

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: P636902

Luminaire Tested: GWS-SA4B-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636902  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-760-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

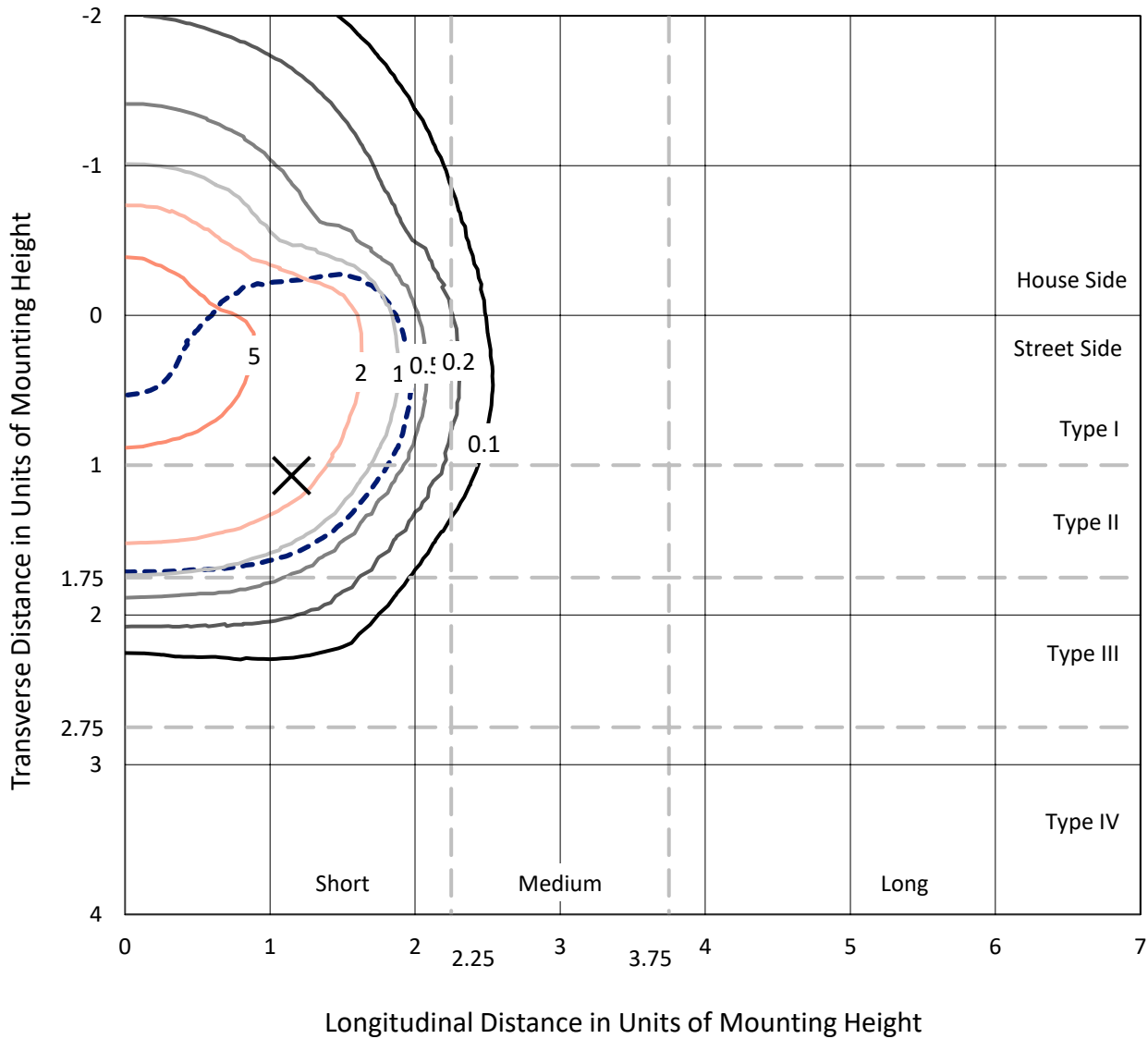
Lumens per Lamp: N/A  
Luminaire Lumens: 12463.8 lumens  
Efficiency: N/A  
Efficacy: 132.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

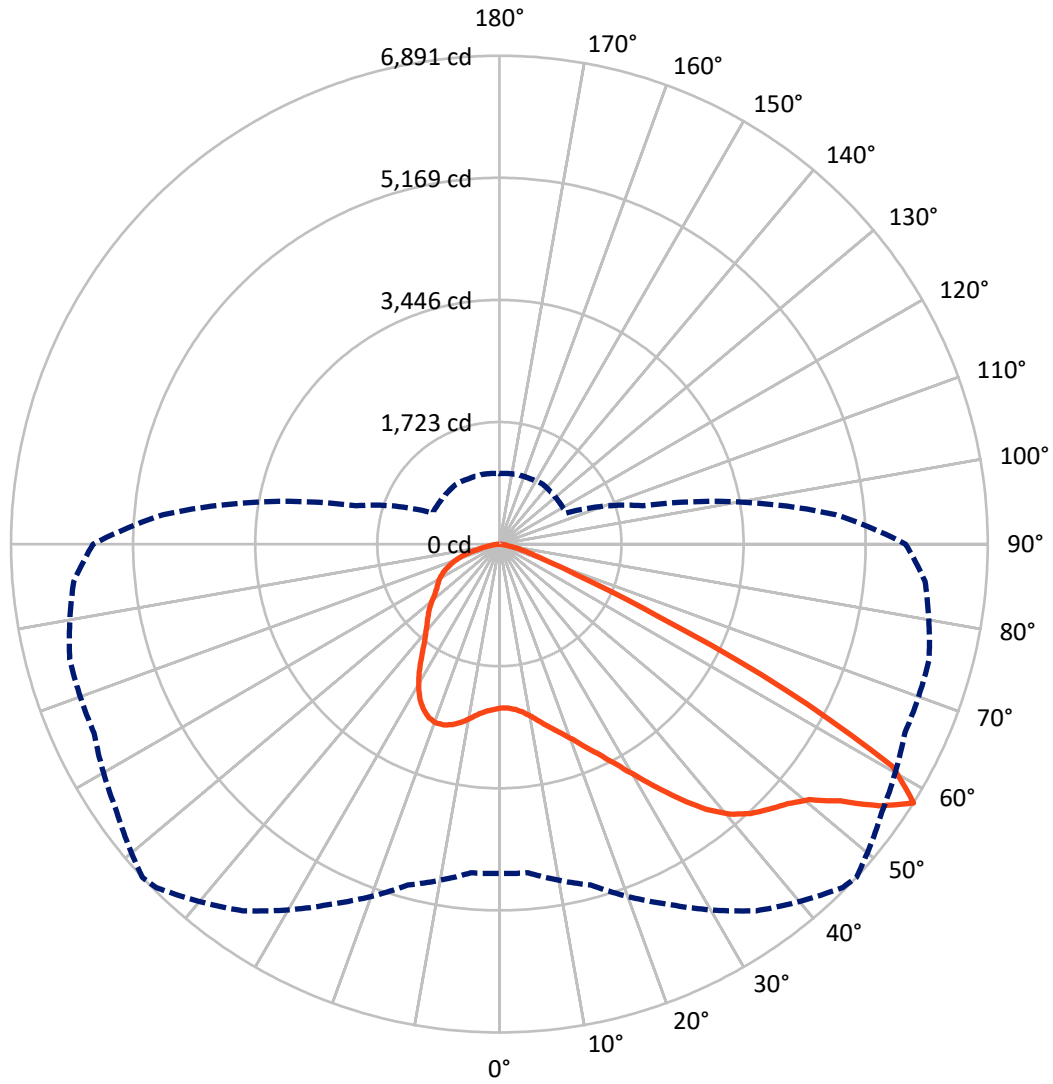
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3944.8	0.0	3944.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	8519.0	0.0	8519.0
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	12463.8	0.0	12463.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.0	1.8
10°-20°	749.8	6.0
20°-30°	1350.2	10.8
30°-40°	2039.3	16.4
40°-50°	2746.1	22.0
50°-60°	3299.8	26.5
60°-70°	1607.1	12.9
70°-80°	395.9	3.2
80°-90°	47.6	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°	12463.8	100.0
0°-180°	12463.8	100.0

**Coefficient of Utilization**



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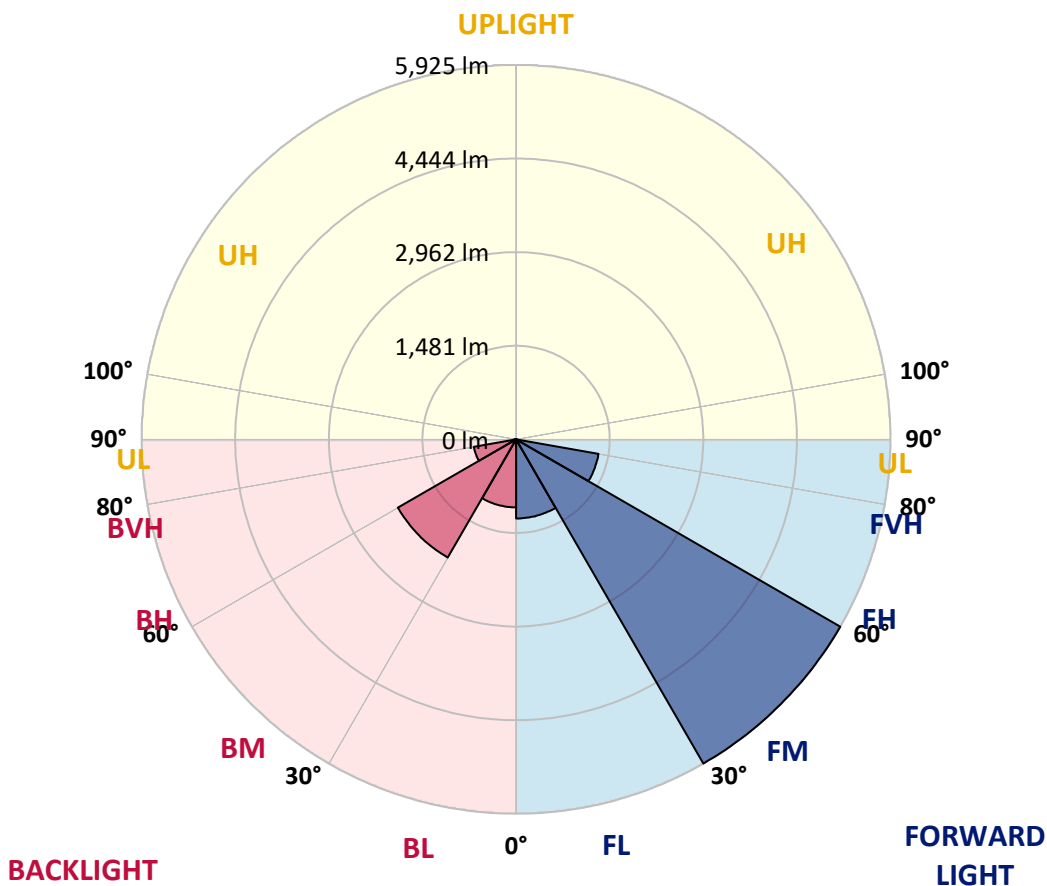
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.9	10.0			
FM (30°-60°)	5924.7	47.5			
FH (60°-80°)	1324.5	10.6			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1076.1	8.6	B3/2500		
BM (30°-60°)	2160.5	17.3	B2/2500		
BH (60°-80°)	678.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4
2.5°	2307.2	2306.2	2306.2	2312.5	2312.5	2314.6	2317.7	2320.9	2321.9	2316.7	2305.1
5°	2332.4	2332.4	2332.4	2337.6	2337.6	2339.7	2343.9	2344.9	2343.9	2335.5	2324.0
7.5°	2372.1	2372.1	2373.2	2379.5	2384.7	2387.8	2395.2	2394.1	2391.0	2377.4	2362.7
10°	2437.1	2440.2	2443.3	2450.7	2461.1	2468.5	2473.7	2473.7	2469.5	2448.6	2429.7
12.5°	2529.2	2533.4	2536.5	2542.8	2551.2	2563.7	2575.2	2575.2	2570.0	2543.8	2515.6
15°	2637.0	2641.2	2640.1	2642.2	2657.9	2675.7	2685.2	2691.4	2693.5	2656.9	2612.9
17.5°	2760.5	2764.7	2760.5	2754.2	2756.3	2784.6	2801.4	2824.4	2838.0	2788.8	2718.7
20°	2872.5	2868.4	2868.4	2872.5	2878.8	2913.4	2938.5	2976.2	2992.9	2933.3	2824.4
22.5°	2990.8	3000.3	2996.1	2996.1	3021.2	3078.8	3109.1	3158.3	3176.1	3098.7	2952.1
25°	3143.7	3152.0	3150.0	3152.0	3181.4	3263.0	3293.4	3384.4	3402.2	3291.3	3093.4
27.5°	3311.2	3324.8	3331.1	3329.0	3376.1	3482.8	3520.5	3647.2	3679.7	3506.9	3244.2
30°	3528.9	3543.6	3548.8	3546.7	3602.2	3747.7	3790.6	3935.1	3981.1	3762.4	3435.7
32.5°	3781.2	3795.9	3811.6	3817.8	3889.0	4037.7	4099.4	4249.1	4315.1	4057.6	3667.1
35°	4031.4	4044.0	4074.3	4123.5	4220.9	4372.7	4427.1	4574.7	4638.6	4364.3	3946.6
37.5°	4307.8	4316.1	4342.3	4410.4	4550.6	4695.1	4749.5	4890.9	4898.2	4660.5	4262.7
40°	4610.3	4610.3	4605.1	4672.1	4818.6	4964.1	5011.2	5092.9	5050.0	4888.8	4570.5
42.5°	4866.8	4862.6	4866.8	4929.6	5038.5	5156.7	5197.6	5181.9	5127.4	5063.6	4849.0
45°	5098.1	5101.3	5139.0	5187.1	5243.6	5313.8	5337.9	5248.9	5199.7	5203.9	5072.0
47.5°	5255.2	5258.3	5346.2	5426.8	5461.4	5483.4	5472.9	5349.4	5324.2	5371.4	5243.6
50°	5276.1	5292.8	5444.6	5610.0	5695.9	5699.0	5669.7	5519.0	5511.6	5565.0	5335.8
52.5°	5280.3	5297.0	5486.5	5784.9	6007.8	6054.9	6021.4	5864.4	5788.0	5734.6	5448.8
55°	5264.6	5283.4	5492.8	5902.1	6329.2	6517.6	6520.8	6298.9	6054.9	6019.3	5771.2
57.5°	4648.0	4655.3	4979.8	5603.8	6316.7	6850.5	6891.4	6589.9	6311.4	6277.9	6029.8
60°	3237.9	3267.2	3620.0	4443.8	5306.4	6247.6	6379.5	6291.5	6105.2	5861.3	5173.5
62.5°	1621.6	1646.7	2000.5	2779.4	3659.8	4403.0	4544.3	4637.5	4681.5	4419.8	3522.6
65°	698.2	717.1	936.9	1452.0	2071.7	2430.8	2480.0	2592.0	2866.3	2557.4	1897.9
67.5°	466.9	479.5	591.5	885.6	1220.6	1243.6	1236.3	1260.4	1320.1	1089.8	857.4
70°	358.0	368.5	443.9	649.0	877.3	750.6	710.8	644.9	700.3	713.9	695.1
72.5°	259.6	268.0	324.5	442.8	549.6	479.5	473.2	506.7	582.0	603.0	591.5
75°	167.5	171.7	206.2	242.9	283.7	307.8	320.3	381.1	457.5	473.2	459.6
77.5°	112.0	115.2	135.0	156.0	161.2	162.3	166.4	193.7	246.0	275.3	272.2
80°	58.6	58.6	66.0	66.0	75.4	90.0	94.2	112.0	136.1	150.7	151.8
82.5°	23.0	24.1	28.3	31.4	37.7	46.1	49.2	58.6	71.2	81.7	91.1
85°	9.4	10.5	11.5	13.6	16.7	20.9	22.0	25.1	33.5	41.9	47.1
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	3.1	4.2	5.2	9.4	12.6
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°	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4	2311.4
2.5°	2318.8	2305.1	2318.8	2322.9	2334.5	2338.6	2331.3	2330.3	2330.3	2319.8	2316.7
5°	2334.5	2321.9	2335.5	2341.8	2358.5	2369.0	2371.1	2379.5	2384.7	2380.5	2379.5
7.5°	2373.2	2357.5	2372.1	2381.6	2403.6	2420.3	2427.6	2446.5	2460.1	2458.0	2456.9
10°	2441.2	2420.3	2437.1	2452.8	2476.8	2496.7	2497.8	2508.2	2521.8	2517.7	2515.6
12.5°	2519.8	2499.9	2518.7	2534.4	2562.7	2571.0	2557.4	2553.3	2555.3	2550.1	2545.9
15°	2616.1	2587.8	2604.5	2622.3	2638.0	2628.6	2599.3	2587.8	2586.7	2579.4	2575.2
17.5°	2712.4	2676.8	2689.3	2698.8	2691.4	2662.1	2625.5	2605.6	2596.2	2581.5	2577.3
20°	2807.6	2762.6	2760.5	2753.2	2719.7	2666.3	2617.1	2577.3	2553.3	2533.4	2526.0
22.5°	2916.5	2853.7	2822.3	2788.8	2715.5	2628.6	2554.3	2497.8	2459.0	2433.9	2425.5
25°	3033.8	2944.8	2879.9	2812.9	2673.6	2548.0	2444.4	2366.9	2320.9	2293.6	2284.2
27.5°	3150.0	3027.5	2930.1	2816.0	2589.9	2431.8	2292.6	2187.9	2141.8	2119.9	2112.5
30°	3307.0	3137.4	2989.8	2775.2	2480.0	2270.6	2096.8	1991.1	1960.7	1945.0	1938.8
32.5°	3488.1	3276.6	3069.3	2689.3	2339.7	2082.2	1899.0	1825.7	1804.8	1774.4	1773.4
35°	3726.8	3475.5	3144.7	2562.7	2162.8	1880.1	1747.2	1694.8	1657.2	1609.0	1604.8
37.5°	4005.2	3723.6	3185.5	2401.5	1956.5	1713.7	1634.1	1575.5	1514.8	1450.9	1442.5
40°	4293.1	4013.6	3188.7	2210.9	1754.5	1603.8	1536.8	1460.3	1385.0	1313.8	1304.4
42.5°	4595.6	4283.7	3133.2	1991.1	1589.1	1508.5	1440.5	1344.1	1259.4	1211.2	1206.0
45°	4865.7	4501.4	3007.6	1759.7	1466.6	1428.9	1342.1	1238.4	1193.4	1158.9	1151.5
47.5°	5078.2	4645.9	2838.0	1552.5	1367.2	1347.3	1234.2	1180.8	1146.3	1114.9	1107.6
50°	5182.9	4678.3	2617.1	1383.9	1275.1	1251.0	1173.5	1132.7	1109.7	1084.5	1078.2
52.5°	5312.7	4715.0	2426.6	1242.6	1185.0	1152.6	1123.3	1090.8	1074.1	1058.4	1053.1
55°	5611.1	4853.2	2326.1	1129.5	1099.2	1084.5	1080.3	1053.1	1047.9	1037.4	1028.0
57.5°	5732.5	4764.2	2088.5	1037.4	1031.1	1033.2	1043.7	1018.6	1013.3	1000.8	994.5
60°	4610.3	3601.1	1414.3	957.9	974.6	988.2	998.7	973.6	966.2	964.1	955.8
62.5°	2954.2	2215.1	987.2	883.5	908.7	925.4	931.7	907.6	902.4	919.1	920.2
65°	1537.8	1207.0	800.8	804.0	824.9	850.0	862.6	854.2	852.1	869.9	871.0
67.5°	785.1	738.0	698.2	709.8	726.5	759.0	788.3	824.9	837.5	839.6	840.6
70°	668.9	648.0	628.1	635.4	653.2	671.0	699.3	717.1	696.2	690.9	688.8
72.5°	569.5	553.8	544.4	552.7	562.2	559.0	550.6	559.0	562.2	563.2	564.2
75°	442.8	431.3	424.0	425.0	425.0	413.5	397.8	388.4	377.9	369.5	369.5
77.5°	271.1	273.2	280.6	279.5	278.5	274.3	258.6	250.2	225.1	217.7	217.7
80°	154.9	158.1	165.4	167.5	167.5	162.3	146.6	137.1	125.6	120.4	119.3
82.5°	94.2	98.4	102.6	104.7	105.7	99.5	85.8	78.5	72.2	67.0	67.0
85°	49.2	51.3	55.5	56.5	53.4	47.1	39.8	36.6	30.4	29.3	29.3
87.5°	13.6	14.7	16.7	13.6	12.6	9.4	5.2	4.2	2.1	1.0	1.0
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)