

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: P640179

Luminaire Tested: GWS-SA5D-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

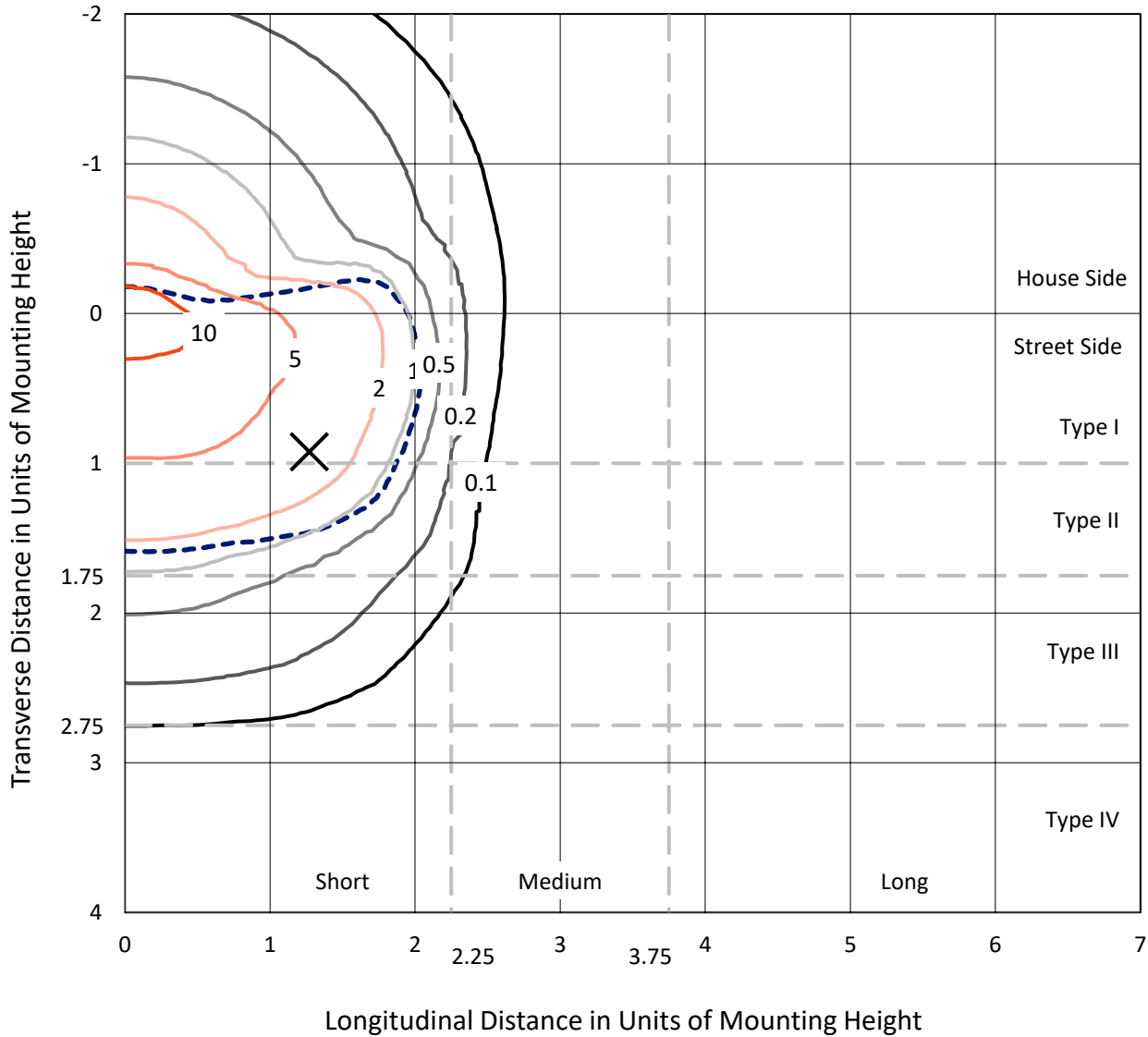
Lumens per Lamp: N/A  
Luminaire Lumens: 24812.9 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

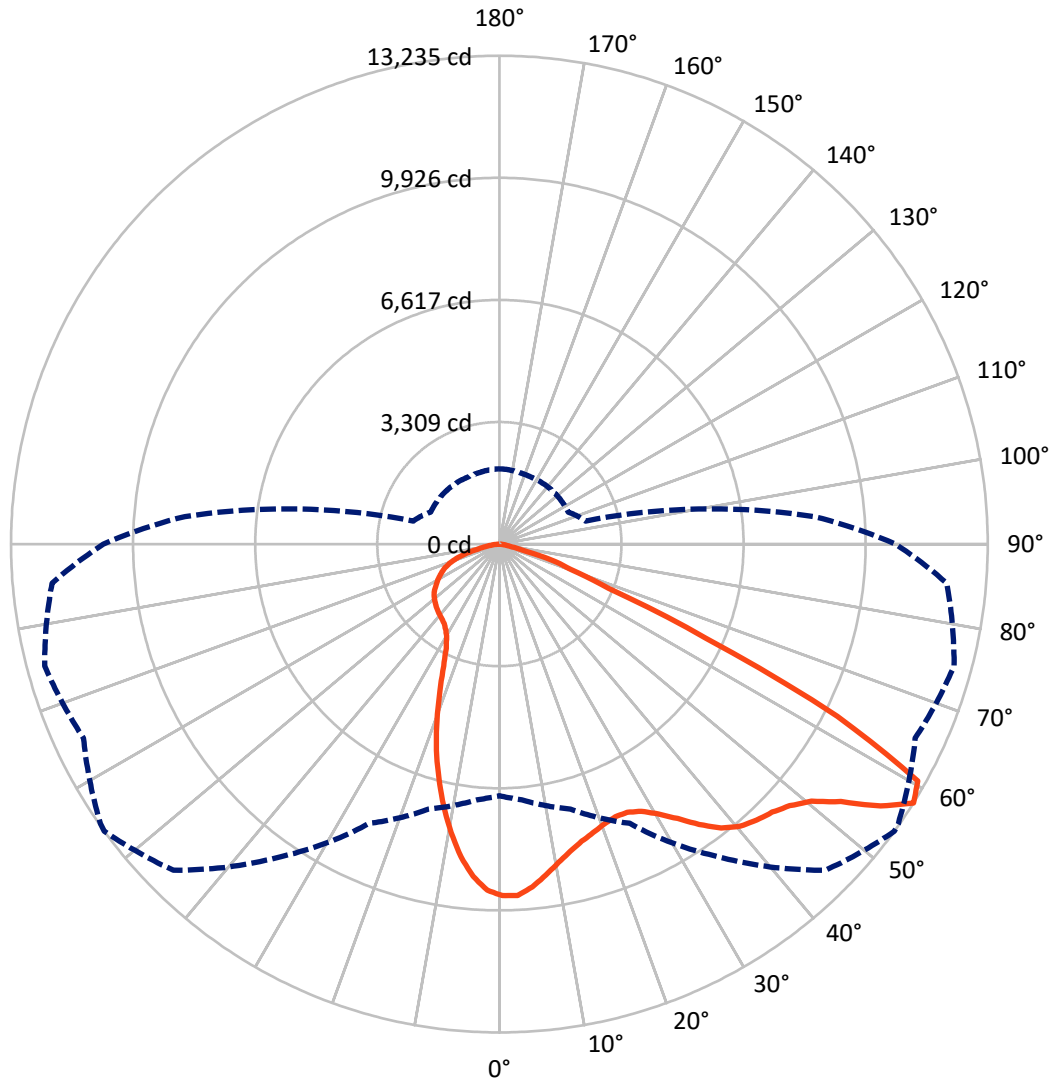
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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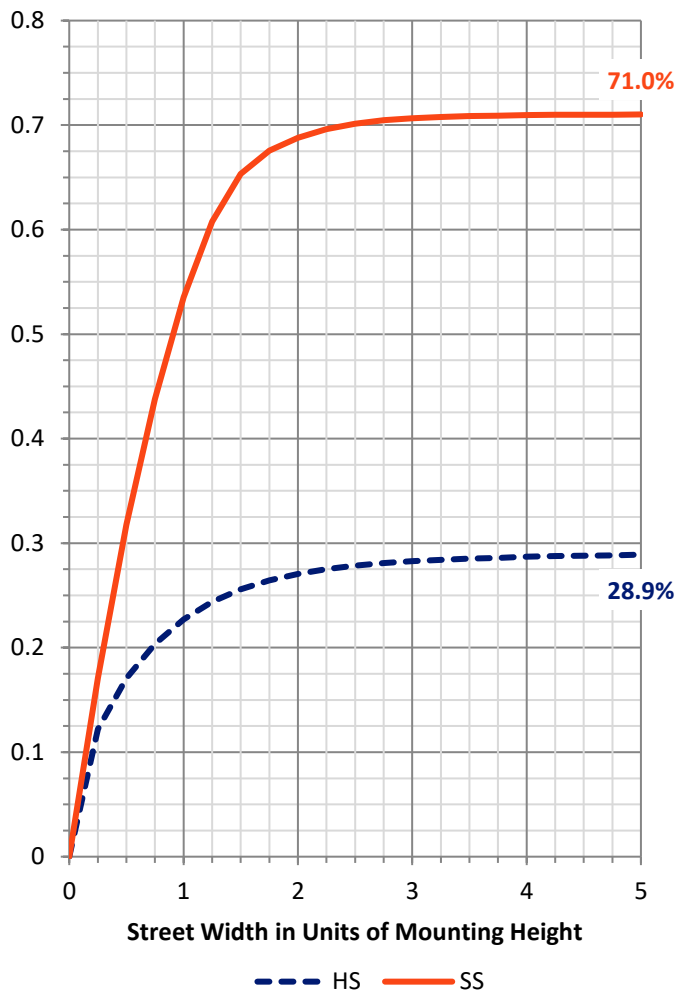
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7213.4	0.0	7213.4
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	17599.5	0.0	17599.5
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	24812.9	0.0	24812.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	837.3	3.4
10°-20°	1998.0	8.1
20°-30°	2764.9	11.1
30°-40°	3841.9	15.5
40°-50°	5074.0	20.4
50°-60°	6029.7	24.3
60°-70°	3340.5	13.5
70°-80°	831.9	3.4
80°-90°	94.6	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°	24812.9	100.0
0°-180°	24812.9	100.0

**Coefficient of Utilization**



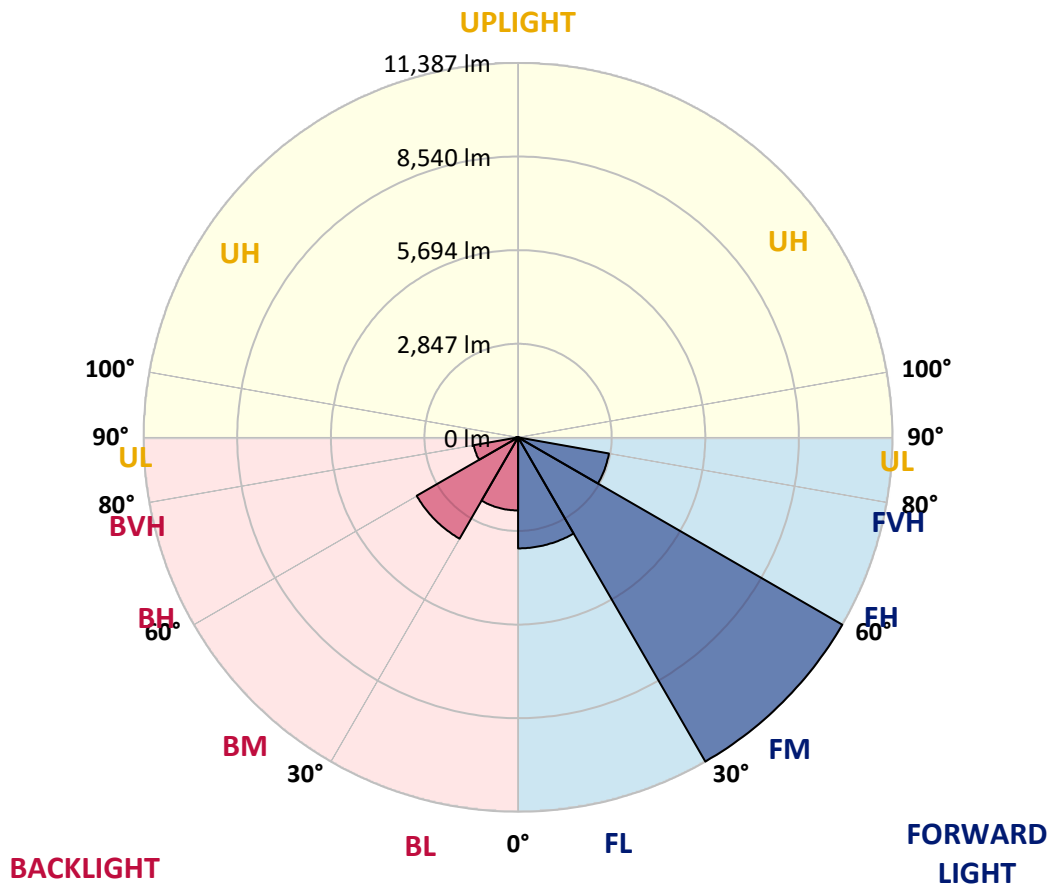
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3377.4	13.6			
FM (30°-60°)	11387.0	45.9			
FH (60°-80°)	2805.4	11.3			G2/5000
FVH (80°-90°)	29.6	0.1			G1/100
BL (0°-30°)	2222.9	9.0	B3/2500		
BM (30°-60°)	3558.5	14.3	B3/5000		
BH (60°-80°)	1367.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	65.0	0.3			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°	54°	55°	65°	75°	85°
0°	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2
2.5°	9347.8	9366.9	9379.7	9424.3	9462.5	9496.5	9532.6	9532.6	9530.5	9524.1	9511.4
5°	8978.2	8999.5	9029.2	9090.8	9173.6	9233.1	9330.8	9339.3	9381.8	9398.8	9390.3
7.5°	8549.2	8555.6	8593.8	8674.5	8806.2	8912.4	9052.6	9069.6	9171.5	9231.0	9220.4
10°	8079.8	8058.5	8126.5	8245.5	8417.5	8595.9	8776.5	8791.3	8954.9	9067.4	9059.0
12.5°	7650.7	7652.8	7720.8	7865.3	8079.8	8300.7	8542.8	8576.8	8778.6	8923.0	8908.1
15°	7291.8	7300.3	7383.1	7546.6	7790.9	8054.3	8355.9	8387.8	8642.6	8833.8	8791.3
17.5°	7005.0	7013.5	7085.7	7272.6	7533.9	7852.5	8220.0	8251.8	8568.3	8795.6	8708.5
20°	6807.5	6803.2	6873.3	7051.8	7321.5	7667.7	8101.0	8147.7	8544.9	8810.4	8653.3
22.5°	6726.8	6724.7	6775.6	6922.2	7174.9	7525.4	8028.8	8092.5	8570.4	8876.3	8619.3
25°	6767.1	6758.6	6803.2	6911.6	7113.3	7470.2	8050.0	8118.0	8678.8	9012.2	8625.7
27.5°	6892.4	6881.8	6920.1	7017.8	7170.7	7527.5	8198.7	8277.3	8908.1	9260.7	8710.6
30°	7083.6	7077.2	7115.5	7208.9	7342.7	7718.7	8483.3	8572.6	9262.9	9647.3	8895.4
32.5°	7306.6	7296.0	7364.0	7472.3	7627.4	8067.0	8865.7	8982.5	9683.4	10144.3	9205.5
35°	7557.3	7548.8	7642.2	7799.4	8022.4	8551.3	9328.7	9456.1	10112.5	10707.2	9617.6
37.5°	7801.5	7801.5	7982.1	8215.7	8496.1	9078.1	9764.1	9844.8	10409.8	11206.3	10059.4
40°	8018.2	8030.9	8302.8	8653.3	9010.1	9553.8	10050.9	10118.8	10541.5	11550.4	10443.8
42.5°	8258.2	8268.8	8585.3	9044.1	9468.9	9938.3	10225.0	10259.0	10567.0	11722.5	10715.7
45°	8449.4	8464.2	8857.2	9347.8	9868.2	10227.2	10363.1	10392.8	10603.1	11815.9	10913.2
47.5°	8549.2	8570.4	9020.7	9592.1	10138.0	10486.3	10590.4	10603.1	10751.8	11979.5	11151.1
50°	8532.2	8574.7	9082.3	9713.1	10337.6	10747.5	10955.7	10976.9	11055.5	12219.5	11429.4
52.5°	8683.0	8702.1	9214.0	9857.6	10622.2	11229.7	11590.8	11620.5	11584.4	12400.0	11595.0
55°	8432.4	8523.7	9050.5	9836.3	11055.5	11975.2	12531.7	12516.9	12064.4	12601.8	11871.2
57.5°	6820.2	6954.0	7436.2	8349.5	10341.9	12497.7	13234.8	13198.7	12436.1	12756.9	12170.6
60°	4721.7	4742.9	5178.4	5826.2	7982.1	11040.7	13028.7	13107.3	12504.1	12561.5	11616.3
62.5°	3776.5	3770.1	3810.5	3827.5	5076.4	7761.2	10284.5	10571.3	10388.6	9787.5	8232.7
65°	3224.3	3247.6	3366.6	3305.0	3313.5	4371.2	6144.8	6185.2	6057.7	5841.1	4354.2
67.5°	2523.3	2563.7	2774.0	3014.0	2937.5	2814.3	3188.2	3169.0	2497.8	1932.9	1597.3
70°	1580.3	1605.8	1830.9	2366.2	2557.3	2310.9	2049.7	2041.2	1338.1	1100.2	1206.4
72.5°	921.8	926.1	989.8	1319.0	1697.1	1580.3	1508.1	1452.8	860.2	877.2	962.2
75°	507.6	507.6	505.5	569.2	669.1	592.6	573.5	558.6	575.6	652.1	715.8
77.5°	106.2	108.3	114.7	150.8	195.4	237.9	299.5	301.6	376.0	435.4	486.4
80°	48.9	51.0	63.7	80.7	104.1	138.1	182.7	184.8	227.3	274.0	308.0
82.5°	25.5	27.6	34.0	42.5	55.2	72.2	102.0	102.0	135.9	161.4	182.7
85°	8.5	8.5	12.7	17.0	23.4	29.7	40.4	40.4	59.5	78.6	91.3
87.5°	0.0	0.0	0.0	0.0	2.1	4.2	8.5	8.5	10.6	12.7	21.2
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°	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2	9526.2
2.5°	9483.8	9417.9	9420.0	9432.8	9392.4	9330.8	9290.5	9239.5	9207.6	9201.3	9224.6
5°	9347.8	9271.4	9218.3	9163.0	9048.3	8912.4	8806.2	8719.1	8661.8	8640.5	8615.0
7.5°	9160.9	9061.1	8927.3	8772.2	8564.1	8321.9	8152.0	7992.7	7882.2	7850.4	7835.5
10°	8974.0	8829.6	8591.7	8302.8	7956.6	7629.5	7321.5	7085.7	6898.8	6792.6	6826.6
12.5°	8780.7	8602.3	8230.6	7786.7	7304.5	6811.7	6408.2	6017.4	5715.7	5564.9	5520.3
15°	8610.8	8368.6	7850.4	7249.3	6607.8	5987.6	5403.5	4817.3	4435.0	4226.8	4169.5
17.5°	8466.3	8152.0	7448.9	6701.3	5934.5	5050.9	4333.0	3789.3	3528.0	3413.3	3404.8
20°	8324.0	7939.6	7051.8	6110.8	5157.1	4167.3	3525.9	3271.0	3177.5	3137.2	3135.1
22.5°	8196.6	7716.6	6633.3	5520.3	4384.0	3502.5	3149.9	3039.5	3014.0	3014.0	3009.7
25°	8088.3	7493.5	6204.3	4893.7	3685.2	3118.1	2954.5	2907.8	2918.4	2937.5	2939.6
27.5°	8043.7	7319.4	5790.1	4250.2	3203.0	2895.0	2820.7	2814.3	2844.1	2873.8	2878.0
30°	8090.4	7200.4	5365.3	3634.2	2914.2	2759.1	2725.1	2737.9	2774.0	2803.7	2803.7
32.5°	8234.8	7141.0	4932.0	3183.9	2746.4	2663.5	2652.9	2665.6	2693.3	2710.3	2712.4
35°	8479.1	7164.3	4483.8	2880.2	2638.0	2593.4	2591.3	2599.8	2610.4	2621.0	2623.2
37.5°	8787.1	7268.4	4003.8	2703.9	2567.9	2542.5	2538.2	2536.1	2538.2	2538.2	2540.3
40°	9088.7	7425.6	3574.7	2599.8	2519.1	2497.8	2487.2	2472.4	2470.2	2466.0	2463.9
42.5°	9311.7	7546.6	3232.8	2525.5	2474.5	2449.0	2436.3	2412.9	2410.8	2408.6	2406.5
45°	9479.5	7648.6	2948.1	2453.2	2427.8	2404.4	2376.8	2355.5	2359.8	2364.0	2364.0
47.5°	9668.5	7737.8	2740.0	2385.3	2370.4	2347.0	2313.1	2298.2	2313.1	2327.9	2327.9
50°	9897.9	7863.1	2570.1	2317.3	2310.9	2283.3	2253.6	2247.2	2264.2	2285.4	2285.4
52.5°	10065.7	7971.5	2449.0	2249.3	2249.3	2213.2	2187.7	2185.6	2204.7	2226.0	2228.1
55°	10380.1	8224.2	2406.5	2170.7	2162.3	2134.6	2115.5	2100.7	2124.0	2143.1	2143.1
57.5°	10734.8	8559.8	2417.1	2058.2	2047.6	2039.1	2024.2	2007.2	2013.6	2034.8	2036.9
60°	9982.9	7909.9	2300.3	1945.6	1939.2	1935.0	1915.9	1886.1	1894.6	1911.6	1913.7
62.5°	6973.2	5257.0	1860.6	1805.4	1826.7	1824.5	1799.0	1765.1	1767.2	1790.6	1790.6
65°	3619.3	2844.1	1633.4	1678.0	1709.8	1697.1	1654.6	1624.9	1620.6	1650.4	1644.0
67.5°	1561.2	1552.7	1486.8	1544.2	1578.1	1550.5	1505.9	1457.1	1461.3	1471.9	1463.5
70°	1257.4	1295.7	1323.3	1384.9	1412.5	1361.5	1312.6	1285.0	1261.7	1259.5	1244.7
72.5°	1004.7	1057.8	1119.4	1183.1	1191.6	1140.6	1079.0	1053.5	1017.4	1015.3	1000.4
75°	756.2	800.8	849.6	900.6	900.6	851.7	811.4	798.6	756.2	743.4	730.7
77.5°	516.1	543.7	582.0	594.7	607.5	588.4	548.0	526.8	477.9	465.2	448.2
80°	325.0	344.1	367.5	376.0	388.7	365.3	333.5	310.1	276.1	265.5	257.0
82.5°	195.4	208.2	223.0	227.3	237.9	220.9	191.2	174.2	155.1	146.6	140.2
85°	99.8	106.2	114.7	116.8	114.7	97.7	87.1	78.6	65.8	63.7	59.5
87.5°	25.5	29.7	31.9	29.7	27.6	21.2	14.9	10.6	4.2	4.2	2.1
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)