

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: P633272

Luminaire Tested: GWS-SA2E-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633272
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-SA2E-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12282.9 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

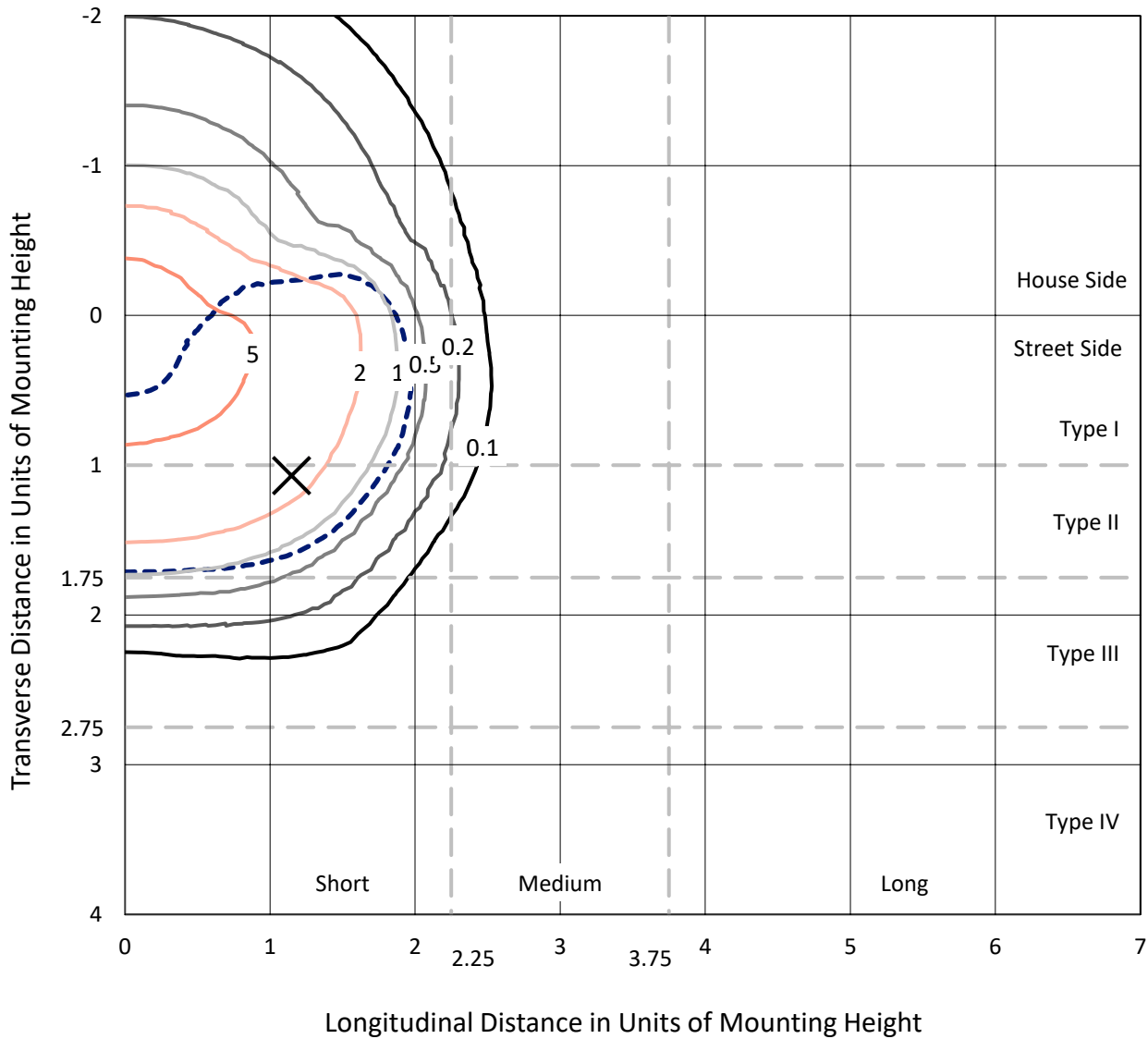
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633272
 CATALOG NUMBER: GWS-SA2E-735-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

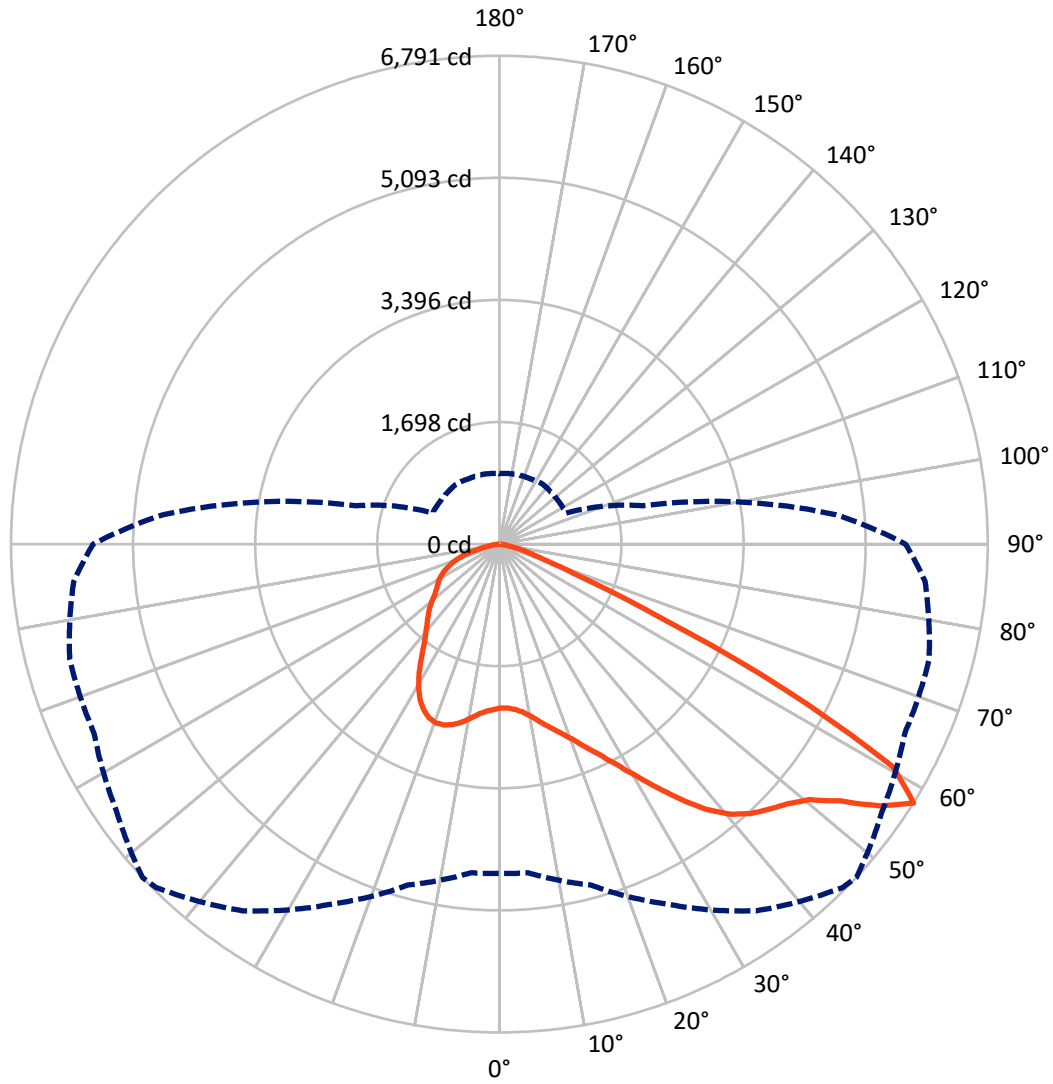
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P633272
CATALOG NUMBER: GWS-SA2E-735-U-T3-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633272

CATALOG NUMBER: GWS-SA2E-735-U-T3-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3887.5	0.0	3887.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8395.4	0.0	8395.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	12282.9	0.0	12282.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	1.8
10°-20°	739.0	6.0
20°-30°	1330.6	10.8
30°-40°	2009.7	16.4
40°-50°	2706.3	22.0
50°-60°	3251.9	26.5
60°-70°	1583.8	12.9
70°-80°	390.2	3.2
80°-90°	46.9	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°	12282.9	100.0
0°-180°	12282.9	100.0

Coefficient of Utilization



REPORT NUMBER: P633272

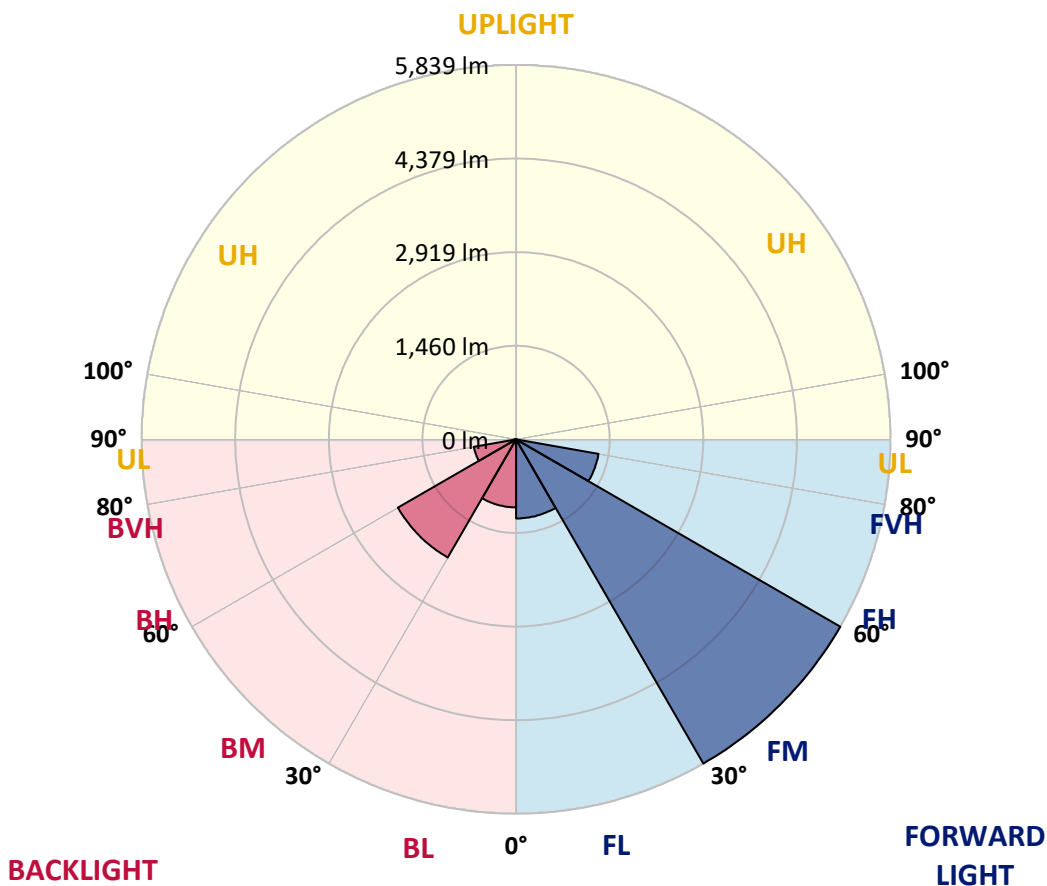
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.8	10.0			
FM (30°-60°)	5838.7	47.5			
FH (60°-80°)	1305.3	10.6			G1/1800
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1060.4	8.6	B3/2500		
BM (30°-60°)	2129.2	17.3	B2/2500		
BH (60°-80°)	668.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.3	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





REPORT NUMBER: P633272

CATALOG NUMBER: GWS-SA2E-735-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9
2.5°	2273.8	2272.7	2272.7	2278.9	2278.9	2281.0	2284.1	2287.2	2288.2	2283.0	2271.7
5°	2298.5	2298.5	2298.5	2303.7	2303.7	2305.7	2309.9	2310.9	2309.9	2301.6	2290.3
7.5°	2337.7	2337.7	2338.7	2344.9	2350.1	2353.2	2360.4	2359.4	2356.3	2342.9	2328.4
10°	2401.7	2404.8	2407.9	2415.1	2425.4	2432.6	2437.8	2437.8	2433.7	2413.0	2394.5
12.5°	2492.5	2496.6	2499.7	2505.9	2514.1	2526.5	2537.9	2537.9	2532.7	2506.9	2479.1
15°	2598.7	2602.9	2601.8	2603.9	2619.4	2636.9	2646.2	2652.4	2654.4	2618.3	2575.0
17.5°	2720.5	2724.6	2720.5	2714.3	2716.3	2744.2	2760.7	2783.4	2796.8	2748.3	2679.2
20°	2830.8	2826.7	2826.7	2830.8	2837.0	2871.1	2895.8	2933.0	2949.5	2890.7	2783.4
22.5°	2947.4	2956.7	2952.6	2952.6	2977.3	3034.1	3064.0	3112.5	3130.0	3053.7	2909.3
25°	3098.0	3106.3	3104.2	3106.3	3135.2	3215.7	3245.6	3335.3	3352.9	3243.5	3048.5
27.5°	3263.1	3276.5	3282.7	3280.6	3327.1	3432.3	3469.4	3594.3	3626.2	3456.0	3197.1
30°	3477.7	3492.1	3497.3	3495.2	3549.9	3693.3	3735.6	3878.0	3923.4	3707.7	3385.9
32.5°	3726.3	3740.8	3756.2	3762.4	3832.6	3979.1	4039.9	4187.5	4252.5	3998.7	3613.9
35°	3972.9	3985.3	4015.2	4063.7	4159.6	4309.2	4362.8	4508.3	4571.2	4300.9	3889.3
37.5°	4245.2	4253.5	4279.3	4346.3	4484.6	4626.9	4680.6	4819.9	4827.1	4592.9	4200.9
40°	4543.4	4543.4	4538.2	4604.3	4748.7	4892.1	4938.5	5019.0	4976.7	4817.8	4504.2
42.5°	4796.1	4792.0	4796.1	4858.0	4965.3	5081.9	5122.1	5106.7	5053.0	4990.1	4778.6
45°	5024.1	5027.2	5064.4	5111.8	5167.5	5236.7	5260.4	5172.7	5124.2	5128.3	4998.3
47.5°	5178.9	5182.0	5268.6	5348.1	5382.1	5403.8	5393.5	5271.7	5247.0	5293.4	5167.5
50°	5199.5	5216.0	5365.6	5528.6	5613.2	5616.3	5587.4	5438.9	5431.6	5484.2	5258.3
52.5°	5203.6	5220.1	5406.9	5700.9	5920.6	5967.1	5934.0	5779.3	5704.0	5651.4	5369.7
55°	5188.2	5206.7	5413.1	5816.4	6237.4	6423.0	6426.1	6207.4	5967.1	5932.0	5687.5
57.5°	4580.5	4587.7	4907.6	5522.4	6225.0	6751.1	6791.3	6494.2	6219.8	6186.8	5942.3
60°	3190.9	3219.8	3567.4	4379.4	5229.4	6156.9	6286.9	6200.2	6016.6	5776.2	5098.4
62.5°	1598.0	1622.8	1971.5	2739.0	3606.6	4339.1	4478.4	4570.2	4613.5	4355.6	3471.5
65°	688.1	706.7	923.3	1430.9	2041.6	2395.5	2444.0	2554.4	2824.7	2520.3	1870.4
67.5°	460.1	472.5	582.9	872.8	1202.9	1225.6	1218.4	1242.1	1300.9	1073.9	844.9
70°	352.8	363.1	437.4	639.6	864.5	739.7	700.5	635.5	690.2	703.6	685.0
72.5°	255.8	264.1	319.8	436.4	541.6	472.5	466.3	499.3	573.6	594.2	582.9
75°	165.1	169.2	203.2	239.3	279.6	303.3	315.7	375.5	450.8	466.3	452.9
77.5°	110.4	113.5	133.1	153.7	158.9	159.9	164.0	190.9	242.4	271.3	268.2
80°	57.8	57.8	65.0	65.0	74.3	88.7	92.8	110.4	134.1	148.6	149.6
82.5°	22.7	23.7	27.9	30.9	37.1	45.4	48.5	57.8	70.2	80.5	89.8
85°	9.3	10.3	11.3	13.4	16.5	20.6	21.7	24.8	33.0	41.3	46.4
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	3.1	4.1	5.2	9.3	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633272

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9
2.5°	2285.1	2271.7	2285.1	2289.2	2300.6	2304.7	2297.5	2296.5	2296.5	2286.1	2283.0
5°	2300.6	2288.2	2301.6	2307.8	2324.3	2334.6	2336.7	2344.9	2350.1	2346.0	2344.9
7.5°	2338.7	2323.3	2337.7	2347.0	2368.7	2385.2	2392.4	2411.0	2424.4	2422.3	2421.3
10°	2405.8	2385.2	2401.7	2417.2	2440.9	2460.5	2461.5	2471.8	2485.2	2481.1	2479.1
12.5°	2483.2	2463.6	2482.1	2497.6	2525.5	2533.7	2520.3	2516.2	2518.3	2513.1	2509.0
15°	2578.1	2550.2	2566.7	2584.3	2599.8	2590.5	2561.6	2550.2	2549.2	2542.0	2537.9
17.5°	2673.0	2637.9	2650.3	2659.6	2652.4	2623.5	2587.4	2567.8	2558.5	2544.0	2539.9
20°	2766.9	2722.5	2720.5	2713.2	2680.2	2627.6	2579.1	2539.9	2516.2	2496.6	2489.4
22.5°	2874.2	2812.3	2781.3	2748.3	2676.1	2590.5	2517.2	2461.5	2423.3	2398.6	2390.3
25°	2989.7	2902.0	2838.1	2772.0	2634.8	2511.0	2408.9	2332.6	2287.2	2260.3	2251.1
27.5°	3104.2	2983.5	2887.6	2775.1	2552.3	2396.5	2259.3	2156.1	2110.8	2089.1	2081.9
30°	3259.0	3091.9	2946.4	2734.9	2444.0	2237.6	2066.4	1962.2	1932.3	1916.8	1910.6
32.5°	3437.5	3229.1	3024.8	2650.3	2305.7	2052.0	1871.4	1799.2	1778.6	1748.6	1747.6
35°	3672.7	3425.1	3099.1	2525.5	2131.4	1852.8	1721.8	1670.2	1633.1	1585.6	1581.5
37.5°	3947.1	3669.6	3139.3	2366.6	1928.2	1688.8	1610.4	1552.6	1492.8	1429.9	1421.6
40°	4230.8	3955.3	3142.4	2178.8	1729.0	1580.5	1514.5	1439.2	1364.9	1294.7	1285.4
42.5°	4528.9	4221.5	3087.7	1962.2	1566.0	1486.6	1419.5	1324.6	1241.1	1193.6	1188.5
45°	4795.1	4436.1	2963.9	1734.2	1445.3	1408.2	1322.6	1220.4	1176.1	1142.0	1134.8
47.5°	5004.5	4578.5	2796.8	1529.9	1347.3	1327.7	1216.3	1163.7	1129.7	1098.7	1091.5
50°	5107.7	4610.4	2579.1	1363.8	1256.5	1232.8	1156.5	1116.2	1093.5	1068.8	1062.6
52.5°	5235.6	4646.5	2391.4	1224.6	1167.8	1135.8	1107.0	1075.0	1058.5	1043.0	1037.8
55°	5529.6	4782.7	2292.3	1113.1	1083.2	1068.8	1064.7	1037.8	1032.7	1022.4	1013.1
57.5°	5649.3	4695.0	2058.1	1022.4	1016.2	1018.2	1028.6	1003.8	998.6	986.3	980.1
60°	4543.4	3548.9	1393.8	944.0	960.5	973.9	984.2	959.4	952.2	950.1	941.9
62.5°	2911.3	2183.0	972.8	870.7	895.5	912.0	918.2	894.4	889.3	905.8	906.8
65°	1515.5	1189.5	789.2	792.3	812.9	837.7	850.1	841.8	839.8	857.3	858.3
67.5°	773.7	727.3	688.1	699.5	716.0	747.9	776.8	812.9	825.3	827.4	828.4
70°	659.2	638.6	619.0	626.2	643.7	661.3	689.1	706.7	686.0	680.9	678.8
72.5°	561.2	545.7	536.5	544.7	554.0	550.9	542.6	550.9	554.0	555.0	556.1
75°	436.4	425.0	417.8	418.8	418.8	407.5	392.0	382.7	372.4	364.2	364.2
77.5°	267.2	269.3	276.5	275.5	274.4	270.3	254.8	246.6	221.8	214.6	214.6
80°	152.7	155.8	163.0	165.1	165.1	159.9	144.4	135.1	123.8	118.6	117.6
82.5°	92.8	97.0	101.1	103.2	104.2	98.0	84.6	77.4	71.2	66.0	66.0
85°	48.5	50.6	54.7	55.7	52.6	46.4	39.2	36.1	29.9	28.9	28.9
87.5°	13.4	14.4	16.5	13.4	12.4	9.3	5.2	4.1	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)