

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: P638749

Luminaire Tested: GWS-SA4F-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638749  
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-SA4F-740-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

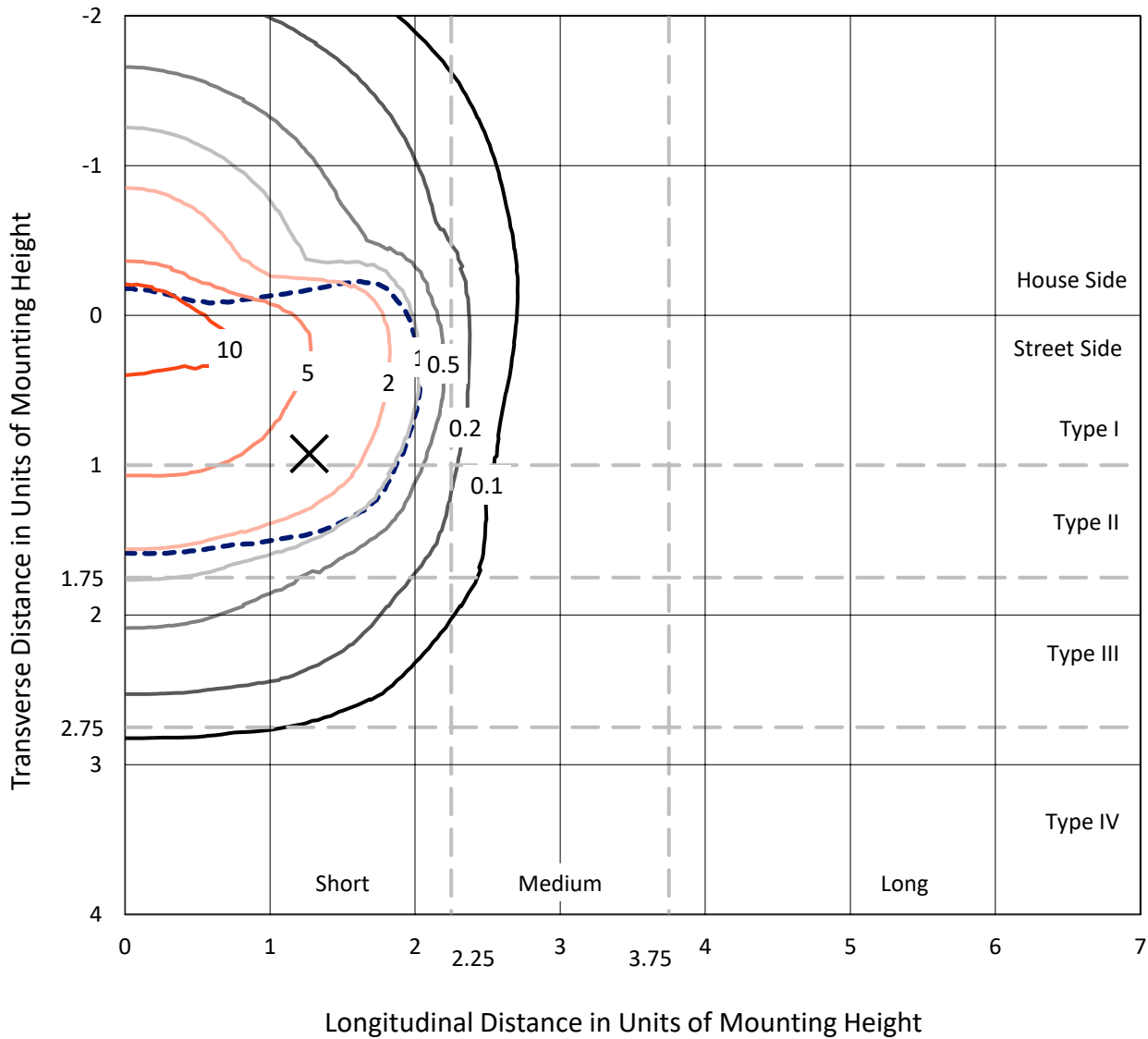
Lumens per Lamp: N/A  
Luminaire Lumens: 28493.8 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

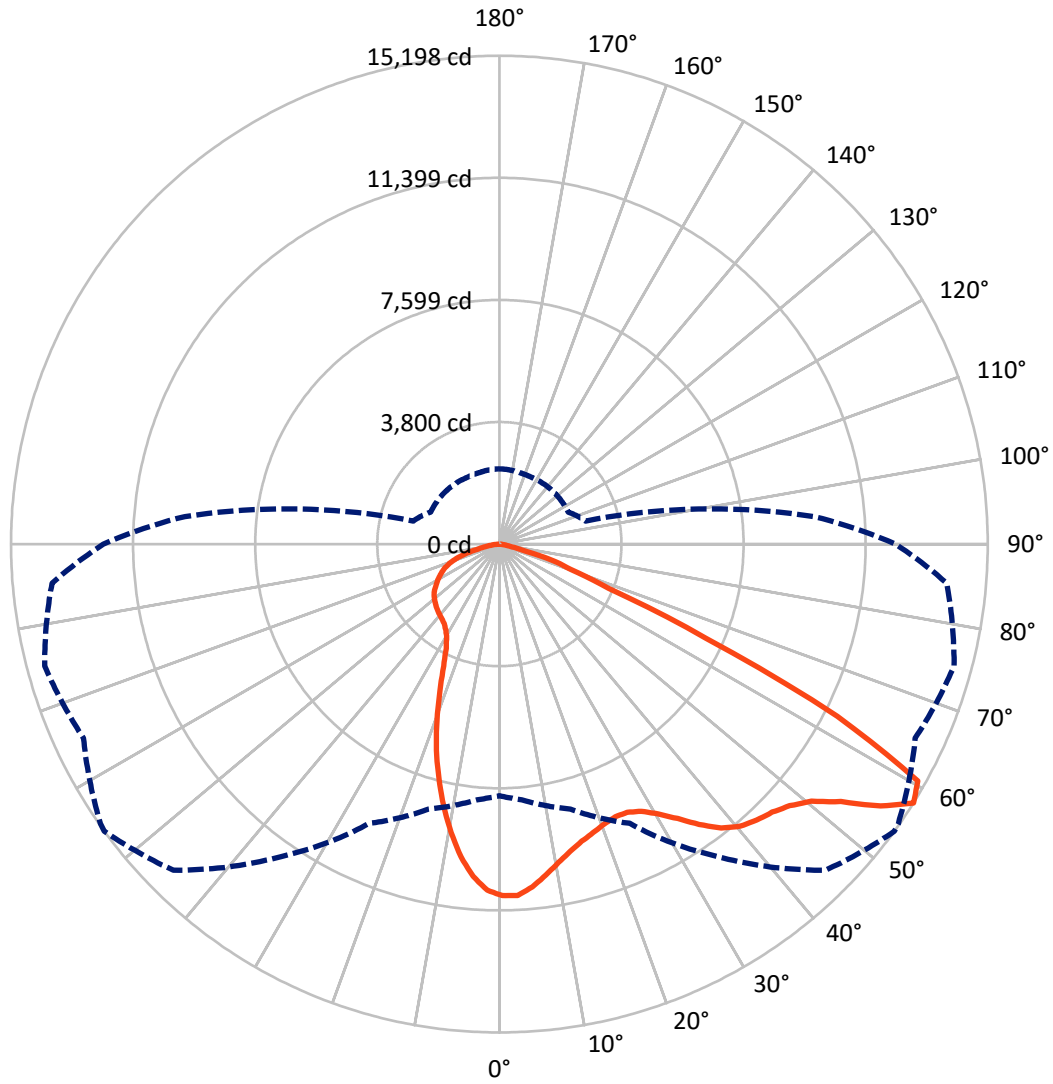
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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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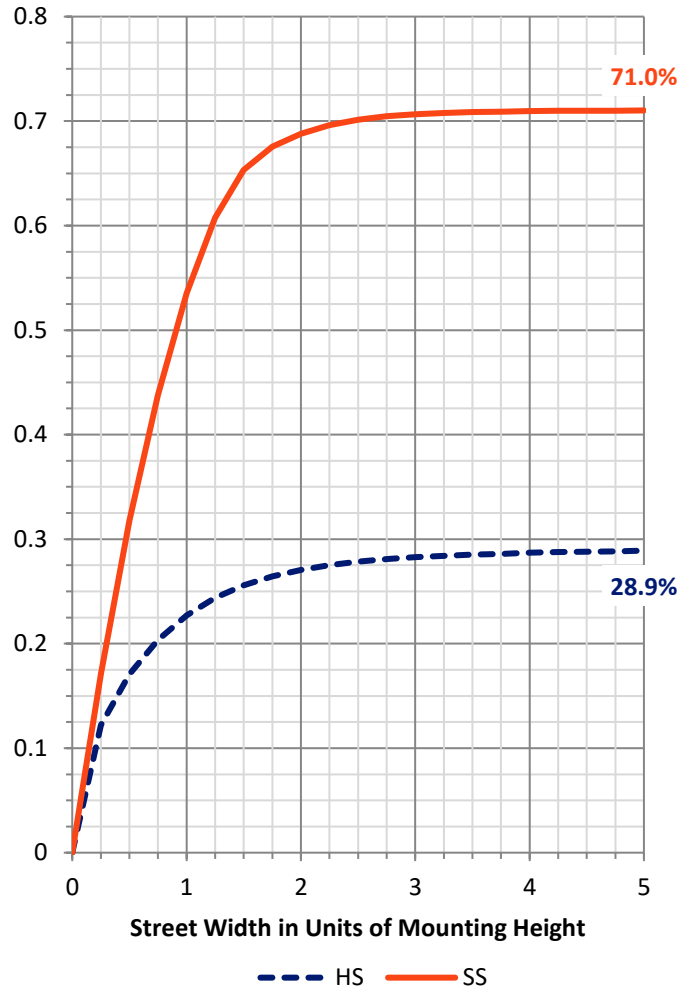
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8283.5	0.0	8283.5
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	20210.3	0.0	20210.3
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	28493.8	0.0	28493.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	961.6	3.4
10°-20°	2294.4	8.1
20°-30°	3175.1	11.1
30°-40°	4411.8	15.5
40°-50°	5826.7	20.4
50°-60°	6924.2	24.3
60°-70°	3836.1	13.5
70°-80°	955.3	3.4
80°-90°	108.6	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°	28493.8	100.0
0°-180°	28493.8	100.0

**Coefficient of Utilization**



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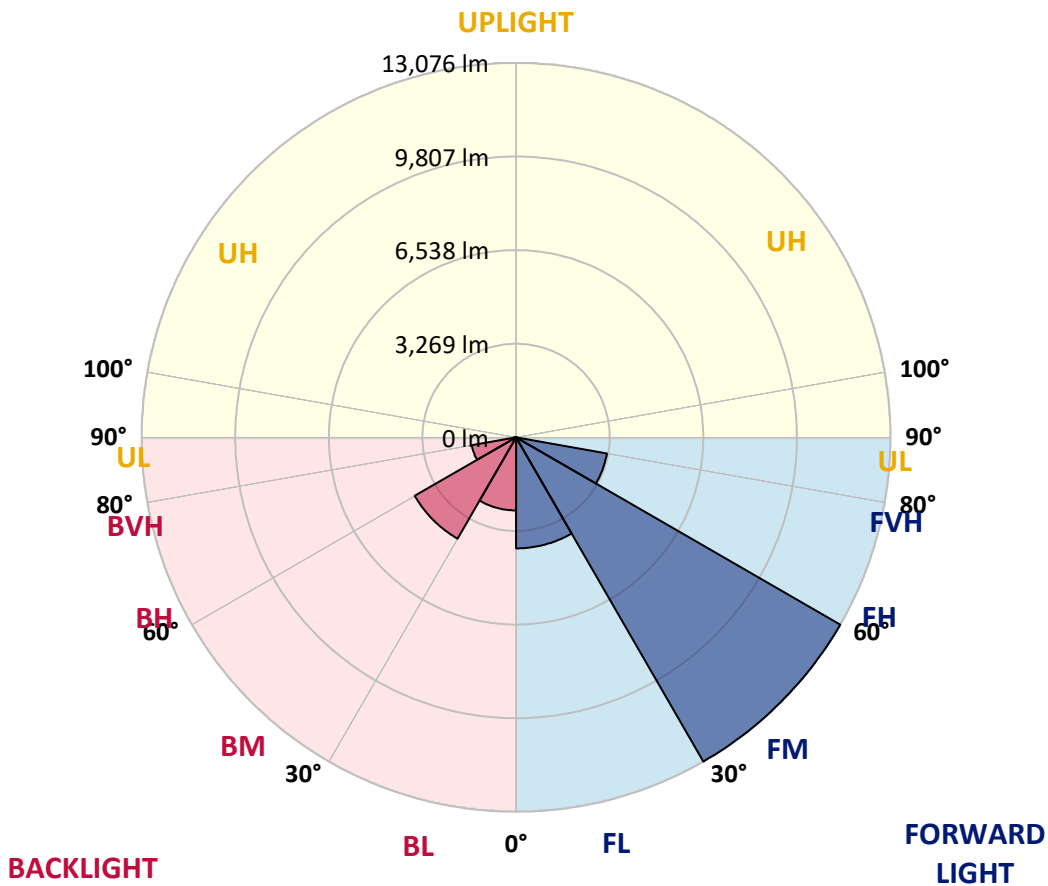
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3878.5	13.6			
FM (30°-60°)	13076.3	45.9			
FH (60°-80°)	3221.6	11.3			G2/5000
FVH (80°-90°)	34.0	0.1			G1/100
BL (0°-30°)	2552.6	9.0	B4/5000		
BM (30°-60°)	4086.4	14.3	B3/5000		
BH (60°-80°)	1569.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	74.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4
2.5°	10734.5	10756.5	10771.1	10822.3	10866.2	10905.3	10946.7	10946.7	10944.3	10937.0	10922.3
5°	10310.1	10334.5	10368.7	10439.4	10534.5	10602.8	10715.0	10724.8	10773.6	10793.1	10783.3
7.5°	9817.4	9824.7	9868.6	9961.3	10112.6	10234.5	10395.5	10415.0	10532.1	10600.4	10588.2
10°	9278.4	9254.0	9332.0	9468.6	9666.2	9871.1	10078.4	10095.5	10283.3	10412.6	10402.8
12.5°	8785.7	8788.1	8866.2	9032.0	9278.4	9532.0	9810.1	9849.1	10080.8	10246.7	10229.6
15°	8373.5	8383.2	8478.4	8666.2	8946.7	9249.1	9595.5	9632.1	9924.7	10144.3	10095.5
17.5°	8044.2	8053.9	8136.9	8351.5	8651.5	9017.4	9439.4	9475.9	9839.4	10100.4	10000.4
20°	7817.4	7812.5	7893.0	8097.9	8407.6	8805.2	9302.8	9356.4	9812.5	10117.4	9936.9
22.5°	7724.7	7722.2	7780.8	7949.1	8239.3	8641.8	9219.8	9293.0	9841.8	10193.0	9897.9
25°	7771.0	7761.3	7812.5	7936.9	8168.6	8578.4	9244.2	9322.3	9966.2	10349.2	9905.2
27.5°	7914.9	7902.7	7946.6	8058.8	8234.4	8644.2	9415.0	9505.2	10229.6	10634.5	10002.8
30°	8134.4	8127.1	8171.0	8278.3	8432.0	8863.7	9741.8	9844.3	10637.0	11078.4	10215.0
32.5°	8390.5	8378.3	8456.4	8580.8	8758.9	9263.7	10180.9	10315.0	11119.9	11649.2	10571.1
35°	8678.4	8668.6	8775.9	8956.4	9212.5	9819.9	10712.6	10858.9	11612.6	12295.6	11044.3
37.5°	8958.9	8958.9	9166.2	9434.5	9756.4	10424.8	11212.6	11305.3	11954.1	12868.8	11551.6
40°	9207.6	9222.3	9534.5	9936.9	10346.7	10971.1	11541.9	11619.9	12105.3	13263.9	11993.1
42.5°	9483.3	9495.5	9858.9	10385.7	10873.6	11412.6	11741.9	11780.9	12134.6	13461.5	12305.3
45°	9702.8	9719.9	10171.1	10734.5	11332.1	11744.3	11900.4	11934.6	12176.0	13568.8	12532.2
47.5°	9817.4	9841.8	10358.9	11015.0	11641.9	12041.9	12161.4	12176.0	12346.8	13756.6	12805.3
50°	9797.9	9846.7	10429.6	11154.1	11871.2	12341.9	12580.9	12605.3	12695.6	14032.2	13124.9
52.5°	9971.1	9993.0	10580.9	11319.9	12198.0	12895.6	13310.2	13344.4	13302.9	14239.5	13315.1
55°	9683.3	9788.2	10393.1	11295.5	12695.6	13751.7	14390.8	14373.7	13854.2	14471.3	13632.2
57.5°	7832.0	7985.7	8539.3	9588.1	11876.0	14351.7	15198.1	15156.6	14281.0	14649.3	13976.1
60°	5422.1	5446.5	5946.6	6690.5	9166.2	12678.5	14961.5	15051.8	14359.1	14424.9	13339.5
62.5°	4336.7	4329.4	4375.8	4395.3	5829.5	8912.5	11810.2	12139.5	11929.7	11239.4	9454.0
65°	3702.6	3729.4	3866.0	3795.3	3805.0	5019.7	7056.4	7102.7	6956.3	6707.6	5000.2
67.5°	2897.7	2944.0	3185.5	3461.1	3373.3	3231.8	3661.1	3639.2	2868.4	2219.6	1834.2
70°	1814.7	1844.0	2102.5	2717.2	2936.7	2653.8	2353.7	2344.0	1536.6	1263.5	1385.4
72.5°	1058.6	1063.5	1136.6	1514.7	1948.9	1814.7	1731.8	1668.4	987.8	1007.4	1104.9
75°	582.9	582.9	580.5	653.7	768.3	680.5	658.6	641.5	661.0	748.8	822.0
77.5°	122.0	124.4	131.7	173.2	224.4	273.2	343.9	346.4	431.7	500.0	558.6
80°	56.1	58.5	73.2	92.7	119.5	158.5	209.8	212.2	261.0	314.6	353.7
82.5°	29.3	31.7	39.0	48.8	63.4	82.9	117.1	117.1	156.1	185.4	209.8
85°	9.8	9.8	14.6	19.5	26.8	34.1	46.3	46.3	68.3	90.2	104.9
87.5°	0.0	0.0	0.0	0.0	2.4	4.9	9.8	9.8	12.2	14.6	24.4
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°	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4	10939.4
2.5°	10890.6	10815.0	10817.5	10832.1	10785.8	10715.0	10668.7	10610.1	10573.6	10566.2	10593.1
5°	10734.5	10646.7	10585.7	10522.3	10390.6	10234.5	10112.6	10012.6	9946.7	9922.3	9893.0
7.5°	10519.9	10405.3	10251.6	10073.5	9834.5	9556.4	9361.3	9178.4	9051.5	9015.0	8997.9
10°	10305.2	10139.4	9866.2	9534.5	9136.9	8761.3	8407.6	8136.9	7922.2	7800.3	7839.3
12.5°	10083.3	9878.4	9451.6	8941.8	8388.1	7822.2	7358.8	6910.0	6563.7	6390.5	6339.3
15°	9888.2	9610.1	9015.0	8324.7	7588.1	6875.9	6205.1	5531.9	5092.9	4853.8	4788.0
17.5°	9722.3	9361.3	8554.0	7695.4	6814.9	5800.2	4975.8	4351.4	4051.4	3919.7	3909.9
20°	9558.9	9117.4	8097.9	7017.3	5922.2	4785.5	4048.9	3756.2	3648.9	3602.6	3600.1
22.5°	9412.5	8861.3	7617.3	6339.3	5034.3	4022.1	3617.2	3490.4	3461.1	3461.1	3456.2
25°	9288.1	8605.2	7124.6	5619.7	4231.9	3580.6	3392.8	3339.1	3351.3	3373.3	3375.7
27.5°	9236.9	8405.2	6649.0	4880.7	3678.2	3324.5	3239.1	3231.8	3266.0	3300.1	3305.0
30°	9290.6	8268.6	6161.2	4173.3	3346.5	3168.4	3129.4	3144.0	3185.5	3219.6	3219.6
32.5°	9456.4	8200.3	5663.6	3656.2	3153.8	3058.6	3046.5	3061.1	3092.8	3112.3	3114.7
35°	9736.9	8227.1	5149.0	3307.4	3029.4	2978.2	2975.7	2985.5	2997.7	3009.9	3012.3
37.5°	10090.6	8346.6	4597.7	3105.0	2948.9	2919.6	2914.7	2912.3	2914.7	2914.7	2917.2
40°	10437.0	8527.1	4105.0	2985.5	2892.8	2868.4	2856.2	2839.1	2836.7	2831.8	2829.4
42.5°	10693.1	8666.2	3712.3	2900.1	2841.6	2812.3	2797.7	2770.8	2768.4	2766.0	2763.5
45°	10885.8	8783.2	3385.5	2817.2	2787.9	2761.1	2729.4	2705.0	2709.9	2714.7	2714.7
47.5°	11102.8	8885.7	3146.5	2739.1	2722.0	2695.2	2656.2	2639.1	2656.2	2673.3	2673.3
50°	11366.3	9029.6	2951.3	2661.1	2653.8	2622.0	2587.9	2580.6	2600.1	2624.5	2624.5
52.5°	11559.0	9154.0	2812.3	2583.0	2583.0	2541.6	2512.3	2509.8	2531.8	2556.2	2558.6
55°	11919.9	9444.2	2763.5	2492.8	2483.0	2451.3	2429.4	2412.3	2439.1	2461.1	2461.1
57.5°	12327.3	9829.6	2775.7	2363.5	2351.3	2341.5	2324.5	2305.0	2312.3	2336.7	2339.1
60°	11463.8	9083.3	2641.6	2234.2	2226.9	2222.0	2200.1	2165.9	2175.7	2195.2	2197.6
62.5°	8007.6	6036.8	2136.7	2073.2	2097.6	2095.2	2065.9	2026.9	2029.3	2056.2	2056.2
65°	4156.2	3266.0	1875.7	1926.9	1963.5	1948.9	1900.1	1865.9	1861.0	1895.2	1887.9
67.5°	1792.7	1783.0	1707.4	1773.2	1812.3	1780.6	1729.3	1673.2	1678.1	1690.3	1680.5
70°	1444.0	1487.9	1519.6	1590.3	1622.0	1563.5	1507.4	1475.7	1448.8	1446.4	1429.3
72.5°	1153.7	1214.7	1285.4	1358.6	1368.3	1309.8	1239.1	1209.8	1168.3	1165.9	1148.8
75°	868.3	919.5	975.6	1034.2	1034.2	978.1	931.7	917.1	868.3	853.7	839.1
77.5°	592.7	624.4	668.3	683.0	697.6	675.6	629.3	604.9	548.8	534.2	514.7
80°	373.2	395.1	422.0	431.7	446.4	419.5	382.9	356.1	317.1	304.9	295.1
82.5°	224.4	239.0	256.1	261.0	273.2	253.7	219.5	200.0	178.1	168.3	161.0
85°	114.6	122.0	131.7	134.2	131.7	112.2	100.0	90.2	75.6	73.2	68.3
87.5°	29.3	34.1	36.6	34.1	31.7	24.4	17.1	12.2	4.9	4.9	2.4
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)