

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: P647439

Luminaire Tested: **GALN-SA5D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25662 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

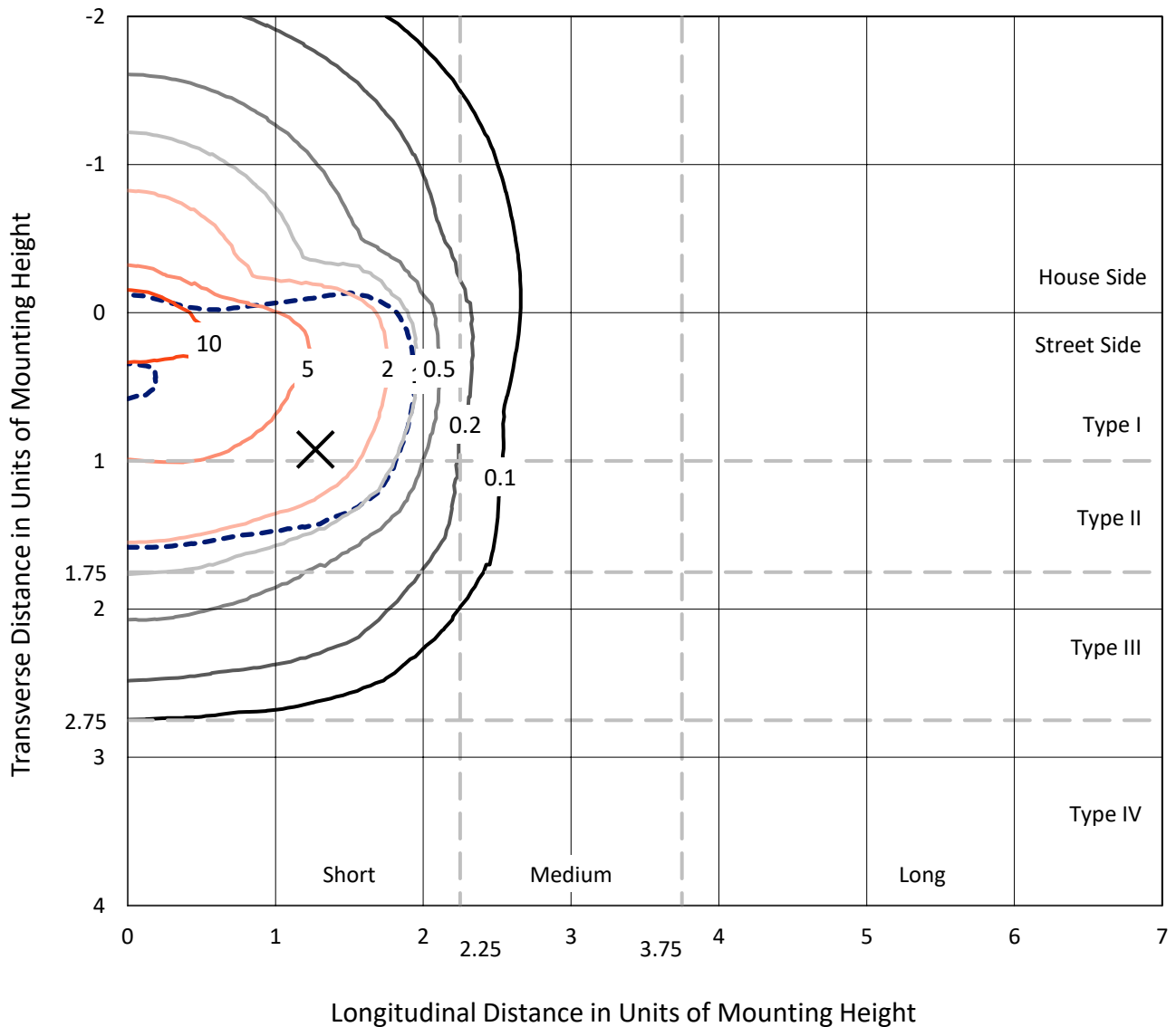
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647439  
 CATALOG NUMBER: GALN-SA5D-835-U-SL3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

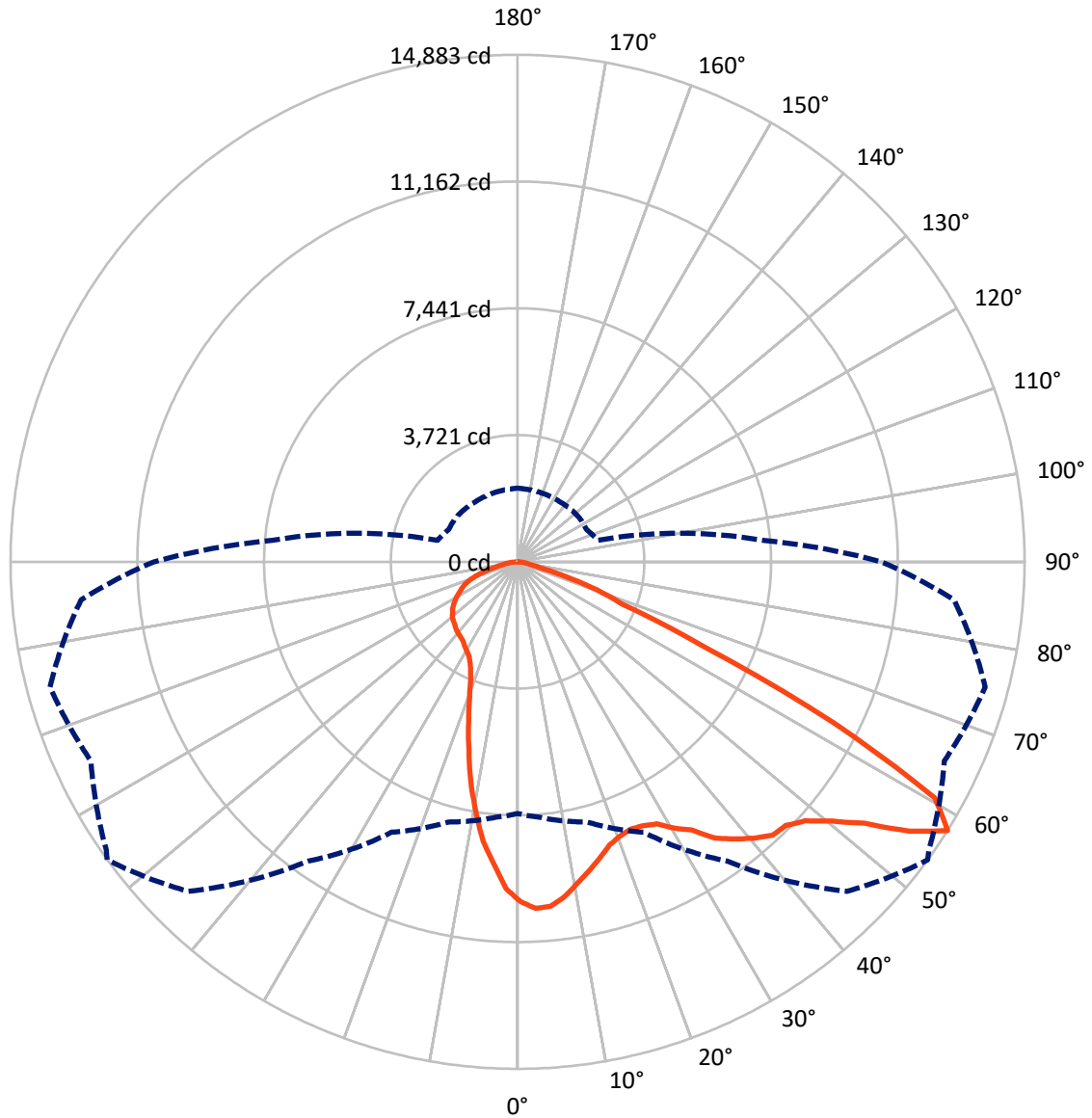
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type II - Short - N/A

REPORT NUMBER: P647439  
CATALOG NUMBER: GALN-SA5D-835-U-SL3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P647439  
 CATALOG NUMBER: GALN-SA5D-835-U-SL3-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7099.6	0.0	7099.6
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	18562.5	0.0	18562.5
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	25662.0	0.0	25662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	860.2	3.4
10°-20°	1991.7	7.8
20°-30°	2798.4	10.9
30°-40°	3912.1	15.2
40°-50°	5296.3	20.6
50°-60°	6451.1	25.1
60°-70°	3360.0	13.1
70°-80°	861.0	3.4
80°-90°	131.3	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°	25662.0	100.0
0°-180°	25662.0	100.0

**Coefficient of Utilization**



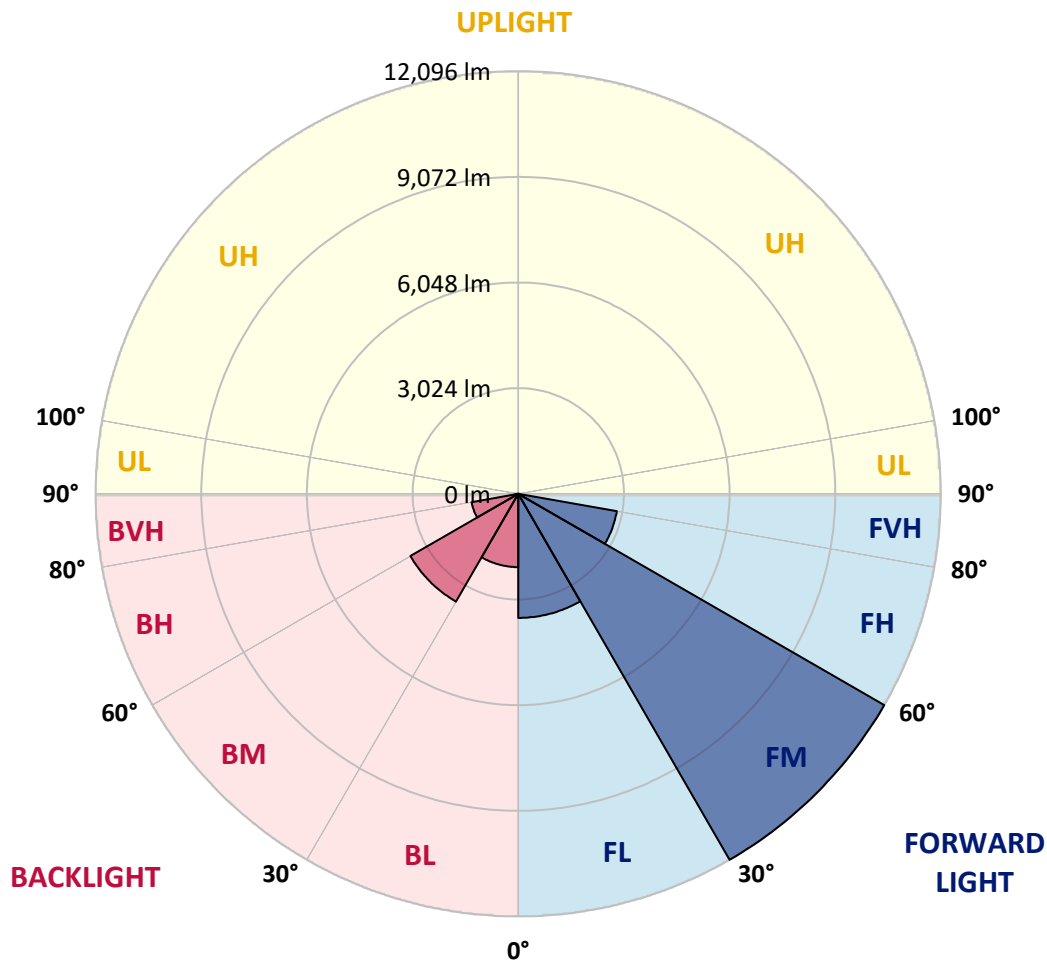
REPORT NUMBER: P647439  
 CATALOG NUMBER: GALN-SA5D-835-U-SL3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3552.0	13.8			
FM (30°-60°)	12096.3	47.1			
FH (60°-80°)	2864.6	11.2			G2/5000
FVH (80°-90°)	49.6	0.2			G1/100
BL (0°-30°)	2098.3	8.2	B3/2500		
BM (30°-60°)	3563.2	13.9	B3/5000		
BH (60°-80°)	1356.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	81.7	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





REPORT NUMBER: P647439

CATALOG NUMBER: GALN-SA5D-835-U-SL3-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6
2.5°	10258.2	10218.6	10225.2	10278.0	10212.0	10185.7	10185.7	10057.0	10066.9	9977.8	9954.7
5°	10020.8	9928.4	9991.0	10070.2	10083.4	10109.8	10152.7	10119.6	10027.3	9931.7	9776.6
7.5°	9400.6	9483.1	9506.2	9562.2	9681.0	9789.8	9925.1	9832.7	9829.4	9733.8	9641.4
10°	8856.4	8806.9	8932.2	9014.7	9212.6	9394.0	9601.9	9591.9	9641.4	9532.6	9374.2
12.5°	8315.4	8275.8	8335.2	8523.2	8800.3	9064.2	9311.5	9219.2	9483.1	9463.3	9123.5
15°	7741.5	7771.2	7856.9	8031.8	8394.5	8711.3	9024.6	9027.9	9262.1	9341.3	8886.0
17.5°	7339.1	7306.1	7414.9	7675.5	7998.7	8378.1	8734.3	8806.9	9166.4	9212.6	8813.4
20°	7038.9	7085.1	7226.9	7358.9	7731.6	8190.1	8592.5	8618.9	9146.6	9272.0	8698.0
22.5°	6966.4	6940.0	6986.2	7200.5	7507.3	8005.4	8516.6	8615.6	9143.3	9252.2	8480.4
25°	6890.5	6976.2	6972.9	7187.3	7411.6	7856.9	8579.3	8688.2	9318.2	9354.4	8510.0
27.5°	7062.0	7052.1	7144.5	7160.9	7438.0	7896.5	8711.3	8793.7	9608.4	9578.8	8533.1
30°	7233.5	7184.0	7240.1	7434.7	7563.4	8124.1	9074.0	9067.5	9984.4	9964.6	8605.7
32.5°	7444.6	7421.5	7457.8	7629.3	7847.1	8427.6	9380.8	9575.5	10367.1	10492.4	8856.4
35°	7484.2	7579.8	7665.6	7896.5	8206.5	8919.0	9958.0	10119.6	10809.1	11201.6	9334.6
37.5°	7734.9	7771.2	7972.3	8381.4	8665.1	9575.5	10324.2	10426.4	11211.5	11656.8	9839.3
40°	8002.0	8044.9	8348.4	8777.2	9166.4	10004.2	10667.2	10700.2	11340.1	12006.4	10169.1
42.5°	8364.9	8404.5	8704.6	9242.3	9763.5	10370.4	10970.7	11006.9	11330.2	12408.8	10693.6
45°	8740.9	8836.5	9189.5	9799.7	10268.1	10799.1	11039.9	11188.4	11422.6	12768.3	11119.1
47.5°	9268.7	9357.7	9648.0	10245.0	10792.6	11175.2	11359.9	11505.0	11643.5	13081.7	11392.9
50°	9829.4	9845.9	10198.8	10739.8	11142.2	11600.7	11956.9	12006.4	11933.9	13444.5	11858.0
52.5°	10241.7	10294.5	10568.2	11096.0	11696.4	12260.4	12748.6	12801.3	12659.5	13579.7	12016.3
55°	9558.9	9529.3	9974.6	10677.1	12069.1	13243.3	13952.5	13992.1	13187.2	13998.6	12534.1
57.5°	7388.5	7530.3	7909.7	8757.4	10723.3	13678.7	14882.6	14740.8	13820.6	14209.7	12864.0
60°	5369.9	5336.9	5590.9	6158.2	8081.3	11788.7	14071.2	14216.4	13302.7	12807.9	10607.8
62.5°	4373.8	4327.6	4347.4	4367.2	5214.9	7824.0	10416.6	10413.3	10245.0	9206.0	7154.3
65°	3496.3	3605.2	3615.1	3763.6	3872.4	4673.9	6036.1	6359.4	5538.1	4541.9	3295.2
67.5°	2635.5	2595.9	2727.8	3255.6	3460.1	3374.3	3295.2	3331.4	2368.3	1708.6	1609.6
70°	1553.6	1537.1	1695.4	2269.4	2849.9	2681.6	2483.8	2487.0	1626.1	1194.1	1329.3
72.5°	851.0	847.7	880.7	1151.2	1619.6	1682.2	1490.9	1537.1	969.7	966.5	1039.0
75°	475.0	465.1	455.2	507.9	583.8	616.8	630.0	636.6	666.3	745.4	775.2
77.5°	174.8	168.2	168.2	194.6	247.3	310.1	392.5	399.1	471.7	541.0	570.7
80°	59.4	66.0	89.0	122.1	164.9	221.0	267.2	273.7	333.2	379.3	389.2
82.5°	36.3	39.6	59.4	85.7	118.8	155.0	197.9	201.2	247.3	277.1	290.3
85°	16.5	19.8	33.0	52.8	75.9	102.3	105.5	105.5	102.3	105.5	99.0
87.5°	0.0	0.0	6.6	6.6	6.6	9.9	13.2	9.9	16.5	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647439

CATALOG NUMBER: GALN-SA5D-835-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6	9974.6
2.5°	9885.5	9849.2	9737.1	9638.1	9608.4	9476.5	9281.8	9304.9	9163.1	9229.1	9159.8
5°	9750.2	9628.2	9341.3	9219.2	8899.3	8754.1	8655.1	8407.8	8292.4	8269.3	8170.3
7.5°	9403.9	9328.0	8968.5	8638.7	8298.9	8008.7	7636.0	7382.0	7200.5	7151.1	7005.9
10°	9130.2	8961.9	8463.8	7962.5	7477.6	6972.9	6488.1	6108.7	5924.0	5709.6	5637.1
12.5°	8859.6	8605.7	7932.8	7289.6	6662.9	6026.3	5439.2	4977.4	4575.0	4479.3	4446.3
15°	8691.5	8249.5	7457.8	6682.7	5792.1	4960.9	4373.8	4070.3	3822.9	3720.7	3793.2
17.5°	8470.4	7955.9	7002.6	5970.2	4990.6	4225.3	3733.9	3545.8	3456.8	3466.7	3437.0
20°	8193.4	7678.8	6405.6	5323.7	4274.8	3664.6	3384.2	3315.0	3328.1	3351.2	3341.4
22.5°	7995.4	7342.3	5973.5	4664.0	3694.3	3354.5	3239.1	3189.6	3232.5	3252.3	3235.8
25°	7843.7	7055.4	5449.1	4080.2	3357.8	3179.7	3126.9	3123.6	3189.6	3216.0	3199.5
27.5°	7705.2	6788.2	4927.9	3634.9	3133.6	3044.5	3028.0	3067.6	3110.5	3136.9	3160.0
30°	7622.7	6583.7	4439.7	3262.2	3021.4	2978.5	2948.9	2985.1	3008.2	3034.6	3021.4
32.5°	7701.9	6438.6	3968.0	3051.0	2929.0	2886.1	2925.8	2902.7	2942.2	2965.3	2929.0
35°	7949.3	6310.0	3631.6	2938.9	2823.5	2839.9	2846.6	2836.7	2853.2	2833.4	2876.3
37.5°	8193.4	6263.8	3321.6	2843.3	2774.0	2774.0	2767.4	2747.6	2780.6	2774.0	2793.8
40°	8503.5	6293.4	3057.7	2741.0	2727.8	2721.2	2694.9	2691.6	2678.3	2681.6	2688.3
42.5°	8773.9	6359.4	2905.9	2675.0	2684.9	2698.1	2648.7	2609.1	2625.6	2592.6	2592.6
45°	9060.9	6418.8	2770.7	2628.8	2619.0	2615.7	2576.1	2553.0	2539.8	2543.1	2572.8
47.5°	9512.7	6504.5	2668.5	2566.2	2572.8	2523.3	2513.4	2483.8	2496.9	2516.7	2520.0
50°	9832.7	6686.0	2589.3	2493.6	2516.7	2483.8	2424.4	2411.2	2411.2	2444.1	2437.6
52.5°	10057.0	6940.0	2513.4	2414.5	2424.4	2398.0	2378.2	2348.5	2328.7	2374.9	2398.0
55°	10743.1	7362.2	2493.6	2348.5	2345.2	2318.9	2282.5	2252.8	2243.0	2249.6	2295.8
57.5°	10677.1	7230.2	2431.0	2233.0	2226.5	2190.2	2153.9	2144.0	2140.7	2147.3	2160.5
60°	8668.4	5340.2	2170.4	2101.1	2091.2	2084.7	2048.3	2008.8	1989.0	2008.8	1992.3
62.5°	5736.0	3575.5	1913.1	1942.8	1949.4	1932.9	1873.6	1833.9	1840.5	1863.6	1827.4
65°	2816.9	2101.1	1735.0	1814.1	1820.8	1774.6	1718.5	1672.3	1649.2	1669.0	1652.5
67.5°	1609.6	1606.3	1589.9	1672.3	1669.0	1622.8	1533.8	1494.2	1454.7	1461.2	1451.3
70°	1365.6	1391.9	1424.9	1474.4	1471.1	1418.3	1312.8	1283.1	1227.0	1220.5	1203.9
72.5°	1075.3	1121.5	1194.1	1230.3	1200.7	1134.6	1065.4	1015.9	966.5	936.8	946.6
75°	798.2	864.2	903.8	926.8	880.7	844.4	788.3	729.0	669.6	643.2	633.3
77.5°	580.5	600.3	636.6	653.1	623.4	587.1	554.1	494.8	438.7	402.4	392.5
80°	405.7	418.9	445.3	445.3	445.3	428.8	385.9	326.5	290.3	257.3	250.7
82.5°	283.7	296.8	323.2	310.1	306.8	287.0	260.6	214.4	174.8	151.7	145.2
85°	99.0	108.8	131.9	158.3	168.2	164.9	148.5	118.8	92.4	75.9	69.3
87.5°	23.1	23.1	26.4	23.1	23.1	26.4	23.1	23.1	23.1	16.5	13.2
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)