

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643644

Luminaire Tested: GWS-SA6F-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-735-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

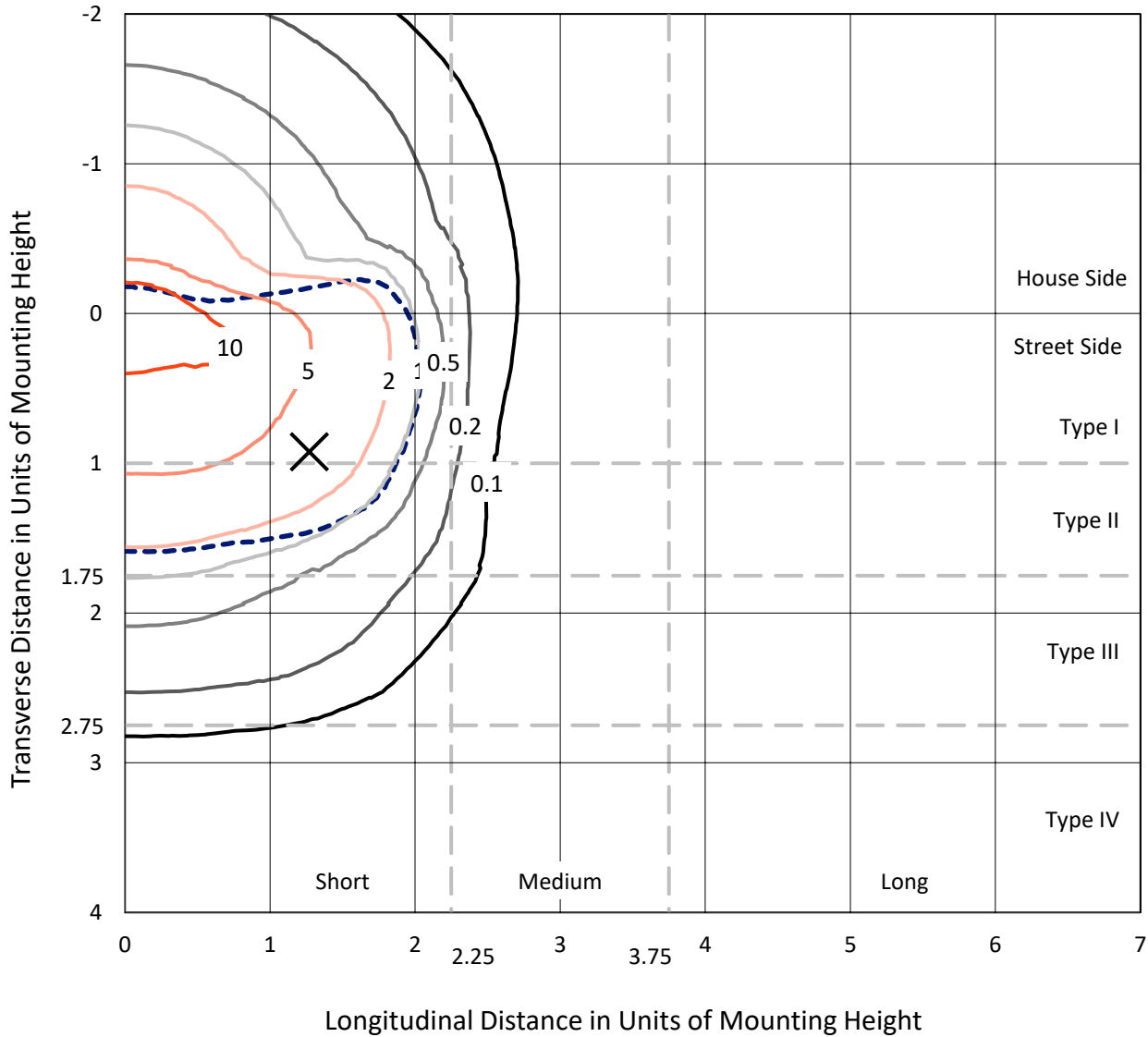
Lumens per Lamp: N/A  
Luminaire Lumens: 41108.7 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

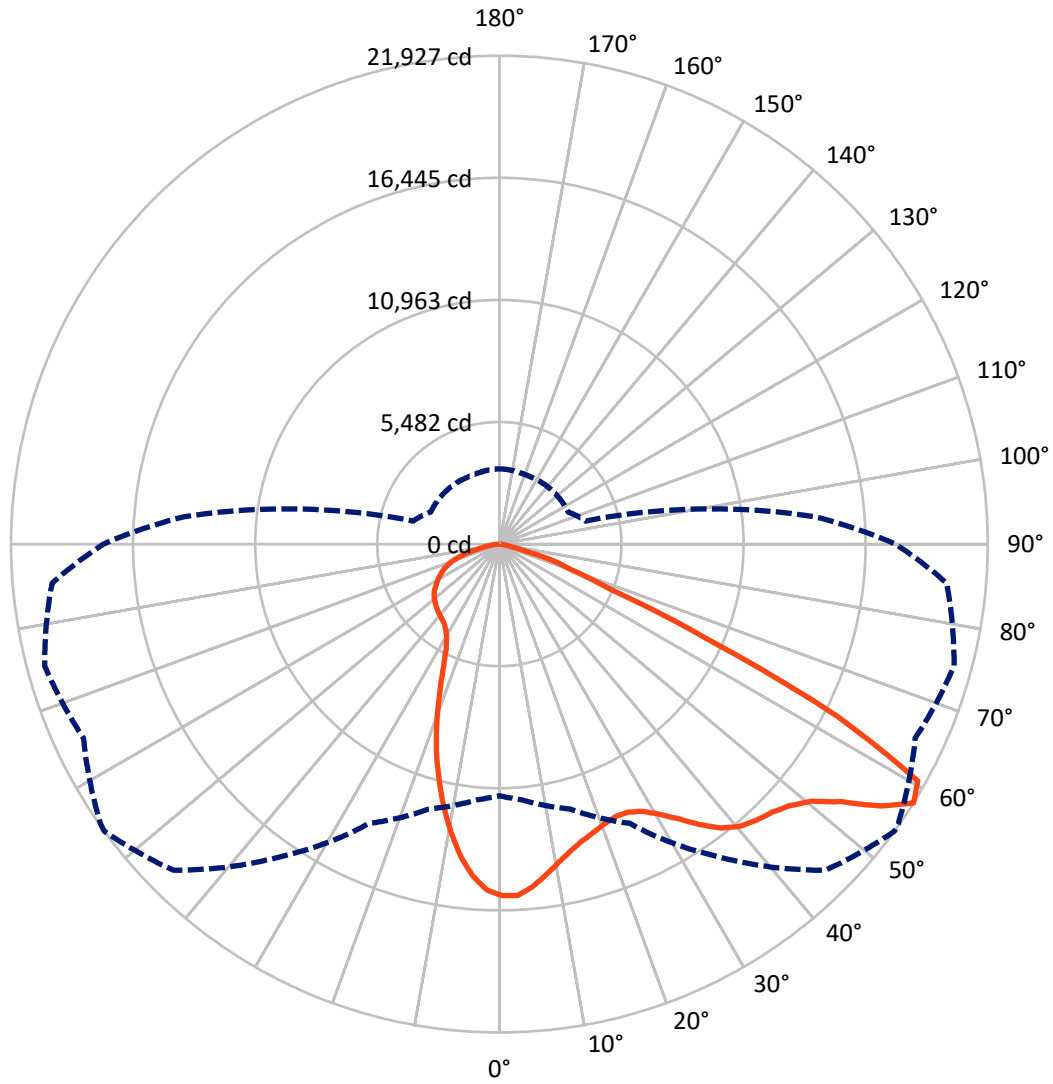
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 17.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11950.8	0.0	11950.8
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	29157.9	0.0	29157.9
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	41108.7	0.0	41108.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1387.3	3.4
10°-20°	3310.2	8.1
20°-30°	4580.8	11.1
30°-40°	6365.1	15.5
40°-50°	8406.3	20.4
50°-60°	9989.7	24.3
60°-70°	5534.4	13.5
70°-80°	1378.2	3.4
80°-90°	156.7	0.4
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°	41108.7	100.0
0°-180°	41108.7	100.0

**Coefficient of Utilization**



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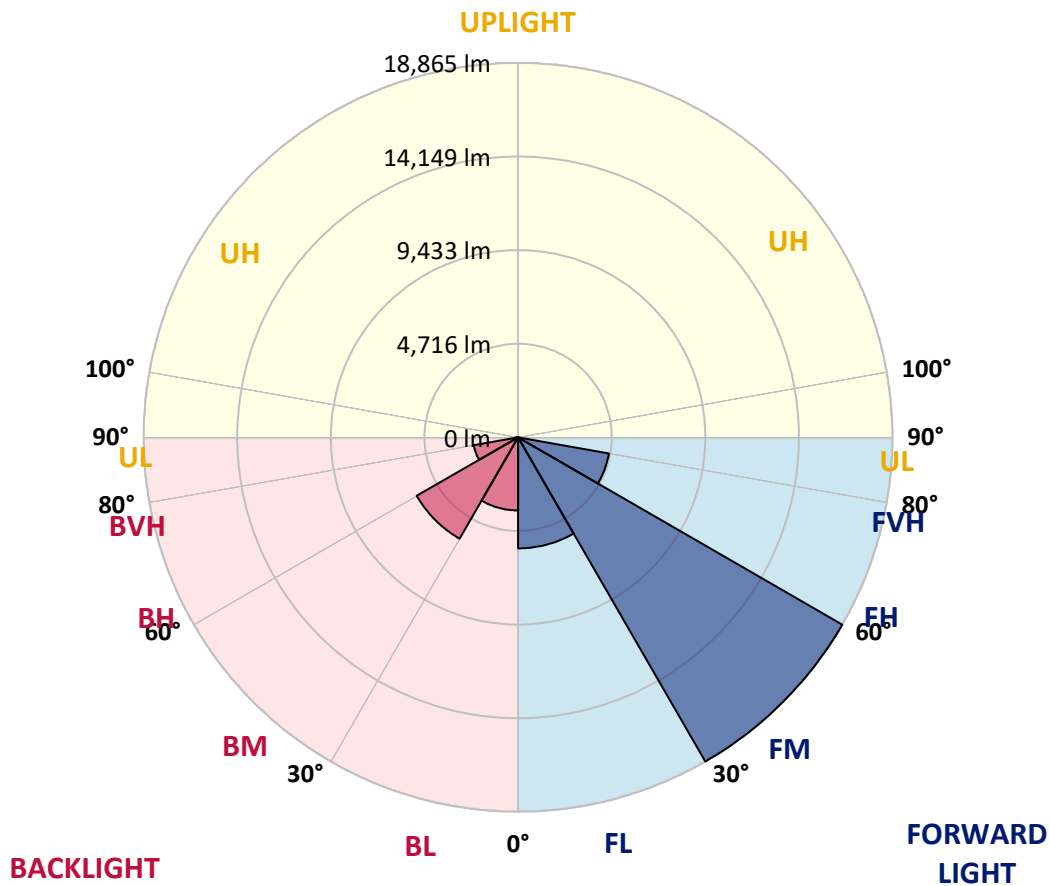
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5595.6	13.6			
FM (30°-60°)	18865.4	45.9			
FH (60°-80°)	4647.9	11.3			G2/5000
FVH (80°-90°)	49.0	0.1			G1/100
BL (0°-30°)	3682.7	9.0	B4/5000		
BM (30°-60°)	5895.6	14.3	B4/8500		
BH (60°-80°)	2264.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	107.7	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°	54°	55°	65°	75°	85°
0°	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6
2.5°	15487.0	15518.6	15539.8	15613.7	15677.0	15733.3	15793.1	15793.1	15789.6	15779.0	15757.9
5°	14874.7	14909.9	14959.1	15061.2	15198.4	15296.9	15458.8	15472.9	15543.3	15571.4	15557.3
7.5°	14163.8	14174.4	14237.7	14371.5	14589.6	14765.6	14997.8	15026.0	15194.9	15293.4	15275.8
10°	13386.1	13351.0	13463.6	13660.6	13945.7	14241.3	14540.4	14565.0	14836.0	15022.5	15008.4
12.5°	12675.3	12678.8	12791.4	13030.7	13386.1	13752.1	14153.3	14209.6	14543.9	14783.2	14758.5
15°	12080.6	12094.7	12231.9	12502.9	12907.6	13343.9	13843.6	13896.4	14318.7	14635.4	14565.0
17.5°	11605.6	11619.6	11739.3	12048.9	12481.8	13009.6	13618.4	13671.2	14195.5	14572.0	14427.8
20°	11278.3	11271.2	11387.4	11683.0	12129.9	12703.5	13421.3	13498.8	14156.8	14596.7	14336.3
22.5°	11144.6	11141.0	11225.5	11468.3	11887.1	12467.7	13301.7	13407.3	14199.0	14705.8	14280.0
25°	11211.4	11197.4	11271.2	11450.7	11785.0	12376.2	13336.9	13449.5	14378.5	14931.0	14290.5
27.5°	11419.0	11401.5	11464.8	11626.7	11880.0	12471.2	13583.2	13713.4	14758.5	15342.7	14431.3
30°	11735.8	11725.2	11788.5	11943.4	12165.1	12787.9	14054.8	14202.5	15346.2	15983.1	14737.4
32.5°	12105.2	12087.6	12200.3	12379.7	12636.6	13365.0	14688.2	14881.7	16043.0	16806.6	15251.2
35°	12520.5	12506.4	12661.2	12921.6	13291.1	14167.4	15455.3	15666.4	16753.8	17739.1	15933.9
37.5°	12925.2	12925.2	13224.3	13611.4	14075.9	15040.1	16176.7	16310.4	17246.5	18566.1	16665.8
40°	13284.1	13305.2	13755.6	14336.3	14927.5	15828.3	16651.7	16764.4	17464.6	19136.1	17302.8
42.5°	13681.7	13699.3	14223.7	14983.8	15687.6	16465.2	16940.3	16996.6	17506.9	19421.2	17753.2
45°	13998.4	14023.1	14674.1	15487.0	16349.1	16943.8	17169.0	17218.3	17566.7	19576.0	18080.4
47.5°	14163.8	14199.0	14945.0	15891.7	16796.0	17373.1	17545.6	17566.7	17813.0	19847.0	18474.6
50°	14135.7	14206.1	15047.1	16092.2	17126.8	17806.0	18150.8	18186.0	18316.2	20244.6	18935.6
52.5°	14385.5	14417.2	15265.3	16331.5	17598.4	18604.8	19203.0	19252.3	19192.4	20543.7	19210.0
55°	13970.3	14121.6	14994.3	16296.3	18316.2	19839.9	20761.9	20737.3	19987.7	20878.0	19667.5
57.5°	11299.4	11521.1	12319.9	13833.1	17133.8	20705.6	21926.7	21866.9	20603.5	21134.9	20163.7
60°	7822.7	7857.9	8579.2	9652.5	13224.3	18291.6	21585.3	21715.5	20716.2	20811.2	19245.2
62.5°	6256.7	6246.2	6313.0	6341.2	8410.3	12858.3	17038.8	17513.9	17211.3	16215.4	13639.5
65°	5341.8	5380.5	5577.6	5475.5	5489.6	7242.0	10180.4	10247.2	10036.1	9677.2	7213.9
67.5°	4180.5	4247.4	4595.8	4993.4	4866.7	4662.6	5282.0	5250.3	4138.3	3202.3	2646.3
70°	2618.1	2660.3	3033.3	3920.1	4236.8	3828.6	3395.8	3381.7	2216.9	1822.8	1998.8
72.5°	1527.2	1534.3	1639.8	2185.3	2811.7	2618.1	2498.5	2407.0	1425.2	1453.3	1594.1
75°	841.0	841.0	837.5	943.1	1108.5	981.8	950.1	925.5	953.6	1080.3	1185.9
77.5°	175.9	179.5	190.0	249.8	323.7	394.1	496.2	499.7	622.9	721.4	805.8
80°	80.9	84.5	105.6	133.7	172.4	228.7	302.6	306.2	376.5	453.9	510.3
82.5°	42.2	45.7	56.3	70.4	91.5	119.6	168.9	168.9	225.2	267.4	302.6
85°	14.1	14.1	21.1	28.2	38.7	49.3	66.9	66.9	98.5	130.2	151.3
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	14.1	14.1	17.6	21.1	35.2
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°	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6	15782.6
2.5°	15712.2	15603.1	15606.6	15627.7	15560.9	15458.8	15392.0	15307.5	15254.7	15244.2	15282.9
5°	15487.0	15360.3	15272.3	15180.8	14990.8	14765.6	14589.6	14445.4	14350.3	14315.2	14272.9
7.5°	15177.3	15011.9	14790.2	14533.3	14188.5	13787.3	13505.8	13241.9	13058.9	13006.1	12981.5
10°	14867.6	14628.3	14234.2	13755.6	13182.0	12640.1	12129.9	11739.3	11429.6	11253.7	11310.0
12.5°	14547.4	14251.8	13636.0	12900.5	12101.7	11285.3	10616.7	9969.2	9469.5	9219.7	9145.8
15°	14265.9	13864.7	13006.1	12010.2	10947.5	9920.0	8952.3	7981.0	7347.6	7002.7	6907.7
17.5°	14026.6	13505.8	12341.0	11102.3	9832.0	8368.1	7178.7	6277.8	5845.0	5655.0	5640.9
20°	13790.8	13153.9	11683.0	10124.1	8544.0	6904.2	5841.5	5419.2	5264.4	5197.5	5194.0
22.5°	13579.7	12784.4	10989.7	9145.8	7263.1	5802.8	5218.6	5035.6	4993.4	4993.4	4986.4
25°	13400.2	12414.9	10278.9	8107.7	6105.4	5165.8	4894.9	4817.5	4835.1	4866.7	4870.2
27.5°	13326.3	12126.4	9592.7	7041.5	5306.6	4796.4	4673.2	4662.6	4711.9	4761.2	4768.2
30°	13403.7	11929.3	8888.9	6021.0	4828.0	4571.1	4514.8	4535.9	4595.8	4645.0	4645.0
32.5°	13643.0	11830.8	8171.0	5274.9	4550.0	4412.8	4395.2	4416.3	4462.0	4490.2	4493.7
35°	14047.7	11869.5	7428.5	4771.7	4370.6	4296.7	4293.1	4307.2	4324.8	4342.4	4345.9
37.5°	14558.0	12041.9	6633.3	4479.6	4254.4	4212.2	4205.2	4201.6	4205.2	4205.2	4208.7
40°	15057.7	12302.3	5922.4	4307.2	4173.5	4138.3	4120.7	4096.1	4092.6	4085.5	4082.0
42.5°	15427.1	12502.9	5355.9	4184.1	4099.6	4057.4	4036.3	3997.5	3994.0	3990.5	3987.0
45°	15705.1	12671.8	4884.3	4064.4	4022.2	3983.5	3937.7	3902.5	3909.6	3916.6	3916.6
47.5°	16018.3	12819.6	4539.5	3951.8	3927.2	3888.5	3832.2	3807.5	3832.2	3856.8	3856.8
50°	16398.4	13027.2	4257.9	3839.2	3828.6	3782.9	3733.6	3723.1	3751.2	3786.4	3786.4
52.5°	16676.4	13206.7	4057.4	3726.6	3726.6	3666.8	3624.5	3621.0	3652.7	3687.9	3691.4
55°	17197.2	13625.4	3987.0	3596.4	3582.3	3536.6	3504.9	3480.3	3519.0	3550.6	3550.6
57.5°	17784.9	14181.4	4004.6	3409.9	3392.3	3378.2	3353.6	3325.4	3336.0	3371.2	3374.7
60°	16539.1	13104.6	3811.0	3223.4	3212.8	3205.8	3174.1	3124.8	3138.9	3167.1	3170.6
62.5°	11552.8	8709.4	3082.6	2991.1	3026.3	3022.8	2980.6	2924.3	2927.8	2966.5	2966.5
65°	5996.3	4711.9	2706.1	2780.0	2832.8	2811.7	2741.3	2692.0	2685.0	2734.2	2723.7
67.5°	2586.4	2572.4	2463.3	2558.3	2614.6	2568.8	2494.9	2414.0	2421.0	2438.6	2424.6
70°	2083.2	2146.6	2192.3	2294.4	2340.1	2255.7	2174.7	2129.0	2090.3	2086.7	2062.1
72.5°	1664.5	1752.4	1854.5	1960.1	1974.1	1889.7	1787.6	1745.4	1685.6	1682.1	1657.4
75°	1252.8	1326.7	1407.6	1492.0	1492.0	1411.1	1344.2	1323.1	1252.8	1231.6	1210.5
77.5°	855.1	900.9	964.2	985.3	1006.4	974.8	907.9	872.7	791.8	770.7	742.5
80°	538.4	570.1	608.8	622.9	644.0	605.3	552.5	513.8	457.5	439.9	425.8
82.5°	323.7	344.9	369.5	376.5	394.1	366.0	316.7	288.6	256.9	242.8	232.3
85°	165.4	175.9	190.0	193.5	190.0	161.9	144.3	130.2	109.1	105.6	98.5
87.5°	42.2	49.3	52.8	49.3	45.7	35.2	24.6	17.6	7.0	7.0	3.5
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)