

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: P643824

Luminaire Tested: GWS-SA6F-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41863.5 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

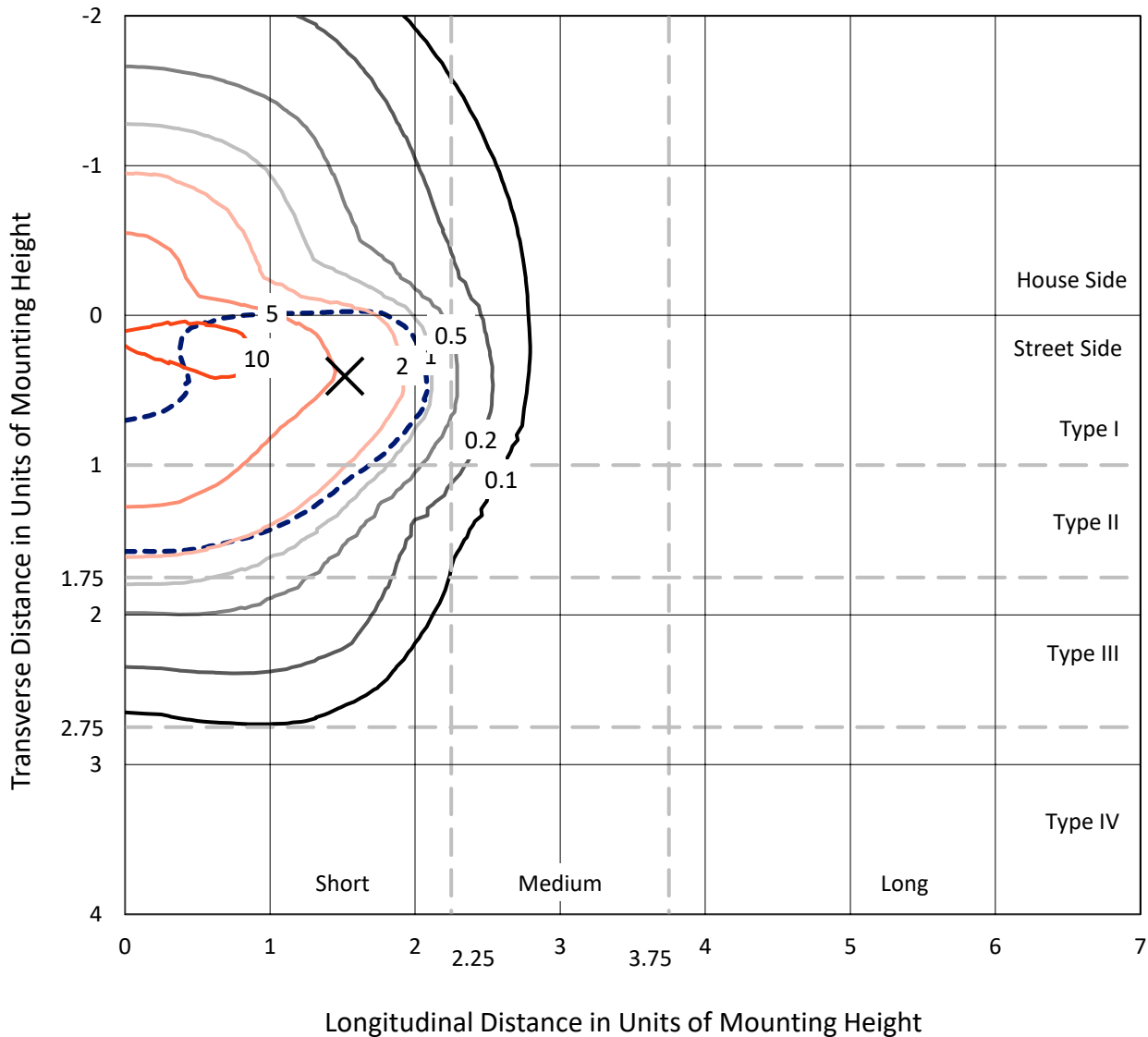
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

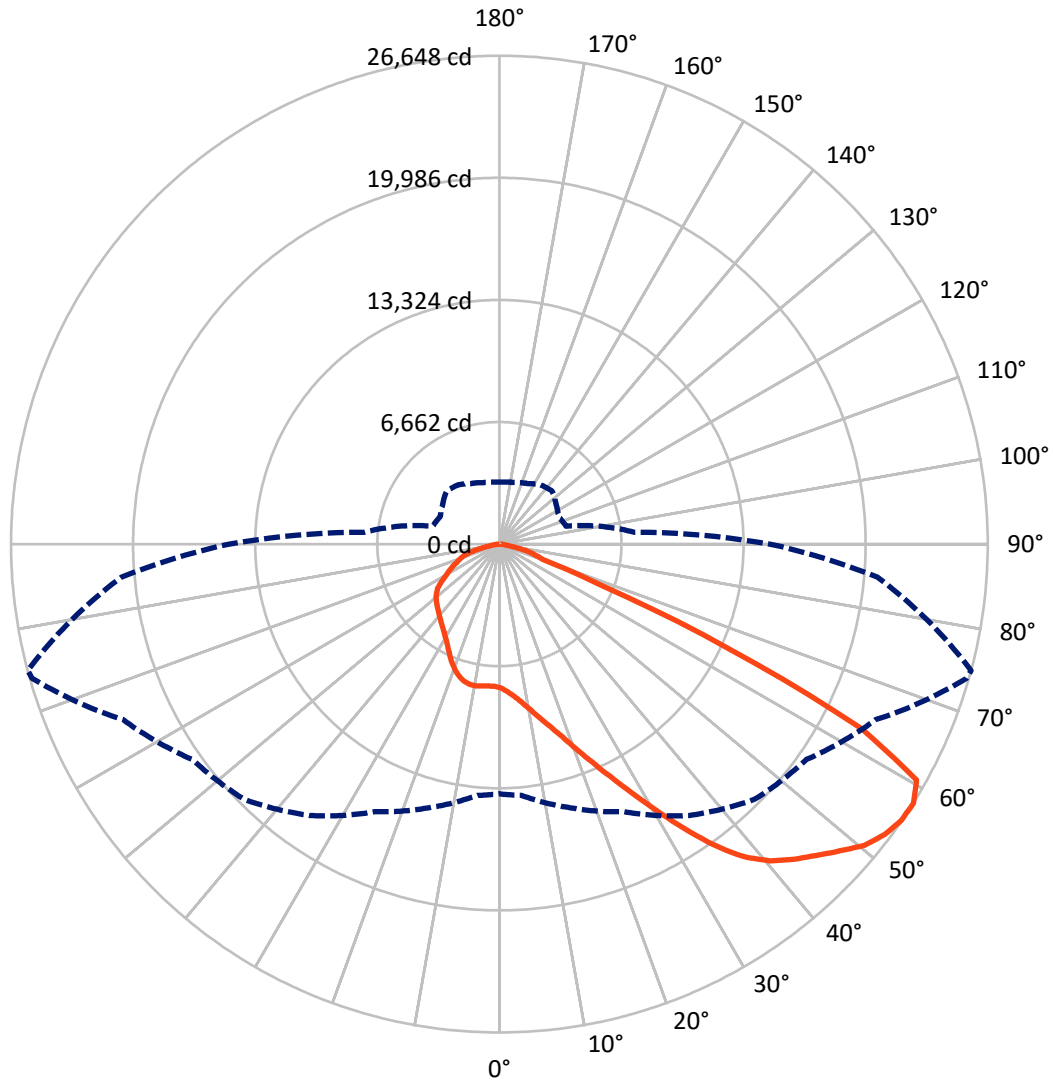
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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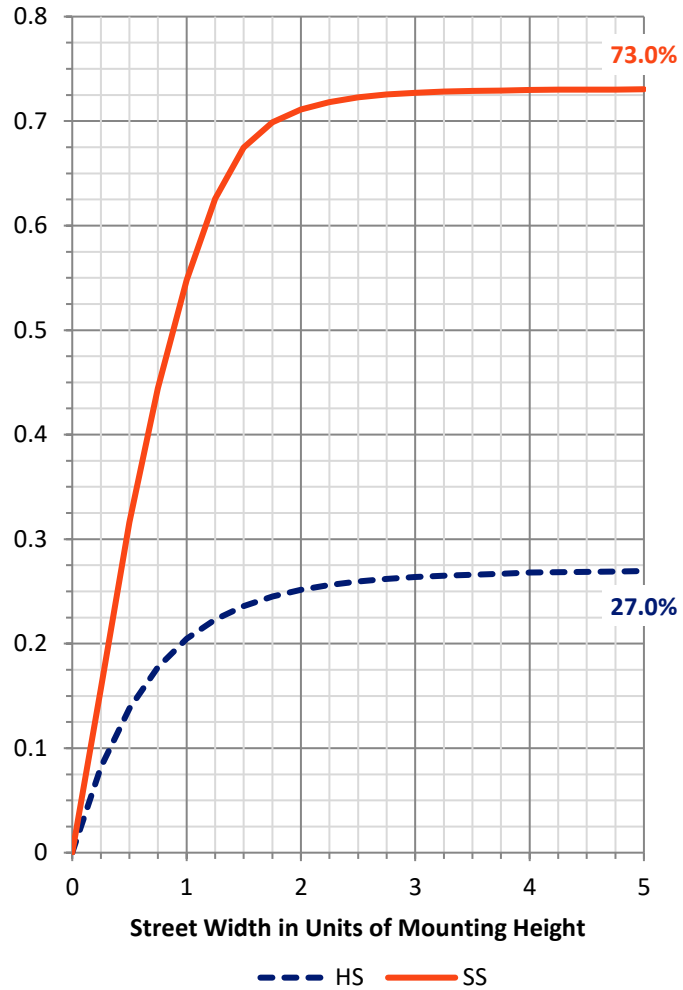
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11324.9	0.0	11324.9
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	30538.6	0.0	30538.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	41863.5	0.0	41863.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.5	1.9
10°-20°	2497.8	6.0
20°-30°	4429.8	10.6
30°-40°	6781.3	16.2
40°-50°	9442.4	22.6
50°-60°	10819.2	25.8
60°-70°	5559.1	13.3
70°-80°	1399.6	3.3
80°-90°	149.6	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°	41863.5	100.0
0°-180°	41863.5	100.0

Coefficient of Utilization



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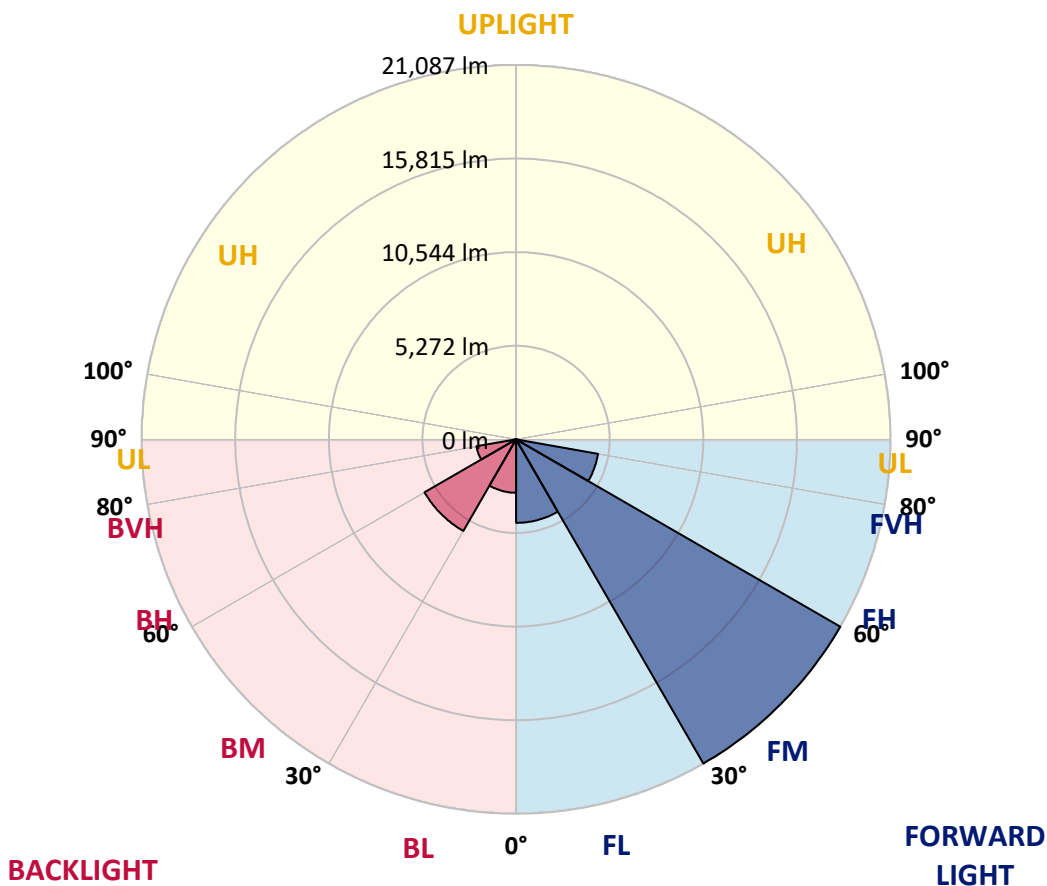
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4703.6	11.2			
FM (30°-60°)	21087.1	50.4			
FH (60°-80°)	4692.5	11.2			G2/5000
FVH (80°-90°)	55.4	0.1			G1/100
BL (0°-30°)	3008.6	7.2	B4/5000		
BM (30°-60°)	5955.9	14.2	B4/8500		
BH (60°-80°)	2266.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	94.2	0.2			G1/100
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°	55°	65°	74°	75°	85°
0°	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0
2.5°	8423.2	8444.8	8423.2	8459.2	8387.2	8354.8	8275.6	8156.8	8063.2	8048.8	7944.4
5°	9078.3	9125.1	9096.3	9081.9	8984.7	8912.7	8793.9	8556.4	8362.0	8333.2	8128.0
7.5°	9499.5	9531.9	9531.9	9542.7	9506.7	9423.9	9297.9	9017.1	8743.5	8700.3	8390.8
10°	9639.9	9665.0	9711.8	9801.8	9873.8	9899.0	9816.2	9546.3	9211.5	9168.3	8736.3
12.5°	9672.2	9701.0	9773.0	9938.6	10136.6	10316.6	10331.0	10133.0	9758.6	9711.8	9135.9
15°	9733.4	9762.2	9859.4	10064.6	10356.2	10701.7	10914.1	10777.3	10363.4	10313.0	9589.5
17.5°	9726.2	9758.6	9902.6	10176.2	10568.6	11068.9	11479.3	11536.9	11108.5	11022.1	10104.2
20°	9708.2	9737.0	9891.8	10226.6	10712.5	11400.1	12141.6	12440.4	11979.6	11900.4	10705.3
22.5°	9852.2	9884.6	10003.4	10280.6	10788.1	11655.7	12753.5	13473.5	13012.7	12901.1	11396.5
25°	10176.2	10223.0	10295.0	10485.8	10924.9	11882.4	13379.9	14643.4	14171.8	14038.6	12148.8
27.5°	10676.5	10734.1	10834.9	10924.9	11230.9	12170.4	14002.6	15953.6	15482.1	15341.7	12944.3
30°	11288.5	11364.1	11493.7	11554.9	11763.6	12595.2	14679.4	17303.5	17029.9	16835.5	13840.6
32.5°	12134.4	12238.8	12361.2	12379.2	12505.2	13239.5	15348.9	18642.6	18639.0	18502.2	14859.3
35°	13235.9	13347.5	13372.7	13397.9	13459.1	14125.0	16158.8	19862.8	20334.4	20176.0	15968.0
37.5°	14438.2	14600.2	14639.8	14528.2	14614.6	15190.5	17069.5	20841.9	21810.3	21641.1	17040.7
40°	15723.3	15788.0	15896.0	15719.7	15827.6	16410.8	17962.2	21468.3	22911.7	22731.8	17886.6
42.5°	16644.8	16763.6	16925.5	16860.7	16921.9	17454.7	18588.6	21770.7	23696.5	23516.5	18495.0
45°	17645.5	17681.5	17785.8	17771.5	17807.4	18304.2	19038.5	21903.8	24398.4	24236.4	19013.3
47.5°	18516.6	18570.6	18639.0	18559.8	18480.6	18804.5	19405.7	22019.0	25208.3	25013.9	19556.9
50°	19355.3	19402.1	19484.9	19254.5	18959.3	19042.1	19585.7	22177.4	25967.8	25831.1	19985.2
52.5°	19510.1	19560.5	19949.2	19996.0	19618.1	19326.5	19902.4	22526.6	26414.2	26327.8	20140.0
55°	17562.7	17652.7	18426.6	19315.7	20248.0	20154.4	20410.0	22710.2	26590.6	26612.2	20417.2
57.5°	13631.9	13761.4	14891.7	16112.0	18073.8	19697.3	20474.8	22663.4	26529.4	26648.2	20701.6
60°	8941.5	9017.1	10356.2	11724.0	13757.8	16004.0	18325.8	21821.1	25985.8	26155.0	20629.6
62.5°	5399.5	5485.9	6562.2	7598.9	8797.5	10298.6	12429.6	17537.5	21781.5	22159.4	16522.4
65°	3768.8	3884.0	4827.1	5680.2	6094.2	5784.6	6295.8	9794.6	13570.7	13729.0	10097.0
67.5°	2732.1	2811.3	3585.2	4600.3	5057.5	4085.6	3113.7	4337.6	5910.6	5968.2	4164.8
70°	1789.0	1879.0	2580.9	3502.5	4128.8	3311.7	2329.0	2347.0	2487.4	2516.2	2419.0
72.5°	982.7	1036.7	1594.6	2325.4	2440.6	1979.8	1817.8	1951.0	2048.2	2048.2	2073.4
75°	507.6	554.3	651.5	766.7	925.1	1083.5	1310.3	1508.3	1612.6	1619.8	1609.0
77.5°	259.2	277.2	349.2	378.0	414.0	482.4	626.3	802.7	896.3	932.3	925.1
80°	122.4	129.6	147.6	172.8	212.4	270.0	338.4	403.2	460.8	468.0	507.6
82.5°	64.8	72.0	79.2	93.6	115.2	144.0	198.0	237.6	273.6	280.8	313.2
85°	25.2	28.8	32.4	36.0	50.4	61.2	82.8	111.6	136.8	136.8	162.0
87.5°	0.0	0.0	0.0	0.0	3.6	7.2	14.4	18.0	25.2	25.2	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°	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0	7840.0
2.5°	7919.2	7814.8	7768.0	7692.4	7631.2	7562.9	7508.9	7469.3	7444.1	7429.7	7415.3
5°	8048.8	7890.4	7764.4	7613.3	7508.9	7408.1	7325.3	7267.7	7238.9	7217.3	7202.9
7.5°	8250.4	8038.0	7800.4	7566.5	7382.9	7220.9	7116.5	7055.3	7015.7	7001.3	6990.5
10°	8527.6	8232.4	7840.0	7469.3	7195.7	7019.3	6947.3	6918.5	6922.1	6914.9	6911.3
12.5°	8840.7	8437.6	7829.2	7296.5	6994.1	6889.7	6893.3	6940.1	6994.1	7008.5	7012.1
15°	9179.1	8639.1	7724.8	7073.3	6835.7	6846.5	6940.1	7051.7	7152.5	7192.1	7199.3
17.5°	9546.3	8808.3	7534.1	6828.5	6706.1	6821.3	6994.1	7177.7	7325.3	7390.1	7408.1
20°	9956.6	8952.3	7264.1	6587.4	6583.8	6774.5	7026.5	7267.7	7454.9	7541.3	7555.7
22.5°	10392.2	9042.3	6932.9	6364.2	6457.8	6713.3	7001.3	7253.3	7451.3	7537.7	7555.7
25°	10831.3	9071.1	6569.4	6159.0	6328.2	6616.1	6878.9	7080.5	7267.7	7343.3	7357.7
27.5°	11241.7	8988.3	6223.8	5982.6	6209.4	6472.2	6648.5	6756.5	6886.1	6943.7	6954.5
30°	11659.3	8822.7	5932.2	5842.2	6076.2	6274.2	6353.4	6360.6	6411.0	6411.0	6418.2
32.5°	12080.4	8578.0	5676.6	5705.4	5910.6	6040.2	6051.0	5968.2	5907.0	5806.2	5802.6
35°	12566.4	8329.6	5467.9	5550.7	5716.2	5795.4	5763.0	5604.6	5457.1	5291.5	5284.3
37.5°	13016.3	8074.0	5291.5	5392.3	5496.7	5554.3	5478.7	5287.9	5165.5	4996.3	4971.1
40°	13387.1	7843.6	5122.3	5226.7	5277.1	5327.5	5205.1	5050.3	5068.3	4974.7	4971.1
42.5°	13603.1	7620.5	4963.9	5043.1	5075.5	5111.5	5003.5	4888.3	4985.5	4913.5	4917.1
45°	13761.4	7426.1	4819.9	4848.7	4927.9	4981.9	4881.1	4751.5	4773.1	4496.0	4431.2
47.5°	13941.4	7318.1	4683.1	4654.3	4794.7	4888.3	4733.5	4546.4	4416.8	4143.2	4118.0
50°	14132.2	7278.5	4539.2	4460.0	4629.1	4719.1	4539.2	4305.2	4136.0	3988.4	3974.0
52.5°	14197.0	7274.9	4359.2	4226.0	4395.2	4521.2	4370.0	4132.4	3930.8	3786.8	3779.6
55°	14452.6	7379.3	4128.8	3905.6	4064.0	4323.2	4211.6	3869.6	3707.6	3642.8	3635.6
57.5°	14751.3	7397.3	3765.2	3556.5	3776.0	4082.0	3941.6	3646.4	3470.1	3390.9	3383.7
60°	14629.0	6954.5	3376.5	3290.1	3531.3	3855.2	3725.6	3470.1	3264.9	3189.3	3182.1
62.5°	11148.1	4909.9	3092.1	3059.7	3268.5	3527.7	3502.5	3236.1	3041.7	2987.7	2980.5
65°	6706.1	3448.5	2818.5	2814.9	2962.5	3210.9	3243.3	3027.3	2822.1	2746.5	2746.5
67.5°	3315.3	2638.5	2509.0	2491.0	2584.5	2760.9	2897.7	2721.3	2548.5	2476.6	2465.8
70°	2343.4	2325.4	2282.2	2231.8	2249.8	2321.8	2379.4	2231.8	2048.2	1976.2	1961.8
72.5°	2026.6	2030.2	2001.4	1961.8	1947.4	1897.0	1846.6	1738.6	1627.0	1551.4	1558.6
75°	1573.0	1580.2	1598.2	1583.8	1544.2	1490.3	1436.3	1299.5	1209.5	1137.5	1123.1
77.5°	917.9	953.9	1011.5	997.1	1004.3	928.7	907.1	773.9	691.1	640.7	629.9
80°	518.3	539.9	565.1	583.1	561.5	529.1	482.4	410.4	385.2	349.2	342.0
82.5°	313.2	334.8	345.6	360.0	352.8	309.6	273.6	226.8	205.2	187.2	183.6
85°	158.4	172.8	183.6	190.8	169.2	140.4	126.0	100.8	86.4	75.6	75.6
87.5°	39.6	43.2	50.4	43.2	39.6	18.0	14.4	3.6	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)