

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: P641308

Luminaire Tested: GWS-SA5F-750-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-750-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43403.4 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
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

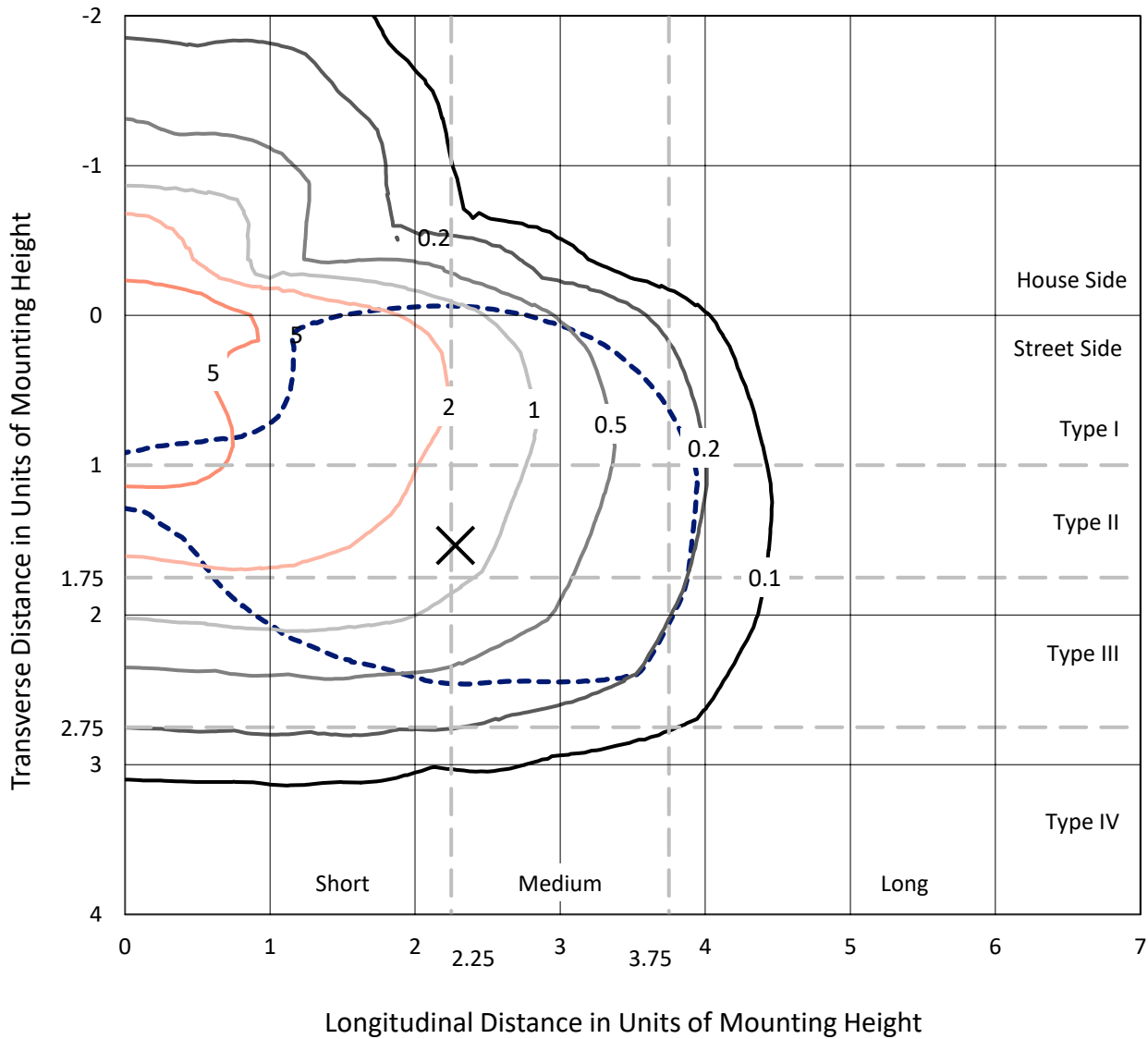


REPORT NUMBER: P641308

CATALOG NUMBER: GWS-SA5F-750-U-T3R-W

### Iso-Footcandle Lines of Horizontal Illumination

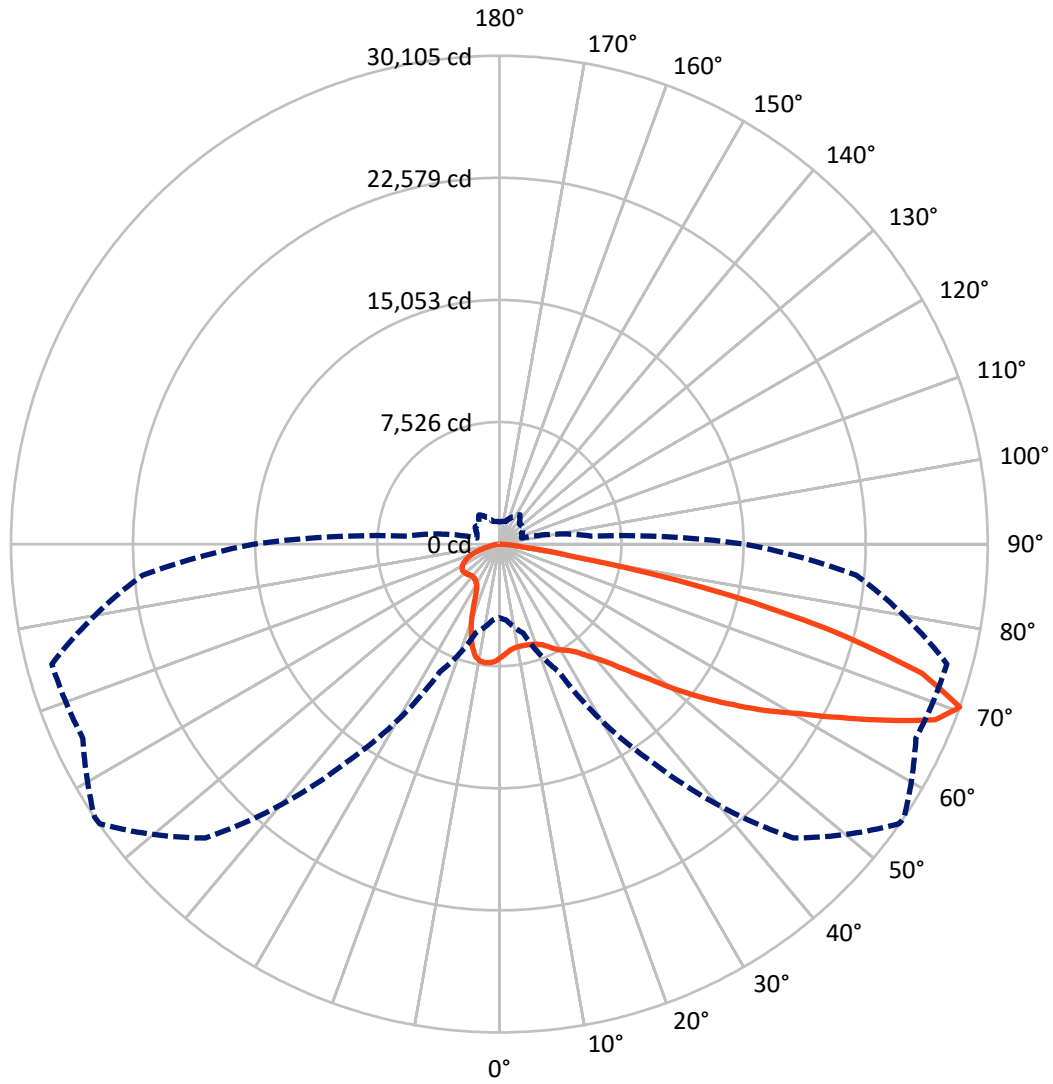
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P641308  
CATALOG NUMBER: GWS-SA5F-750-U-T3R-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P641308

CATALOG NUMBER: GWS-SA5F-750-U-T3R-W

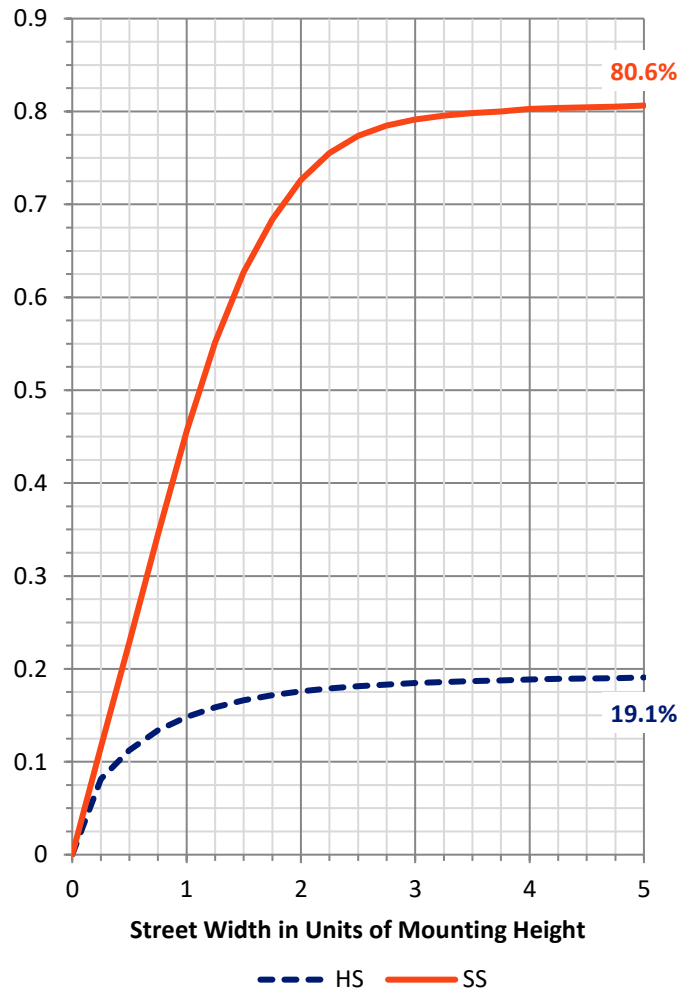
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8344.4	0.0	8344.4
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	35059.0	0.0	35059.0
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	43403.4	0.0	43403.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	648.3	1.5
10°-20°	1756.7	4.0
20°-30°	2904.2	6.7
30°-40°	4342.2	10.0
40°-50°	6461.8	14.9
50°-60°	9186.8	21.2
60°-70°	11378.2	26.2
70°-80°	6282.7	14.5
80°-90°	442.5	1.0
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°	43403.4	100.0
0°-180°	43403.4	100.0

**Coefficient of Utilization**



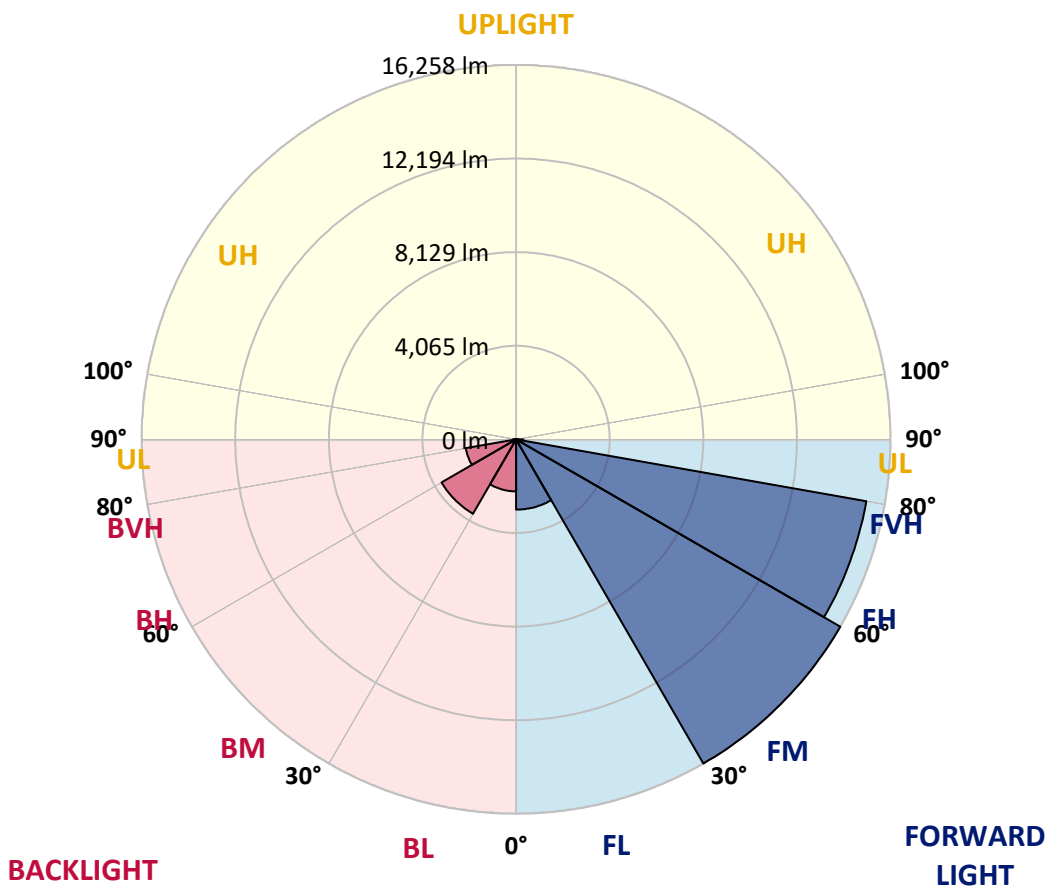
REPORT NUMBER: P641308

CATALOG NUMBER: GWS-SA5F-750-U-T3R-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.3	7.0			
FM (30°-60°)	16258.3	37.5			
FH (60°-80°)	15443.0	35.6			G5
FVH (80°-90°)	307.5	0.7			G3/500
BL (0°-30°)	2258.9	5.2	B3/2500		
BM (30°-60°)	3732.6	8.6	B3/5000		
BH (60°-80°)	2217.9	5.1	B3/2500		G3/2500
BVH (80°-90°)	135.0	0.3			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 III Medium





REPORT NUMBER: P641308  
 CATALOG NUMBER: GWS-SA5F-750-U-T3R-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0
2.5°	6556.1	6519.3	6562.2	6583.6	6638.7	6718.3	6788.7	6791.7	6828.5	6917.2	7002.9
5°	6259.2	6240.8	6253.0	6317.3	6375.5	6476.5	6583.6	6592.8	6696.8	6871.3	7042.7
7.5°	6029.6	6005.1	6051.0	6133.7	6207.1	6320.4	6461.2	6473.4	6620.3	6883.5	7146.8
10°	5699.1	5680.7	5766.4	5876.6	6035.7	6222.4	6409.1	6424.4	6617.3	6963.1	7330.4
12.5°	5555.2	5555.2	5591.9	5696.0	5870.5	6118.4	6400.0	6424.4	6666.2	7085.6	7566.1
15°	5778.6	5793.9	5763.3	5757.2	5827.6	6063.3	6412.2	6448.9	6758.1	7211.0	7798.7
17.5°	6228.6	6243.9	6164.3	6038.8	5968.4	6115.3	6458.1	6497.9	6856.0	7348.8	8049.7
20°	6859.1	6877.4	6703.0	6510.1	6268.3	6265.3	6546.9	6583.6	6981.5	7498.8	8316.0
22.5°	7596.7	7608.9	7388.6	7082.5	6712.1	6543.8	6699.9	6736.6	7143.7	7706.9	8603.7
25°	8450.6	8487.4	8221.1	7777.3	7275.3	6926.4	6953.9	6996.8	7434.5	7985.4	8943.4
27.5°	9362.7	9408.6	9102.6	8612.9	7921.1	7348.8	7281.4	7318.2	7743.6	8156.8	9124.0
30°	10296.2	10329.9	10023.8	9463.7	8615.9	7826.2	7556.9	7578.3	7878.3	8239.4	9307.6
32.5°	11333.8	11306.3	11012.5	10366.6	9417.8	8398.6	7814.0	7807.9	8028.3	8404.7	9570.9
35°	12307.1	12346.9	12034.7	11321.6	10299.3	9105.6	8199.7	8175.2	8346.6	8674.1	9941.2
37.5°	13485.5	13473.3	13099.9	12328.6	11183.9	9782.0	8741.4	8698.6	8759.8	9093.4	10458.5
40°	14327.2	14412.9	14171.1	13451.8	12218.4	10614.6	9375.0	9280.1	9295.4	9610.6	11150.2
42.5°	15015.9	15095.4	15119.9	14660.8	13402.9	11643.0	10164.6	10069.8	10078.9	10525.8	12001.1
45°	15545.4	15652.5	15998.4	15863.7	14737.3	12830.5	11232.8	11134.9	11141.0	11636.8	13029.5
47.5°	15762.7	15879.0	16579.9	16901.3	16154.5	14250.7	12561.2	12417.3	12438.7	12986.6	14204.8
50°	15692.3	15848.4	16797.2	17700.1	17342.0	15695.3	14149.7	14048.7	13966.0	14761.8	15481.1
52.5°	15086.3	15257.7	16775.8	18208.2	18312.3	17060.4	15790.2	15732.1	15713.7	16647.2	16907.4
55°	13301.9	13589.6	16038.1	18342.9	19071.3	18345.9	17568.5	17470.6	17565.4	18667.3	18349.0
57.5°	12313.3	12527.5	14593.5	18192.9	19692.6	19570.2	19343.7	19352.9	19460.0	20861.8	20096.7
60°	11750.1	12001.1	13791.6	17782.8	20289.5	21057.7	21201.6	21201.6	21394.4	23227.8	21871.9
62.5°	11003.3	11257.3	13041.7	16993.1	20840.4	22808.4	23536.9	23527.7	23604.2	25765.1	23607.3
65°	9488.2	9723.9	11535.8	15747.4	21109.8	24736.7	26190.5	26163.0	26010.0	28023.9	24755.1
67.5°	6889.7	7113.1	8836.3	13378.4	20139.5	26291.5	28923.8	28936.0	28020.8	29447.1	24816.3
70°	4542.1	4695.1	5680.7	8689.4	16377.9	25621.2	30068.5	30105.2	28330.0	28559.5	22086.1
72.5°	2834.2	2941.3	3547.4	5181.8	9678.0	20280.3	27130.2	27231.2	25486.6	25097.9	18147.0
75°	1882.3	1955.8	2359.8	3020.9	4477.8	10975.7	20623.1	20947.5	20427.2	19674.3	12643.8
77.5°	1132.5	1193.7	1502.8	1919.1	1983.3	4288.1	12037.8	12876.4	12949.9	10271.8	5295.0
80°	517.3	587.7	829.5	1095.7	1055.9	1493.6	4245.2	4441.1	5239.9	3262.7	1671.2
82.5°	306.1	336.7	550.9	544.8	449.9	725.4	1527.3	1567.1	1331.4	1193.7	713.1
85°	122.4	143.9	232.6	205.1	165.3	235.7	575.4	603.0	578.5	520.3	263.2
87.5°	0.0	0.0	0.0	0.0	3.1	6.1	52.0	55.1	79.6	143.9	79.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P641308  
 CATALOG NUMBER: GWS-SA5F-750-U-T3R-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0	7006.0
2.5°	7058.0	7039.6	7131.5	7201.9	7232.5	7263.1	7235.5	7226.3	7226.3	7165.1	7134.5
5°	7134.5	7143.7	7269.2	7327.4	7327.4	7302.9	7229.4	7177.4	7159.0	7079.4	7058.0
7.5°	7278.4	7318.2	7434.5	7431.4	7345.7	7211.0	7027.4	6886.6	6758.1	6703.0	6669.3
10°	7514.1	7566.1	7645.7	7517.1	7278.4	6923.3	6534.6	6228.6	6044.9	5898.0	5898.0
12.5°	7783.4	7832.4	7817.1	7520.2	7027.4	6363.2	5803.1	5451.1	5194.0	5059.4	5059.4
15°	8052.7	8092.5	7927.3	7379.4	6504.0	5619.5	5007.3	4585.0	4361.5	4236.0	4236.0
17.5°	8325.1	8322.1	7973.2	7054.9	5821.5	4796.1	4196.2	3868.7	3792.2	3770.8	3767.7
20°	8588.4	8518.0	7915.0	6513.2	5028.8	3966.7	3587.2	3608.6	3721.8	3770.8	3776.9
22.5°	8885.3	8710.8	7743.6	5821.5	4128.9	3391.3	3415.8	3593.3	3758.6	3832.0	3841.2
25°	9188.3	8876.1	7455.9	5010.4	3376.0	3180.1	3369.8	3568.8	3755.5	3850.4	3859.6
27.5°	9310.7	8876.1	6966.2	4070.8	2975.0	3091.3	3299.5	3492.3	3688.2	3798.3	3819.8
30°	9411.7	8799.6	6280.6	3222.9	2809.7	3005.6	3186.2	3363.7	3556.6	3691.2	3715.7
32.5°	9552.5	8732.2	5451.1	2708.7	2733.2	2923.0	3048.5	3198.4	3372.9	3461.7	3452.5
35°	9717.8	8628.2	4450.3	2463.9	2668.9	2852.6	2941.3	3030.1	2950.5	2947.5	2956.7
37.5°	9953.4	8536.3	3578.0	2353.7	2626.1	2803.6	2877.1	2687.3	2577.1	2531.2	2512.8
40°	10293.2	8499.6	2822.0	2289.4	2620.0	2800.6	2748.5	2454.7	2304.7	2145.6	2142.5
42.5°	10721.7	8472.1	2332.3	2258.8	2641.4	2871.0	2571.0	2301.7	1992.5	1922.1	1916.0
45°	11272.6	8429.2	2087.4	2252.7	2693.4	2926.0	2552.6	2090.5	1879.3	1848.7	1848.7
47.5°	11936.8	8361.9	1977.2	2252.7	2751.6	2901.6	2497.5	2044.6	1827.2	1860.9	1882.3
50°	12698.9	8276.2	1919.1	2246.6	2809.7	2901.6	2381.2	2035.4	1815.0	1989.5	2059.9
52.5°	13513.1	8178.2	1879.3	2222.1	2849.5	2904.6	2387.4	2066.0	1827.2	2020.1	2078.2
55°	14412.9	8162.9	1824.2	2170.0	2861.8	2825.0	2402.7	2133.3	1845.6	1830.3	1833.4
57.5°	15548.4	8346.6	1784.4	2093.5	2812.8	2662.8	2433.3	2182.3	1824.2	1827.2	1848.7
60°	16736.0	8692.4	1818.1	2020.1	2711.8	2509.8	2454.7	2157.8	1720.1	1671.2	1677.3
62.5°	17746.0	8955.7	1845.6	1986.4	2564.9	2375.1	2433.3	2102.7	1662.0	1649.7	1677.3
65°	18168.4	8738.3	1778.3	1916.0	2350.6	2209.8	2387.4	2032.3	1613.0	1567.1	1570.1
67.5°	17700.1	7719.1	1646.7	1759.9	2108.8	1998.6	2313.9	1940.5	1545.7	1490.6	1478.3
70°	15119.9	5671.5	1420.2	1512.0	1815.0	1750.7	2200.7	1821.1	1438.5	1398.7	1371.2
72.5°	12184.7	4015.7	1178.4	1202.9	1423.2	1475.3	2004.8	1671.2	1316.1	1202.9	1163.1
75°	8481.2	2522.0	982.5	958.0	1028.4	1126.3	1564.0	1386.5	1135.5	1016.2	979.4
77.5°	3648.4	1294.7	768.2	756.0	685.6	780.5	1199.8	1157.0	951.9	814.2	792.7
80°	1221.2	749.9	554.0	532.6	456.0	547.9	844.8	924.3	746.8	603.0	566.2
82.5°	612.1	434.6	352.0	318.3	306.1	345.9	498.9	575.4	517.3	416.3	352.0
85°	300.0	247.9	192.8	189.8	159.2	150.0	208.1	244.9	232.6	171.4	162.2
87.5°	110.2	97.9	61.2	49.0	30.6	21.4	12.2	12.2	9.2	9.2	9.2
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)