

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: P638721

Luminaire Tested: GWS-SA4F-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638721  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-735-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

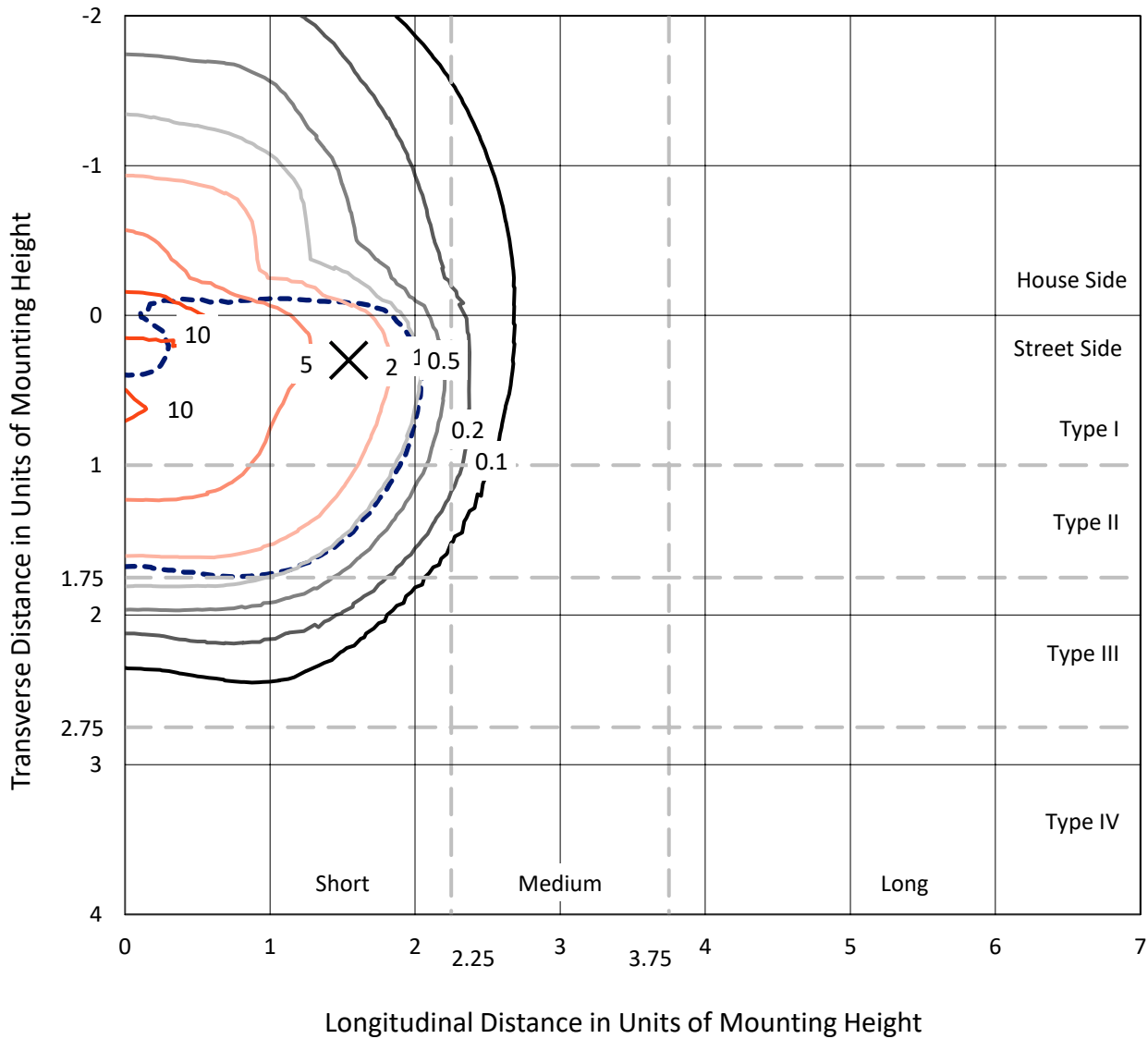
Lumens per Lamp: N/A  
Luminaire Lumens: 29421.7 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

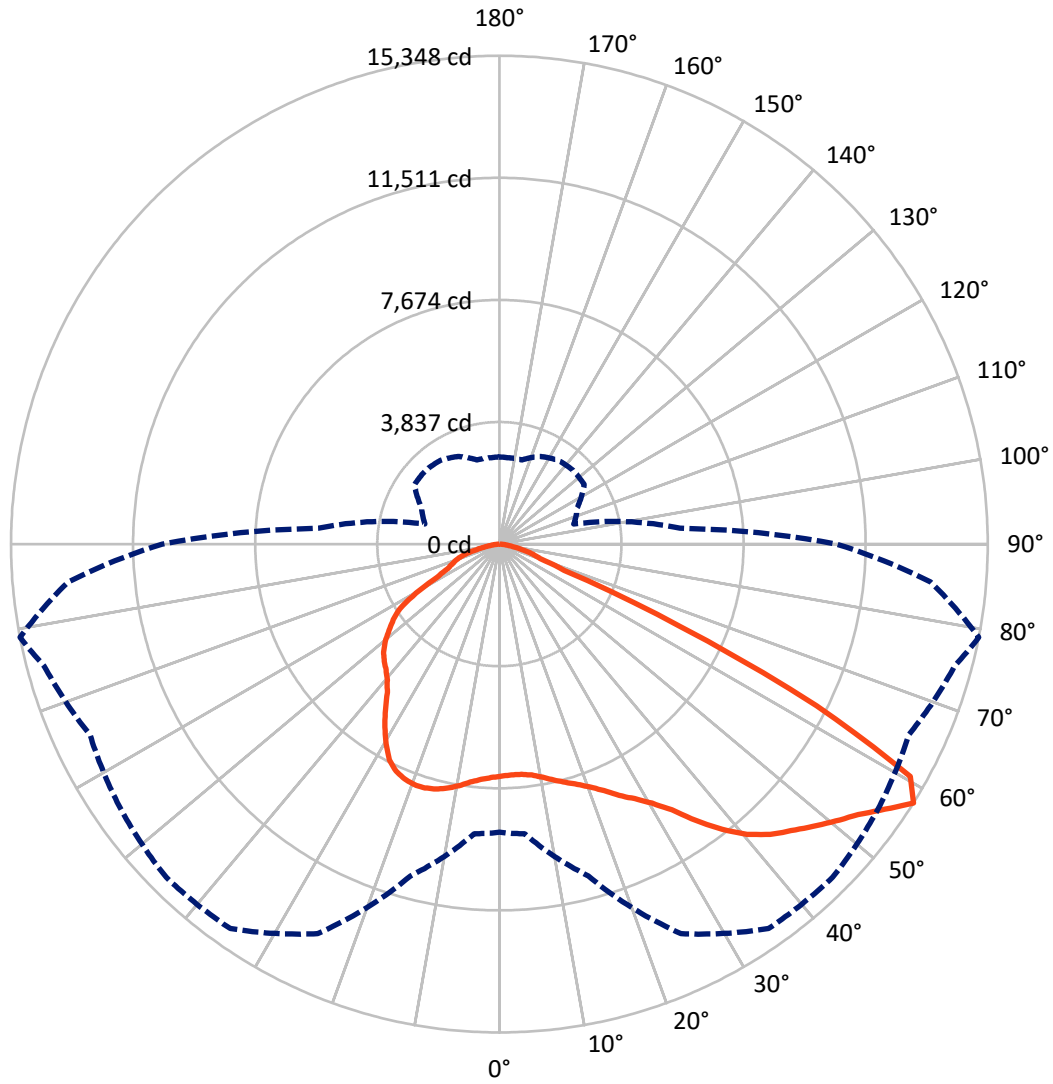
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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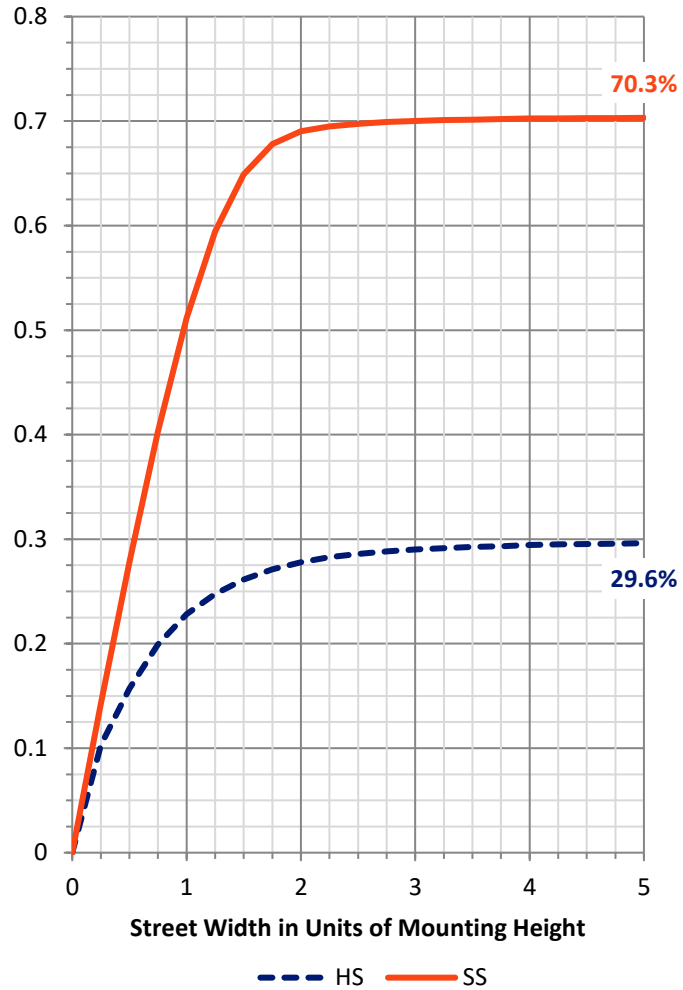
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8745.7	0.0	8745.7
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	20676.0	0.0	20676.0
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	29421.7	0.0	29421.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	675.2	2.3
10°-20°	1876.5	6.4
20°-30°	3180.8	10.8
30°-40°	4868.6	16.5
40°-50°	6491.8	22.1
50°-60°	7497.5	25.5
60°-70°	3895.9	13.2
70°-80°	828.2	2.8
80°-90°	107.3	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°	29421.7	100.0
0°-180°	29421.7	100.0

**Coefficient of Utilization**



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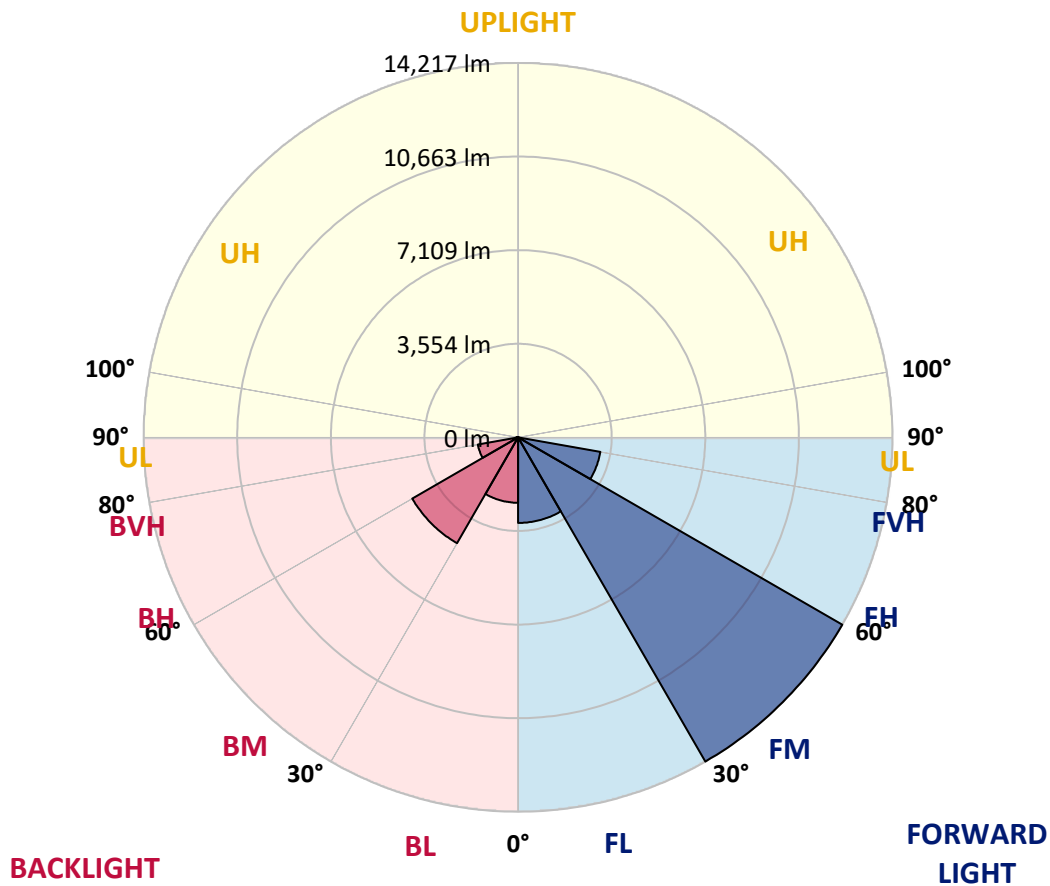
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3248.8	11.0			
FM (30°-60°)	14217.4	48.3			
FH (60°-80°)	3172.4	10.8			G2/5000
FVH (80°-90°)	37.4	0.1			G1/100
BL (0°-30°)	2483.7	8.4	B3/2500		
BM (30°-60°)	4640.4	15.8	B3/5000		
BH (60°-80°)	1551.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	69.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4
2.5°	6959.4	6945.0	6949.8	6969.0	7041.2	7094.1	7149.4	7200.0	7248.1	7262.5	7274.5
5°	6711.6	6685.2	6692.4	6723.7	6807.9	6896.9	6995.5	7115.8	7231.2	7269.7	7320.2
7.5°	6536.0	6531.2	6543.2	6591.3	6680.4	6764.6	6892.0	7062.8	7262.5	7327.5	7416.5
10°	6302.7	6293.1	6341.2	6439.8	6586.5	6721.2	6872.8	7074.9	7353.9	7450.1	7587.3
12.5°	6117.4	6112.6	6163.2	6300.3	6487.9	6702.0	6911.3	7137.4	7476.6	7608.9	7777.3
15°	6225.7	6204.0	6206.5	6302.7	6471.1	6723.7	7007.5	7250.5	7599.3	7767.7	7984.2
17.5°	6540.8	6502.3	6473.5	6490.3	6586.5	6848.7	7154.3	7402.0	7741.2	7938.5	8203.1
20°	6976.2	6954.6	6875.2	6822.3	6843.9	7074.9	7385.2	7616.1	7926.5	8147.8	8431.6
22.5°	7560.8	7507.9	7399.6	7315.4	7250.5	7430.9	7717.2	7916.8	8183.9	8414.8	8710.7
25°	8284.9	8207.9	8037.1	7904.8	7765.3	7950.5	8205.5	8357.1	8537.5	8751.6	9033.0
27.5°	9023.4	8958.5	8768.4	8590.4	8417.2	8532.7	8835.8	8922.4	8903.1	9059.5	9300.1
30°	9810.0	9728.3	9547.8	9355.4	9131.7	9206.2	9478.1	9521.4	9316.9	9446.8	9610.4
32.5°	10640.0	10560.6	10404.2	10180.5	9927.9	9956.8	10031.4	10072.3	9877.4	9952.0	10077.1
35°	11484.3	11409.8	11251.0	11029.7	10844.5	10668.8	10481.2	10644.8	10531.7	10676.1	10666.4
37.5°	12256.5	12182.0	12083.3	11912.5	11595.0	11248.6	10815.6	11017.7	11193.3	11376.1	11344.8
40°	12778.6	12728.0	12752.1	12725.6	12316.7	11631.1	10979.2	11200.5	11679.2	11991.9	11975.1
42.5°	13228.4	13177.9	13317.4	13418.4	12937.3	11984.7	11058.5	11270.2	11989.5	12477.9	12453.8
45°	13428.1	13413.6	13644.6	13964.5	13505.0	12360.0	11263.0	11414.6	12225.3	12850.7	12759.3
47.5°	13189.9	13240.4	13695.1	14236.3	13976.5	12805.0	11681.6	11720.1	12533.2	13254.9	12997.5
50°	12716.0	12826.7	13440.1	14243.6	14320.5	13307.8	12261.3	12165.1	12946.9	13685.5	13122.6
52.5°	12025.6	12141.1	13141.8	14188.2	14517.8	13889.9	13033.5	12896.4	13469.0	14116.1	13144.2
55°	10440.3	10596.7	12458.6	14063.1	14710.3	14419.2	13904.4	13625.3	14142.5	14707.8	13358.3
57.5°	9057.1	9138.9	10793.9	13507.5	14748.7	14808.9	14525.0	14193.0	14811.3	15347.7	13598.9
60°	6646.7	6665.9	8155.0	11176.4	13567.6	14582.8	14474.5	13981.4	14493.7	14835.3	12497.1
62.5°	3755.1	3757.5	4945.9	7459.8	10134.8	11886.1	11953.4	11518.0	11087.4	11188.5	8698.7
65°	1409.7	1542.0	2258.9	3666.1	5843.2	7017.1	7296.2	7397.2	6680.4	6235.3	4664.5
67.5°	943.0	974.3	1318.3	1886.0	2600.5	3002.2	3358.2	3367.8	2463.3	2196.3	1837.9
70°	719.3	750.5	1036.8	1349.5	1318.3	1217.2	1315.9	1279.8	1323.1	1359.2	1397.7
72.5°	536.4	567.7	803.5	952.6	791.4	779.4	882.9	981.5	1072.9	1111.4	1171.5
75°	356.0	380.1	541.3	510.0	437.8	517.2	644.7	743.3	796.3	842.0	887.7
77.5°	226.1	243.0	288.7	233.3	243.0	303.1	375.3	464.3	514.8	560.5	584.6
80°	103.4	101.0	98.6	110.7	137.1	178.0	226.1	279.0	317.5	336.8	351.2
82.5°	40.9	45.7	50.5	60.1	74.6	96.2	127.5	163.6	194.9	199.7	211.7
85°	16.8	19.2	21.7	26.5	33.7	43.3	52.9	74.6	93.8	101.0	108.3
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	7.2	12.0	21.7	24.1	26.5
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°	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4	7291.4
2.5°	7339.5	7308.2	7361.1	7397.2	7430.9	7394.8	7382.8	7351.5	7346.7	7346.7	7363.5
5°	7406.8	7385.2	7440.5	7462.2	7459.8	7380.4	7332.3	7269.7	7238.5	7238.5	7243.3
7.5°	7527.1	7515.1	7546.4	7512.7	7435.7	7274.5	7115.8	6983.5	6894.5	6848.7	6863.2
10°	7726.8	7712.4	7685.9	7560.8	7339.5	7005.1	6680.4	6439.8	6295.5	6213.7	6218.5
12.5°	7921.6	7897.6	7803.8	7527.1	7072.5	6540.8	6115.0	5845.6	5686.8	5590.6	5569.0
15°	8135.7	8073.2	7871.1	7353.9	6637.1	5973.1	5528.1	5237.0	5066.2	5008.5	5006.1
17.5°	8340.2	8229.6	7863.9	7046.0	6115.0	5378.9	4931.5	4751.1	4722.2	4748.7	4755.9
20°	8547.1	8369.1	7784.5	6620.2	5494.4	4787.1	4556.2	4630.8	4739.0	4811.2	4828.0
22.5°	8761.2	8484.6	7604.1	6071.7	4840.1	4387.8	4484.0	4647.6	4782.3	4878.6	4888.2
25°	9001.8	8592.8	7334.7	5400.6	4315.6	4277.2	4467.2	4640.4	4784.7	4895.4	4914.6
27.5°	9138.9	8595.2	6957.0	4710.2	4075.1	4233.9	4426.3	4589.9	4734.2	4854.5	4876.2
30°	9273.6	8530.3	6358.0	4149.7	4005.3	4183.3	4356.5	4508.1	4645.2	4763.1	4789.6
32.5°	9463.6	8470.1	5667.6	3827.3	3964.4	4135.2	4277.2	4411.9	4517.7	4570.6	4585.1
35°	9699.4	8393.1	4933.9	3687.8	3938.0	4096.7	4221.8	4294.0	4156.9	4128.0	4159.3
37.5°	10029.0	8321.0	4202.6	3627.6	3921.1	4082.3	4193.0	4007.7	3839.3	3772.0	3796.0
40°	10385.0	8280.1	3707.0	3579.5	3928.3	4096.7	4072.7	3798.4	3555.5	3413.5	3408.7
42.5°	10688.1	8217.5	3389.5	3548.3	3947.6	4152.1	3909.1	3613.2	3252.4	3168.2	3170.6
45°	10892.6	8058.8	3221.1	3514.6	3964.4	4164.1	3832.1	3358.2	3100.8	3047.9	3045.5
47.5°	10976.8	7770.1	3112.8	3461.7	3962.0	4065.5	3675.8	3252.4	2995.0	2980.5	2990.2
50°	10921.4	7296.2	3002.2	3358.2	3904.3	3962.0	3495.3	3158.6	2922.8	3002.2	3059.9
52.5°	10717.0	6682.8	2869.9	3216.3	3800.9	3844.2	3403.9	3100.8	2869.9	2975.7	3021.4
55°	10664.0	6184.8	2701.5	3031.1	3646.9	3634.9	3307.7	3072.0	2833.8	2792.9	2800.1
57.5°	10594.3	5698.9	2422.4	2699.1	3257.2	3276.4	3216.3	3038.3	2740.0	2728.0	2740.0
60°	9203.8	4368.6	2160.2	2328.6	2675.0	2778.5	3112.8	2975.7	2588.4	2537.9	2535.5
62.5°	6011.6	2646.2	1922.1	2030.3	2179.5	2299.8	2838.6	2795.3	2422.4	2391.2	2412.8
65°	3233.1	1886.0	1748.9	1813.8	1895.6	1987.0	2352.7	2489.8	2189.1	2078.4	2080.8
67.5°	1652.6	1604.5	1619.0	1664.7	1727.2	1772.9	1898.0	2018.3	1866.7	1772.9	1770.5
70°	1414.5	1453.0	1474.6	1501.1	1542.0	1534.8	1546.8	1568.5	1556.4	1510.7	1508.3
72.5°	1205.2	1265.3	1270.2	1275.0	1289.4	1255.7	1234.1	1198.0	1200.4	1207.6	1210.0
75°	916.5	974.3	988.7	981.5	995.9	952.6	923.8	887.7	844.4	837.1	842.0
77.5°	596.6	642.3	663.9	659.1	666.4	632.7	618.2	579.7	529.2	510.0	510.0
80°	360.8	387.3	404.1	409.0	416.2	392.1	368.1	334.4	312.7	291.1	291.1
82.5°	218.9	235.7	247.8	247.8	255.0	228.5	209.3	185.2	175.6	156.4	156.4
85°	110.7	122.7	127.5	125.1	120.3	98.6	91.4	79.4	74.6	65.0	65.0
87.5°	26.5	33.7	33.7	24.1	24.1	12.0	7.2	2.4	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)