

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: P643832

Luminaire Tested: GWS-SA6F-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42857 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

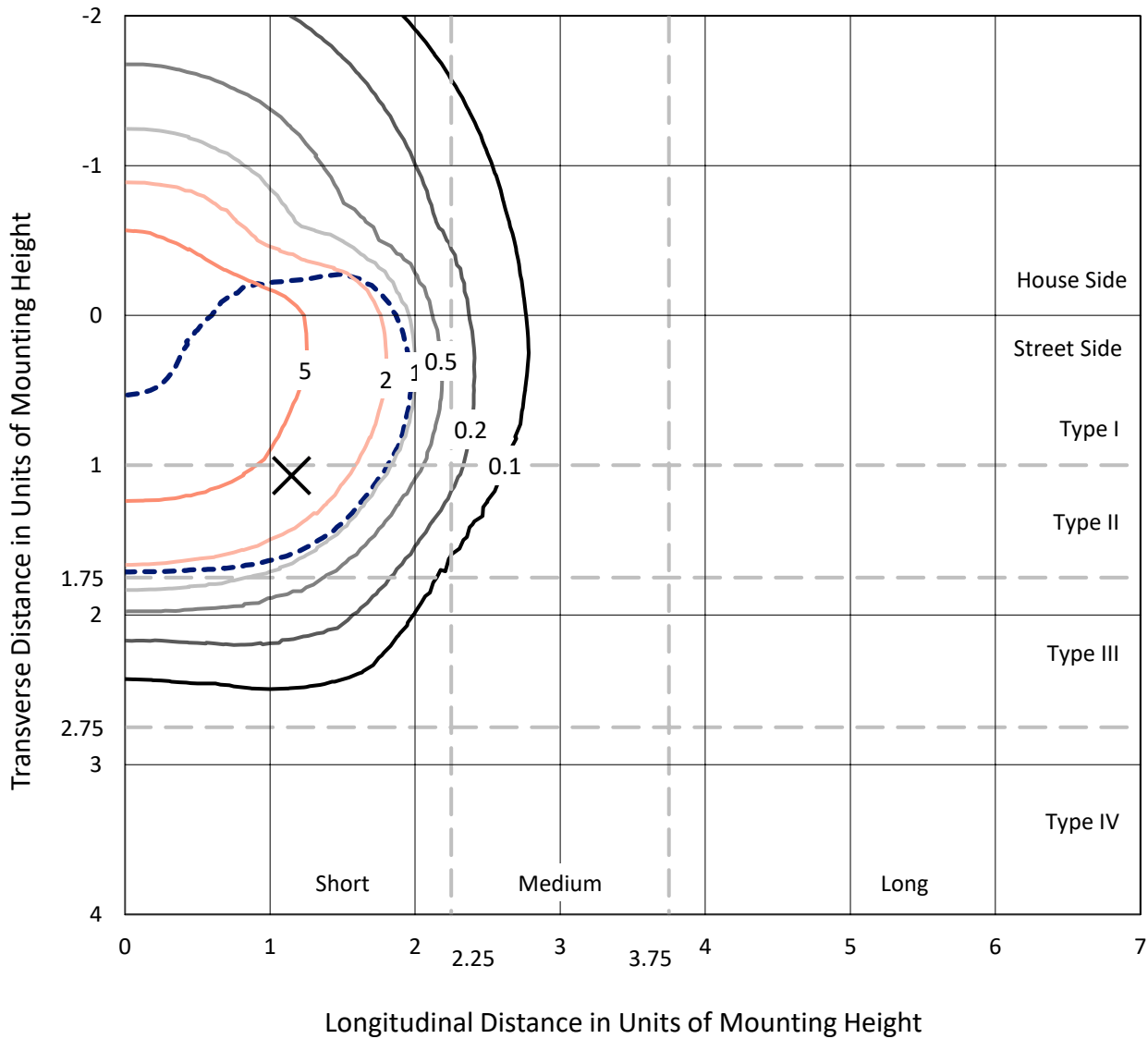
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

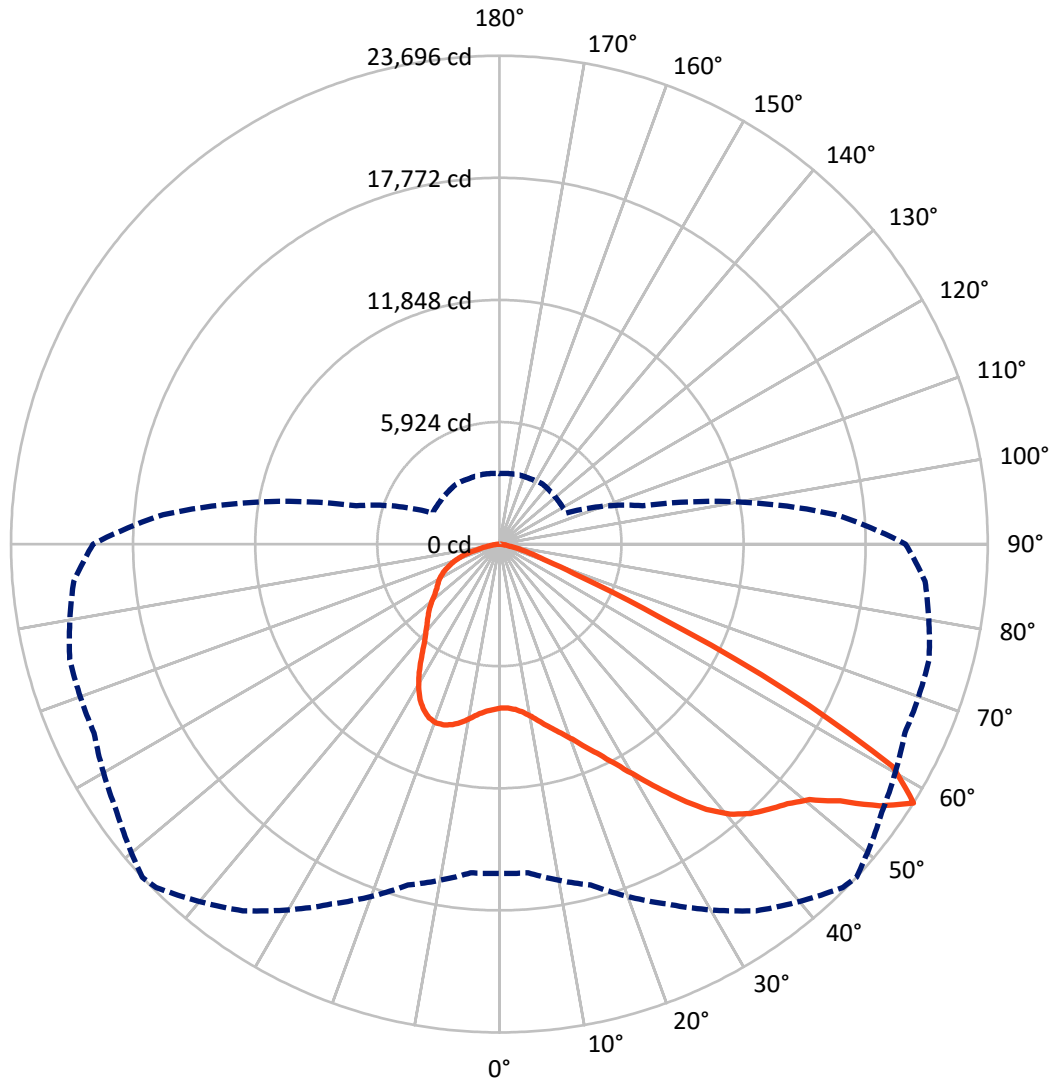
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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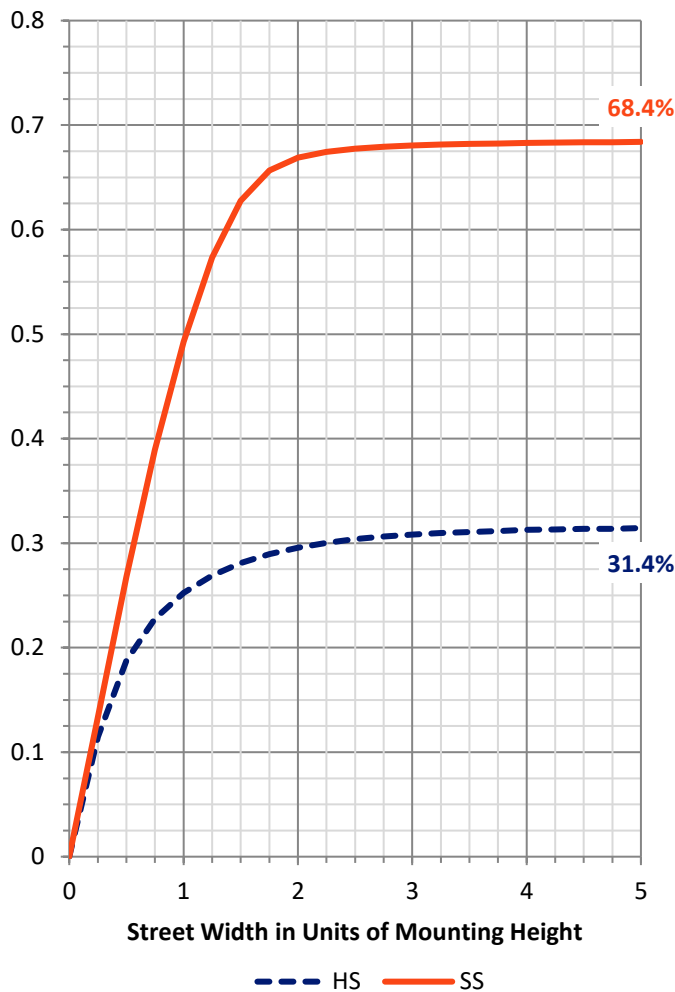
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13564.1	0.0	13564.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29292.9	0.0	29292.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	42857.0	0.0	42857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.9	1.8
10°-20°	2578.3	6.0
20°-30°	4642.6	10.8
30°-40°	7012.1	16.4
40°-50°	9442.6	22.0
50°-60°	11346.5	26.5
60°-70°	5526.0	12.9
70°-80°	1361.4	3.2
80°-90°	163.6	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°	42857.0	100.0
0°-180°	42857.0	100.0

Coefficient of Utilization



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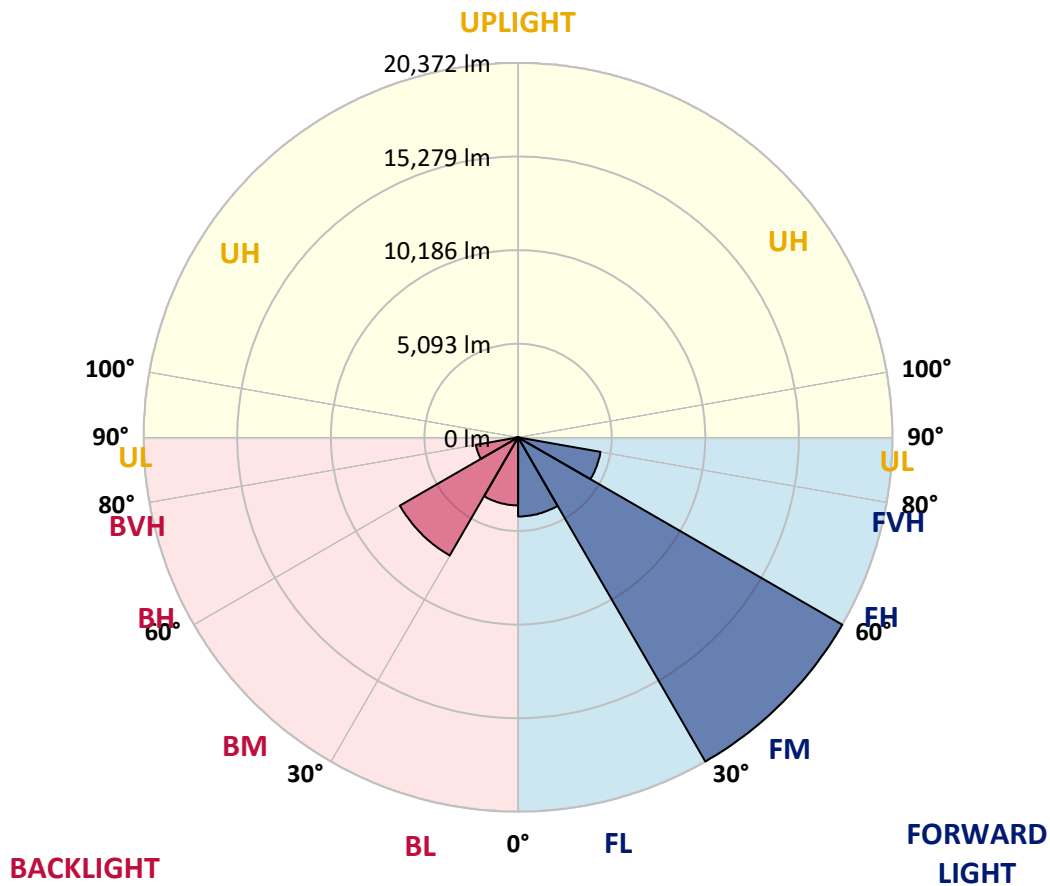
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4304.8	10.0			
FM (30°-60°)	20372.2	47.5			
FH (60°-80°)	4554.4	10.6			G2/5000
FVH (80°-90°)	61.5	0.1			G1/100
BL (0°-30°)	3700.0	8.6	B4/5000		
BM (30°-60°)	7429.0	17.3	B4/8500		
BH (60°-80°)	2332.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	102.1	0.2			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°	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9
2.5°	7933.5	7929.9	7929.9	7951.5	7951.5	7958.7	7969.5	7980.3	7983.9	7965.9	7926.3
5°	8019.9	8019.9	8019.9	8037.9	8037.9	8045.1	8059.5	8063.1	8059.5	8030.7	7991.1
7.5°	8156.7	8156.7	8160.3	8181.9	8199.9	8210.7	8235.9	8232.3	8221.5	8174.7	8124.3
10°	8379.8	8390.6	8401.4	8426.6	8462.6	8487.8	8505.8	8505.8	8491.4	8419.4	8354.6
12.5°	8696.6	8711.0	8721.8	8743.4	8772.2	8815.4	8855.0	8855.0	8837.0	8747.0	8649.8
15°	9067.4	9081.8	9078.2	9085.4	9139.4	9200.5	9232.9	9254.5	9261.7	9135.8	8984.6
17.5°	9492.1	9506.5	9492.1	9470.5	9477.7	9574.9	9632.5	9711.7	9758.5	9589.3	9348.1
20°	9877.3	9862.9	9862.9	9877.3	9898.9	10017.7	10104.0	10233.6	10291.2	10086.0	9711.7
22.5°	10284.0	10316.4	10302.0	10302.0	10388.4	10586.4	10690.8	10860.0	10921.2	10654.8	10150.8
25°	10809.6	10838.4	10831.2	10838.4	10939.2	11219.9	11324.3	11637.5	11698.7	11317.1	10636.8
27.5°	11385.5	11432.3	11453.9	11446.7	11608.7	11975.8	12105.4	12541.0	12652.6	12058.6	11155.1
30°	12134.2	12184.6	12202.6	12195.4	12386.2	12886.5	13034.1	13530.9	13689.2	12936.9	11813.9
32.5°	13001.7	13052.1	13106.1	13127.7	13372.5	13883.6	14096.0	14610.7	14837.5	13952.0	12609.4
35°	13862.0	13905.2	14009.6	14178.8	14513.5	15035.5	15222.7	15730.2	15949.8	15006.7	13570.5
37.5°	14812.3	14841.1	14931.1	15165.1	15647.4	16144.2	16331.3	16817.3	16842.5	16025.4	14657.5
40°	15852.6	15852.6	15834.6	16065.0	16568.9	17069.3	17231.2	17512.0	17364.4	16810.1	15715.8
42.5°	16734.5	16720.1	16734.5	16950.5	17324.8	17731.6	17872.0	17818.0	17630.8	17411.2	16673.3
45°	17530.0	17540.8	17670.4	17836.0	18030.3	18271.5	18354.3	18048.3	17879.2	17893.6	17440.0
47.5°	18069.9	18080.7	18383.1	18660.3	18779.1	18854.6	18818.7	18393.9	18307.5	18469.5	18030.3
50°	18141.9	18199.5	18721.5	19290.2	19585.4	19596.2	19495.4	18977.0	18951.8	19135.4	18347.1
52.5°	18156.3	18213.9	18865.4	19891.3	20658.0	20820.0	20704.8	20164.9	19902.1	19718.5	18735.9
55°	18102.3	18167.1	18887.0	20294.5	21763.1	22411.0	22421.8	21658.7	20820.0	20697.6	19844.5
57.5°	15982.2	16007.4	17123.2	19268.6	21719.9	23555.7	23696.1	22659.4	21701.9	21586.7	20733.6
60°	11133.5	11234.3	12447.4	15280.3	18246.3	21482.3	21935.9	21633.5	20992.8	20154.1	17789.2
62.5°	5575.8	5662.2	6878.8	9556.9	12584.2	15139.9	15625.8	15946.2	16097.4	15197.5	12112.6
65°	2400.9	2465.7	3221.6	4992.6	7123.6	8358.2	8527.4	8912.6	9855.7	8793.8	6526.1
67.5°	1605.4	1648.6	2033.8	3045.3	4197.1	4276.3	4251.1	4333.9	4539.1	3747.2	2948.1
70°	1231.1	1267.1	1526.2	2231.7	3016.5	2580.9	2444.1	2217.3	2408.1	2454.9	2390.1
72.5°	892.7	921.5	1115.9	1522.6	1889.8	1648.6	1627.0	1742.2	2001.4	2073.4	2033.8
75°	575.9	590.3	709.1	835.1	975.5	1058.3	1101.5	1310.3	1573.0	1627.0	1580.2
77.5°	385.2	396.0	464.3	536.3	554.3	557.9	572.3	665.9	845.9	946.7	935.9
80°	201.6	201.6	226.8	226.8	259.2	309.6	324.0	385.2	467.9	518.3	521.9
82.5°	79.2	82.8	97.2	108.0	129.6	158.4	169.2	201.6	244.8	280.8	313.2
85°	32.4	36.0	39.6	46.8	57.6	72.0	75.6	86.4	115.2	144.0	162.0
87.5°	0.0	0.0	3.6	3.6	7.2	10.8	10.8	14.4	18.0	32.4	43.2
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°	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9	7947.9
2.5°	7973.1	7926.3	7973.1	7987.5	8027.1	8041.5	8016.3	8012.7	8012.7	7976.7	7965.9
5°	8027.1	7983.9	8030.7	8052.3	8109.9	8145.9	8153.1	8181.9	8199.9	8185.5	8181.9
7.5°	8160.3	8106.3	8156.7	8189.1	8264.7	8322.2	8347.4	8412.2	8459.0	8451.8	8448.2
10°	8394.2	8322.2	8379.8	8433.8	8516.6	8585.0	8588.6	8624.6	8671.4	8657.0	8649.8
12.5°	8664.2	8595.8	8660.6	8714.6	8811.8	8840.6	8793.8	8779.4	8786.6	8768.6	8754.2
15°	8995.4	8898.2	8955.8	9017.0	9071.0	9038.6	8937.8	8898.2	8894.6	8869.4	8855.0
17.5°	9326.5	9204.1	9247.3	9279.7	9254.5	9153.8	9027.8	8959.4	8927.0	8876.6	8862.2
20°	9654.1	9499.3	9492.1	9466.9	9351.7	9168.2	8999.0	8862.2	8779.4	8711.0	8685.8
22.5°	10028.5	9812.5	9704.5	9589.3	9337.3	9038.6	8783.0	8588.6	8455.4	8369.0	8340.2
25°	10431.6	10125.6	9902.5	9672.1	9193.4	8761.4	8405.0	8138.7	7980.3	7886.7	7854.3
27.5°	10831.2	10410.0	10075.2	9682.9	8905.4	8361.8	7883.1	7523.1	7364.8	7289.2	7264.0
30°	11371.1	10788.0	10280.4	9542.5	8527.4	7807.5	7210.0	6846.4	6742.0	6688.0	6666.4
32.5°	11993.8	11266.7	10554.0	9247.3	8045.1	7159.6	6529.7	6277.7	6205.7	6101.3	6097.7
35°	12814.5	11950.6	10813.2	8811.8	7436.8	6464.9	6007.7	5827.7	5698.1	5532.6	5518.2
37.5°	13772.0	12803.7	10953.5	8257.5	6727.6	5892.5	5619.0	5417.4	5208.6	4989.0	4960.2
40°	14761.9	13800.8	10964.3	7602.3	6032.9	5514.6	5284.2	5021.4	4762.3	4517.5	4485.1
42.5°	15802.2	14729.5	10773.6	6846.4	5464.2	5187.0	4953.0	4621.9	4330.3	4164.7	4146.7
45°	16730.9	15478.2	10341.6	6050.9	5043.0	4913.4	4614.7	4258.3	4103.5	3984.7	3959.5
47.5°	17461.6	15975.0	9758.5	5338.2	4701.1	4632.7	4243.9	4060.3	3941.5	3833.6	3808.4
50°	17821.6	16086.6	8999.0	4758.7	4384.3	4301.5	4035.1	3894.8	3815.6	3729.2	3707.6
52.5°	18267.9	16212.5	8343.8	4272.7	4074.7	3963.1	3862.4	3750.8	3693.2	3639.2	3621.2
55°	19293.8	16687.7	7998.3	3884.0	3779.6	3729.2	3714.8	3621.2	3603.2	3567.2	3534.8
57.5°	19711.3	16381.7	7181.2	3567.2	3545.6	3552.8	3588.8	3502.4	3484.4	3441.2	3419.6
60°	15852.6	12382.6	4863.0	3293.6	3351.2	3398.0	3434.0	3347.6	3322.4	3315.2	3286.4
62.5°	10158.0	7616.7	3394.4	3038.1	3124.4	3182.0	3203.6	3120.8	3102.8	3160.4	3164.0
65°	5287.8	4150.3	2753.7	2764.5	2836.5	2922.9	2966.1	2937.3	2930.1	2991.3	2994.9
67.5°	2699.7	2537.7	2400.9	2440.5	2498.1	2609.7	2710.5	2836.5	2879.7	2886.9	2890.5
70°	2300.1	2228.1	2159.8	2185.0	2246.1	2307.3	2404.5	2465.7	2393.7	2375.7	2368.5
72.5°	1958.2	1904.2	1871.8	1900.6	1933.0	1922.2	1893.4	1922.2	1933.0	1936.6	1940.2
75°	1522.6	1483.0	1457.8	1461.4	1461.4	1421.8	1367.8	1335.4	1299.5	1270.7	1270.7
77.5°	932.3	939.5	964.7	961.1	957.5	943.1	889.1	860.3	773.9	748.7	748.7
80°	532.7	543.5	568.7	575.9	575.9	557.9	503.9	471.5	432.0	414.0	410.4
82.5°	324.0	338.4	352.8	360.0	363.6	342.0	295.2	270.0	248.4	230.4	230.4
85°	169.2	176.4	190.8	194.4	183.6	162.0	136.8	126.0	104.4	100.8	100.8
87.5°	46.8	50.4	57.6	46.8	43.2	32.4	18.0	14.4	7.2	3.6	3.6
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)