	11284.1	11530.0	11582.0	11180.2
45°	11072.8	11131.7	11142.1	11149.0	11374.1	11800.2	11696.2	11595.8	11879.8	12257.3	11824.4
47.5°	11661.6	11474.6	11609.7	11796.7	12115.3	12118.8	12240.0	12001.0	12302.4	12638.3	12406.3
50°	11859.0	11769.0	11949.1	12302.4	12794.2	12846.1	12860.0	12520.6	12676.4	12943.1	12607.1
52.5°	11782.8	11751.7	12212.3	12759.5	13480.0	13743.2	13812.4	13393.4	13480.0	13358.7	13050.5
55°	11419.2	11512.7	11976.8	13092.0	14196.9	15010.8	15142.4	14612.5	14061.8	14155.3	13815.9
56°	10920.4	10757.6	11277.2	12714.5	14165.7	15423.0	15530.3	14868.8	14494.8	14373.5	13809.0
57.5°	9264.9	9053.6	9735.9	11439.9	13379.5	15267.1	15346.8	14976.2	14422.0	14176.1	12801.1
60°	5423.8	5527.7	6393.6	7889.9	10321.2	12517.1	12783.8	13053.9	12683.3	11582.0	9528.1
62.5°	2618.4	2552.6	3172.6	4523.3	6289.7	7990.3	7910.6	8669.1	9084.8	8229.3	6016.1
65°	1371.5	1364.6	1731.8	2469.5	3456.6	4197.8	4270.5	4679.2	5250.7	4239.3	3054.8
67.5°	1007.9	1035.6	1219.2	1735.2	2223.6	2268.6	2258.2	2462.6	2518.0	2130.1	1877.2
70°	789.7	803.5	938.6	1319.6	1655.6	1482.4	1451.2	1475.5	1638.2	1707.5	1624.4
72.5°	571.5	585.3	699.6	890.1	1035.6	1011.3	1032.1	1167.2	1368.1	1440.8	1354.2
75°	381.0	391.4	453.7	543.8	613.0	661.5	699.6	855.5	1042.5	1084.1	1042.5
77.5°	263.2	273.6	315.2	384.4	391.4	422.5	436.4	509.1	623.4	675.4	647.7
80°	148.9	148.9	169.7	197.4	242.4	284.0	290.9	349.8	401.8	436.4	443.3
82.5°	69.3	72.7	90.1	121.2	159.3	197.4	204.3	242.4	280.5	315.2	325.6
85°	34.6	38.1	52.0	72.7	97.0	117.8	114.3	117.8	124.7	117.8	121.2
87.5°	10.4	10.4	13.9	17.3	13.9	17.3	17.3	20.8	24.2	27.7	31.2
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°	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0	5455.0
2.5°	5486.2	5496.6	5427.3	5493.1	5468.9	5465.4	5513.9	5507.0	5524.3	5517.4	5475.8
5°	5489.7	5465.4	5538.1	5472.3	5503.5	5569.3	5524.3	5628.2	5576.2	5610.9	5534.7
7.5°	5597.0	5603.9	5590.1	5617.8	5603.9	5635.1	5610.9	5635.1	5593.6	5597.0	5666.3
10°	5690.5	5669.8	5694.0	5659.4	5683.6	5673.2	5617.8	5600.5	5614.3	5597.0	5642.0
12.5°	5863.7	5825.6	5808.3	5766.7	5739.0	5635.1	5548.5	5500.0	5565.8	5576.2	5555.5
15°	6040.3	6043.8	5964.2	5870.6	5697.5	5541.6	5562.4	5579.7	5579.7	5607.4	5555.5
17.5°	6151.2	6151.2	6078.4	5891.4	5714.8	5624.7	5603.9	5548.5	5500.0	5493.1	5489.7
20°	6345.1	6286.3	6120.0	5888.0	5707.9	5666.3	5510.4	5378.8	5278.4	5243.7	5240.3
22.5°	6566.8	6417.9	6185.8	5894.9	5697.5	5638.6	5347.6	5150.2	4970.1	4893.9	4904.3
25°	6771.1	6532.2	6223.9	5863.7	5659.4	5375.4	5049.8	4776.2	4589.1	4526.8	4495.6
27.5°	6913.2	6653.4	6223.9	5891.4	5517.4	5081.0	4748.5	4398.6	4235.9	4194.3	4201.2
30°	7103.6	6805.8	6331.3	5832.5	5233.4	4700.0	4301.7	4073.1	3976.1	3941.5	3965.7
32.5°	7550.4	7204.1	6480.2	5690.5	4897.4	4319.0	3996.9	3868.7	3726.7	3657.5	3633.2
35°	8035.3	7581.6	6625.7	5451.6	4519.9	3972.6	3771.8	3654.0	3484.3	3408.1	3421.9
37.5°	8721.1	8066.5	6636.1	5056.7	4111.2	3778.7	3595.1	3411.5	3273.0	3155.3	3120.6
40°	9645.9	8728.0	6611.8	4641.1	3782.1	3550.1	3415.0	3186.4	3030.6	2947.4	2964.8
42.5°	10459.8	9503.9	6511.4	4170.1	3484.3	3394.2	3241.8	3016.7	2864.3	2777.7	2770.8
45°	11145.6	10075.3	6320.9	3768.3	3234.9	3221.1	3044.4	2871.2	2750.0	2670.4	2705.0
47.5°	11779.4	10536.0	6033.4	3366.5	3006.3	3034.0	2864.3	2756.9	2680.8	2608.0	2604.6
50°	12008.0	10529.0	5780.6	3034.0	2822.8	2808.9	2802.0	2687.7	2608.0	2545.7	2573.4
52.5°	12388.9	10646.8	5507.0	2805.4	2656.5	2660.0	2684.2	2601.1	2511.0	2472.9	2507.6
55°	12936.2	10664.1	4904.3	2538.7	2518.0	2542.2	2542.2	2486.8	2410.6	2379.4	2362.1
56°	12489.4	10148.1	4398.6	2469.5	2448.7	2448.7	2514.5	2452.2	2358.6	2334.4	2313.6
57.5°	11519.6	8890.8	3681.7	2386.4	2355.2	2403.7	2438.3	2372.5	2285.9	2251.3	2272.1
60°	7945.3	6016.1	2767.3	2206.3	2206.3	2285.9	2313.6	2216.6	2178.5	2175.1	2147.4
62.5°	4637.6	3505.1	2164.7	2043.5	2050.4	2116.2	2137.0	2081.6	2033.1	2092.0	2119.7
65°	2459.1	2092.0	1856.4	1870.3	1873.8	1925.7	2015.8	2012.3	2008.8	2026.1	2029.6
67.5°	1780.2	1738.7	1686.7	1672.9	1679.8	1717.9	1807.9	1877.2	1873.8	1832.2	1801.0
70°	1586.3	1527.4	1496.2	1499.7	1472.0	1517.0	1589.7	1634.8	1555.1	1506.6	1485.8
72.5°	1319.6	1302.3	1281.5	1285.0	1229.5	1219.2	1136.0	1136.0	1115.2	1101.4	1125.6
75°	1007.9	1001.0	1011.3	994.0	935.1	872.8	824.3	779.3	710.0	682.3	668.5
77.5°	637.3	658.1	682.3	644.2	620.0	574.9	526.5	481.4	426.0	394.8	394.8
80°	432.9	450.3	467.6	460.6	432.9	391.4	353.3	304.8	266.7	242.4	239.0
82.5°	329.0	342.9	367.1	339.4	311.7	277.1	245.9	211.3	176.6	148.9	148.9
85°	117.8	135.1	148.9	162.8	173.2	176.6	152.4	124.7	100.4	79.7	76.2
87.5°	31.2	34.6	38.1	34.6	34.6	34.6	38.1	34.6	31.2	24.2	24.2
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)