

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: P638715

Luminaire Tested: GWS-SA4F-735-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-735-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

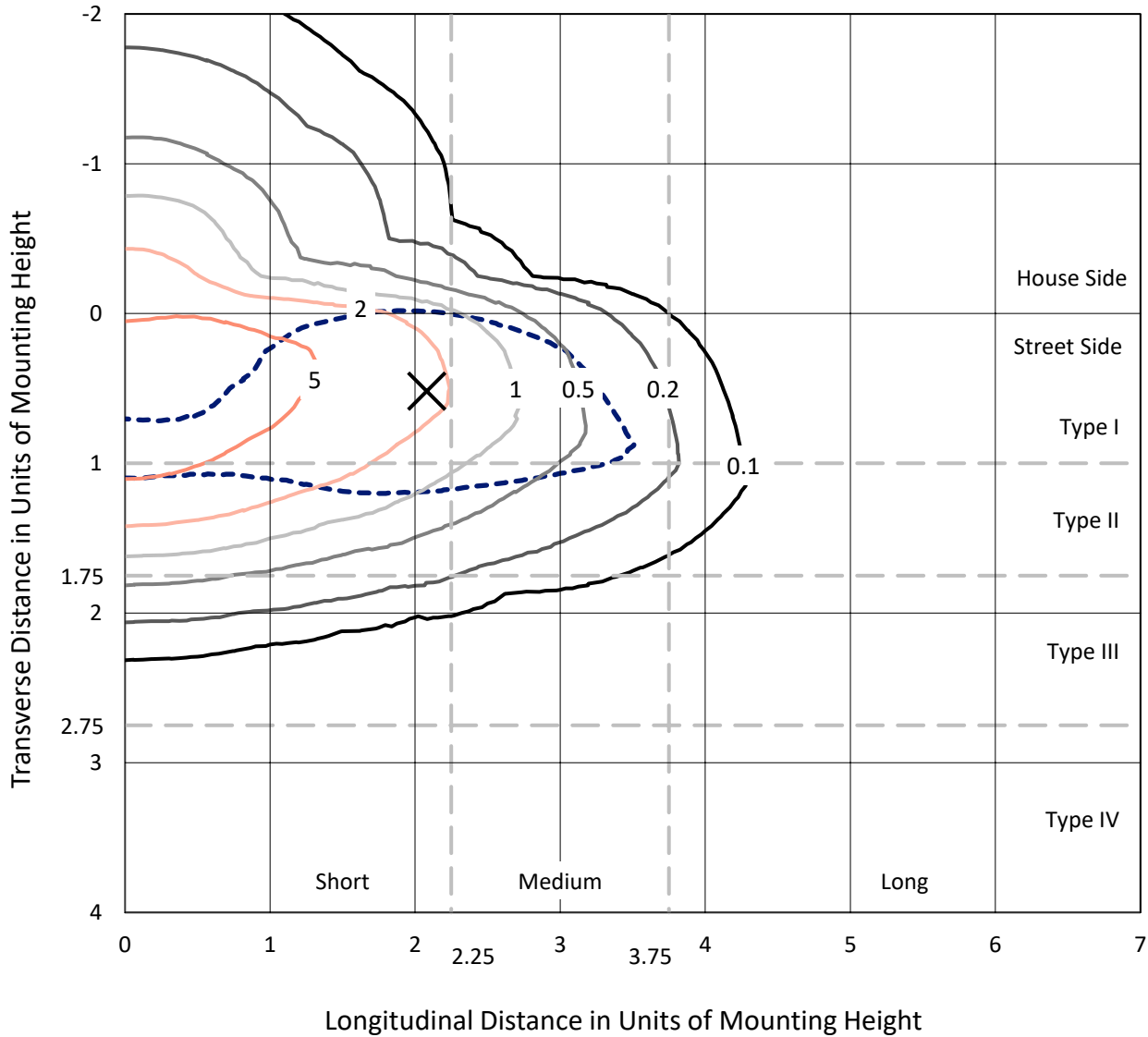
Lumens per Lamp: N/A  
Luminaire Lumens: 34218.6 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

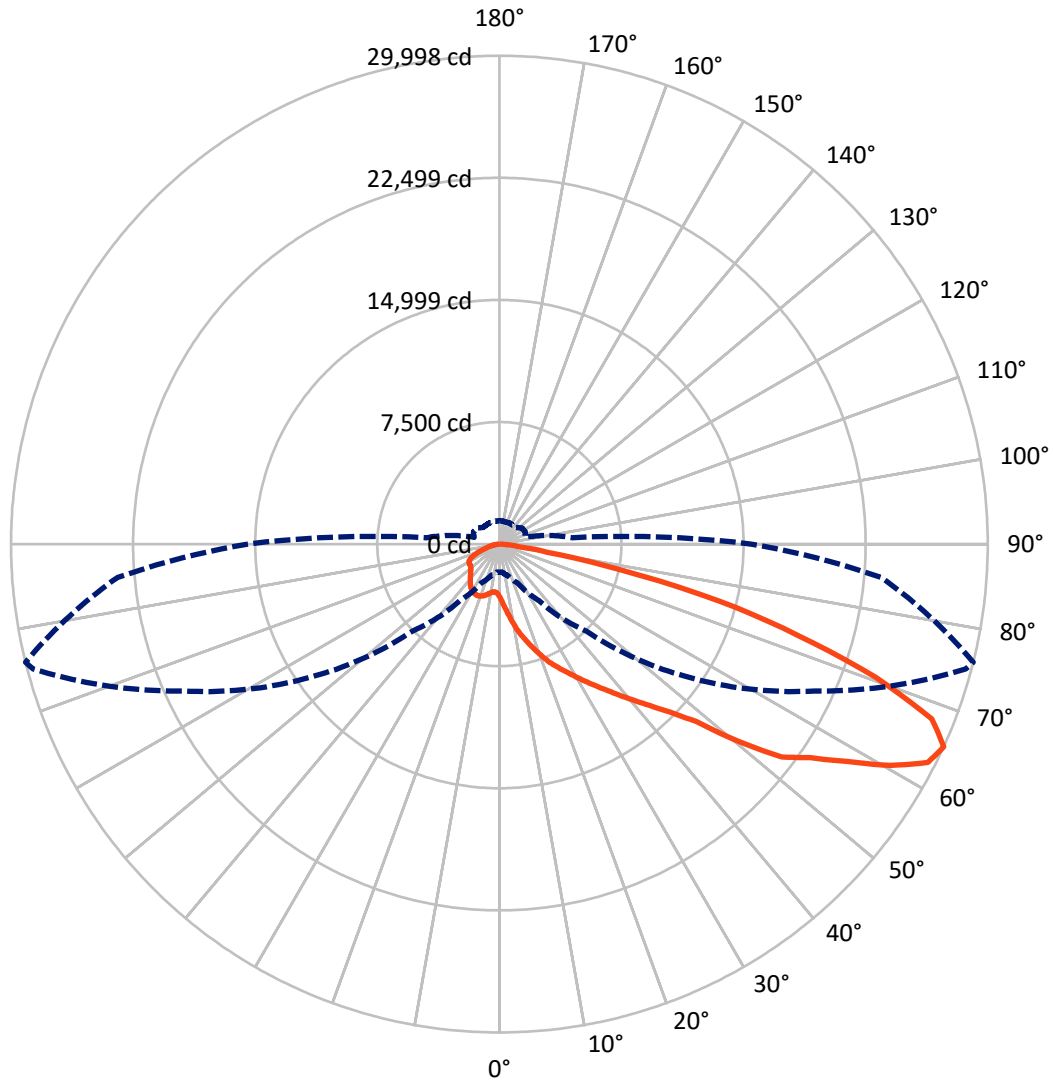
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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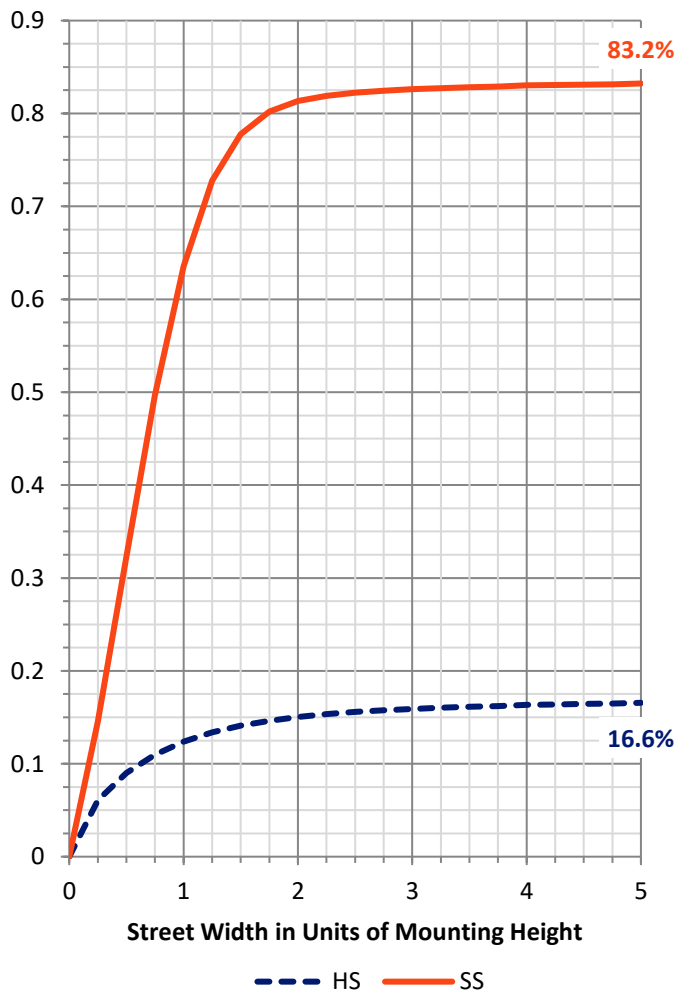
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5719.7	0.0	5719.7
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	28498.9	0.0	28498.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	34218.6	0.0	34218.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.0	1.1
10°-20°	1466.3	4.3
20°-30°	2857.7	8.4
30°-40°	4779.3	14.0
40°-50°	6843.0	20.0
50°-60°	8101.1	23.7
60°-70°	6736.2	19.7
70°-80°	2756.6	8.1
80°-90°	293.5	0.9
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°	34218.6	100.0
0°-180°	34218.6	100.0

**Coefficient of Utilization**



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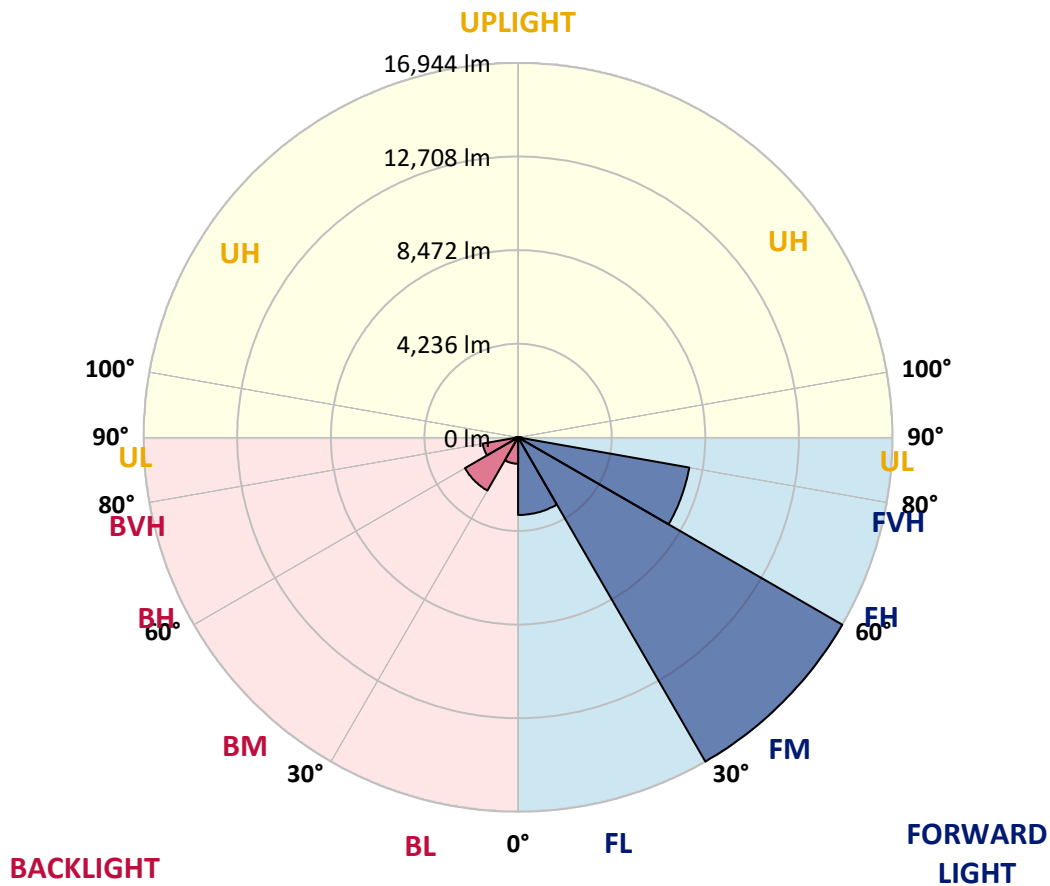
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3512.4	10.3			
FM (30°-60°)	16943.8	49.5			
FH (60°-80°)	7867.7	23.0			G4/12000
FVH (80°-90°)	175.0	0.5			G2/225
BL (0°-30°)	1196.6	3.5	B3/2500		
BM (30°-60°)	2779.6	8.1	B3/5000		
BH (60°-80°)	1625.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	118.5	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	4541.8	4558.7	4503.3	4484.1	4354.2	4178.6	4031.8	3810.5	3606.0	3574.8	3391.9
5°	5768.7	5696.5	5634.0	5593.1	5412.7	5213.0	4902.7	4486.5	4051.1	3998.1	3603.6
7.5°	6497.6	6485.6	6408.6	6384.5	6245.0	6045.3	5725.4	5208.2	4575.5	4488.9	3889.9
10°	7082.2	7074.9	7036.4	7058.1	6930.6	6735.7	6425.4	5891.4	5150.4	5063.8	4209.8
12.5°	7592.1	7604.2	7597.0	7676.3	7611.4	7459.8	7137.5	6550.5	5725.4	5631.6	4599.6
15°	7965.0	7974.6	8010.7	8183.9	8220.0	8188.7	7861.6	7197.6	6293.1	6158.4	5001.3
17.5°	8070.9	8090.1	8176.7	8455.8	8650.6	8780.5	8537.6	7856.8	6851.2	6704.5	5410.2
20°	8212.8	8234.4	8321.1	8612.1	8898.4	9194.3	9151.0	8525.5	7414.1	7293.9	5824.0
22.5°	8869.5	8852.7	8814.2	8953.7	9158.2	9526.3	9634.5	9167.8	7996.3	7880.8	6281.1
25°	10134.9	10103.6	9858.2	9730.7	9663.4	9887.1	10079.6	9752.4	8564.0	8390.8	6706.9
27.5°	11530.2	11513.3	11200.6	10897.5	10483.7	10387.5	10500.5	10262.4	9114.9	8939.3	7077.3
30°	12850.8	12800.3	12473.2	12093.1	11539.8	11126.0	10960.0	10762.8	9718.7	9535.9	7510.4
32.5°	14032.0	13967.1	13582.2	13161.2	12581.4	12093.1	11597.5	11294.4	10401.9	10190.2	7953.0
35°	15001.5	14936.5	14542.0	14094.5	13457.1	13096.2	12417.8	11871.8	11097.1	10883.0	8475.0
37.5°	15752.0	15691.9	15280.5	14840.3	14284.6	13998.3	13408.9	12521.3	11898.2	11674.5	9028.3
40°	16173.0	16129.7	15800.1	15451.3	14984.6	14736.8	14472.2	13341.6	12795.5	12571.8	9680.2
42.5°	16300.5	16271.6	16040.7	15860.3	15545.1	15357.5	15509.1	14306.2	13752.9	13558.1	10413.9
45°	15980.6	15980.6	15913.2	16004.6	16019.0	16016.6	16548.3	15396.0	14929.3	14715.2	11448.4
47.5°	15162.6	15215.6	15314.2	15764.1	16238.0	16634.9	17763.1	16849.0	16442.4	16266.8	12913.4
50°	13666.3	13810.7	14147.5	15025.5	16033.5	17043.8	18913.0	18997.2	19384.5	19074.2	15068.8
52.5°	11474.8	11453.2	12312.0	13562.9	15100.1	17060.7	19545.7	20892.8	21934.5	21720.4	16671.0
55°	9119.7	9083.6	9884.7	11609.5	13668.8	16416.0	19925.8	21761.3	23349.0	23156.5	18111.9
57.5°	6983.5	6937.8	7649.9	9206.3	11648.0	15047.2	19853.6	22795.7	25295.1	25196.5	20070.1
60°	4806.4	4751.1	5417.5	6779.0	9256.8	12954.3	19054.9	23327.3	27573.3	27606.9	22165.4
62.5°	2886.7	2855.5	3339.0	4395.1	6658.8	10361.0	17185.8	23005.0	29387.1	29538.7	23512.6
65°	1741.7	1720.0	2003.9	2622.1	4224.3	7560.9	14303.8	21357.1	29649.3	29998.1	23543.8
67.5°	1267.8	1270.2	1352.0	1597.3	2463.4	4883.4	10733.9	18403.0	28282.9	28643.8	22059.6
70°	1101.8	1106.6	1149.9	1205.2	1489.1	2795.3	6978.7	14527.6	24243.9	24522.9	18501.7
72.5°	979.1	979.1	1008.0	1036.8	1164.3	1703.2	3738.3	10154.1	19134.3	19208.9	14121.0
75°	861.2	854.0	868.4	882.9	1010.4	1190.8	1818.7	7074.9	14133.0	13959.8	9126.9
77.5°	685.6	678.4	680.8	695.2	810.7	851.6	921.4	4419.1	7965.0	7517.6	4031.8
80°	488.3	483.5	510.0	546.1	599.0	522.0	577.3	2138.6	3158.6	2939.7	1563.7
82.5°	291.1	300.7	341.6	370.5	413.8	327.2	372.9	714.5	1118.6	1089.7	635.1
85°	40.9	43.3	122.7	141.9	178.0	127.5	197.3	322.4	447.4	478.7	223.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	16.8	57.7	127.5	129.9	55.3
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°	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4	3240.4
2.5°	3298.1	3185.0	3023.9	2889.2	2776.1	2684.7	2607.7	2550.0	2533.1	2509.1	2509.1
5°	3418.4	3213.9	2925.2	2720.8	2602.9	2533.1	2485.0	2461.0	2448.9	2434.5	2427.3
7.5°	3584.4	3298.1	2908.4	2701.5	2610.1	2566.8	2535.5	2521.1	2511.5	2497.0	2497.0
10°	3812.9	3423.2	2961.3	2768.9	2696.7	2653.4	2617.3	2593.3	2571.6	2550.0	2545.1
12.5°	4060.7	3586.8	3057.5	2860.3	2783.3	2730.4	2679.9	2643.8	2617.3	2590.9	2583.6
15°	4334.9	3755.2	3161.0	2949.3	2853.1	2780.9	2720.8	2665.4	2629.3	2590.9	2586.0
17.5°	4604.4	3926.0	3247.6	3009.4	2886.7	2797.7	2711.1	2639.0	2593.3	2550.0	2537.9
20°	4926.7	4096.8	3307.7	3026.3	2879.5	2761.7	2658.2	2566.8	2516.3	2465.8	2458.5
22.5°	5222.6	4255.5	3336.6	3002.2	2824.2	2684.7	2564.4	2465.8	2410.4	2359.9	2350.3
25°	5508.9	4395.1	3324.6	2944.5	2740.0	2578.8	2453.7	2355.1	2302.2	2249.3	2234.8
27.5°	5785.5	4488.9	3276.5	2855.5	2634.2	2461.0	2340.7	2251.7	2206.0	2160.2	2141.0
30°	6057.4	4575.5	3201.9	2740.0	2499.4	2338.3	2239.6	2177.1	2131.4	2083.3	2068.8
32.5°	6331.6	4638.0	3088.8	2605.3	2362.3	2230.0	2169.9	2124.2	2076.1	2027.9	2013.5
35°	6608.2	4664.5	2951.7	2451.3	2246.9	2160.2	2138.6	2085.7	2020.7	1963.0	1943.7
37.5°	6937.8	4688.6	2780.9	2299.8	2145.8	2126.6	2121.8	2042.4	1965.4	1886.0	1864.4
40°	7334.7	4719.8	2605.3	2162.7	2064.0	2114.5	2095.3	1987.0	1833.1	1756.1	1732.0
42.5°	7820.7	4777.6	2422.5	2037.6	2003.9	2068.8	2047.2	1852.3	1748.9	1705.6	1693.6
45°	8535.2	4989.3	2239.6	1938.9	1958.2	2003.9	1970.2	1772.9	1732.0	1703.2	1688.7
47.5°	9807.7	5314.0	2080.9	1864.4	1922.1	1946.1	1816.2	1751.3	1720.0	1681.5	1664.7
50°	11130.8	5456.0	1953.4	1818.7	1881.2	1893.2	1732.0	1722.4	1700.8	1659.9	1643.0
52.5°	12025.7	5436.7	1876.4	1801.8	1847.5	1801.8	1693.6	1691.2	1676.7	1628.6	1609.4
55°	13036.1	5470.4	1842.7	1806.6	1833.1	1647.9	1645.4	1652.7	1645.4	1592.5	1582.9
57.5°	14400.1	5573.8	1825.9	1823.5	1823.5	1573.3	1599.7	1609.4	1594.9	1570.9	1563.7
60°	15711.1	5581.0	1794.6	1842.7	1816.2	1527.6	1546.8	1556.4	1539.6	1534.8	1532.4
62.5°	16204.3	5234.6	1724.8	1828.3	1787.4	1477.1	1491.5	1496.3	1479.5	1491.5	1489.1
65°	15470.6	4498.5	1609.4	1758.5	1698.4	1431.3	1421.7	1433.8	1404.9	1436.2	1438.6
67.5°	13736.1	3574.8	1433.8	1626.2	1573.3	1380.8	1361.6	1361.6	1313.5	1361.6	1359.2
70°	11075.5	2525.9	1176.3	1414.5	1436.2	1320.7	1311.1	1255.7	1178.8	1250.9	1243.7
72.5°	8395.6	1813.8	926.2	1118.6	1236.5	1236.5	1238.9	1145.1	1056.1	1089.7	1060.9
75°	5318.8	1277.4	740.9	856.4	969.5	1084.9	1140.3	967.1	887.7	873.2	858.8
77.5°	2396.0	839.6	577.3	656.7	688.0	856.4	1041.6	832.3	724.1	692.8	683.2
80°	1003.1	522.0	411.4	464.3	423.4	719.3	918.9	647.1	531.6	488.3	457.1
82.5°	440.2	310.3	262.2	250.2	264.6	534.0	685.6	430.6	332.0	449.9	454.7
85°	185.2	163.6	134.7	122.7	108.3	204.5	322.4	168.4	206.9	117.9	96.2
87.5°	43.3	48.1	36.1	24.1	14.4	2.4	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)