

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: P636847

Luminaire Tested: GWS-SA4B-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636847
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12637 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

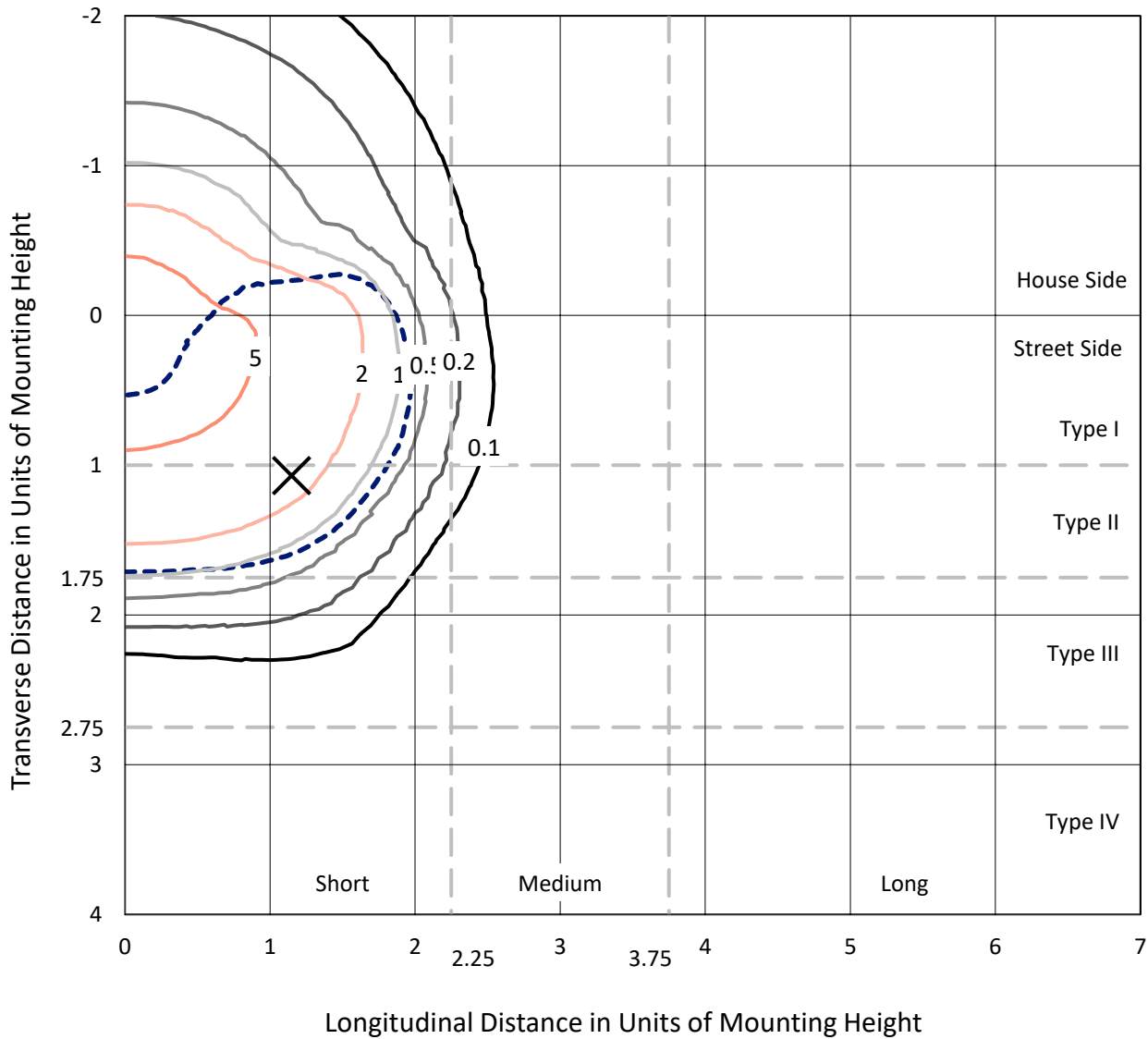
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

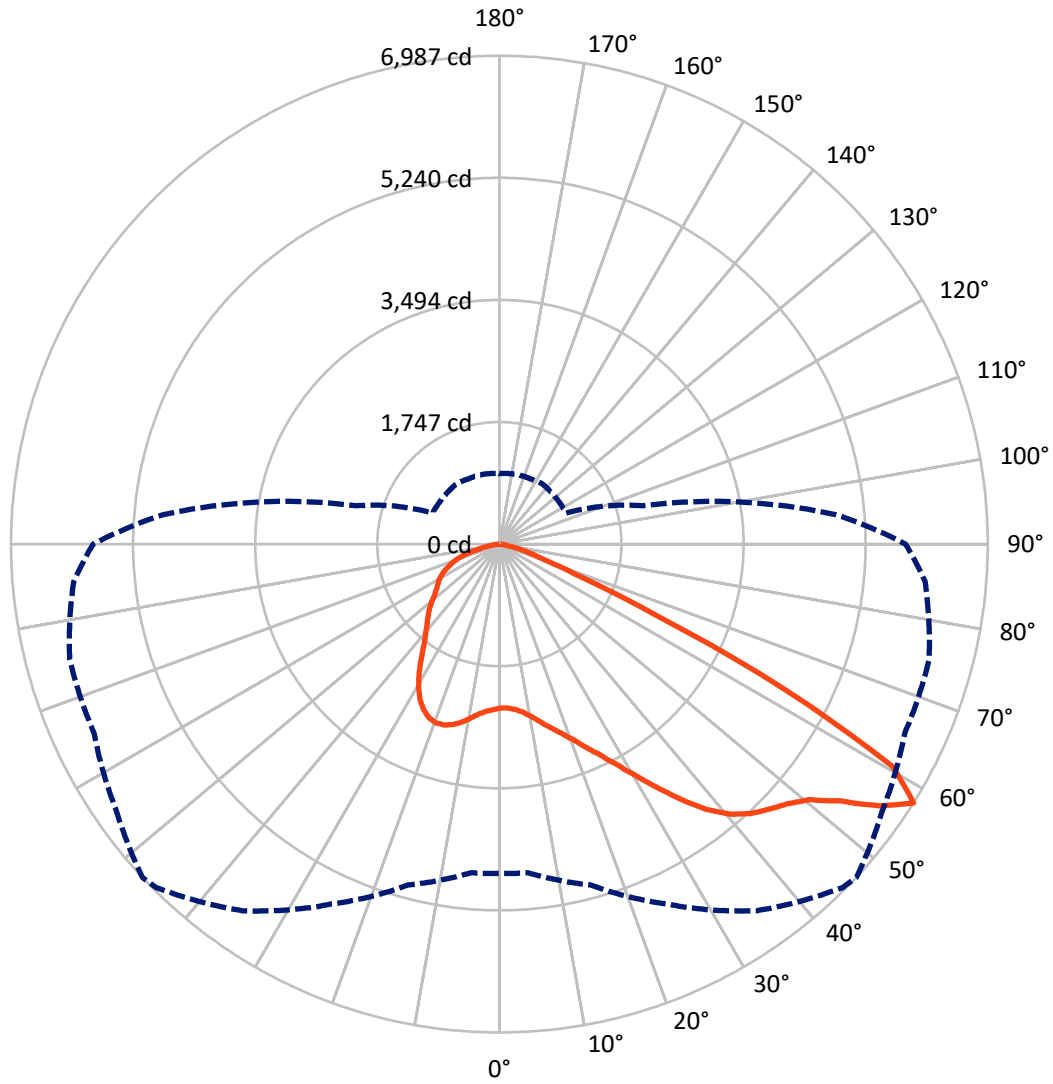
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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
House Side	Lumens	3999.6	0.0	3999.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8637.4	0.0	8637.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	12637.0	0.0	12637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	1.8
10°-20°	760.3	6.0
20°-30°	1368.9	10.8
30°-40°	2067.6	16.4
40°-50°	2784.3	22.0
50°-60°	3345.7	26.5
60°-70°	1629.4	12.9
70°-80°	401.4	3.2
80°-90°	48.2	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°	12637.0	100.0
0°-180°	12637.0	100.0

Coefficient of Utilization



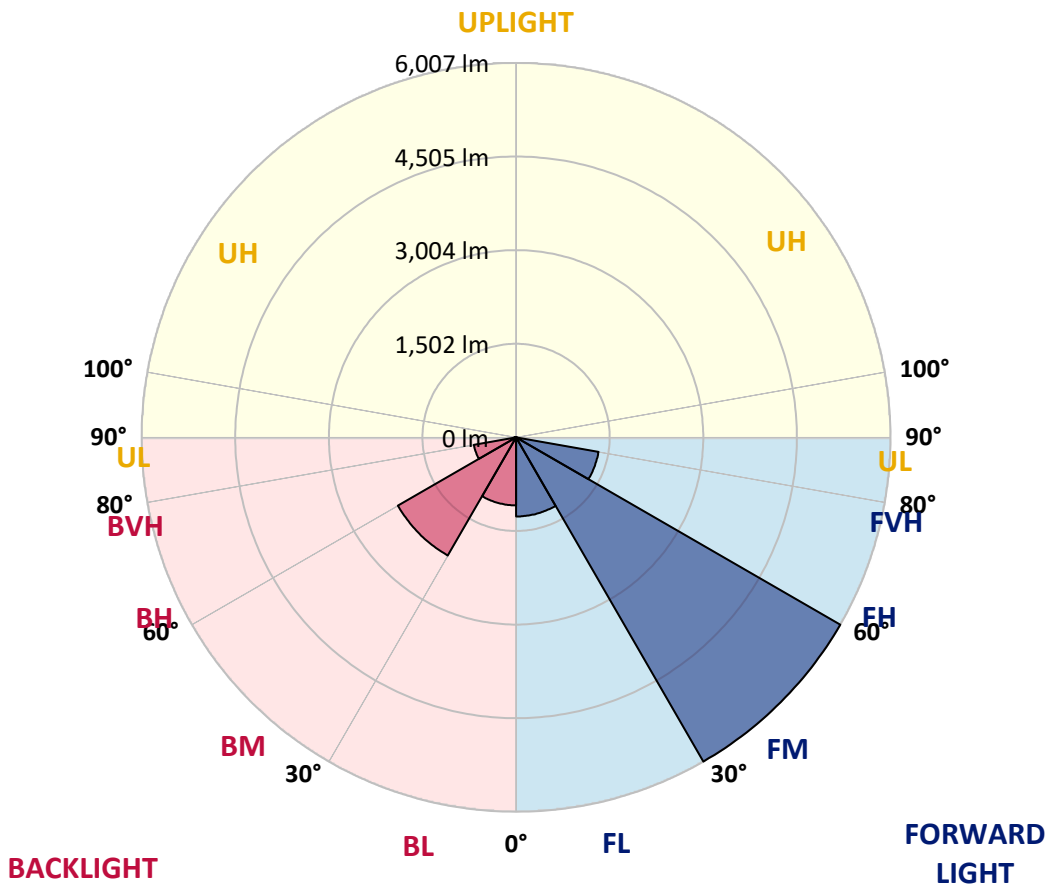
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.3	10.0			
FM (30°-60°)	6007.0	47.5			
FH (60°-80°)	1342.9	10.6			G1/1800
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	1091.0	8.6	B3/2500		
BM (30°-60°)	2190.6	17.3	B2/2500		
BH (60°-80°)	687.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	30.1	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°	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5
2.5°	2339.3	2338.2	2338.2	2344.6	2344.6	2346.7	2349.9	2353.1	2354.2	2348.9	2337.2
5°	2364.8	2364.8	2364.8	2370.1	2370.1	2372.2	2376.5	2377.5	2376.5	2368.0	2356.3
7.5°	2405.1	2405.1	2406.2	2412.5	2417.8	2421.0	2428.5	2427.4	2424.2	2410.4	2395.6
10°	2470.9	2474.1	2477.3	2484.7	2495.3	2502.8	2508.1	2508.1	2503.8	2482.6	2463.5
12.5°	2564.3	2568.6	2571.7	2578.1	2586.6	2599.3	2611.0	2611.0	2605.7	2579.2	2550.5
15°	2673.6	2677.9	2676.8	2678.9	2694.9	2712.9	2722.5	2728.8	2731.0	2693.8	2649.2
17.5°	2798.9	2803.1	2798.9	2792.5	2794.6	2823.3	2840.3	2863.6	2877.4	2827.5	2756.4
20°	2912.5	2908.2	2908.2	2912.5	2918.8	2953.8	2979.3	3017.5	3034.5	2974.0	2863.6
22.5°	3032.4	3041.9	3037.7	3037.7	3063.2	3121.5	3152.3	3202.2	3220.3	3141.7	2993.1
25°	3187.4	3195.8	3193.7	3195.8	3225.6	3308.4	3339.1	3431.5	3449.5	3337.0	3136.4
27.5°	3357.2	3371.0	3377.3	3375.2	3423.0	3531.2	3569.5	3697.9	3730.8	3555.7	3289.2
30°	3577.9	3592.8	3598.1	3596.0	3652.2	3799.8	3843.3	3989.8	4036.5	3814.6	3483.5
32.5°	3833.7	3848.6	3864.5	3870.9	3943.1	4093.8	4156.4	4308.2	4375.1	4113.9	3718.1
35°	4087.4	4100.2	4130.9	4180.8	4279.5	4433.4	4488.6	4638.3	4703.0	4424.9	4001.4
37.5°	4367.6	4376.1	4402.6	4471.6	4613.9	4760.3	4815.5	4958.8	4966.2	4725.3	4322.0
40°	4674.4	4674.4	4669.1	4737.0	4885.6	5033.1	5080.9	5163.7	5120.1	4956.7	4634.0
42.5°	4934.4	4930.2	4934.4	4998.1	5108.5	5228.4	5269.8	5253.9	5198.7	5133.9	4916.4
45°	5169.0	5172.2	5210.4	5259.2	5316.5	5387.6	5412.0	5321.8	5271.9	5276.2	5142.4
47.5°	5328.2	5331.4	5420.5	5502.2	5537.3	5559.6	5548.9	5423.7	5398.2	5446.0	5316.5
50°	5349.4	5366.4	5520.3	5688.0	5775.0	5778.2	5748.5	5595.6	5588.2	5642.4	5409.9
52.5°	5353.7	5370.6	5562.7	5865.2	6091.3	6139.1	6105.1	5945.9	5868.4	5814.3	5524.5
55°	5337.7	5356.8	5569.1	5984.1	6417.2	6608.2	6611.4	6386.4	6139.1	6103.0	5851.4
57.5°	4712.6	4720.0	5049.0	5681.6	6404.4	6945.7	6987.1	6681.5	6399.1	6365.2	6113.6
60°	3282.9	3312.6	3670.3	4505.6	5380.2	6334.4	6468.1	6379.0	6190.0	5942.7	5245.4
62.5°	1644.1	1669.6	2028.3	2818.0	3710.6	4464.2	4607.5	4702.0	4746.5	4481.2	3571.6
65°	707.9	727.1	949.9	1472.1	2100.5	2464.5	2514.4	2628.0	2906.1	2593.0	1924.3
67.5°	473.4	486.1	599.7	897.9	1237.6	1260.9	1253.5	1277.9	1338.4	1104.9	869.3
70°	363.0	373.6	450.0	658.1	889.4	761.0	720.7	653.8	710.1	723.9	704.8
72.5°	263.2	271.7	329.0	449.0	557.2	486.1	479.7	513.7	590.1	611.4	599.7
75°	169.8	174.1	209.1	246.2	287.6	312.0	324.8	386.3	463.8	479.7	466.0
77.5°	113.6	116.8	136.9	158.1	163.5	164.5	168.8	196.4	249.4	279.1	276.0
80°	59.4	59.4	66.9	66.9	76.4	91.3	95.5	113.6	138.0	152.8	153.9
82.5°	23.4	24.4	28.7	31.8	38.2	46.7	49.9	59.4	72.2	82.8	92.3
85°	9.6	10.6	11.7	13.8	17.0	21.2	22.3	25.5	34.0	42.5	47.8
87.5°	0.0	0.0	1.1	1.1	2.1	3.2	3.2	4.2	5.3	9.6	12.7
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°	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5	2343.5
2.5°	2351.0	2337.2	2351.0	2355.2	2366.9	2371.1	2363.7	2362.7	2362.7	2352.0	2348.9
5°	2366.9	2354.2	2368.0	2374.3	2391.3	2401.9	2404.0	2412.5	2417.8	2413.6	2412.5
7.5°	2406.2	2390.3	2405.1	2414.7	2437.0	2453.9	2461.4	2480.5	2494.3	2492.1	2491.1
10°	2475.2	2453.9	2470.9	2486.8	2511.2	2531.4	2532.5	2543.1	2556.9	2552.6	2550.5
12.5°	2554.8	2534.6	2553.7	2569.6	2598.3	2606.8	2593.0	2588.7	2590.9	2585.5	2581.3
15°	2652.4	2623.8	2640.7	2658.8	2674.7	2665.2	2635.4	2623.8	2622.7	2615.3	2611.0
17.5°	2750.1	2714.0	2726.7	2736.3	2728.8	2699.1	2662.0	2641.8	2632.2	2617.4	2613.1
20°	2846.6	2801.0	2798.9	2791.5	2757.5	2703.4	2653.5	2613.1	2588.7	2568.6	2561.1
22.5°	2957.0	2893.4	2861.5	2827.5	2753.2	2665.2	2589.8	2532.5	2493.2	2467.7	2459.2
25°	3075.9	2985.7	2919.9	2852.0	2710.8	2583.4	2478.3	2399.8	2353.1	2325.5	2316.0
27.5°	3193.7	3069.5	2970.8	2855.1	2625.9	2465.6	2324.4	2218.3	2171.6	2149.3	2141.9
30°	3352.9	3181.0	3031.3	2813.7	2514.4	2302.2	2126.0	2018.8	1988.0	1972.1	1965.7
32.5°	3536.6	3322.2	3112.0	2726.7	2372.2	2111.1	1925.4	1851.1	1829.8	1799.1	1798.0
35°	3778.5	3523.8	3188.4	2598.3	2192.8	1906.3	1771.5	1718.4	1680.2	1631.4	1627.1
37.5°	4060.9	3775.4	3229.8	2434.8	1983.7	1737.5	1656.8	1597.4	1535.8	1471.1	1462.6
40°	4352.8	4069.4	3233.0	2241.7	1778.9	1626.1	1558.1	1480.6	1404.2	1332.0	1322.5
42.5°	4659.5	4343.2	3176.7	2018.8	1611.2	1529.5	1460.5	1362.8	1276.9	1228.0	1222.7
45°	4933.3	4564.0	3049.4	1784.2	1487.0	1448.8	1360.7	1255.6	1210.0	1175.0	1167.5
47.5°	5148.8	4710.5	2877.4	1574.0	1386.2	1366.0	1251.4	1197.2	1162.2	1130.4	1123.0
50°	5254.9	4743.4	2653.5	1403.2	1292.8	1268.4	1189.8	1148.4	1125.1	1099.6	1093.2
52.5°	5386.6	4780.5	2460.3	1259.9	1201.5	1168.6	1138.9	1106.0	1089.0	1073.1	1067.8
55°	5689.1	4920.6	2358.4	1145.2	1114.5	1099.6	1095.4	1067.8	1062.5	1051.8	1042.3
57.5°	5812.2	4830.4	2117.5	1051.8	1045.5	1047.6	1058.2	1032.7	1027.4	1014.7	1008.3
60°	4674.4	3651.2	1433.9	971.2	988.2	1002.0	1012.6	987.1	979.7	977.5	969.0
62.5°	2995.2	2245.9	1000.9	895.8	921.3	938.3	944.6	920.2	914.9	931.9	933.0
65°	1559.2	1223.8	812.0	815.1	836.4	861.8	874.6	866.1	864.0	882.0	883.1
67.5°	796.0	748.3	707.9	719.6	736.6	769.5	799.2	836.4	849.1	851.2	852.3
70°	678.2	657.0	636.8	644.3	662.3	680.4	709.0	727.1	705.8	700.5	698.4
72.5°	577.4	561.5	551.9	560.4	570.0	566.8	558.3	566.8	570.0	571.0	572.1
75°	449.0	437.3	429.9	430.9	430.9	419.2	403.3	393.8	383.2	374.7	374.7
77.5°	274.9	277.0	284.5	283.4	282.3	278.1	262.2	253.7	228.2	220.8	220.8
80°	157.1	160.3	167.7	169.8	169.8	164.5	148.6	139.0	127.4	122.1	121.0
82.5°	95.5	99.8	104.0	106.1	107.2	100.8	87.0	79.6	73.2	67.9	67.9
85°	49.9	52.0	56.3	57.3	54.1	47.8	40.3	37.1	30.8	29.7	29.7
87.5°	13.8	14.9	17.0	13.8	12.7	9.6	5.3	4.2	2.1	1.1	1.1
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)