

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: P652522

Luminaire Tested: **GALN-SA7B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652522  
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-SA7B-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA 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: 28418.2 lumens  
Efficiency: N/A  
Efficacy: 99.4 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

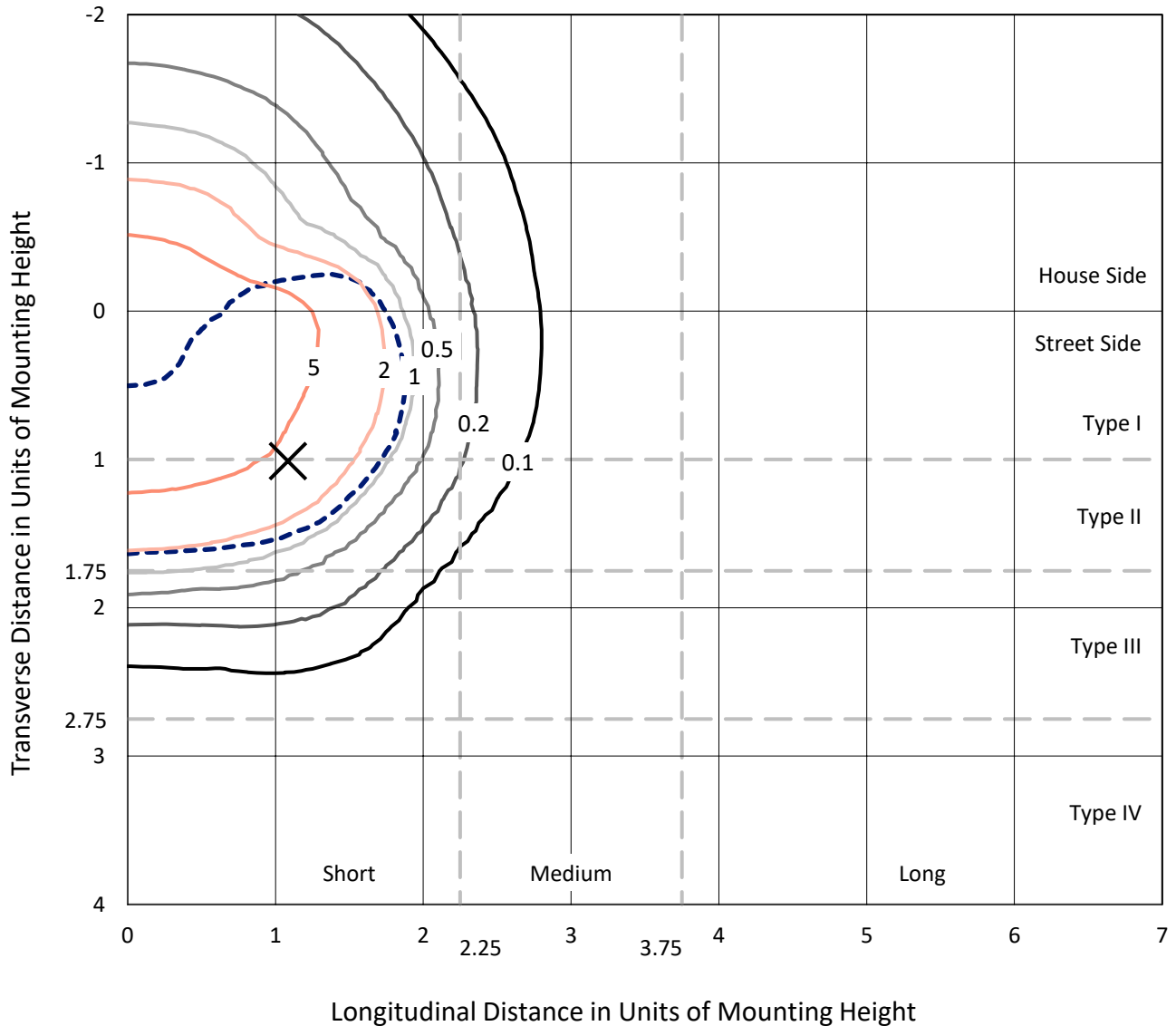
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

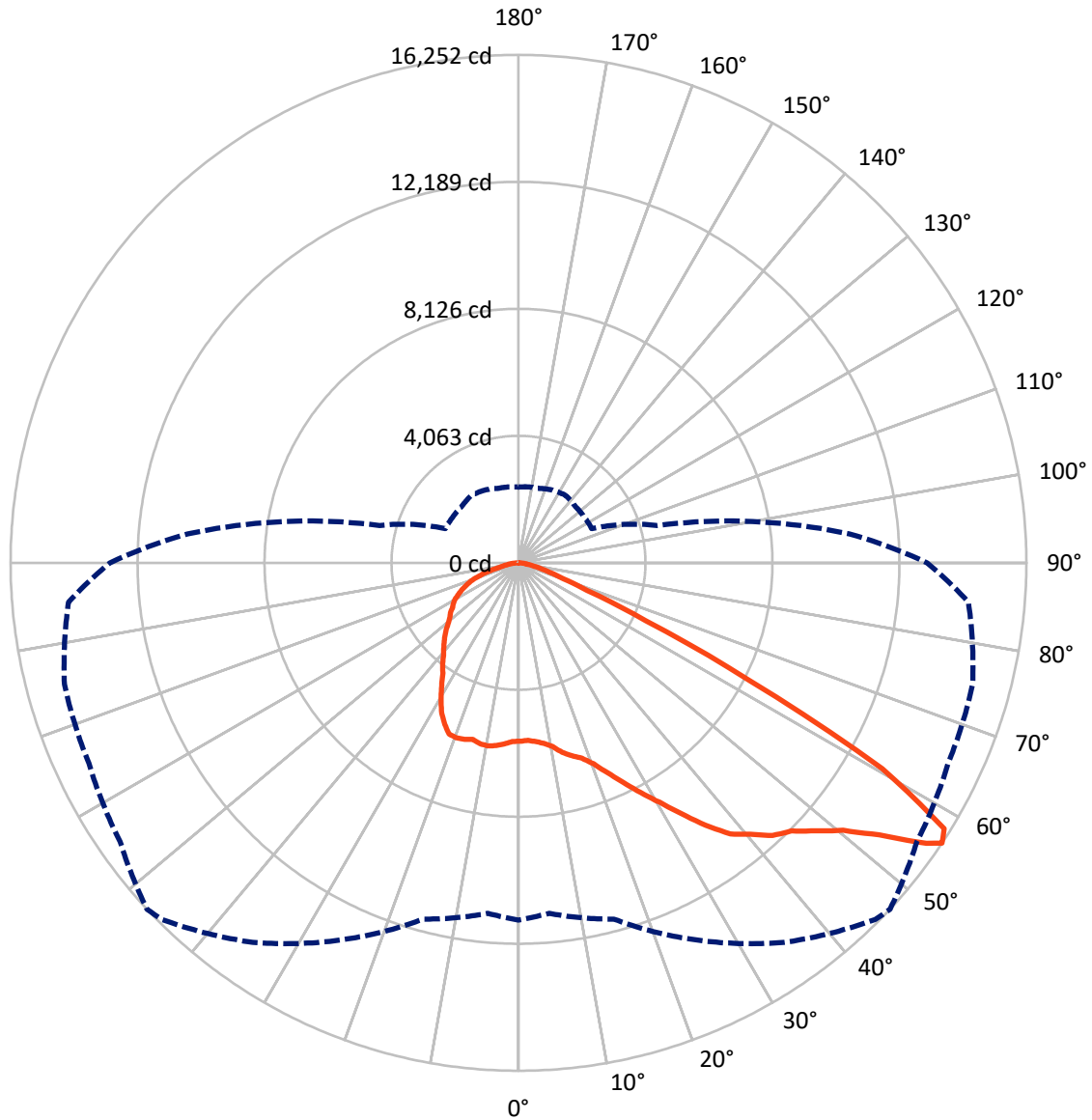
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	9005.4	0.0	9005.4
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	19412.8	0.0	19412.8
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	28418.2	0.0	28418.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.2	2.0
10°-20°	1754.5	6.2
20°-30°	3101.6	10.9
30°-40°	4658.5	16.4
40°-50°	6393.3	22.5
50°-60°	7616.8	26.8
60°-70°	3259.5	11.5
70°-80°	922.4	3.2
80°-90°	155.2	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°	28418.2	100.0
0°-180°	28418.2	100.0

**Coefficient of Utilization**

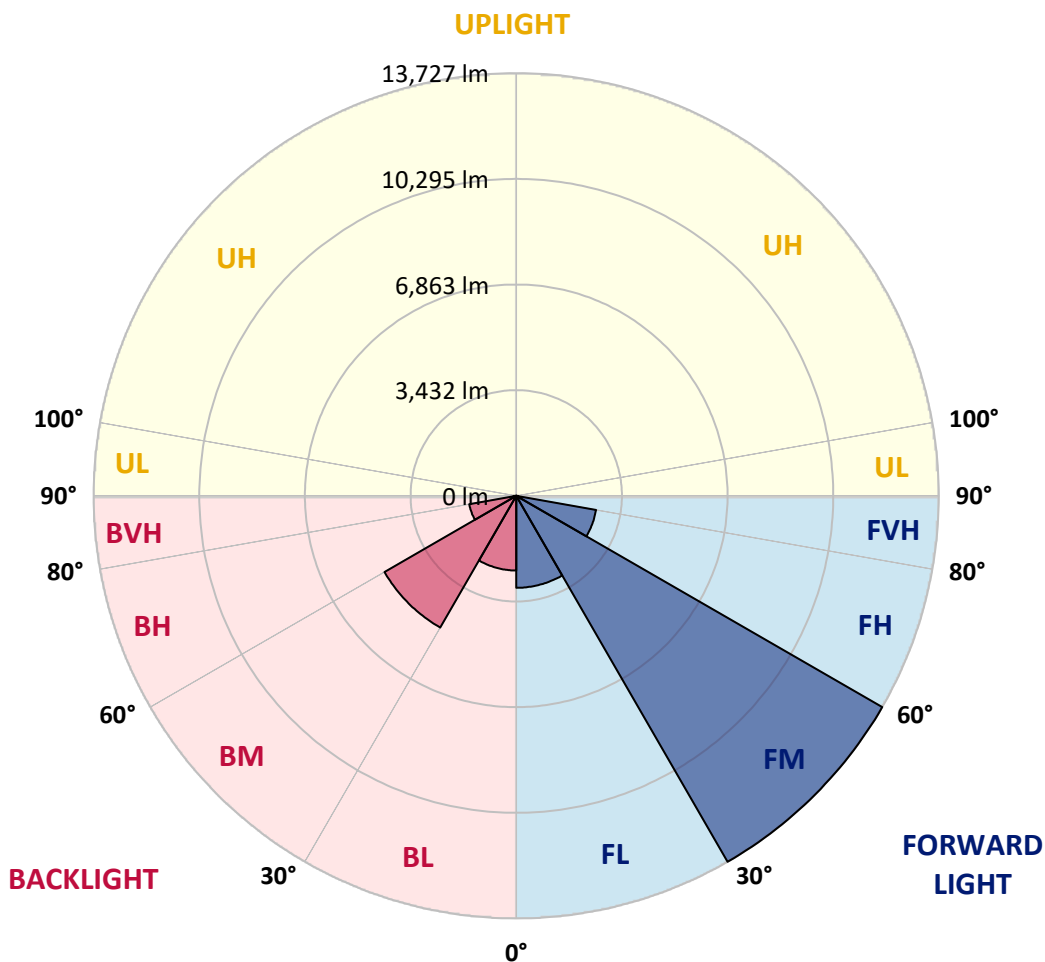


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2987.7	10.5			
FM (30°-60°)	13726.7	48.3			
FH (60°-80°)	2632.6	9.3			G2/5000
FVH (80°-90°)	65.9	0.2			G1/100
BL (0°-30°)	2424.6	8.5	B3/2500		
BM (30°-60°)	4942.0	17.4	B3/5000		
BH (60°-80°)	1549.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	89.3	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°	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4
2.5°	5686.6	5675.7	5668.5	5726.5	5704.8	5708.4	5686.6	5708.4	5722.8	5690.2	5737.4
5°	5675.7	5708.4	5679.4	5697.5	5744.6	5730.1	5744.6	5788.1	5777.2	5766.3	5751.9
7.5°	5777.2	5780.9	5802.6	5809.9	5824.3	5809.9	5831.6	5871.4	5860.6	5798.9	5806.2
10°	5922.2	5929.5	5933.1	5973.0	5998.3	6002.0	5976.6	5940.3	5936.7	6020.0	5962.1
12.5°	6088.9	6070.8	6114.3	6128.8	6157.8	6190.4	6223.0	6146.9	6194.0	6197.7	6128.8
15°	6331.7	6349.9	6299.1	6299.1	6310.0	6313.6	6404.2	6368.0	6360.7	6320.9	6349.9
17.5°	6694.2	6571.0	6567.4	6516.6	6509.3	6538.4	6571.0	6599.9	6697.8	6618.1	6462.2
20°	6958.8	6987.8	6882.7	6821.0	6831.9	6897.1	6864.5	6995.0	7063.9	6933.4	6781.2
22.5°	7426.3	7328.5	7353.8	7216.1	7227.0	7295.8	7292.2	7426.3	7466.1	7259.6	7038.5
25°	7741.7	7716.3	7738.0	7629.3	7643.8	7698.1	7785.1	8006.2	7941.0	7712.6	7201.6
27.5°	8201.9	8151.1	8133.1	8093.2	8078.6	8223.6	8325.1	8560.7	8513.6	8180.2	7491.5
30°	8673.1	8640.4	8658.6	8495.5	8553.5	8861.5	8890.5	9213.1	9191.4	8604.2	7814.2
32.5°	8999.3	9017.4	9050.0	8959.4	9216.8	9463.2	9561.1	9927.1	9945.2	9332.7	8437.5
35°	9524.8	9463.2	9481.3	9586.4	9706.0	10155.4	10314.9	10557.7	10710.0	10097.5	9035.5
37.5°	9854.6	9919.8	9843.7	10010.5	10322.2	10862.2	11007.2	11257.2	11416.7	10851.3	9851.0
40°	10369.3	10264.2	10318.6	10438.2	10757.1	11460.2	11420.4	11677.7	11728.4	11492.9	10612.1
42.5°	10923.8	10873.0	10796.9	11068.8	11337.0	11848.0	11927.7	11808.1	12065.5	12119.8	11699.4
45°	11587.0	11648.7	11659.5	11666.8	11902.4	12348.2	12239.4	12134.4	12431.6	12826.6	12373.5
47.5°	12203.2	12007.5	12148.8	12344.5	12678.0	12681.6	12808.4	12558.4	12873.7	13225.2	12982.4
50°	12409.8	12315.5	12504.0	12873.7	13388.4	13442.7	13457.3	13102.0	13265.2	13544.2	13192.7
52.5°	12330.1	12297.4	12779.5	13352.1	14106.0	14381.4	14453.9	14015.3	14106.0	13979.1	13656.6
55°	11949.5	12047.3	12533.0	13700.1	14856.3	15707.9	15845.7	15291.1	14714.9	14812.7	14457.5
56°	11427.6	11257.2	11800.9	13305.0	14823.6	16139.3	16251.6	15559.3	15167.9	15041.0	14450.3
57.5°	9695.1	9474.0	10188.0	11971.2	14000.9	15976.1	16059.5	15671.7	15091.8	14834.5	13395.6
60°	5675.7	5784.5	6690.6	8256.3	10800.5	13098.4	13377.5	13660.2	13272.4	12119.8	9970.6
62.5°	2740.0	2671.2	3319.9	4733.4	6581.8	8361.4	8278.0	9071.8	9506.7	8611.5	6295.5
65°	1435.3	1428.0	1812.2	2584.1	3617.1	4392.7	4468.8	4896.5	5494.5	4436.2	3196.6
67.5°	1054.7	1083.7	1275.8	1815.8	2326.8	2374.0	2363.0	2576.9	2634.9	2229.0	1964.4
70°	826.4	840.8	982.2	1380.8	1732.5	1551.2	1518.6	1544.0	1714.3	1786.8	1699.8
72.5°	598.0	612.5	732.1	931.5	1083.7	1058.3	1080.1	1221.4	1431.6	1507.7	1417.1
75°	398.7	409.6	474.8	569.0	641.5	692.2	732.1	895.2	1090.9	1134.4	1090.9
77.5°	275.4	286.4	329.8	402.3	409.6	442.2	456.7	532.8	652.4	706.8	677.8
80°	155.8	155.8	177.6	206.5	253.7	297.2	304.4	366.1	420.4	456.7	463.9
82.5°	72.5	76.1	94.2	126.8	166.7	206.5	213.9	253.7	293.6	329.8	340.7
85°	36.2	39.9	54.3	76.1	101.5	123.2	119.6	123.2	130.4	123.2	126.8
87.5°	10.8	10.8	14.5	18.1	14.5	18.1	18.1	21.8	25.4	29.0	32.6
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°	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4	5708.4
2.5°	5741.0	5751.9	5679.4	5748.2	5722.8	5719.2	5769.9	5762.7	5780.9	5773.6	5730.1
5°	5744.6	5719.2	5795.3	5726.5	5759.1	5828.0	5780.9	5889.6	5835.2	5871.4	5791.7
7.5°	5857.0	5864.2	5849.7	5878.7	5864.2	5896.8	5871.4	5896.8	5853.4	5857.0	5929.5
10°	5954.8	5933.1	5958.4	5922.2	5947.6	5936.7	5878.7	5860.6	5875.1	5857.0	5904.1
12.5°	6136.0	6096.2	6078.1	6034.5	6005.6	5896.8	5806.2	5755.5	5824.3	5835.2	5813.5
15°	6320.9	6324.5	6241.1	6143.3	5962.1	5798.9	5820.7	5838.8	5838.8	5867.8	5813.5
17.5°	6436.8	6436.8	6360.7	6165.0	5980.2	5886.0	5864.2	5806.2	5755.5	5748.2	5744.6
20°	6639.8	6578.2	6404.2	6161.4	5973.0	5929.5	5766.3	5628.6	5523.5	5487.3	5483.7
22.5°	6871.8	6715.9	6473.1	6168.7	5962.1	5900.5	5596.0	5389.4	5200.9	5121.2	5132.1
25°	7085.6	6835.6	6513.0	6136.0	5922.2	5625.0	5284.3	4998.0	4802.3	4737.0	4704.4
27.5°	7234.2	6962.4	6513.0	6165.0	5773.6	5317.0	4969.0	4603.0	4432.6	4389.1	4396.3
30°	7433.5	7121.8	6625.3	6103.4	5476.4	4918.3	4501.5	4262.3	4160.8	4124.5	4149.9
32.5°	7901.1	7538.6	6781.2	5954.8	5124.8	4519.5	4182.5	4048.4	3899.8	3827.3	3801.9
35°	8408.5	7933.7	6933.4	5704.8	4729.8	4157.1	3946.9	3823.7	3646.1	3566.3	3580.9
37.5°	9126.1	8441.1	6944.3	5291.6	4302.1	3954.1	3762.0	3570.0	3425.1	3301.8	3265.5
40°	10093.9	9133.3	6918.9	4856.6	3957.8	3714.9	3573.6	3334.4	3171.3	3084.4	3102.4
42.5°	10945.5	9945.2	6813.8	4363.7	3646.1	3551.9	3392.4	3156.8	2997.3	2906.7	2899.5
45°	11663.2	10543.3	6614.5	3943.3	3385.1	3370.6	3185.8	3004.6	2877.7	2794.4	2830.6
47.5°	12326.5	11025.3	6313.6	3522.9	3145.9	3174.9	2997.3	2885.0	2805.2	2729.1	2725.5
50°	12565.6	11018.0	6049.1	3174.9	2953.8	2939.4	2932.1	2812.5	2729.1	2663.9	2692.9
52.5°	12964.4	11141.2	5762.7	2935.8	2779.8	2783.5	2808.9	2721.9	2627.6	2587.8	2624.0
55°	13537.0	11159.4	5132.1	2656.6	2634.9	2660.3	2660.3	2602.3	2522.6	2489.9	2471.8
56°	13069.4	10619.4	4603.0	2584.1	2562.4	2562.4	2631.3	2566.1	2468.2	2442.9	2421.1
57.5°	12054.6	9303.7	3852.7	2497.2	2464.6	2515.3	2551.5	2482.7	2392.1	2355.8	2377.6
60°	8314.3	6295.5	2895.9	2308.7	2308.7	2392.1	2421.1	2319.6	2279.7	2276.1	2247.1
62.5°	4853.0	3667.9	2265.2	2138.4	2145.6	2214.5	2236.2	2178.3	2127.5	2189.1	2218.1
65°	2573.3	2189.1	1942.6	1957.2	1960.8	2015.1	2109.4	2105.8	2102.2	2120.2	2123.9
67.5°	1862.9	1819.4	1765.1	1750.5	1757.8	1797.7	1891.9	1964.4	1960.8	1917.3	1884.7
70°	1660.0	1598.3	1565.7	1569.3	1540.4	1587.5	1663.6	1710.7	1627.3	1576.6	1554.8
72.5°	1380.8	1362.8	1341.0	1344.7	1286.6	1275.8	1188.8	1188.8	1167.1	1152.5	1177.9
75°	1054.7	1047.5	1058.3	1040.1	978.6	913.3	862.6	815.5	743.0	714.0	699.5
77.5°	666.9	688.6	714.0	674.1	648.7	601.7	550.9	503.8	445.8	413.2	413.2
80°	453.0	471.1	489.3	482.1	453.0	409.6	369.7	318.9	279.0	253.7	250.1
82.5°	344.3	358.8	384.2	355.2	326.2	290.0	257.3	221.1	184.9	155.8	155.8
85°	123.2	141.4	155.8	170.4	181.2	184.9	159.5	130.4	105.1	83.3	79.7
87.5°	32.6	36.2	39.9	36.2	36.2	36.2	39.9	36.2	32.6	25.4	25.4
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)