

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: P531494

Luminaire Tested: **GALN-SA6D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531494  
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-SA6D-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA 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: 36434 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

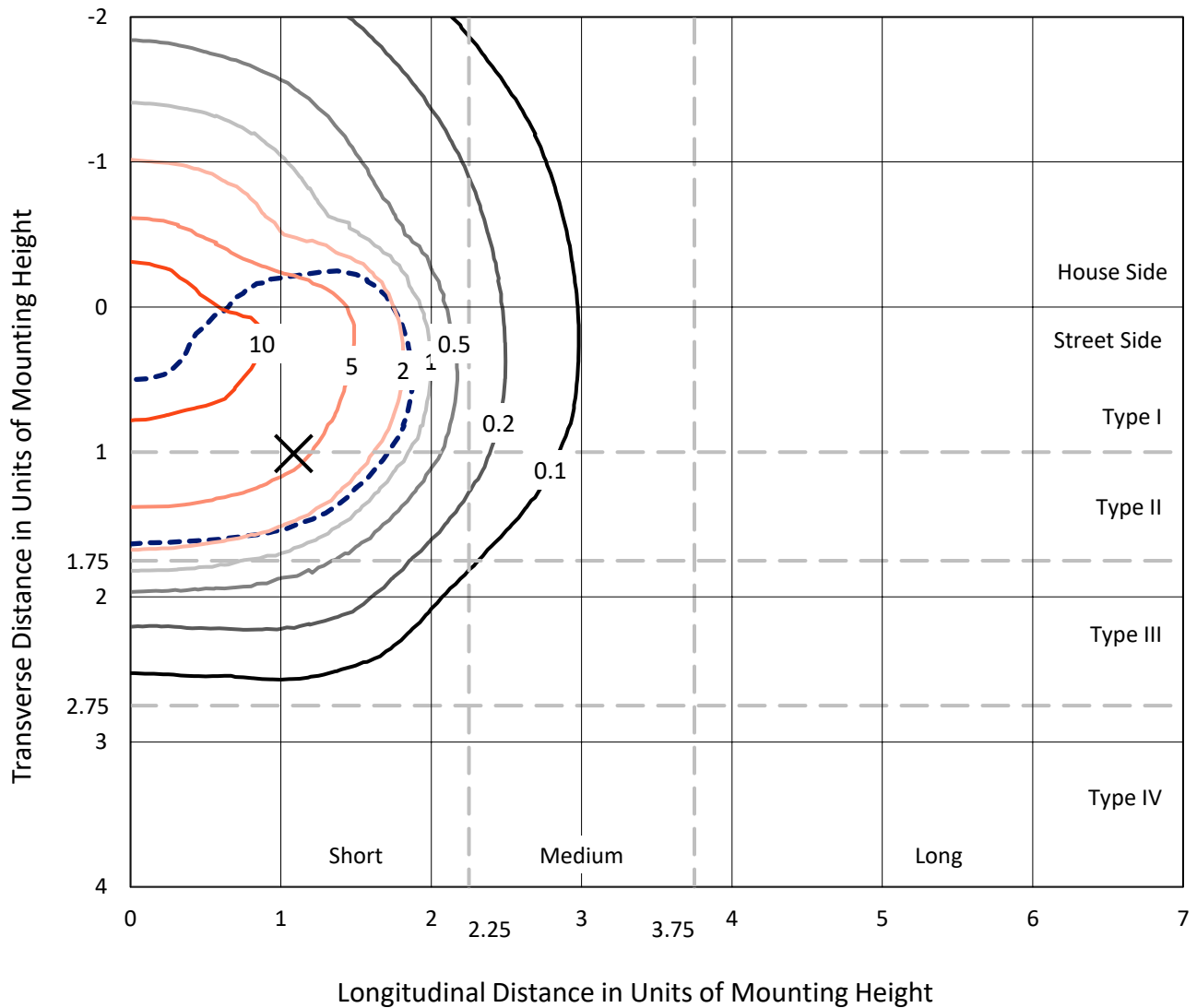
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

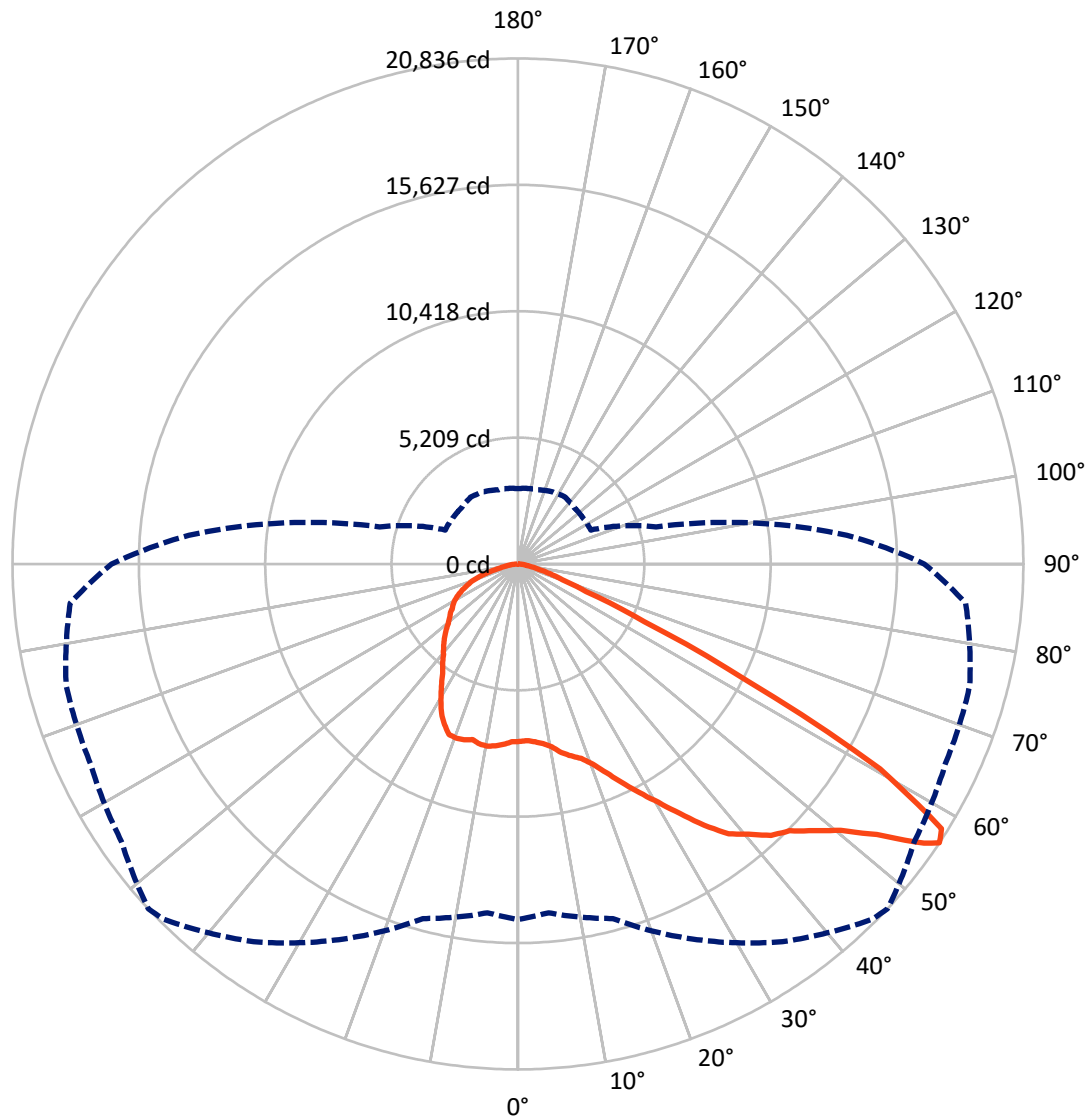
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	11545.5	0.0	11545.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	24888.5	0.0	24888.5
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	36434.0	0.0	36434.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	713.1	2.0
10°-20°	2249.4	6.2
20°-30°	3976.5	10.9
30°-40°	5972.5	16.4
40°-50°	8196.7	22.5
50°-60°	9765.3	26.8
60°-70°	4178.9	11.5
70°-80°	1182.6	3.2
80°-90°	199.0	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°	36434.0	100.0
0°-180°	36434.0	100.0

**Coefficient of Utilization**



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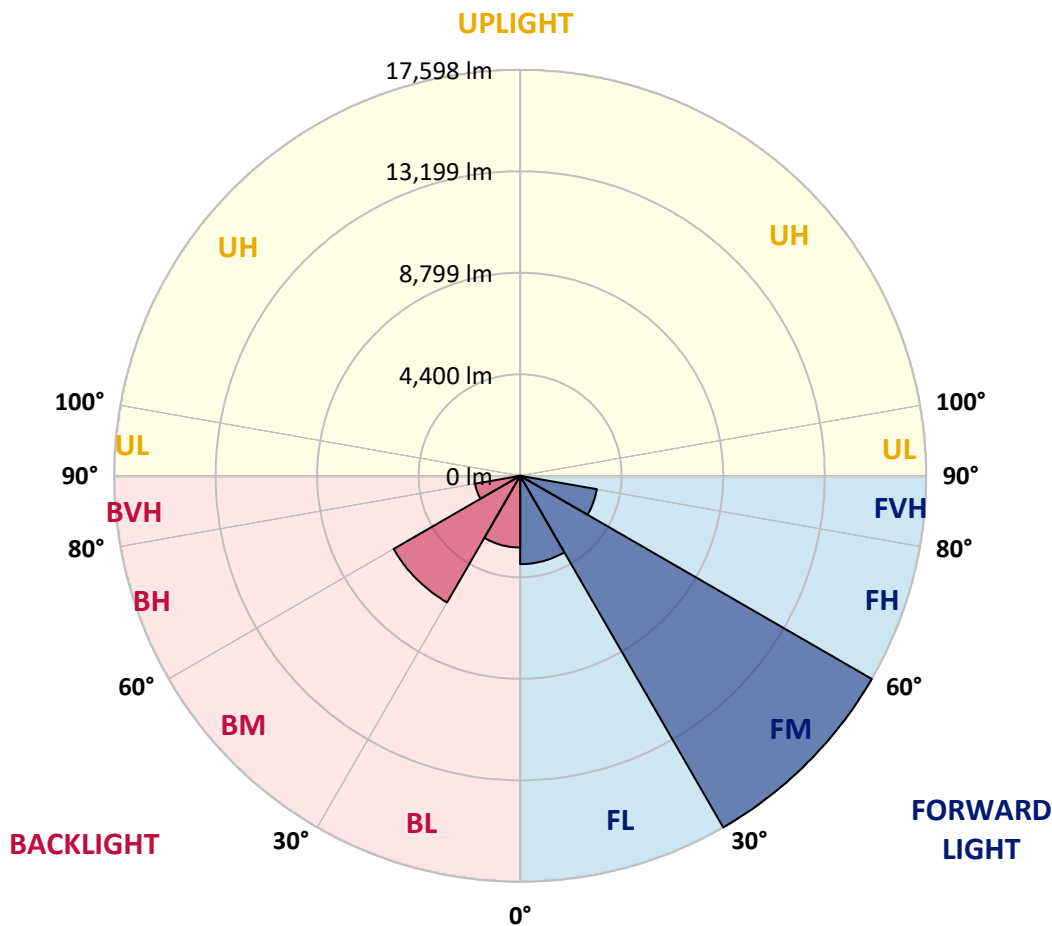
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3830.5	10.5			
FM (30°-60°)	17598.5	48.3			
FH (60°-80°)	3375.1	9.3			G2/5000
FVH (80°-90°)	84.5	0.2			G1/100
BL (0°-30°)	3108.5	8.5	B4/5000		
BM (30°-60°)	6336.0	17.4	B4/8500		
BH (60°-80°)	1986.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	114.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5
2.5°	7290.6	7276.7	7267.4	7341.7	7313.8	7318.5	7290.6	7318.5	7337.1	7295.3	7355.7
5°	7276.7	7318.5	7281.3	7304.5	7365.0	7346.4	7365.0	7420.7	7406.8	7392.8	7374.2
7.5°	7406.8	7411.4	7439.3	7448.6	7467.2	7448.6	7476.5	7527.6	7513.6	7434.7	7443.9
10°	7592.6	7601.9	7606.6	7657.7	7690.2	7694.9	7662.3	7615.9	7611.2	7718.1	7643.7
12.5°	7806.4	7783.1	7838.9	7857.5	7894.7	7936.5	7978.3	7880.7	7941.1	7945.8	7857.5
15°	8117.7	8140.9	8075.9	8075.9	8089.8	8094.5	8210.6	8164.2	8154.9	8103.8	8140.9
17.5°	8582.4	8424.4	8419.7	8354.7	8345.4	8382.6	8424.4	8461.6	8587.0	8484.8	8285.0
20°	8921.6	8958.8	8824.0	8745.0	8758.9	8842.6	8800.8	8968.0	9056.3	8889.1	8693.9
22.5°	9521.0	9395.5	9428.1	9251.5	9265.4	9353.7	9349.1	9521.0	9572.1	9307.3	9023.8
25°	9925.3	9892.7	9920.6	9781.2	9799.8	9869.5	9981.0	10264.5	10180.8	9888.1	9232.9
27.5°	10515.4	10450.3	10427.1	10376.0	10357.4	10543.3	10673.4	10975.4	10915.0	10487.5	9604.6
30°	11119.4	11077.6	11100.9	10891.8	10966.1	11361.1	11398.2	11811.8	11783.9	11031.2	10018.2
32.5°	11537.6	11560.9	11602.7	11486.5	11816.4	12132.4	12257.9	12727.2	12750.4	11965.1	10817.4
35°	12211.4	12132.4	12155.7	12290.4	12443.7	13019.9	13224.4	13535.7	13730.9	12945.6	11584.1
37.5°	12634.3	12717.9	12620.3	12834.1	13233.7	13926.0	14111.9	14432.5	14637.0	13912.1	12629.6
40°	13294.1	13159.3	13229.0	13382.4	13791.3	14692.7	14641.6	14971.5	15036.6	14734.5	13605.4
42.5°	14005.0	13940.0	13842.4	14190.9	14534.7	15189.9	15292.1	15138.8	15468.7	15538.4	14999.4
45°	14855.4	14934.4	14948.3	14957.6	15259.6	15831.2	15691.8	15557.0	15938.0	16444.5	15863.7
47.5°	15645.3	15394.4	15575.6	15826.5	16254.0	16258.7	16421.3	16100.7	16504.9	16955.6	16644.3
50°	15910.2	15789.3	16031.0	16504.9	17164.7	17234.4	17253.0	16797.7	17006.8	17364.6	16913.8
52.5°	15807.9	15766.1	16384.1	17118.3	18084.8	18437.9	18530.9	17968.6	18084.8	17922.2	17508.6
55°	15320.0	15445.5	16068.1	17564.4	19046.6	20138.6	20315.2	19604.2	18865.4	18990.9	18535.5
56°	14650.9	14432.5	15129.5	17057.9	19004.8	20691.6	20835.6	19948.1	19446.3	19283.6	18526.2
57.5°	12429.8	12146.4	13061.8	15347.9	17950.0	20482.5	20589.3	20092.1	19348.7	19018.8	17174.0
60°	7276.7	7416.1	8577.7	10585.1	13847.0	16793.0	17150.8	17513.2	17016.1	15538.4	12783.0
62.5°	3512.9	3424.6	4256.3	6068.5	8438.3	10719.8	10613.0	11630.6	12188.2	11040.5	8071.2
65°	1840.1	1830.8	2323.3	3313.1	4637.4	5631.7	5729.3	6277.6	7044.3	5687.5	4098.4
67.5°	1352.2	1389.4	1635.6	2328.0	2983.2	3043.6	3029.6	3303.8	3378.1	2857.7	2518.5
70°	1059.4	1078.0	1259.2	1770.4	2221.1	1988.8	1946.9	1979.5	2197.9	2290.8	2179.3
72.5°	766.7	785.3	938.6	1194.2	1389.4	1356.8	1384.7	1565.9	1835.4	1933.0	1816.8
75°	511.1	525.1	608.7	729.5	822.5	887.5	938.6	1147.7	1398.6	1454.4	1398.6
77.5°	353.1	367.1	422.8	515.8	525.1	566.9	585.5	683.1	836.4	906.1	868.9
80°	199.8	199.8	227.7	264.9	325.3	381.0	390.3	469.3	539.0	585.5	594.8
82.5°	92.9	97.6	120.8	162.6	213.7	264.9	274.2	325.3	376.4	422.8	436.8
85°	46.5	51.1	69.7	97.6	130.1	158.0	153.3	158.0	167.3	158.0	162.6
87.5°	13.9	13.9	18.6	23.2	18.6	23.2	23.2	27.9	32.5	37.2	41.8
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°	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5	7318.5
2.5°	7360.3	7374.2	7281.3	7369.6	7337.1	7332.4	7397.5	7388.2	7411.4	7402.1	7346.4
5°	7365.0	7332.4	7430.0	7341.7	7383.5	7471.8	7411.4	7550.8	7481.1	7527.6	7425.4
7.5°	7509.0	7518.3	7499.7	7536.9	7518.3	7560.1	7527.6	7560.1	7504.3	7509.0	7601.9
10°	7634.5	7606.6	7639.1	7592.6	7625.2	7611.2	7536.9	7513.6	7532.2	7509.0	7569.4
12.5°	7866.8	7815.7	7792.4	7736.7	7699.5	7560.1	7443.9	7378.9	7467.2	7481.1	7453.2
15°	8103.8	8108.4	8001.5	7876.1	7643.7	7434.7	7462.5	7485.8	7485.8	7522.9	7453.2
17.5°	8252.5	8252.5	8154.9	7904.0	7667.0	7546.2	7518.3	7443.9	7378.9	7369.6	7365.0
20°	8512.7	8433.7	8210.6	7899.3	7657.7	7601.9	7392.8	7216.3	7081.5	7035.0	7030.4
22.5°	8810.1	8610.3	8298.9	7908.6	7643.7	7564.8	7174.4	6909.6	6668.0	6565.7	6579.7
25°	9084.2	8763.6	8350.0	7866.8	7592.6	7211.6	6774.8	6407.7	6156.8	6073.2	6031.4
27.5°	9274.7	8926.2	8350.0	7904.0	7402.1	6816.6	6370.6	5901.3	5682.9	5627.1	5636.4
30°	9530.3	9130.7	8494.1	7825.0	7021.1	6305.5	5771.1	5464.5	5334.4	5287.9	5320.4
32.5°	10129.7	9665.0	8693.9	7634.5	6570.4	5794.4	5362.2	5190.3	4999.8	4906.9	4874.3
35°	10780.2	10171.5	8889.1	7313.8	6063.9	5329.7	5060.2	4902.2	4674.5	4572.3	4590.9
37.5°	11700.3	10822.1	8903.0	6784.1	5515.6	5069.5	4823.2	4577.0	4391.1	4233.1	4186.6
40°	12940.9	11709.6	8870.5	6226.5	5074.1	4762.8	4581.6	4274.9	4065.8	3954.3	3977.5
42.5°	14032.9	12750.4	8735.7	5594.6	4674.5	4553.7	4349.3	4047.2	3842.8	3726.6	3717.3
45°	14952.9	13517.1	8480.1	5055.6	4340.0	4321.4	4084.4	3852.1	3689.4	3582.6	3629.0
47.5°	15803.3	14135.1	8094.5	4516.5	4033.3	4070.5	3842.8	3698.7	3596.5	3498.9	3494.3
50°	16110.0	14125.8	7755.3	4070.5	3787.0	3768.4	3759.1	3605.8	3498.9	3415.3	3452.5
52.5°	16621.1	14283.8	7388.2	3763.8	3564.0	3568.6	3601.2	3489.6	3368.8	3317.7	3364.2
55°	17355.3	14307.1	6579.7	3406.0	3378.1	3410.6	3410.6	3336.3	3234.1	3192.3	3169.0
56°	16755.8	13614.7	5901.3	3313.1	3285.2	3285.2	3373.5	3289.8	3164.4	3131.8	3104.0
57.5°	15454.8	11928.0	4939.4	3201.5	3159.7	3224.8	3271.2	3183.0	3066.8	3020.3	3048.2
60°	10659.4	8071.2	3712.7	2959.9	2959.9	3066.8	3104.0	2973.9	2922.7	2918.1	2880.9
62.5°	6221.9	4702.4	2904.2	2741.5	2750.8	2839.1	2867.0	2792.6	2727.6	2806.6	2843.8
65°	3299.1	2806.6	2490.6	2509.2	2513.8	2583.5	2704.4	2699.7	2695.1	2718.3	2722.9
67.5°	2388.4	2332.6	2262.9	2244.3	2253.6	2304.7	2425.6	2518.5	2513.8	2458.1	2416.3
70°	2128.2	2049.2	2007.4	2012.0	1974.8	2035.2	2132.8	2193.2	2086.3	2021.3	1993.4
72.5°	1770.4	1747.1	1719.3	1723.9	1649.6	1635.6	1524.1	1524.1	1496.2	1477.6	1510.2
75°	1352.2	1342.9	1356.8	1333.6	1254.6	1171.0	1105.9	1045.5	952.6	915.4	896.8
77.5°	855.0	882.9	915.4	864.3	831.8	771.3	706.3	645.9	571.5	529.7	529.7
80°	580.8	604.1	627.3	618.0	580.8	525.1	474.0	408.9	357.8	325.3	320.6
82.5°	441.4	460.0	492.5	455.4	418.2	371.7	329.9	283.4	237.0	199.8	199.8
85°	158.0	181.2	199.8	218.4	232.3	237.0	204.5	167.3	134.8	106.9	102.2
87.5°	41.8	46.5	51.1	46.5	46.5	46.5	51.1	46.5	41.8	32.5	32.5
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)