

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: P641187

Luminaire Tested: GWS-SA5F-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-735-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27595.7 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

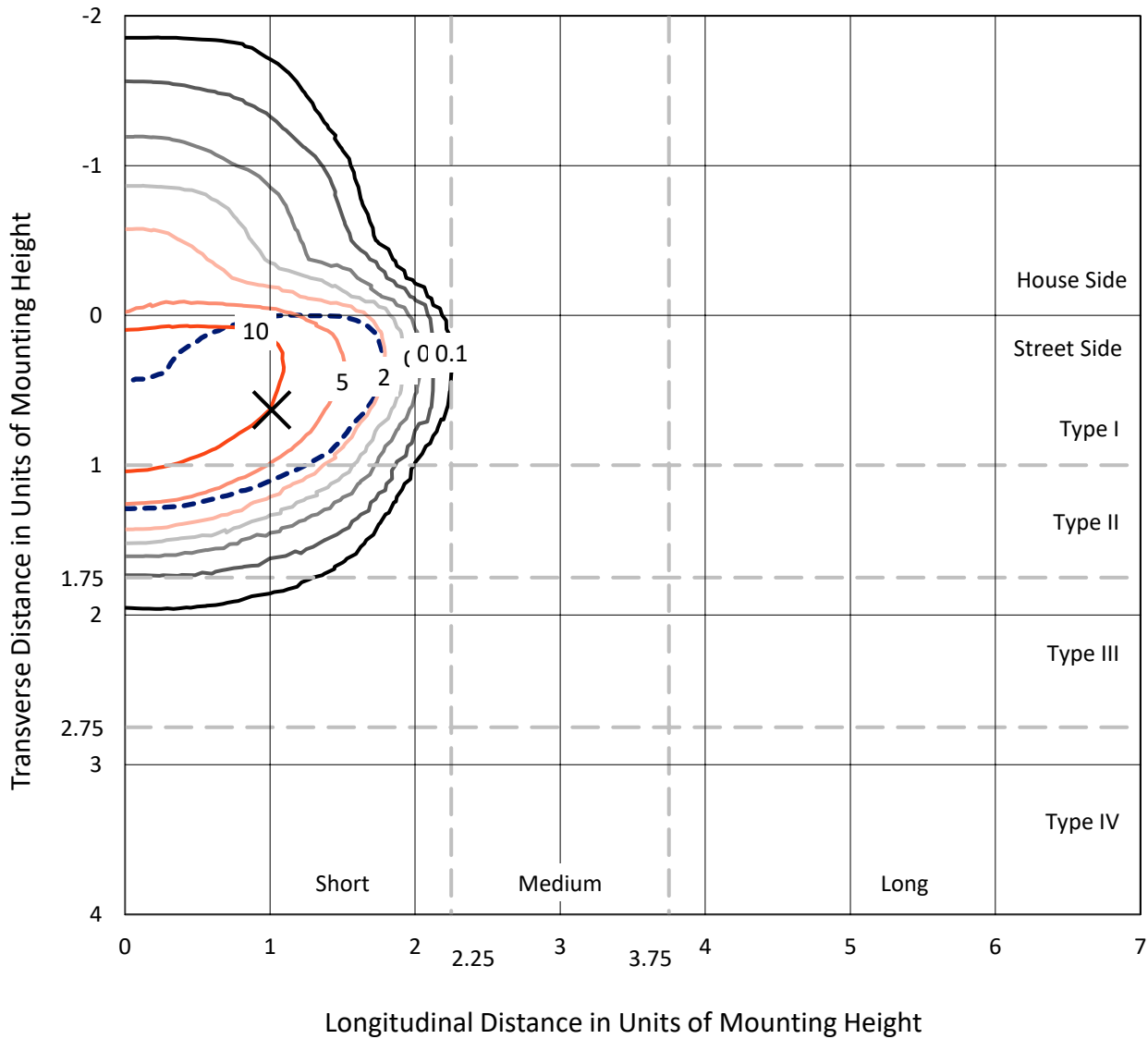
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P641187  
 CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

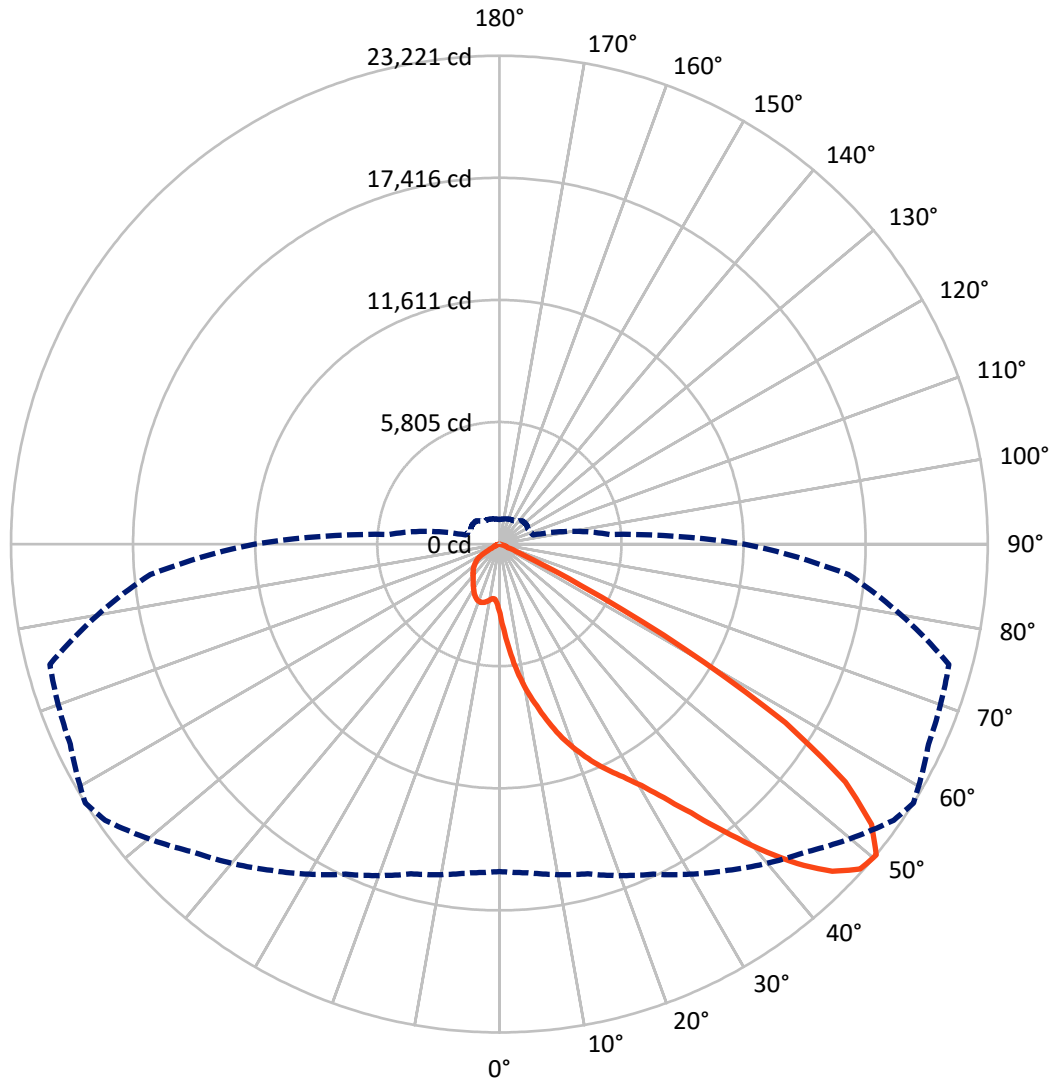
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P641187  
CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P641187  
 CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-GRSBK

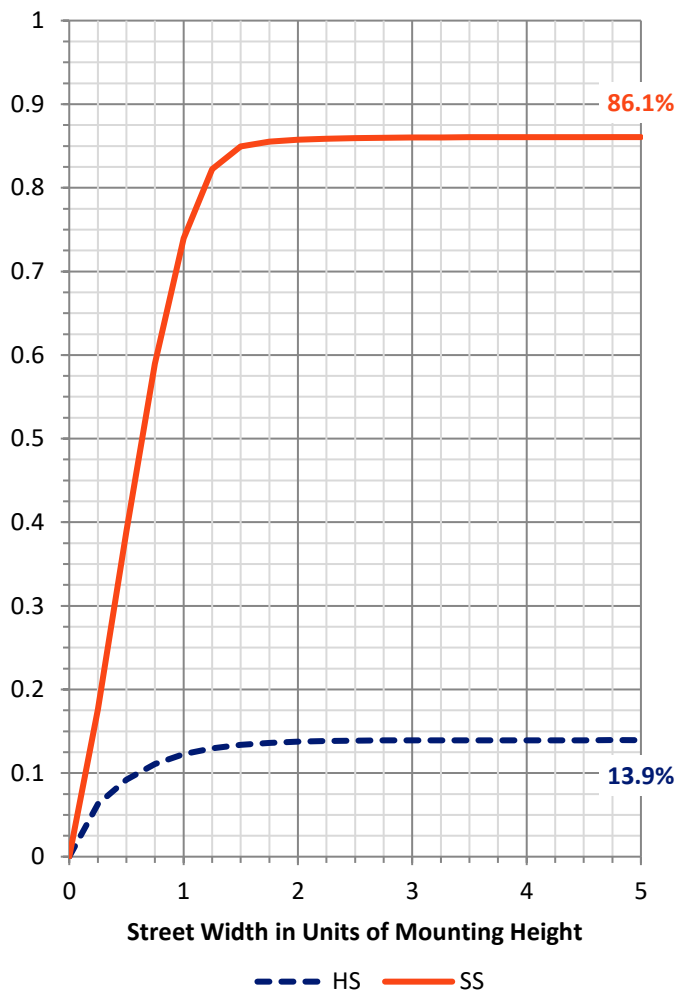
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3865.2	0.0	3865.2
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	23730.5	0.0	23730.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	27595.7	0.0	27595.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.4	1.5
10°-20°	1616.6	5.9
20°-30°	3271.2	11.9
30°-40°	5787.1	21.0
40°-50°	8436.3	30.6
50°-60°	6761.9	24.5
60°-70°	1218.2	4.4
70°-80°	96.0	0.3
80°-90°	0.1	0.0
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°	27595.7	100.0
0°-180°	27595.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641187

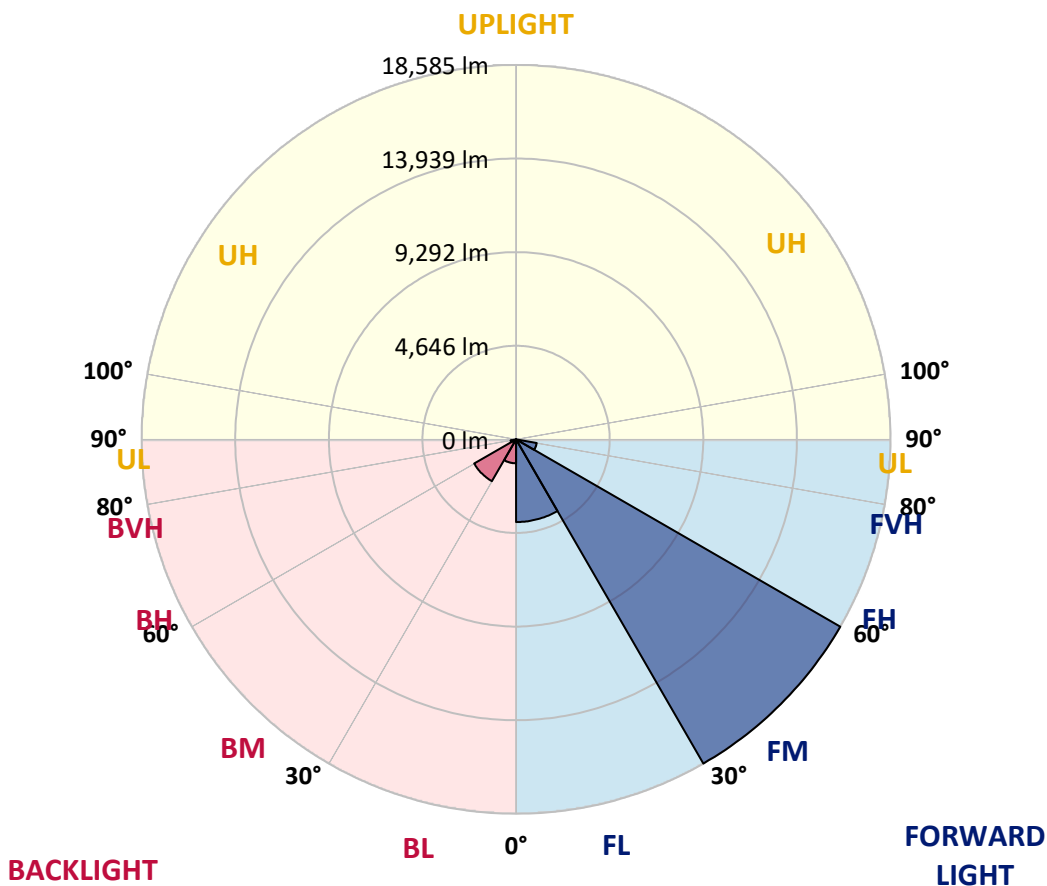
CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4106.2	14.9			
FM (30°-60°)	18584.9	67.3			
FH (60°-80°)	1039.5	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1189.9	4.3	B3/2500		
BM (30°-60°)	2400.4	8.7	B2/2500		
BH (60°-80°)	274.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





REPORT NUMBER: P641187

CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3
2.5°	4878.0	4801.3	4757.0	4721.6	4565.2	4317.3	4155.0	4069.4	3927.8	3688.7	3482.2
5°	6365.3	6309.2	6205.9	6135.1	5934.4	5583.3	5220.3	5075.7	4754.0	4214.0	3730.1
7.5°	7350.9	7309.6	7271.2	7176.8	6988.0	6669.2	6267.9	6117.4	5621.6	4854.4	4060.6
10°	8109.3	8076.9	8032.6	8029.7	7882.1	7595.9	7203.4	7047.0	6509.9	5550.8	4450.1
12.5°	8776.3	8749.7	8740.8	8823.5	8729.0	8516.6	8091.6	7896.9	7327.3	6262.0	4880.9
15°	9233.7	9227.8	9266.1	9428.4	9481.5	9384.2	9027.1	8817.6	8162.4	6976.1	5356.1
17.5°	9443.2	9460.9	9534.7	9815.0	10051.1	10133.7	9859.3	9682.2	8991.7	7699.1	5863.6
20°	9800.2	9794.3	9838.6	10104.2	10393.4	10688.5	10605.9	10455.4	9829.8	8463.4	6427.3
22.5°	10806.5	10721.0	10626.5	10667.8	10771.1	11116.4	11269.8	11193.1	10694.4	9248.4	7008.6
25°	12352.9	12264.3	11960.4	11665.3	11470.5	11626.9	11836.4	11874.8	11553.1	10054.0	7616.5
27.5°	13993.6	13913.9	13571.6	13129.0	12571.2	12299.7	12456.1	12532.9	12397.1	11013.1	8262.8
30°	15531.1	15424.8	15050.1	14501.2	13854.9	13438.8	13261.8	13314.9	13394.6	12149.2	9021.2
32.5°	16864.9	16785.2	16336.7	15758.3	15135.6	14701.8	14288.7	14377.2	14572.0	13539.2	9992.1
35°	17995.2	17953.8	17478.7	16903.3	16245.2	16023.9	15669.8	15687.5	15882.2	15218.3	11175.4
37.5°	18977.8	18907.0	18476.2	17942.0	17419.7	17384.3	17286.9	17295.8	17396.1	17174.8	12535.8
40°	19597.5	19532.6	19225.7	18895.2	18523.4	18529.3	19033.9	19072.3	18957.2	19095.9	13973.0
42.5°	19830.7	19783.5	19618.2	19621.2	19582.8	19756.9	20704.2	20775.0	20361.9	20603.8	15200.6
45°	19426.4	19405.7	19417.5	19842.5	20302.8	20839.9	22070.5	22194.4	21610.1	21604.2	16159.6
47.5°	18122.0	18080.7	18426.0	19149.0	20214.3	21259.0	22896.8	23088.6	22483.6	22176.7	16761.6
50°	15566.5	15684.5	16230.5	17316.4	18936.5	20683.5	22887.9	23221.4	22516.1	22126.5	16661.3
52.5°	11275.7	11252.1	12447.3	13940.5	15911.8	18842.1	21672.1	22159.0	21728.2	21633.7	16437.0
55°	6135.1	6350.5	7156.2	9133.3	11594.5	15357.0	18895.2	19957.6	20456.3	21453.7	16841.3
57.5°	2254.6	2349.0	2853.6	4252.4	6138.1	9549.4	14433.3	16035.7	17576.1	20952.0	16773.4
60°	908.9	926.6	1127.3	1564.0	2579.2	4860.3	8658.2	10080.6	11532.5	16038.6	12872.2
62.5°	661.0	684.6	764.3	914.8	1304.3	2124.7	3733.0	4340.9	4745.2	7944.1	6341.7
65°	534.1	551.8	616.8	684.6	861.7	1142.0	1204.0	1159.7	1153.8	2053.9	1454.8
67.5°	442.6	460.4	507.6	554.8	619.7	569.5	413.1	433.8	354.1	351.2	286.2
70°	324.6	345.3	392.5	442.6	371.8	153.5	239.0	354.1	268.5	224.3	218.4
72.5°	244.9	259.7	304.0	289.2	109.2	59.0	159.4	256.7	206.6	165.3	162.3
75°	183.0	191.8	153.5	47.2	11.8	14.8	59.0	106.2	115.1	94.4	94.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	8.9	11.8	14.8	17.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P641187

CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3	3296.3
2.5°	3364.1	3240.2	3063.1	2915.6	2803.4	2694.3	2611.6	2529.0	2526.0	2484.7	2475.9
5°	3505.8	3281.5	2956.9	2723.8	2582.1	2496.5	2437.5	2408.0	2393.3	2378.5	2372.6
7.5°	3709.4	3387.7	2939.2	2691.3	2573.3	2517.2	2475.9	2458.2	2449.3	2437.5	2434.6
10°	3960.2	3541.2	3004.1	2753.3	2650.0	2596.9	2552.6	2526.0	2511.3	2490.6	2484.7
12.5°	4261.2	3730.1	3107.4	2856.6	2747.4	2676.6	2617.5	2579.2	2558.5	2532.0	2526.0
15°	4585.8	3933.7	3222.5	2951.0	2821.1	2729.7	2655.9	2596.9	2558.5	2526.0	2517.2
17.5°	4922.3	4140.2	3325.8	3015.9	2856.6	2747.4	2641.1	2561.5	2514.2	2472.9	2461.1
20°	5300.0	4352.7	3393.6	3027.7	2844.8	2700.2	2576.2	2475.9	2428.7	2372.6	2360.8
22.5°	5695.4	4550.4	3423.2	3001.2	2779.8	2611.6	2478.8	2375.5	2307.7	2248.7	2231.0
25°	6079.0	4727.5	3408.4	2927.4	2682.5	2487.7	2351.9	2245.7	2171.9	2112.9	2098.2
27.5°	6486.3	4875.0	3355.3	2818.2	2549.7	2351.9	2222.1	2130.6	2062.7	1997.8	1983.1
30°	6943.7	5010.8	3269.7	2685.4	2393.3	2213.2	2112.9	2050.9	1977.2	1909.3	1888.6
32.5°	7495.5	5131.8	3145.8	2526.0	2254.6	2092.3	2036.2	1989.0	1903.4	1832.6	1817.8
35°	8127.0	5232.1	2989.4	2360.8	2118.8	2015.5	2003.7	1941.8	1829.6	1747.0	1729.3
37.5°	8858.9	5329.5	2803.4	2198.5	2018.5	1980.1	1983.1	1876.8	1741.1	1640.8	1628.9
40°	9646.8	5426.9	2596.9	2056.8	1927.0	1959.5	1932.9	1782.4	1561.1	1463.7	1451.9
42.5°	10467.2	5533.1	2387.4	1924.0	1850.3	1879.8	1841.4	1593.5	1434.2	1384.0	1378.1
45°	11207.9	5660.0	2160.1	1791.3	1773.5	1764.7	1699.8	1443.0	1375.2	1339.8	1336.8
47.5°	11742.0	5639.3	1918.1	1664.4	1690.9	1661.4	1463.7	1372.2	1316.1	1268.9	1257.1
50°	11644.6	5279.3	1667.3	1522.7	1584.7	1558.1	1316.1	1289.6	1239.4	1189.3	1171.5
52.5°	11396.7	4789.5	1448.9	1372.2	1469.6	1407.6	1215.8	1189.3	1145.0	1080.1	1059.4
55°	11529.5	4329.1	1277.8	1251.2	1351.6	1165.6	1103.7	1062.4	1015.1	944.3	935.5
57.5°	11101.6	3532.3	1026.9	1044.7	1195.2	994.5	967.9	903.0	823.3	776.1	770.2
60°	7684.4	1897.5	643.3	664.0	864.6	835.1	867.6	808.6	711.2	666.9	658.1
62.5°	3529.4	761.4	351.2	336.4	454.5	566.6	743.7	737.7	616.8	545.9	540.0
65°	855.8	348.2	250.8	236.1	256.7	339.4	484.0	581.3	498.7	416.1	407.2
67.5°	277.4	283.3	230.2	215.4	227.2	253.8	289.2	321.7	318.7	292.1	286.2
70°	221.3	256.7	212.5	194.8	194.8	203.6	194.8	156.4	135.7	147.5	153.5
72.5°	165.3	194.8	168.2	150.5	144.6	141.6	121.0	88.5	62.0	56.1	53.1
75°	97.4	109.2	103.3	88.5	82.6	73.8	59.0	38.4	20.7	14.8	8.9
77.5°	17.7	20.7	23.6	17.7	14.8	11.8	8.9	3.0	0.0	0.0	0.0
80°	0.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)