

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: P636792

Luminaire Tested: GWS-SA4B-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636792
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12353.9 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

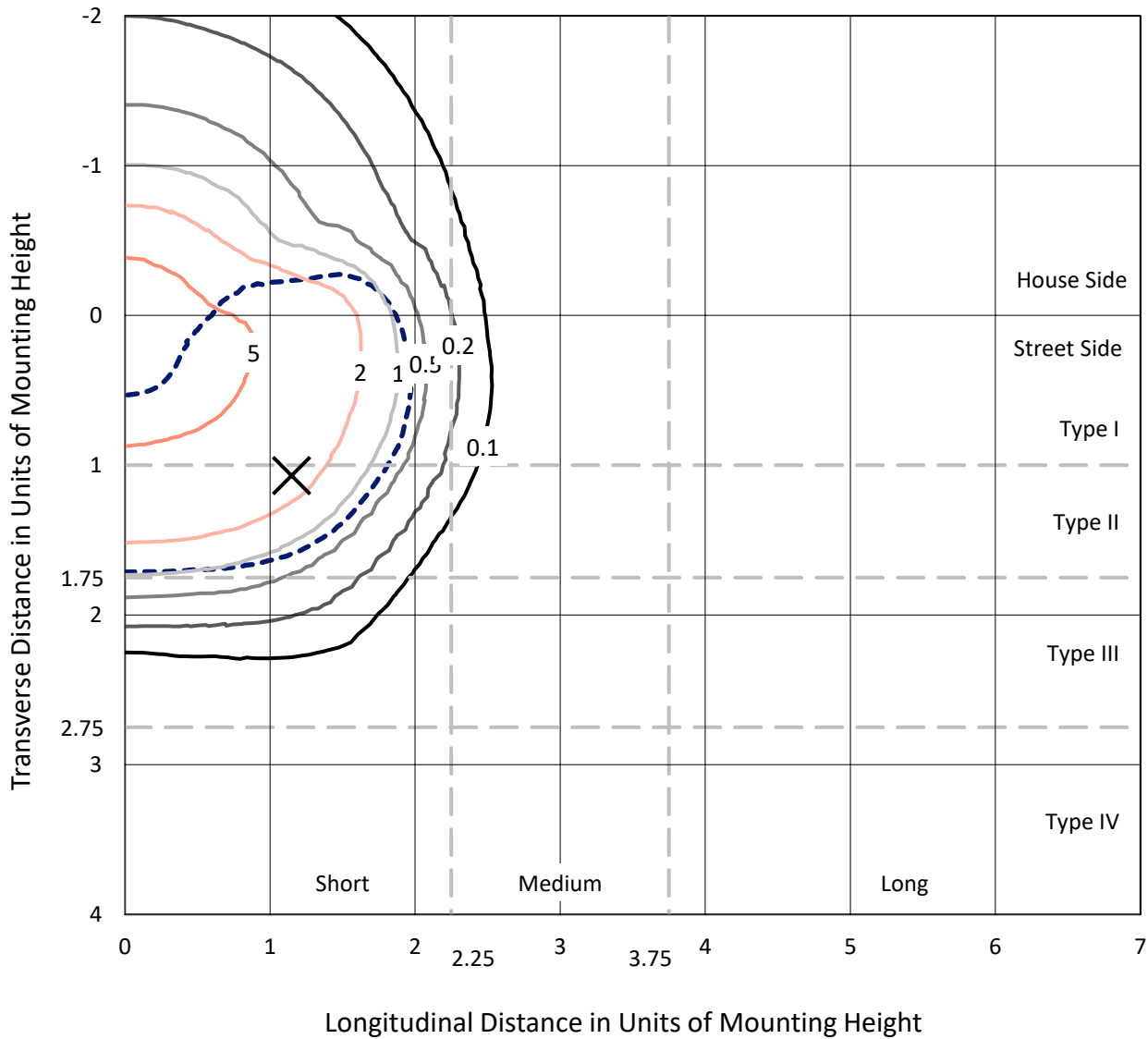
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

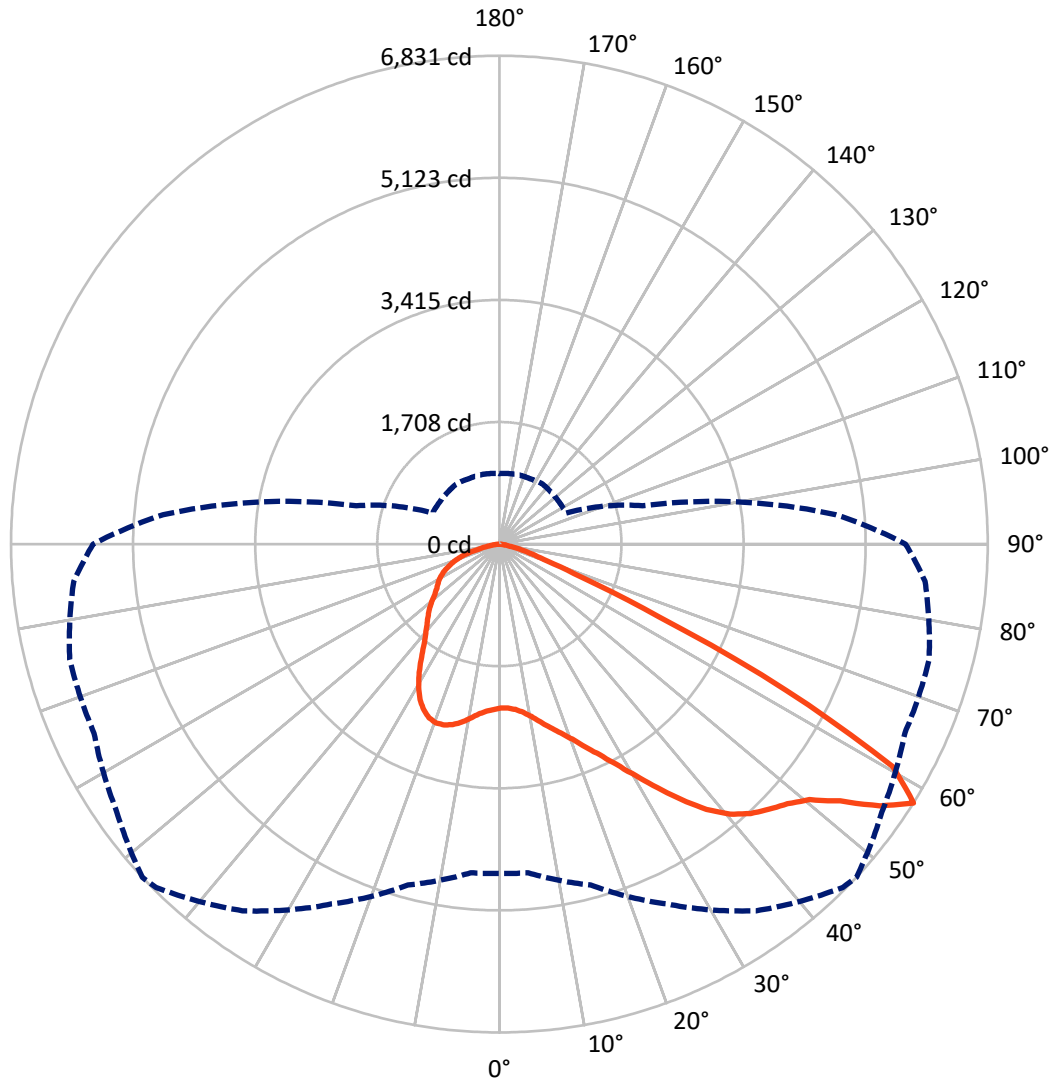
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	3910.0	0.0	3910.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8443.9	0.0	8443.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	12353.9	0.0	12353.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	1.8
10°-20°	743.2	6.0
20°-30°	1338.3	10.8
30°-40°	2021.3	16.4
40°-50°	2721.9	22.0
50°-60°	3270.7	26.5
60°-70°	1592.9	12.9
70°-80°	392.4	3.2
80°-90°	47.2	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°	12353.9	100.0
0°-180°	12353.9	100.0

Coefficient of Utilization



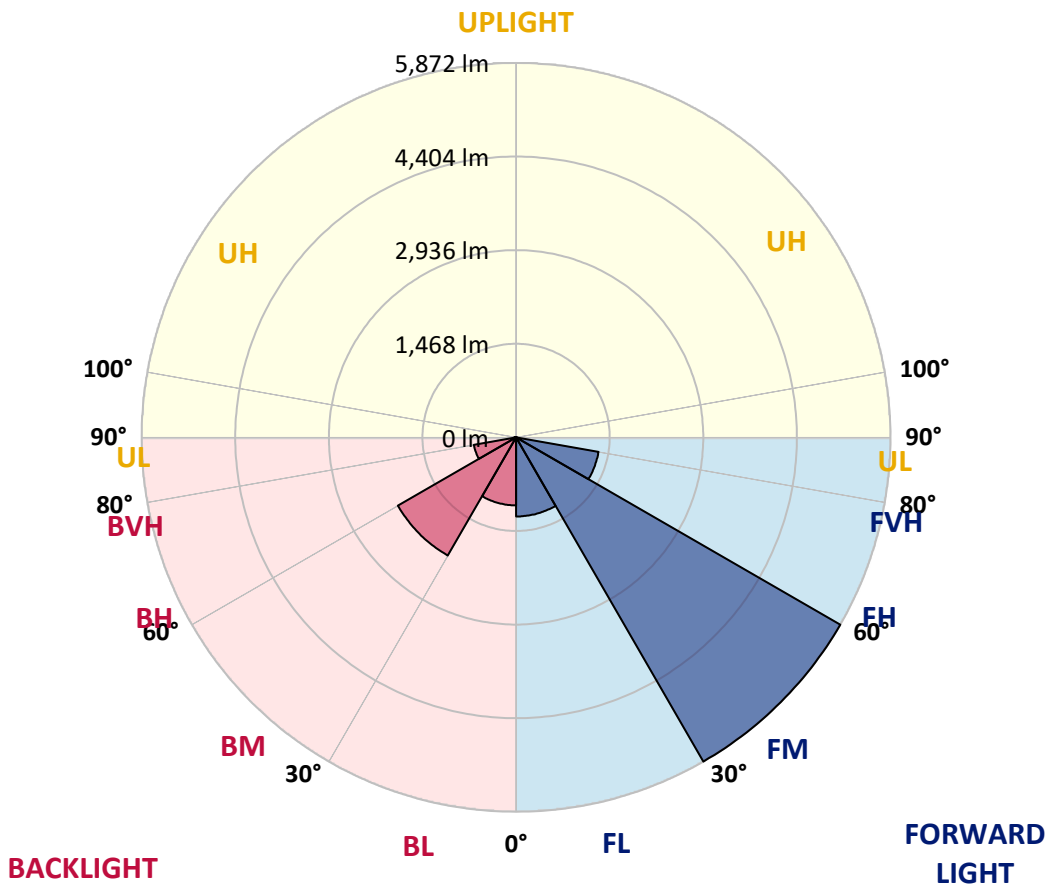
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1240.9	10.0			
FM (30°-60°)	5872.5	47.5			
FH (60°-80°)	1312.9	10.6			G1/1800
FVH (80°-90°)	17.7	0.1			G1/100
BL (0°-30°)	1066.6	8.6	B3/2500		
BM (30°-60°)	2141.5	17.3	B2/2500		
BH (60°-80°)	672.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.4	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°	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0
2.5°	2286.9	2285.9	2285.9	2292.1	2292.1	2294.2	2297.3	2300.4	2301.4	2296.2	2284.8
5°	2311.8	2311.8	2311.8	2317.0	2317.0	2319.1	2323.2	2324.3	2323.2	2314.9	2303.5
7.5°	2351.2	2351.2	2352.3	2358.5	2363.7	2366.8	2374.1	2373.0	2369.9	2356.4	2341.9
10°	2415.6	2418.7	2421.8	2429.1	2439.4	2446.7	2451.9	2451.9	2447.7	2427.0	2408.3
12.5°	2506.9	2511.0	2514.1	2520.4	2528.7	2541.1	2552.5	2552.5	2547.3	2521.4	2493.4
15°	2613.7	2617.9	2616.9	2618.9	2634.5	2652.1	2661.5	2667.7	2669.8	2633.5	2589.9
17.5°	2736.2	2740.3	2736.2	2730.0	2732.0	2760.0	2776.7	2799.5	2813.0	2764.2	2694.7
20°	2847.2	2843.1	2843.1	2847.2	2853.4	2887.7	2912.6	2949.9	2966.5	2907.4	2799.5
22.5°	2964.5	2973.8	2969.6	2969.6	2994.5	3051.6	3081.7	3130.5	3148.1	3071.3	2926.1
25°	3116.0	3124.3	3122.2	3124.3	3153.3	3234.2	3264.3	3354.6	3372.2	3262.3	3066.1
27.5°	3282.0	3295.5	3301.7	3299.6	3346.3	3452.1	3489.5	3615.0	3647.2	3476.0	3215.6
30°	3497.8	3512.3	3517.5	3515.4	3570.4	3714.7	3757.2	3900.4	3946.0	3729.2	3405.4
32.5°	3747.9	3762.4	3777.9	3784.2	3854.7	4002.1	4063.3	4211.7	4277.0	4021.8	3634.8
35°	3995.8	4008.3	4038.4	4087.2	4183.7	4334.1	4388.1	4534.4	4597.7	4325.8	3911.8
37.5°	4269.8	4278.1	4304.0	4371.5	4510.5	4653.7	4707.6	4847.7	4855.0	4619.5	4225.2
40°	4569.6	4569.6	4564.5	4630.9	4776.1	4920.4	4967.1	5048.0	5005.4	4845.7	4530.2
42.5°	4823.9	4819.7	4823.9	4886.1	4994.0	5111.3	5151.7	5136.2	5082.2	5018.9	4806.2
45°	5053.2	5056.3	5093.6	5141.4	5197.4	5266.9	5290.8	5202.6	5153.8	5158.0	5027.2
47.5°	5208.8	5211.9	5299.1	5379.0	5413.2	5435.0	5424.6	5302.2	5277.3	5324.0	5197.4
50°	5229.6	5246.2	5396.6	5560.6	5645.7	5648.8	5619.7	5470.3	5463.0	5515.9	5288.7
52.5°	5233.7	5250.3	5438.1	5733.8	5954.9	6001.6	5968.3	5812.7	5737.0	5684.0	5400.8
55°	5218.2	5236.8	5444.4	5850.1	6273.4	6460.2	6463.3	6243.3	6001.6	5966.3	5720.4
57.5°	4607.0	4614.3	4935.9	5554.3	6261.0	6790.1	6830.6	6531.8	6255.8	6222.6	5976.6
60°	3209.3	3238.4	3588.1	4404.7	5259.7	6192.5	6323.2	6236.1	6051.4	5809.6	5127.9
62.5°	1607.3	1632.2	1982.9	2754.9	3627.5	4364.2	4504.3	4596.6	4640.2	4380.8	3491.6
65°	692.1	710.8	928.7	1439.2	2053.4	2409.3	2458.1	2569.1	2841.0	2534.9	1881.2
67.5°	462.8	475.2	586.3	877.8	1209.9	1232.7	1225.4	1249.3	1308.4	1080.2	849.8
70°	354.9	365.2	439.9	643.3	869.5	744.0	704.5	639.2	694.2	707.7	689.0
72.5°	257.3	265.6	321.7	438.9	544.7	475.2	469.0	502.2	576.9	597.7	586.3
75°	166.0	170.2	204.4	240.7	281.2	305.1	317.5	377.7	453.4	469.0	455.5
77.5°	111.0	114.1	133.9	154.6	159.8	160.8	165.0	192.0	243.8	272.9	269.8
80°	58.1	58.1	65.4	65.4	74.7	89.2	93.4	111.0	134.9	149.4	150.5
82.5°	22.8	23.9	28.0	31.1	37.4	45.7	48.8	58.1	70.6	80.9	90.3
85°	9.3	10.4	11.4	13.5	16.6	20.8	21.8	24.9	33.2	41.5	46.7
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	3.1	4.2	5.2	9.3	12.5
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°	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0	2291.0
2.5°	2298.3	2284.8	2298.3	2302.5	2313.9	2318.0	2310.8	2309.7	2309.7	2299.3	2296.2
5°	2313.9	2301.4	2314.9	2321.1	2337.7	2348.1	2350.2	2358.5	2363.7	2359.5	2358.5
7.5°	2352.3	2336.7	2351.2	2360.6	2382.4	2399.0	2406.2	2424.9	2438.4	2436.3	2435.3
10°	2419.7	2399.0	2415.6	2431.1	2455.0	2474.7	2475.7	2486.1	2499.6	2495.5	2493.4
12.5°	2497.5	2477.8	2496.5	2512.1	2540.1	2548.4	2534.9	2530.7	2532.8	2527.6	2523.5
15°	2593.0	2565.0	2581.6	2599.2	2614.8	2605.4	2576.4	2565.0	2563.9	2556.7	2552.5
17.5°	2688.5	2653.2	2665.6	2675.0	2667.7	2638.6	2602.3	2582.6	2573.3	2558.8	2554.6
20°	2782.9	2738.3	2736.2	2728.9	2695.7	2642.8	2594.0	2554.6	2530.7	2511.0	2503.8
22.5°	2890.8	2828.5	2797.4	2764.2	2691.6	2605.4	2531.8	2475.7	2437.4	2412.4	2404.1
25°	3007.0	2918.8	2854.5	2788.1	2650.1	2525.5	2422.8	2346.0	2300.4	2273.4	2264.1
27.5°	3122.2	3000.8	2904.3	2791.2	2567.1	2410.4	2272.4	2168.6	2123.0	2101.2	2093.9
30°	3277.8	3109.7	2963.4	2750.7	2458.1	2250.6	2078.3	1973.5	1943.4	1927.9	1921.7
32.5°	3457.3	3247.7	3042.3	2665.6	2319.1	2063.8	1882.2	1809.6	1788.8	1758.8	1757.7
35°	3693.9	3444.9	3117.0	2540.1	2143.7	1863.6	1731.8	1679.9	1642.5	1594.8	1590.7
37.5°	3969.9	3690.8	3157.5	2380.3	1939.3	1698.6	1619.7	1561.6	1501.4	1438.1	1429.8
40°	4255.2	3978.2	3160.6	2191.4	1739.0	1589.6	1523.2	1447.5	1372.8	1302.2	1292.9
42.5°	4555.1	4245.9	3105.6	1973.5	1575.1	1495.2	1427.8	1332.3	1248.2	1200.5	1195.3
45°	4822.8	4461.7	2981.1	1744.2	1453.7	1416.3	1330.2	1227.5	1182.9	1148.6	1141.4
47.5°	5033.5	4604.9	2813.0	1538.8	1355.1	1335.4	1223.3	1170.4	1136.2	1105.1	1097.8
50°	5137.2	4637.1	2594.0	1371.7	1263.8	1239.9	1163.2	1122.7	1099.9	1075.0	1068.7
52.5°	5265.9	4673.4	2405.2	1231.6	1174.6	1142.4	1113.4	1081.2	1064.6	1049.0	1043.8
55°	5561.6	4810.4	2305.6	1119.6	1089.5	1075.0	1070.8	1043.8	1038.7	1028.3	1018.9
57.5°	5682.0	4722.2	2070.0	1028.3	1022.0	1024.1	1034.5	1009.6	1004.4	992.0	985.7
60°	4569.6	3569.4	1401.8	949.4	966.0	979.5	989.9	965.0	957.7	955.6	947.3
62.5°	2928.1	2195.6	978.5	875.7	900.6	917.2	923.5	899.6	894.4	911.0	912.1
65°	1524.3	1196.4	793.8	796.9	817.6	842.5	855.0	846.7	844.6	862.3	863.3
67.5°	778.2	731.5	692.1	703.5	720.1	752.3	781.3	817.6	830.1	832.2	833.2
70°	663.0	642.3	622.6	629.8	647.5	665.1	693.1	710.8	690.0	684.8	682.7
72.5°	564.5	548.9	539.6	547.9	557.2	554.1	545.8	554.1	557.2	558.2	559.3
75°	438.9	427.5	420.2	421.3	421.3	409.9	394.3	385.0	374.6	366.3	366.3
77.5°	268.7	270.8	278.1	277.0	276.0	271.9	256.3	248.0	223.1	215.8	215.8
80°	153.6	156.7	163.9	166.0	166.0	160.8	145.3	135.9	124.5	119.3	118.3
82.5°	93.4	97.5	101.7	103.8	104.8	98.6	85.1	77.8	71.6	66.4	66.4
85°	48.8	50.8	55.0	56.0	52.9	46.7	39.4	36.3	30.1	29.1	29.1
87.5°	13.5	14.5	16.6	13.5	12.5	9.3	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)