

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: P637067

Luminaire Tested: GWS-SA4C-722-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637067
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-SA4C-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12203.9 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

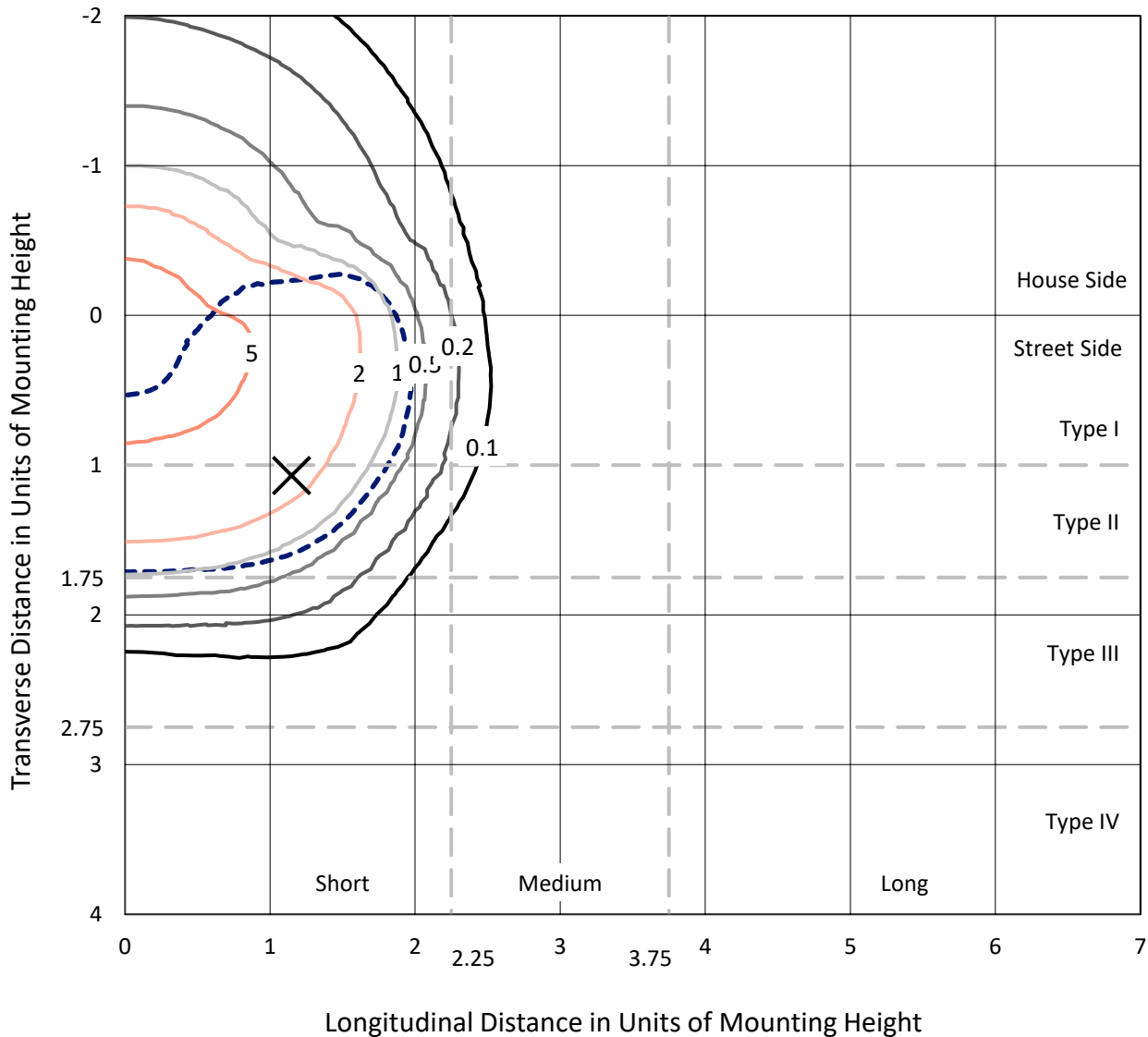
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

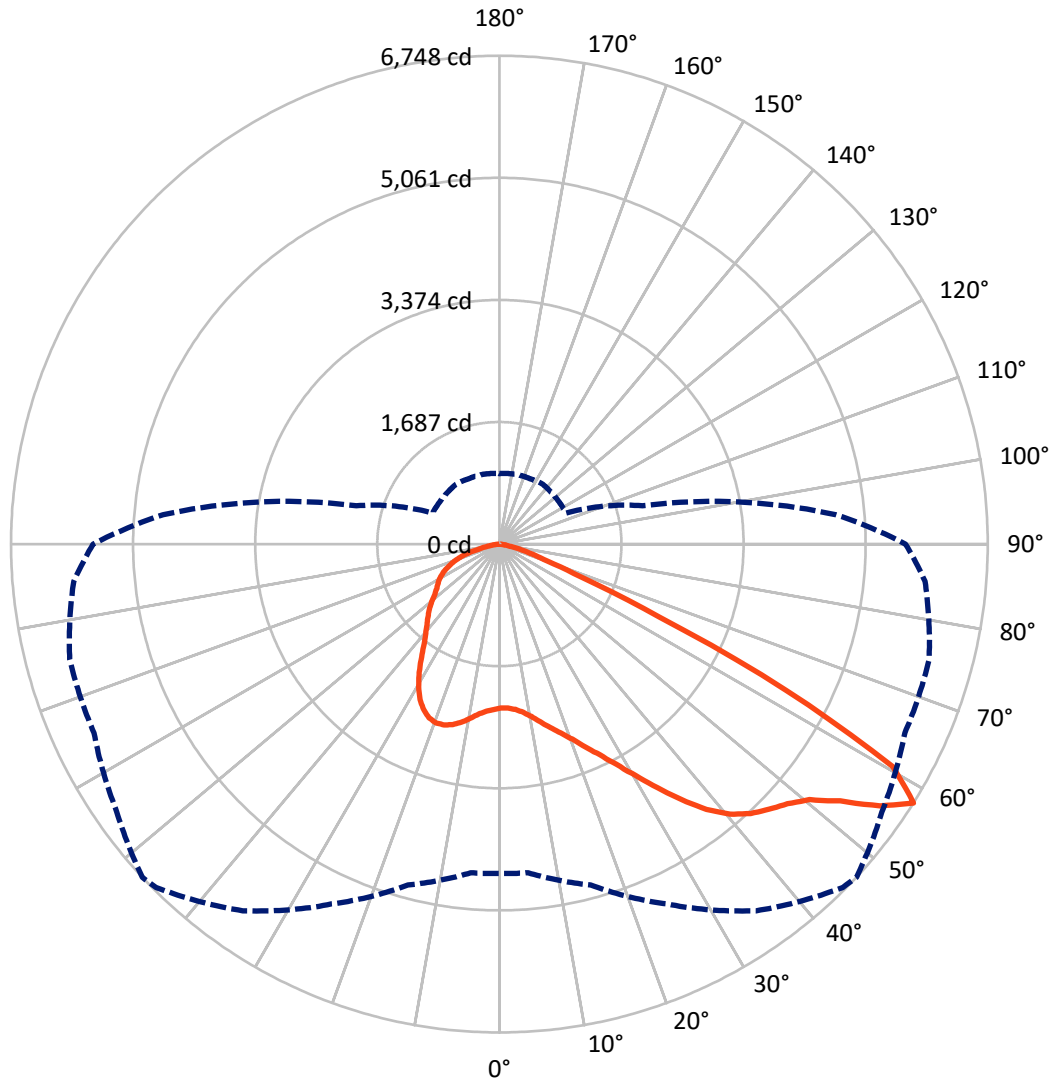
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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	3862.5	0.0	3862.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8341.4	0.0	8341.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	12203.9	0.0	12203.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	1.8
10°-20°	734.2	6.0
20°-30°	1322.0	10.8
30°-40°	1996.7	16.4
40°-50°	2688.9	22.0
50°-60°	3231.0	26.5
60°-70°	1573.6	12.9
70°-80°	387.7	3.2
80°-90°	46.6	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°	12203.9	100.0
0°-180°	12203.9	100.0

Coefficient of Utilization



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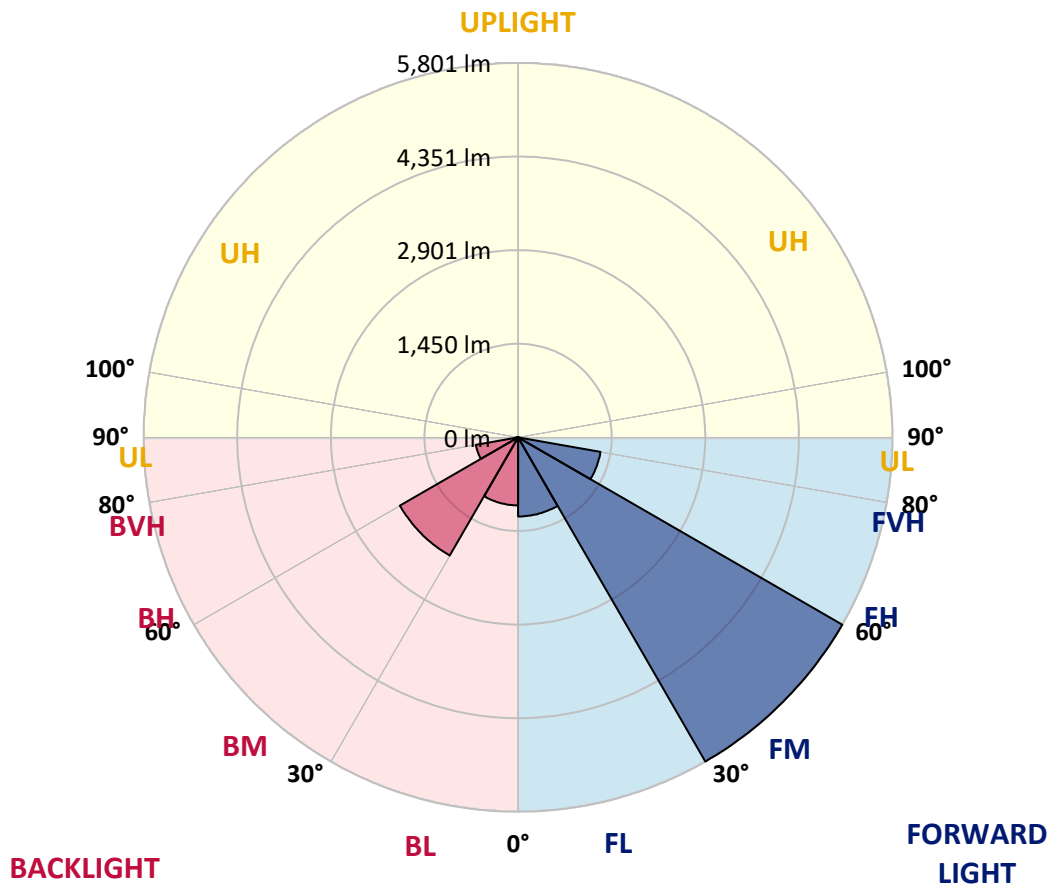
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.8	10.0			
FM (30°-60°)	5801.2	47.5			
FH (60°-80°)	1296.9	10.6			G1/1800
FVH (80°-90°)	17.5	0.1			G1/100
BL (0°-30°)	1053.6	8.6	B3/2500		
BM (30°-60°)	2115.5	17.3	B2/2500		
BH (60°-80°)	664.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.1	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°	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2
2.5°	2259.1	2258.1	2258.1	2264.3	2264.3	2266.3	2269.4	2272.5	2273.5	2268.4	2257.1
5°	2283.7	2283.7	2283.7	2288.9	2288.9	2290.9	2295.0	2296.0	2295.0	2286.8	2275.5
7.5°	2322.7	2322.7	2323.7	2329.9	2335.0	2338.1	2345.2	2344.2	2341.1	2327.8	2313.5
10°	2386.2	2389.3	2392.4	2399.6	2409.8	2417.0	2422.1	2422.1	2418.0	2397.5	2379.1
12.5°	2476.4	2480.5	2483.6	2489.8	2498.0	2510.3	2521.5	2521.5	2516.4	2490.8	2463.1
15°	2582.0	2586.1	2585.1	2587.1	2602.5	2619.9	2629.2	2635.3	2637.4	2601.5	2558.4
17.5°	2703.0	2707.1	2703.0	2696.8	2698.9	2726.5	2742.9	2765.5	2778.8	2730.6	2662.0
20°	2812.6	2808.5	2808.5	2812.6	2818.8	2852.6	2877.2	2914.1	2930.5	2872.1	2765.5
22.5°	2928.5	2937.7	2933.6	2933.6	2958.2	3014.6	3044.3	3092.5	3109.9	3034.0	2890.5
25°	3078.1	3086.3	3084.3	3086.3	3115.0	3195.0	3224.7	3313.9	3331.3	3222.6	3028.9
27.5°	3242.1	3255.4	3261.6	3259.5	3305.7	3410.2	3447.1	3571.1	3602.9	3433.8	3176.5
30°	3455.3	3469.7	3474.8	3472.7	3527.1	3669.6	3711.6	3853.0	3898.1	3683.9	3364.1
32.5°	3702.4	3716.7	3732.1	3738.2	3807.9	3953.5	4014.0	4160.5	4225.1	3973.0	3590.6
35°	3947.3	3959.6	3989.4	4037.5	4132.9	4281.5	4334.8	4479.3	4541.8	4273.3	3864.3
37.5°	4217.9	4226.1	4251.8	4318.4	4455.7	4597.2	4650.5	4788.9	4796.0	4563.4	4173.9
40°	4514.2	4514.2	4509.0	4574.6	4718.1	4860.6	4906.7	4986.7	4944.7	4786.8	4475.2
42.5°	4765.3	4761.2	4765.3	4826.8	4933.4	5049.2	5089.2	5073.8	5020.5	4958.0	4747.9
45°	4991.8	4994.9	5031.8	5078.9	5134.3	5203.0	5226.5	5139.4	5091.2	5095.3	4966.2
47.5°	5145.6	5148.6	5234.7	5313.7	5347.5	5369.0	5358.8	5237.8	5213.2	5259.3	5134.3
50°	5166.1	5182.5	5331.1	5493.0	5577.1	5580.2	5551.5	5403.9	5396.7	5449.0	5224.5
52.5°	5170.2	5186.6	5372.1	5664.2	5882.6	5928.7	5895.9	5742.1	5667.3	5615.0	5335.2
55°	5154.8	5173.2	5378.2	5779.0	6197.2	6381.7	6384.8	6167.5	5928.7	5893.8	5650.9
57.5°	4551.1	4558.2	4876.0	5486.9	6184.9	6707.7	6747.7	6452.5	6179.8	6147.0	5904.1
60°	3170.4	3199.1	3544.5	4351.2	5195.8	6117.3	6246.4	6160.3	5977.9	5739.1	5065.6
62.5°	1587.7	1612.3	1958.8	2721.4	3583.4	4311.2	4449.6	4540.8	4583.9	4327.6	3449.2
65°	683.7	702.1	917.4	1421.7	2028.5	2380.1	2428.3	2537.9	2806.5	2504.1	1858.4
67.5°	457.2	469.5	579.1	867.2	1195.2	1217.7	1210.5	1234.1	1292.5	1067.0	839.5
70°	350.6	360.8	434.6	635.5	859.0	734.9	696.0	631.4	685.7	699.1	680.6
72.5°	254.2	262.4	317.8	433.6	538.1	469.5	463.3	496.1	569.9	590.4	579.1
75°	164.0	168.1	201.9	237.8	277.8	301.4	313.7	373.1	447.9	463.3	450.0
77.5°	109.7	112.8	132.2	152.7	157.9	158.9	163.0	189.6	240.9	269.6	266.5
80°	57.4	57.4	64.6	64.6	73.8	88.2	92.3	109.7	133.3	147.6	148.6
82.5°	22.6	23.6	27.7	30.8	36.9	45.1	48.2	57.4	69.7	80.0	89.2
85°	9.2	10.3	11.3	13.3	16.4	20.5	21.5	24.6	32.8	41.0	46.1
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	3.1	4.1	5.1	9.2	12.3
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°	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2	2263.2
2.5°	2270.4	2257.1	2270.4	2274.5	2285.8	2289.9	2282.7	2281.7	2281.7	2271.4	2268.4
5°	2285.8	2273.5	2286.8	2293.0	2309.4	2319.6	2321.7	2329.9	2335.0	2330.9	2329.9
7.5°	2323.7	2308.3	2322.7	2331.9	2353.4	2369.8	2377.0	2395.5	2408.8	2406.7	2405.7
10°	2390.3	2369.8	2386.2	2401.6	2425.2	2444.7	2445.7	2455.9	2469.3	2465.2	2463.1
12.5°	2467.2	2447.7	2466.2	2481.6	2509.2	2517.4	2504.1	2500.0	2502.1	2496.9	2492.8
15°	2561.5	2533.8	2550.2	2567.7	2583.0	2573.8	2545.1	2533.8	2532.8	2525.6	2521.5
17.5°	2655.8	2621.0	2633.3	2642.5	2635.3	2606.6	2570.7	2551.3	2542.0	2527.7	2523.6
20°	2749.1	2705.0	2703.0	2695.8	2663.0	2610.7	2562.5	2523.6	2500.0	2480.5	2473.4
22.5°	2855.7	2794.2	2763.4	2730.6	2658.9	2573.8	2501.0	2445.7	2407.8	2383.2	2375.0
25°	2970.5	2883.4	2819.8	2754.2	2617.9	2494.9	2393.4	2317.6	2272.5	2245.8	2236.6
27.5°	3084.3	2964.3	2869.0	2757.3	2535.9	2381.1	2244.8	2142.3	2097.2	2075.7	2068.5
30°	3238.0	3072.0	2927.4	2717.3	2428.3	2223.3	2053.1	1949.6	1919.9	1904.5	1898.3
32.5°	3415.3	3208.3	3005.3	2633.3	2290.9	2038.8	1859.4	1787.6	1767.1	1737.4	1736.4
35°	3649.0	3403.0	3079.1	2509.2	2117.7	1840.9	1710.7	1659.5	1622.6	1575.4	1571.3
37.5°	3921.7	3646.0	3119.1	2351.4	1915.8	1677.9	1600.0	1542.6	1483.2	1420.7	1412.5
40°	4203.6	3929.9	3122.2	2164.8	1717.9	1570.3	1504.7	1429.9	1356.1	1286.4	1277.2
42.5°	4499.8	4194.4	3067.9	1949.6	1556.0	1477.0	1410.4	1316.1	1233.1	1185.9	1180.8
45°	4764.3	4407.6	2944.9	1723.0	1436.0	1399.1	1314.1	1212.6	1168.5	1134.7	1127.5
47.5°	4972.3	4549.0	2778.8	1520.1	1338.7	1319.2	1208.5	1156.2	1122.4	1091.6	1084.5
50°	5074.8	4580.8	2562.5	1355.1	1248.5	1224.9	1149.0	1109.1	1086.5	1061.9	1055.8
52.5°	5201.9	4616.7	2376.0	1216.7	1160.3	1128.5	1099.8	1068.1	1051.7	1036.3	1031.2
55°	5494.1	4752.0	2277.6	1106.0	1076.3	1061.9	1057.8	1031.2	1026.0	1015.8	1006.6
57.5°	5613.0	4664.8	2044.9	1015.8	1009.6	1011.7	1021.9	997.3	992.2	979.9	973.8
60°	4514.2	3526.0	1384.8	937.9	954.3	967.6	977.9	953.3	946.1	944.0	935.8
62.5°	2892.6	2168.9	966.6	865.1	889.7	906.1	912.3	888.7	883.6	900.0	901.0
65°	1505.7	1181.8	784.1	787.2	807.7	832.3	844.6	836.4	834.4	851.8	852.8
67.5°	768.8	722.6	683.7	695.0	711.4	743.1	771.8	807.7	820.0	822.1	823.1
70°	655.0	634.5	615.0	622.2	639.6	657.0	684.7	702.1	681.6	676.5	674.5
72.5°	557.6	542.2	533.0	541.2	550.4	547.4	539.2	547.4	550.4	551.5	552.5
75°	433.6	422.3	415.1	416.2	416.2	404.9	389.5	380.3	370.0	361.8	361.8
77.5°	265.5	267.5	274.7	273.7	272.7	268.6	253.2	245.0	220.4	213.2	213.2
80°	151.7	154.8	162.0	164.0	164.0	158.9	143.5	134.3	123.0	117.9	116.9
82.5°	92.3	96.4	100.5	102.5	103.5	97.4	84.1	76.9	70.7	65.6	65.6
85°	48.2	50.2	54.3	55.4	52.3	46.1	39.0	35.9	29.7	28.7	28.7
87.5°	13.3	14.4	16.4	13.3	12.3	9.2	5.1	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)