

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: P638254

Luminaire Tested: GWS-SA4E-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638254  
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-SA4E-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: 25628.1 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: B3 - U0 - G3  
  
Input Watts (W): 202.6  
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

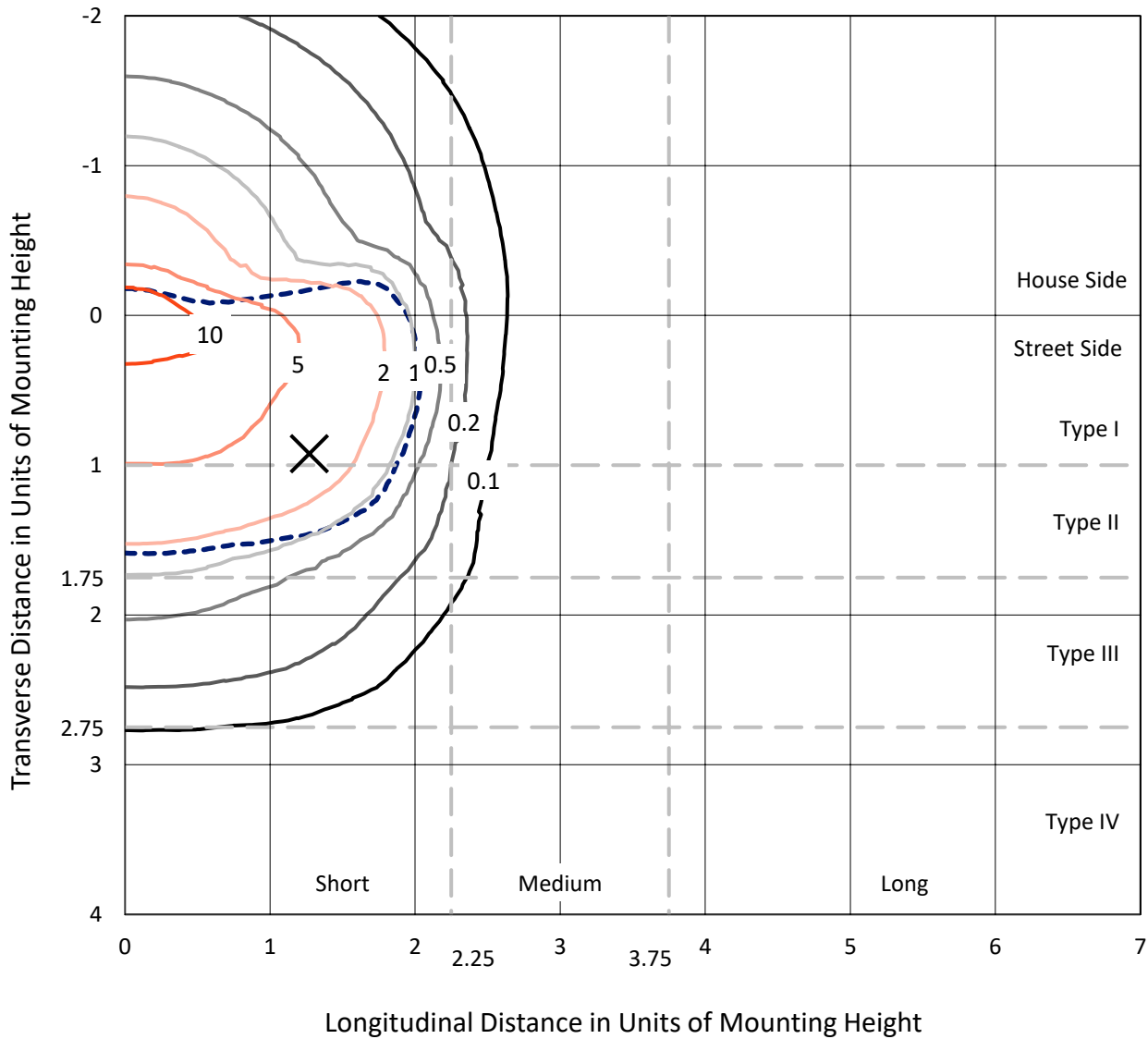


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### Iso-Footcandle Lines of Horizontal Illumination

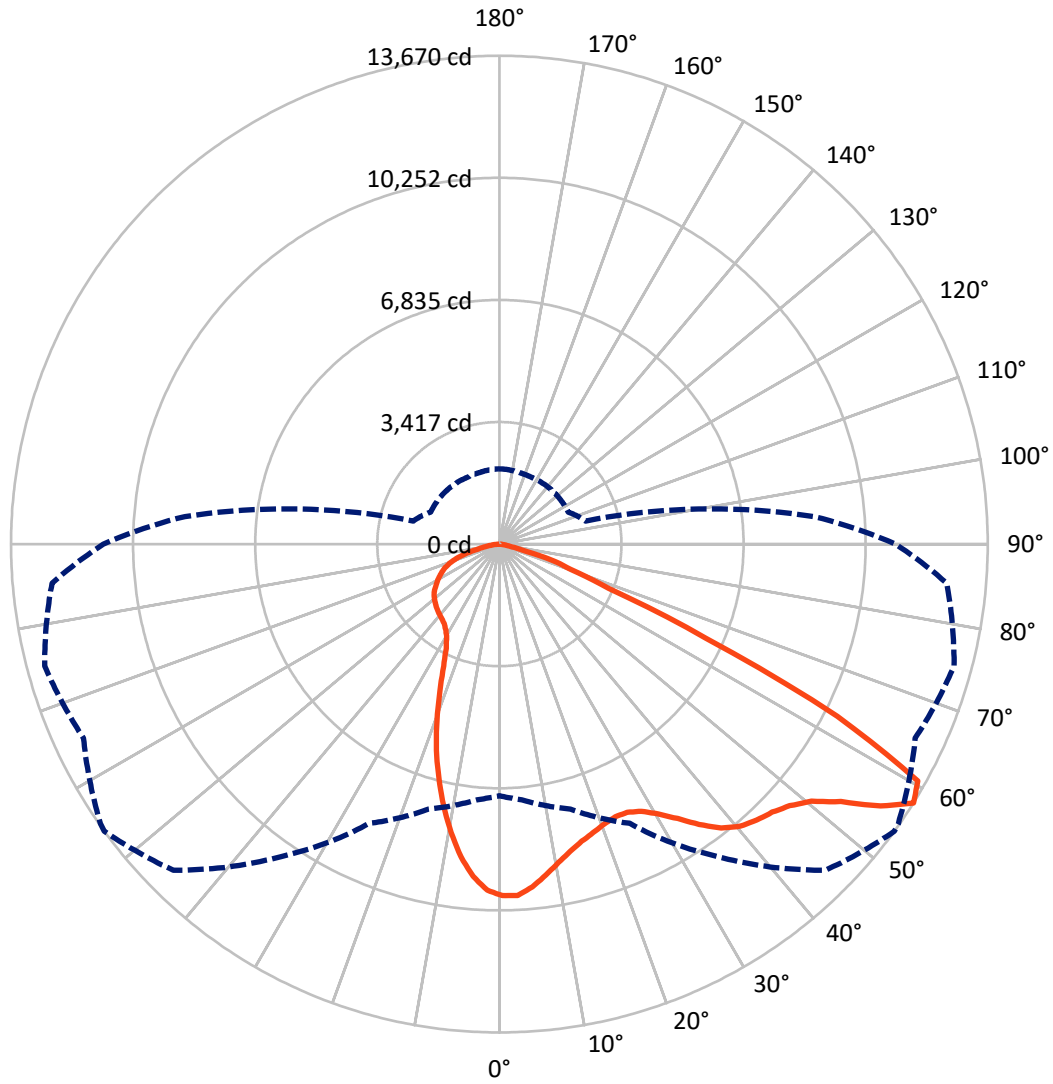
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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	7450.4	0.0	7450.4
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	18177.7	0.0	18177.7
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	25628.1	0.0	25628.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	864.9	3.4
10°-20°	2063.7	8.1
20°-30°	2855.8	11.1
30°-40°	3968.1	15.5
40°-50°	5240.7	20.4
50°-60°	6227.8	24.3
60°-70°	3450.3	13.5
70°-80°	859.2	3.4
80°-90°	97.7	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°	25628.1	100.0
0°-180°	25628.1	100.0

**Coefficient of Utilization**



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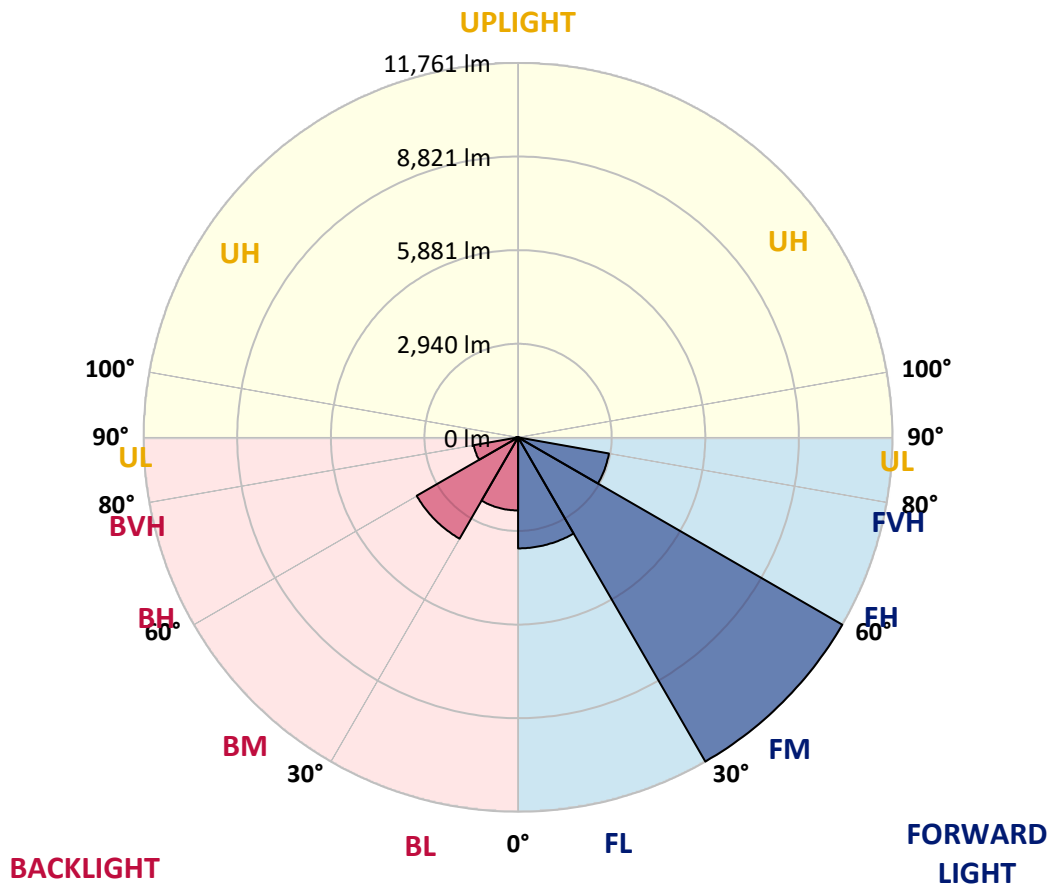
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.4	13.6			
FM (30°-60°)	11761.1	45.9			
FH (60°-80°)	2897.6	11.3			G2/5000
FVH (80°-90°)	30.6	0.1			G1/100
BL (0°-30°)	2295.9	9.0	B3/2500		
BM (30°-60°)	3675.5	14.3	B3/5000		
BH (60°-80°)	1411.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	67.1	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°	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2
2.5°	9654.9	9674.7	9687.8	9733.9	9773.4	9808.5	9845.8	9845.8	9843.6	9837.0	9823.9
5°	9273.2	9295.1	9325.9	9389.5	9475.0	9536.5	9637.4	9646.2	9690.0	9707.6	9698.8
7.5°	8830.1	8836.6	8876.1	8959.5	9095.5	9205.2	9350.0	9367.5	9472.8	9534.3	9523.3
10°	8345.2	8323.3	8393.5	8516.3	8694.0	8878.3	9064.8	9080.2	9249.1	9365.3	9356.6
12.5°	7902.1	7904.3	7974.5	8123.7	8345.2	8573.4	8823.5	8858.6	9067.0	9216.2	9200.8
15°	7531.3	7540.1	7625.7	7794.6	8046.9	8318.9	8630.4	8663.3	8926.6	9124.0	9080.2
17.5°	7235.2	7243.9	7318.5	7511.6	7781.4	8110.5	8490.0	8522.9	8849.8	9084.5	8994.6
20°	7031.1	7026.8	7099.1	7283.4	7562.0	7919.6	8367.2	8415.4	8825.7	9099.9	8937.6
22.5°	6947.8	6945.6	6998.2	7149.6	7410.7	7772.6	8292.6	8358.4	8852.0	9167.9	8902.5
25°	6989.5	6980.7	7026.8	7138.6	7347.0	7715.6	8314.5	8384.7	8963.9	9308.3	8909.0
27.5°	7118.9	7107.9	7147.4	7248.3	7406.3	7774.8	8468.1	8549.3	9200.8	9565.0	8996.8
30°	7316.3	7309.8	7349.2	7445.8	7584.0	7972.3	8762.1	8854.2	9567.2	9964.3	9187.6
32.5°	7546.7	7535.7	7605.9	7717.8	7877.9	8332.1	9156.9	9277.6	10001.6	10477.6	9507.9
35°	7805.6	7796.8	7893.3	8055.6	8286.0	8832.3	9635.2	9766.8	10444.7	11059.0	9933.5
37.5°	8057.8	8057.8	8244.3	8485.6	8775.2	9376.3	10084.9	10168.3	10751.8	11574.5	10389.9
40°	8281.6	8294.8	8575.6	8937.6	9306.1	9867.7	10381.1	10451.3	10887.8	11929.9	10786.9
42.5°	8529.5	8540.5	8867.4	9341.2	9780.0	10264.8	10561.0	10596.1	10914.2	12107.6	11067.7
45°	8727.0	8742.3	9148.2	9654.9	10192.4	10563.2	10703.6	10734.3	10951.5	12204.1	11271.8
47.5°	8830.1	8852.0	9317.1	9907.2	10471.0	10830.8	10938.3	10951.5	11105.0	12373.1	11517.5
50°	8812.5	8856.4	9380.7	10032.3	10677.2	11100.6	11315.6	11337.6	11418.7	12621.0	11804.9
52.5°	8968.3	8988.0	9516.7	10181.4	10971.2	11598.6	11971.6	12002.3	11965.0	12807.4	11976.0
55°	8709.4	8803.7	9347.8	10159.5	11418.7	12368.7	12943.4	12928.1	12460.8	13015.8	12261.2
57.5°	7044.3	7182.5	7680.5	8623.8	10681.6	12908.3	13669.6	13632.3	12844.7	13176.0	12570.5
60°	4876.8	4898.8	5348.5	6017.6	8244.3	11403.4	13456.8	13538.0	12914.9	12974.2	11997.9
62.5°	3900.6	3894.0	3935.7	3953.2	5243.2	8016.2	10622.4	10918.6	10729.9	10109.0	8503.2
65°	3330.2	3354.3	3477.2	3413.6	3422.3	4514.8	6346.7	6388.4	6256.7	6033.0	4497.3
67.5°	2606.2	2647.9	2865.1	3113.0	3034.0	2906.8	3292.9	3273.2	2579.9	1996.4	1649.7
70°	1632.2	1658.5	1891.1	2443.9	2641.3	2386.9	2117.0	2108.2	1382.1	1136.4	1246.1
72.5°	952.1	956.5	1022.3	1362.4	1752.8	1632.2	1557.6	1500.6	888.5	906.0	993.8
75°	524.3	524.3	522.1	587.9	691.0	612.1	592.3	577.0	594.5	673.5	739.3
77.5°	109.7	111.9	118.5	155.8	201.8	245.7	309.3	311.5	388.3	449.7	502.4
80°	50.5	52.7	65.8	83.4	107.5	142.6	188.7	190.9	234.7	283.0	318.1
82.5°	26.3	28.5	35.1	43.9	57.0	74.6	105.3	105.3	140.4	166.7	188.7
85°	8.8	8.8	13.2	17.6	24.1	30.7	41.7	41.7	61.4	81.2	94.3
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	8.8	8.8	11.0	13.2	21.9
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°	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2	9839.2
2.5°	9795.3	9727.3	9729.5	9742.7	9701.0	9637.4	9595.7	9543.0	9510.1	9503.6	9527.7
5°	9654.9	9576.0	9521.1	9464.1	9345.6	9205.2	9095.5	9005.6	8946.3	8924.4	8898.1
7.5°	9461.9	9358.8	9220.6	9060.4	8845.4	8595.3	8419.8	8255.3	8141.2	8108.3	8092.9
10°	9268.8	9119.6	8873.9	8575.6	8218.0	7880.1	7562.0	7318.5	7125.5	7015.8	7050.9
12.5°	9069.2	8884.9	8501.0	8042.5	7544.5	7035.5	6618.7	6215.0	5903.5	5747.8	5701.7
15°	8893.7	8643.6	8108.3	7487.5	6824.9	6184.3	5581.0	4975.5	4580.7	4365.7	4306.4
17.5°	8744.5	8419.8	7693.7	6921.5	6129.5	5216.9	4475.4	3913.7	3643.9	3525.4	3516.7
20°	8597.5	8200.4	7283.4	6311.6	5326.6	4304.2	3641.7	3378.5	3281.9	3240.2	3238.1
22.5°	8465.9	7970.1	6851.2	5701.7	4528.0	3617.6	3253.4	3139.3	3113.0	3113.0	3108.6
25°	8354.0	7739.7	6408.1	5054.5	3806.2	3220.5	3051.6	3003.3	3014.3	3034.0	3036.2
27.5°	8307.9	7559.8	5980.3	4389.8	3308.3	2990.2	2913.4	2906.8	2937.5	2968.2	2972.6
30°	8356.2	7437.0	5541.5	3753.6	3009.9	2849.8	2814.7	2827.8	2865.1	2895.8	2895.8
32.5°	8505.4	7375.6	5094.0	3288.5	2836.6	2751.0	2740.1	2753.2	2781.7	2799.3	2801.5
35°	8757.7	7399.7	4631.1	2974.8	2724.7	2678.6	2676.4	2685.2	2696.2	2707.2	2709.3
37.5°	9075.8	7507.2	4135.3	2792.7	2652.3	2626.0	2621.6	2619.4	2621.6	2621.6	2623.8
40°	9387.3	7669.5	3692.2	2685.2	2601.9	2579.9	2568.9	2553.6	2551.4	2547.0	2544.8
42.5°	9617.6	7794.6	3339.0	2608.4	2555.8	2529.5	2516.3	2492.2	2490.0	2487.8	2485.6
45°	9790.9	7899.9	3045.0	2533.8	2507.5	2483.4	2454.9	2432.9	2437.3	2441.7	2441.7
47.5°	9986.2	7992.0	2830.0	2463.6	2448.3	2424.2	2389.1	2373.7	2389.1	2404.4	2404.4
50°	10223.1	8121.5	2654.5	2393.4	2386.9	2358.3	2327.6	2321.0	2338.6	2360.5	2360.5
52.5°	10396.4	8233.3	2529.5	2323.2	2323.2	2285.9	2259.6	2257.4	2277.2	2299.1	2301.3
55°	10721.1	8494.4	2485.6	2242.1	2233.3	2204.8	2185.0	2169.7	2193.8	2213.5	2213.5
57.5°	11087.5	8841.0	2496.5	2125.8	2114.8	2106.1	2090.7	2073.1	2079.7	2101.7	2103.9
60°	10310.9	8169.7	2375.9	2009.5	2002.9	1998.6	1978.8	1948.1	1956.9	1974.4	1976.6
62.5°	7202.3	5429.7	1921.8	1864.7	1886.7	1884.5	1858.2	1823.1	1825.2	1849.4	1849.4
65°	3738.2	2937.5	1687.0	1733.1	1766.0	1752.8	1709.0	1678.3	1673.9	1704.6	1698.0
67.5°	1612.4	1603.7	1535.7	1594.9	1630.0	1601.5	1555.4	1504.9	1509.3	1520.3	1511.5
70°	1298.7	1338.2	1366.7	1430.4	1458.9	1406.2	1355.8	1327.3	1303.1	1300.9	1285.6
72.5°	1037.7	1092.5	1156.1	1221.9	1230.7	1178.1	1114.5	1088.1	1050.8	1048.6	1033.3
75°	781.0	827.1	877.5	930.2	930.2	879.7	838.0	824.9	781.0	767.8	754.7
77.5°	533.1	561.6	601.1	614.3	627.4	607.7	566.0	544.1	493.6	480.4	462.9
80°	335.7	355.4	379.5	388.3	401.5	377.3	344.4	320.3	285.2	274.2	265.5
82.5°	201.8	215.0	230.3	234.7	245.7	228.2	197.4	179.9	160.1	151.4	144.8
85°	103.1	109.7	118.5	120.7	118.5	100.9	89.9	81.2	68.0	65.8	61.4
87.5°	26.3	30.7	32.9	30.7	28.5	21.9	15.4	11.0	4.4	4.4	2.2
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)