

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: P643496

Luminaire Tested: GWS-SA6F-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36372.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

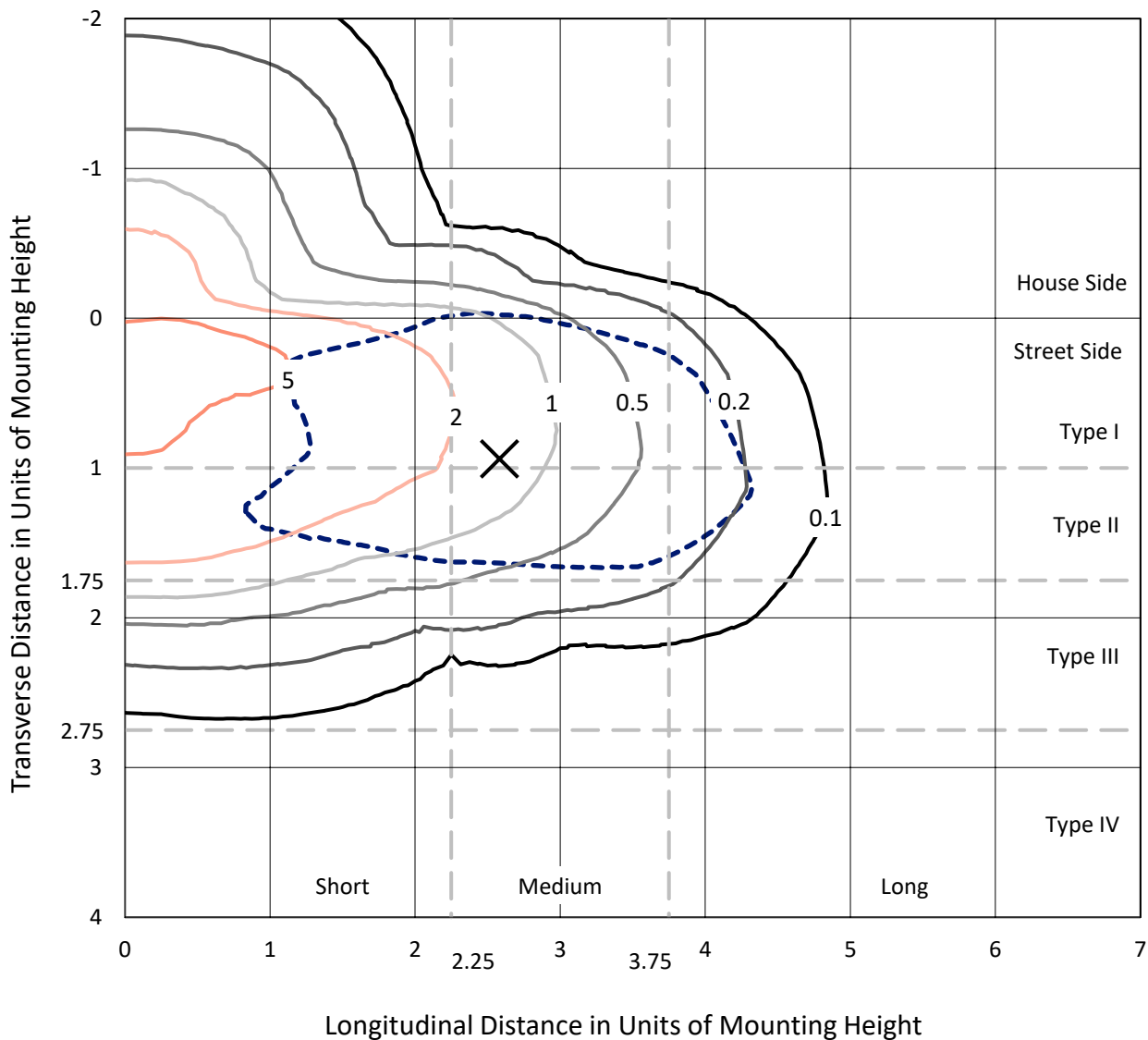
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

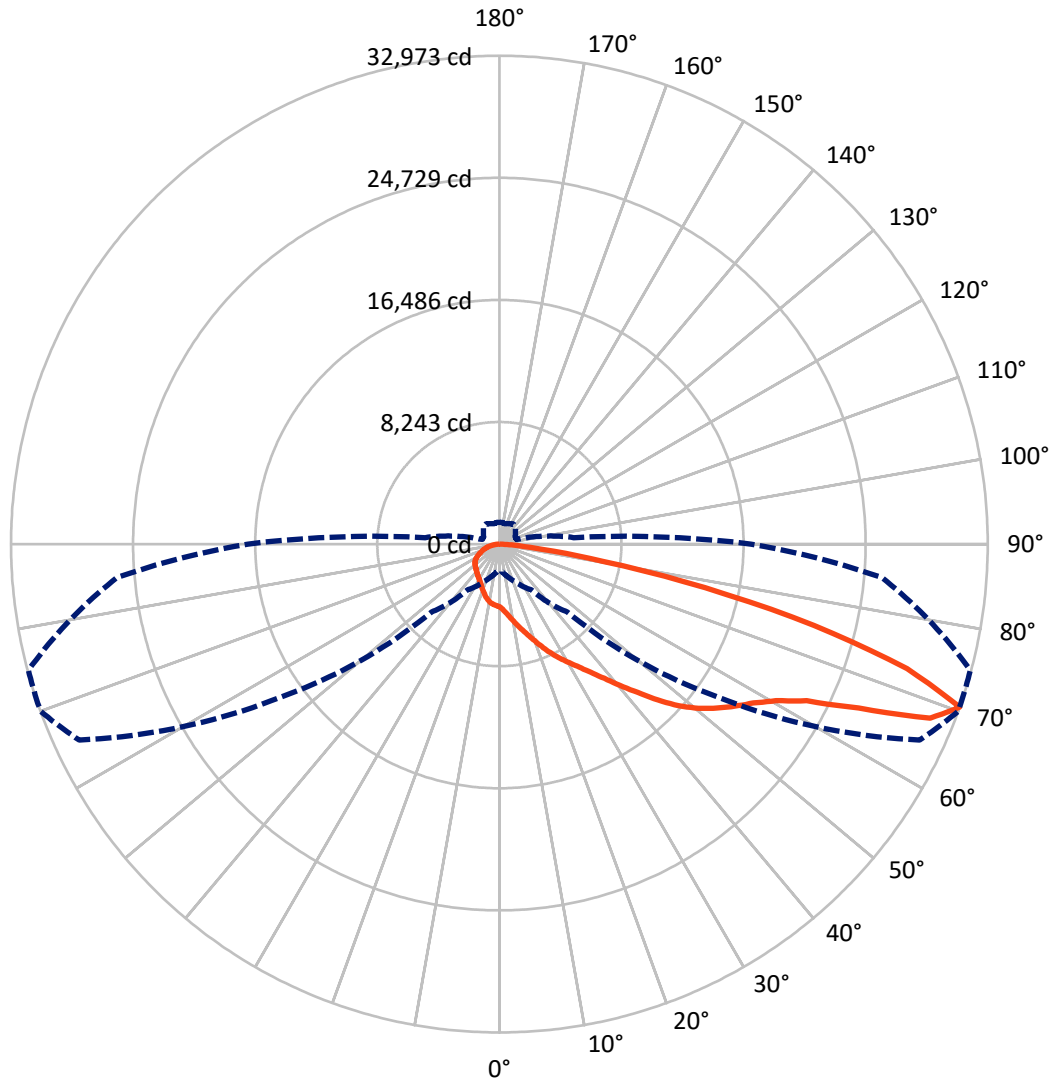
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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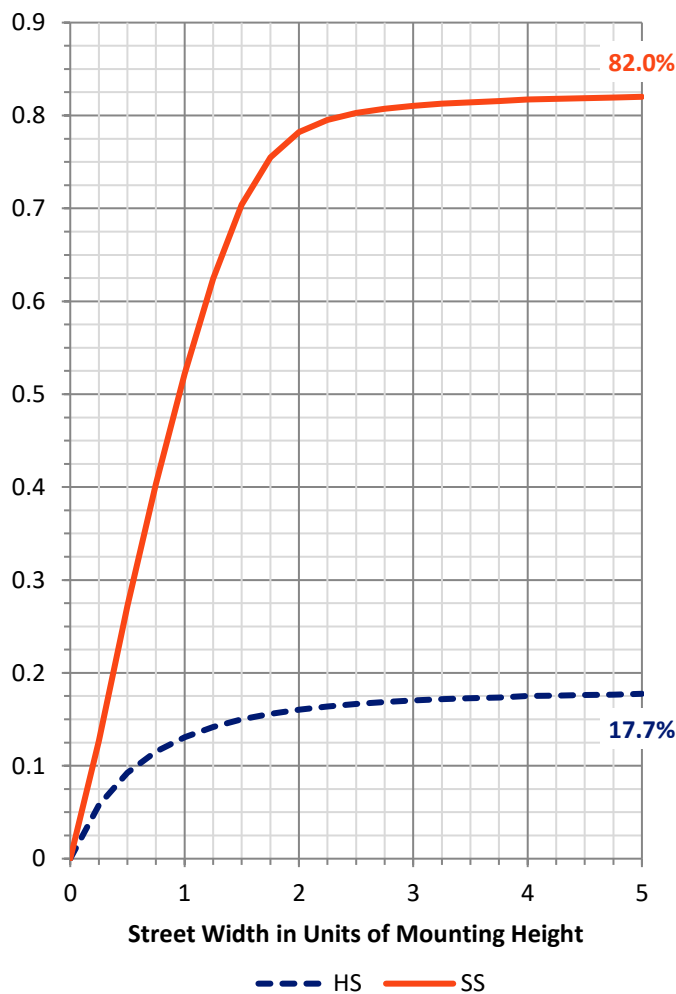
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6518.1	0.0	6518.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	29854.5	0.0	29854.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	36372.6	0.0	36372.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.1	1.2
10°-20°	1402.5	3.9
20°-30°	2484.5	6.8
30°-40°	3739.3	10.3
40°-50°	5657.0	15.6
50°-60°	8104.0	22.3
60°-70°	8958.1	24.6
70°-80°	5055.3	13.9
80°-90°	540.7	1.5
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°	36372.6	100.0
0°-180°	36372.6	100.0

Coefficient of Utilization



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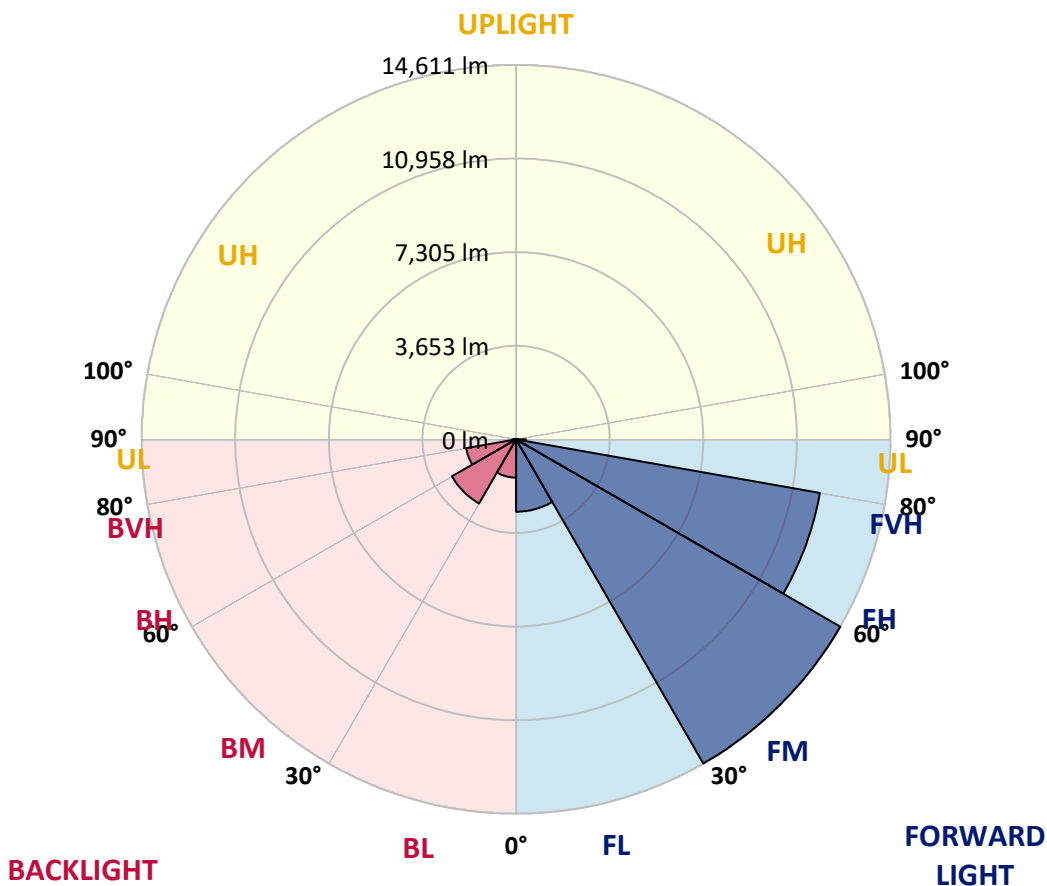
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2823.6	7.8			
FM (30°-60°)	14610.8	40.2			
FH (60°-80°)	12037.8	33.1			G5
FVH (80°-90°)	382.2	1.1			G3/500
BL (0°-30°)	1494.5	4.1	B3/2500		
BM (30°-60°)	2889.5	7.9	B3/5000		
BH (60°-80°)	1975.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	158.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8
2.5°	4699.1	4691.2	4696.5	4691.2	4662.3	4591.3	4533.5	4459.9	4410.0	4381.1	4312.8
5°	5251.0	5243.1	5224.7	5198.4	5145.9	5048.6	4904.1	4743.8	4646.5	4572.9	4428.4
7.5°	5647.8	5647.8	5645.2	5613.7	5576.9	5474.4	5303.6	5093.3	4951.4	4825.2	4588.7
10°	5850.2	5863.4	5881.8	5926.4	5918.5	5863.4	5703.0	5477.0	5298.3	5151.1	4799.0
12.5°	5960.6	5968.5	6000.0	6092.0	6186.6	6199.8	6105.1	5868.6	5674.1	5477.0	5032.9
15°	6102.5	6105.1	6147.2	6257.6	6396.9	6536.2	6512.5	6276.0	6076.2	5858.1	5293.0
17.5°	6212.9	6231.3	6307.5	6436.3	6609.7	6801.6	6917.2	6770.1	6523.0	6273.3	5576.9
20°	6252.3	6265.5	6365.3	6562.4	6799.0	7069.7	7327.2	7287.8	7038.1	6743.8	5897.5
22.5°	6394.2	6394.2	6467.8	6633.4	6912.0	7306.2	7724.1	7826.6	7605.8	7261.5	6241.8
25°	6707.0	6696.5	6730.6	6799.0	7009.2	7495.4	8115.7	8423.1	8176.1	7789.8	6586.1
27.5°	7135.4	7130.1	7127.5	7138.0	7209.0	7661.0	8446.8	8980.3	8733.3	8297.0	6893.6
30°	7600.5	7584.8	7618.9	7587.4	7571.6	7858.1	8728.0	9479.7	9287.8	8799.0	7148.5
32.5°	8233.9	8205.0	8197.1	8094.6	8031.6	8165.6	8954.0	10047.3	9894.9	9340.4	7435.0
35°	9069.7	9043.4	8909.4	8746.4	8559.8	8622.9	9235.2	10601.9	10612.4	10018.4	7810.8
37.5°	9913.3	9918.6	9813.4	9429.7	9237.9	9201.1	9663.6	11277.3	11503.3	10827.9	8297.0
40°	10615.0	10646.5	10646.5	10241.8	9955.3	9921.2	10265.5	12078.9	12528.3	11821.3	8912.0
42.5°	11148.5	11177.4	11269.4	10977.7	10675.5	10793.7	10996.1	12883.1	13689.9	13048.7	9689.9
45°	11734.6	11758.2	11808.2	11640.0	11463.9	11779.3	11823.9	13845.0	15019.8	14425.8	10594.0
47.5°	12512.5	12491.5	12496.7	12373.2	12236.6	12746.4	12735.9	14654.4	16304.9	15934.3	11574.3
50°	13479.7	13519.1	13482.3	13237.9	13077.6	13542.7	13603.2	15550.6	17435.0	17427.1	12562.5
52.5°	14410.0	14425.8	14620.3	14630.8	14302.3	14205.0	14362.7	16454.7	18389.0	18793.7	13511.2
55°	14457.3	14517.8	15101.2	15521.7	16052.6	15272.1	15130.1	17316.7	19311.5	20131.5	14496.8
57.5°	13450.8	13548.0	14538.8	15445.5	16922.5	17103.9	16444.2	18431.1	20234.0	21448.2	15637.4
60°	11300.9	11503.3	12848.9	14236.6	16530.9	18420.5	19132.8	19944.9	21445.5	22793.8	17022.4
62.5°	7216.8	7295.7	9182.7	11505.9	14767.5	18291.8	22060.5	22612.4	23290.5	24546.7	19156.4
65°	3613.7	3866.0	4972.4	6867.3	10649.2	16118.3	23540.1	27498.1	26667.6	27548.0	22615.0
67.5°	2452.0	2533.5	3093.3	4126.2	6244.4	11419.2	22622.9	31613.8	31369.3	31513.9	26302.3
70°	1808.2	1860.7	2302.2	2922.5	3776.6	6483.6	18010.6	31303.6	32972.5	32919.9	25916.0
72.5°	1319.3	1345.6	1679.4	2231.3	2799.0	3353.5	10998.7	25287.8	28783.3	30299.7	22665.0
75°	959.3	990.8	1166.9	1668.9	2176.1	2092.0	5429.7	18265.5	21950.1	24867.3	18465.2
77.5°	714.9	754.3	835.7	1046.0	1524.3	1498.0	2346.9	11860.7	14197.1	16241.8	11216.8
80°	515.1	523.0	570.3	670.2	967.2	877.8	1117.0	6184.0	7090.7	7768.7	4396.9
82.5°	312.7	320.6	381.1	412.6	599.2	551.9	580.8	2002.6	2869.9	3046.0	1642.6
85°	92.0	97.2	173.5	189.2	249.7	236.5	233.9	814.7	972.4	1243.1	646.5
87.5°	0.0	0.0	0.0	0.0	2.6	15.8	28.9	144.5	218.1	302.2	157.7
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°	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8	4241.8
2.5°	4286.5	4226.0	4194.5	4139.3	4099.9	4060.5	4021.0	3984.2	3968.5	3944.8	3950.1
5°	4362.7	4268.1	4173.5	4065.7	3973.7	3897.5	3829.2	3768.7	3742.5	3718.8	3729.3
7.5°	4478.3	4336.4	4155.1	3958.0	3813.4	3708.3	3637.3	3595.3	3582.1	3563.7	3563.7
10°	4625.5	4412.6	4094.6	3813.4	3640.0	3555.9	3524.3	3521.7	3534.8	3537.5	3532.2
12.5°	4788.4	4486.2	4005.3	3642.6	3495.4	3469.1	3492.8	3537.5	3582.1	3605.8	3600.5
15°	4956.6	4533.5	3852.8	3479.6	3390.3	3424.5	3500.7	3590.0	3676.8	3721.4	3718.8
17.5°	5114.3	4544.0	3655.7	3322.0	3298.3	3385.0	3516.4	3655.7	3774.0	3837.1	3839.7
20°	5290.4	4525.6	3453.4	3180.0	3206.3	3348.2	3521.7	3689.9	3829.2	3892.3	3908.0
22.5°	5450.7	4462.6	3256.3	3046.0	3127.5	3303.6	3479.6	3637.3	3760.9	3821.3	3842.3
25°	5595.3	4341.7	3040.7	2933.0	3067.0	3240.5	3374.5	3484.9	3571.6	3608.4	3637.3
27.5°	5674.1	4160.3	2877.8	2843.6	3009.2	3151.1	3224.7	3258.9	3287.8	3277.3	3298.3
30°	5689.9	3934.3	2735.9	2772.7	2922.5	3027.6	3043.4	3009.2	2959.3	2877.8	2896.2
32.5°	5674.1	3674.1	2617.6	2696.5	2825.2	2888.3	2867.3	2777.9	2657.0	2530.9	2538.8
35°	5679.4	3411.3	2520.4	2612.4	2712.2	2746.4	2693.8	2570.3	2441.5	2325.9	2320.6
37.5°	5737.2	3190.5	2438.9	2530.9	2601.8	2607.1	2549.3	2420.5	2354.8	2268.1	2257.6
40°	5897.5	3027.6	2365.3	2449.4	2494.1	2491.5	2425.8	2333.8	2378.5	2349.5	2341.7
42.5°	6160.3	2927.7	2304.9	2362.7	2394.2	2399.5	2346.9	2289.1	2386.3	2349.5	2336.4
45°	6583.5	2922.5	2262.8	2276.0	2325.9	2362.7	2325.9	2260.2	2297.0	2118.3	2084.1
47.5°	7085.4	3011.8	2231.3	2199.7	2286.5	2352.2	2294.4	2189.2	2113.0	1950.1	1926.4
50°	7689.9	3193.2	2202.4	2118.3	2228.7	2312.8	2254.9	2110.4	1994.7	1908.0	1894.9
52.5°	8407.4	3432.3	2165.6	2026.3	2141.9	2291.7	2254.9	2102.5	1950.1	1871.2	1858.1
55°	9159.0	3708.3	2123.5	1915.9	2044.7	2297.0	2273.3	2047.3	1915.9	1873.9	1863.3
57.5°	10092.0	4039.4	2047.3	1787.1	1958.0	2249.7	2199.7	2015.8	1892.3	1858.1	1847.6
60°	11303.6	4530.9	1902.8	1655.7	1858.1	2165.6	2134.0	1963.2	1829.2	1800.3	1792.4
62.5°	13222.1	5364.0	1726.7	1529.6	1739.8	1989.5	2036.8	1863.3	1750.3	1747.7	1745.1
65°	16349.6	6365.3	1519.1	1416.6	1616.3	1844.9	1908.0	1760.8	1668.9	1697.8	1695.1
67.5°	18541.4	6452.1	1348.2	1298.3	1471.8	1687.3	1779.2	1655.7	1555.9	1611.0	1608.4
70°	16983.0	5032.9	1201.1	1174.8	1316.7	1516.4	1640.0	1524.3	1424.4	1477.0	1466.5
72.5°	14323.3	3858.1	1061.8	1046.0	1159.0	1337.7	1461.2	1392.9	1287.8	1287.8	1264.1
75°	11511.2	3182.7	914.6	906.7	982.9	1156.4	1295.7	1180.0	1082.8	1077.5	1061.8
77.5°	6601.9	2086.7	767.4	762.2	785.8	967.2	1006.6	982.9	909.3	875.2	864.7
80°	2630.8	1085.4	604.5	570.3	594.0	709.6	793.7	754.3	691.2	649.1	625.5
82.5°	1019.7	544.0	425.8	373.2	407.4	512.5	575.6	562.4	520.4	425.8	399.5
85°	415.2	265.4	254.9	215.5	236.5	276.0	331.1	286.5	236.5	168.2	160.3
87.5°	110.4	97.2	94.6	57.8	44.7	13.1	2.6	0.0	0.0	0.0	0.0
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)