

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: P638067

Luminaire Tested: GWS-SA4E-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22348.6 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

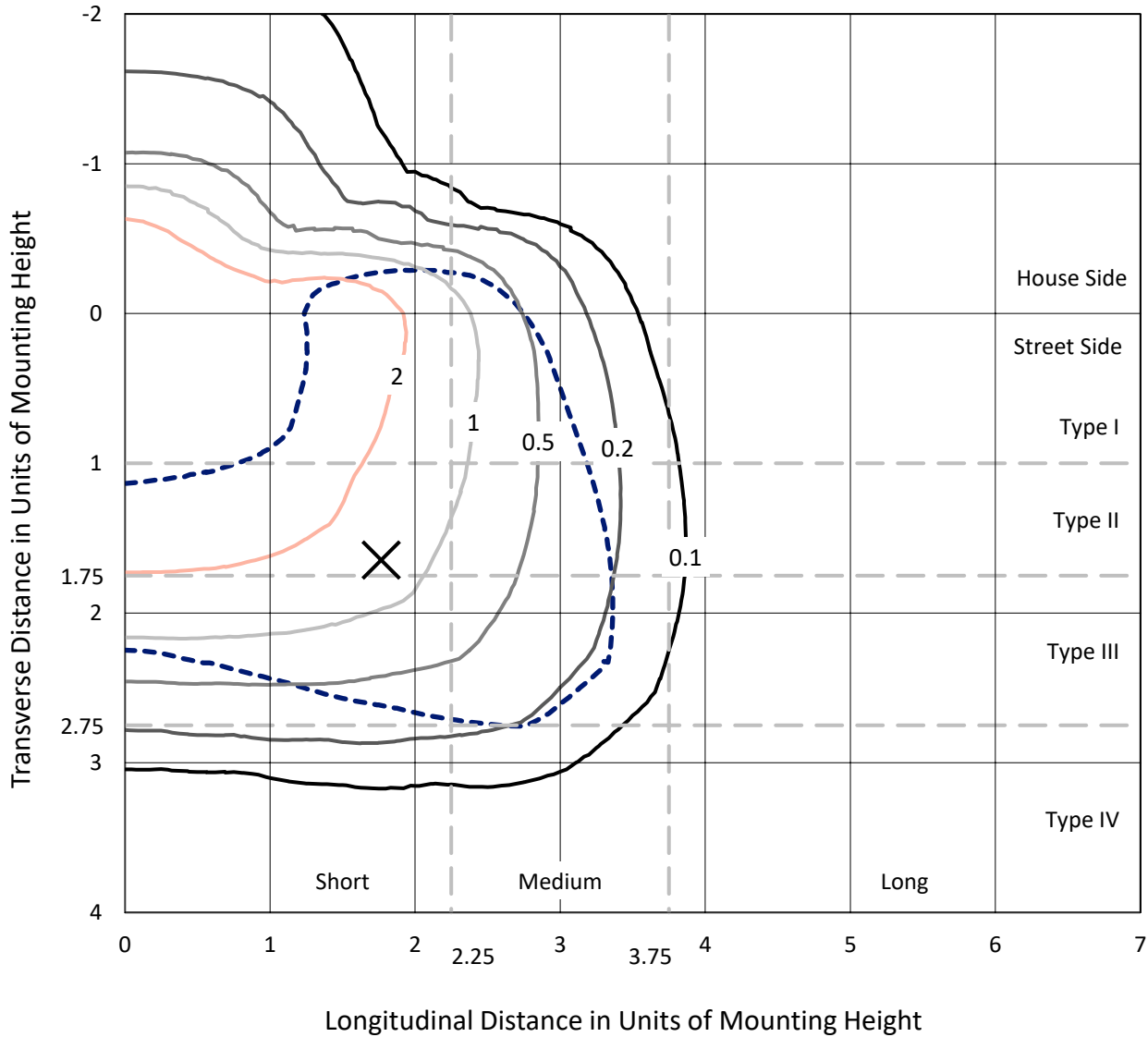
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638067
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Iso-Footcandle Lines of Horizontal Illumination

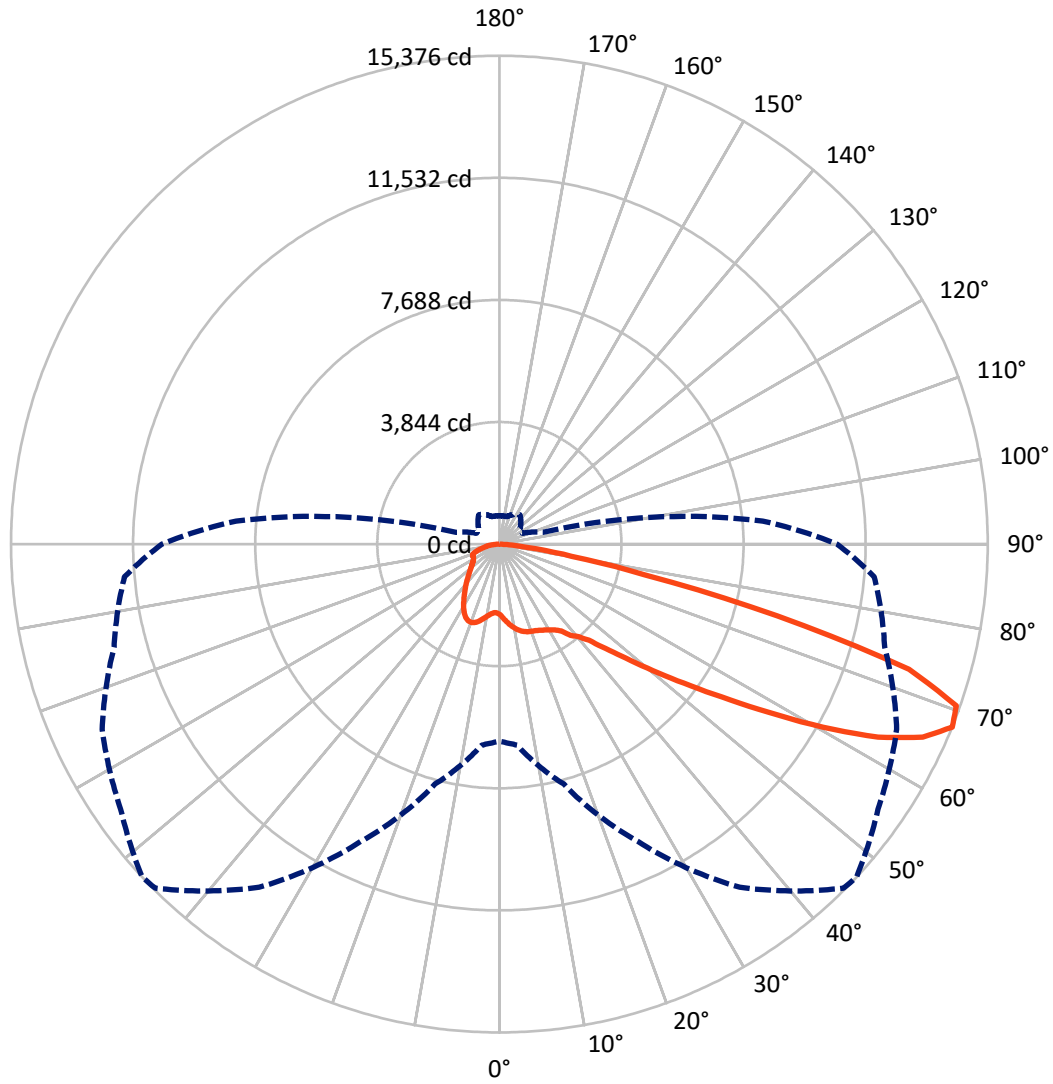
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: GWS-SA4E-722-U-T4W-W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5093.4	0.0	5093.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	17255.2	0.0	17255.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	22348.6	0.0	22348.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	1.0
10°-20°	754.4	3.4
20°-30°	1282.2	5.7
30°-40°	1878.3	8.4
40°-50°	2861.8	12.8
50°-60°	5120.4	22.9
60°-70°	6832.6	30.6
70°-80°	3089.9	13.8
80°-90°	302.7	1.4
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°	22348.6	100.0
0°-180°	22348.6	100.0

Coefficient of Utilization



REPORT NUMBER: P638067

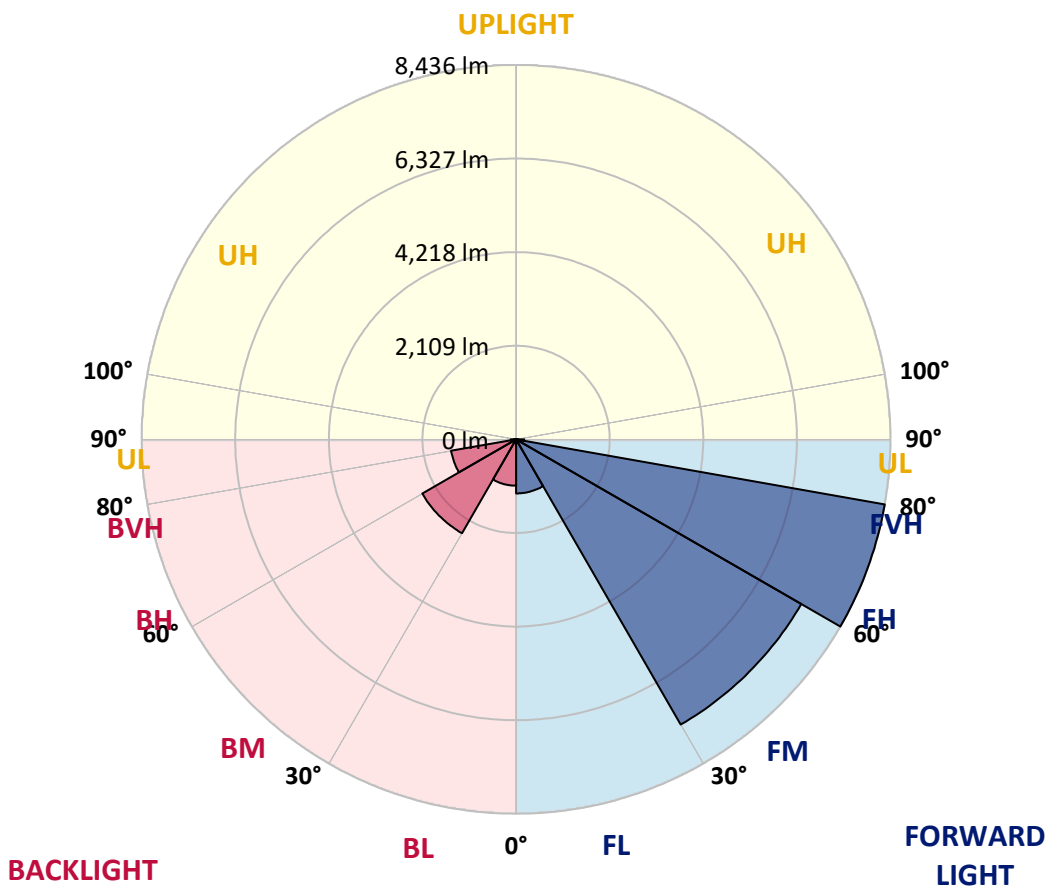
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1218.8	5.5			
FM (30°-60°)	7420.0	33.2			
FH (60°-80°)	8436.3	37.7			G4/12000
FVH (80°-90°)	180.1	0.8			G2/225
BL (0°-30°)	1044.2	4.7	B3/2500		
BM (30°-60°)	2440.5	10.9	B2/2500		
BH (60°-80°)	1486.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	122.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P638067

CATALOG NUMBER: GWS-SA4E-722-U-T4W-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5
2.5°	2362.5	2370.6	2369.0	2356.0	2348.0	2333.4	2335.0	2312.4	2278.5	2255.9	2230.0
5°	2571.0	2583.9	2567.7	2546.7	2514.4	2467.5	2462.7	2411.0	2346.3	2301.1	2254.2
7.5°	2751.9	2760.0	2740.6	2705.1	2658.2	2595.2	2583.9	2522.5	2441.7	2370.6	2302.7
10°	2892.5	2902.2	2876.4	2829.5	2768.1	2705.1	2697.0	2634.0	2548.3	2464.3	2378.7
12.5°	3012.1	3015.3	2987.9	2924.9	2858.6	2794.0	2785.9	2727.7	2648.5	2562.9	2469.2
15°	3081.6	3083.2	3049.3	2979.8	2916.8	2860.2	2855.4	2805.3	2732.6	2651.8	2551.6
17.5°	3076.7	3080.0	3055.7	2994.3	2939.4	2905.5	2900.6	2868.3	2811.7	2739.0	2638.8
20°	3017.0	3020.2	3004.0	2963.6	2934.5	2924.9	2926.5	2916.8	2882.8	2823.0	2721.2
22.5°	2970.1	2974.9	2960.4	2931.3	2928.1	2950.7	2955.6	2960.4	2944.2	2890.9	2792.3
25°	2992.7	3000.8	2978.2	2937.8	2944.2	2994.3	3004.0	3020.2	3007.3	2962.0	2876.4
27.5°	3149.5	3154.3	3096.1	3013.7	2994.3	3047.7	3062.2	3088.1	3078.4	3036.4	2970.1
30°	3513.1	3509.8	3385.4	3183.4	3102.6	3123.6	3134.9	3172.1	3175.3	3147.9	3084.8
32.5°	4025.3	4009.1	3816.8	3495.3	3261.0	3209.3	3222.2	3272.3	3309.4	3280.4	3194.7
35°	4566.6	4552.1	4340.4	3963.9	3553.5	3374.1	3359.5	3398.3	3454.9	3374.1	3251.3
37.5°	5082.1	5059.5	4843.0	4377.6	3913.8	3663.3	3642.3	3603.5	3569.6	3414.5	3320.8
40°	5654.2	5628.3	5439.3	4912.5	4311.3	3884.7	3831.4	3677.9	3647.2	3548.6	3501.7
42.5°	6265.0	6265.0	6108.3	5589.5	4791.3	4201.4	4132.0	3900.9	3933.2	3868.6	3813.6
45°	6875.8	6893.6	6769.2	6271.5	5432.8	4799.3	4687.8	4359.8	4437.4	4408.3	4380.8
47.5°	7396.2	7430.1	7405.9	6967.9	6218.1	5526.5	5356.8	5015.9	5182.3	5251.8	5329.4
50°	7956.9	7994.1	7969.8	7796.9	7137.6	6407.2	6255.3	5903.0	6189.0	6397.5	6651.2
52.5°	8789.1	8842.4	8640.4	8574.2	8254.2	7407.5	7271.7	6871.0	7389.7	7735.5	8301.1
55°	9492.0	9490.4	9419.3	9571.2	9453.2	8630.7	8480.5	8116.9	8779.4	9146.2	9973.6
57.5°	9818.5	9857.2	10101.2	10531.1	10767.0	10125.5	9981.7	9610.0	10270.9	10461.6	11355.2
60°	9986.5	10035.0	10506.8	11356.8	11991.9	11757.6	11701.0	11227.5	11599.2	11576.6	12520.3
62.5°	9750.6	9847.5	10605.4	11735.0	12866.1	13397.8	13380.0	12664.1	12728.8	12507.4	13242.6
65°	8667.9	8772.9	9962.3	11545.9	13365.4	14645.3	14650.1	13965.0	13596.5	12959.8	13121.4
67.5°	6198.7	6349.0	7819.5	10330.7	13189.3	15319.1	15375.7	14554.8	13800.1	12559.1	11848.1
70°	3378.9	3488.8	4641.0	7509.3	11602.4	15157.5	15262.6	14270.4	12901.7	10864.0	9120.4
72.5°	1535.1	1570.7	2158.9	4120.6	7926.2	13047.1	13486.6	12735.2	10595.7	8024.8	5799.6
75°	702.9	719.1	940.5	1971.4	4141.7	8730.9	9039.6	9485.6	7373.5	5067.6	3023.4
77.5°	441.2	446.0	534.9	901.7	2065.2	4358.2	4683.0	5647.7	4317.8	2507.9	1263.7
80°	260.2	265.0	332.9	488.0	969.6	1994.1	2302.7	2233.2	2029.6	1082.7	575.3
82.5°	130.9	135.7	192.3	277.9	528.4	793.4	934.0	938.9	756.3	586.6	324.8
85°	46.9	48.5	63.0	109.9	224.6	261.8	292.5	357.1	370.1	341.0	156.7
87.5°	0.0	0.0	1.6	3.2	6.5	25.9	27.5	51.7	108.3	121.2	63.0
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: P638067
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5	2215.5
2.5°	2221.9	2197.7	2189.6	2181.5	2168.6	2163.7	2154.0	2144.4	2144.4	2134.7	2129.8
5°	2233.2	2200.9	2179.9	2170.2	2162.1	2167.0	2167.0	2170.2	2181.5	2175.1	2178.3
7.5°	2273.6	2236.5	2207.4	2199.3	2199.3	2218.7	2231.6	2247.8	2268.8	2272.0	2272.0
10°	2344.7	2301.1	2270.4	2265.5	2273.6	2301.1	2320.5	2339.9	2365.7	2367.4	2370.6
12.5°	2422.3	2378.7	2348.0	2354.4	2362.5	2398.1	2419.1	2435.2	2461.1	2461.1	2459.5
15°	2503.1	2454.6	2428.8	2441.7	2465.9	2506.3	2509.6	2511.2	2524.1	2520.9	2519.3
17.5°	2587.1	2535.4	2516.0	2535.4	2561.3	2580.7	2564.5	2541.9	2537.0	2530.6	2527.3
20°	2669.5	2616.2	2608.1	2622.7	2630.8	2614.6	2564.5	2522.5	2503.1	2493.4	2490.2
22.5°	2740.6	2695.4	2690.5	2690.5	2650.1	2593.6	2519.3	2462.7	2436.8	2423.9	2420.7
25°	2824.7	2782.6	2774.6	2730.9	2627.5	2524.1	2423.9	2372.2	2351.2	2344.7	2346.3
27.5°	2923.2	2894.1	2868.3	2743.9	2562.9	2401.3	2288.2	2265.5	2257.5	2265.5	2270.4
30°	3044.4	3015.3	2957.2	2727.7	2459.5	2241.3	2133.0	2131.4	2155.7	2176.7	2179.9
32.5°	3143.0	3130.1	3034.7	2676.0	2314.0	2065.2	1973.1	1979.5	2023.2	2052.2	2057.1
35°	3220.6	3241.6	3099.4	2590.4	2141.1	1898.7	1826.0	1829.2	1853.5	1893.9	1895.5
37.5°	3330.5	3401.6	3157.5	2459.5	1942.4	1754.9	1688.7	1664.4	1661.2	1672.5	1675.7
40°	3551.8	3658.5	3199.6	2268.8	1750.1	1625.6	1551.3	1504.4	1464.0	1433.3	1423.6
42.5°	3886.3	4009.1	3223.8	2037.7	1578.8	1498.0	1413.9	1354.2	1283.1	1218.4	1195.8
45°	4500.4	4540.8	3223.8	1792.1	1426.9	1378.4	1294.4	1223.3	1132.8	1056.8	1040.7
47.5°	5482.9	5353.6	3227.0	1554.5	1292.8	1273.4	1200.6	1119.8	1019.7	956.6	946.9
50°	6963.1	6509.0	3293.3	1357.4	1181.3	1184.5	1131.2	1042.3	951.8	904.9	896.8
52.5°	8640.4	7932.6	3471.0	1212.0	1087.5	1111.8	1082.7	997.0	916.2	875.8	867.8
55°	10217.6	9241.6	3622.9	1108.5	1008.3	1050.4	1048.7	969.6	896.8	856.4	851.6
57.5°	11558.8	10138.4	3600.3	1024.5	940.5	993.8	1018.0	951.8	883.9	850.0	845.1
60°	12392.6	10613.5	3278.7	946.9	888.8	953.4	1000.3	946.9	890.4	882.3	883.9
62.5°	12754.6	10526.2	2661.5	888.8	854.8	934.0	1019.7	980.9	950.2	969.6	980.9
65°	12192.3	9776.4	1958.5	845.1	822.5	938.9	1064.9	1034.2	950.2	963.1	967.9
67.5°	10631.3	8322.1	1415.6	801.5	782.1	953.4	1129.5	1026.1	895.2	895.2	885.5
70°	7661.2	5985.4	1027.7	757.9	741.7	932.4	1132.8	971.2	832.2	827.4	803.1
72.5°	4610.3	3530.8	801.5	709.4	680.3	827.4	1061.7	906.5	770.8	730.4	701.3
75°	2394.8	1769.5	672.2	656.1	583.4	701.3	971.2	806.4	659.3	623.8	607.6
77.5°	1026.1	827.4	576.9	585.0	484.8	589.8	783.7	698.1	585.0	539.7	525.2
80°	505.8	470.2	455.7	468.6	387.8	455.7	675.5	610.8	496.1	444.4	423.4
82.5°	289.3	274.7	328.0	332.9	276.3	381.4	570.4	517.1	410.4	353.9	320.0
85°	134.1	143.8	198.8	200.4	171.3	261.8	373.3	290.9	218.2	181.0	172.9
87.5°	53.3	63.0	87.3	85.6	50.1	48.5	32.3	17.8	14.5	12.9	11.3
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)