

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: P637295

Luminaire Tested: GWS-SA4C-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18749.9 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

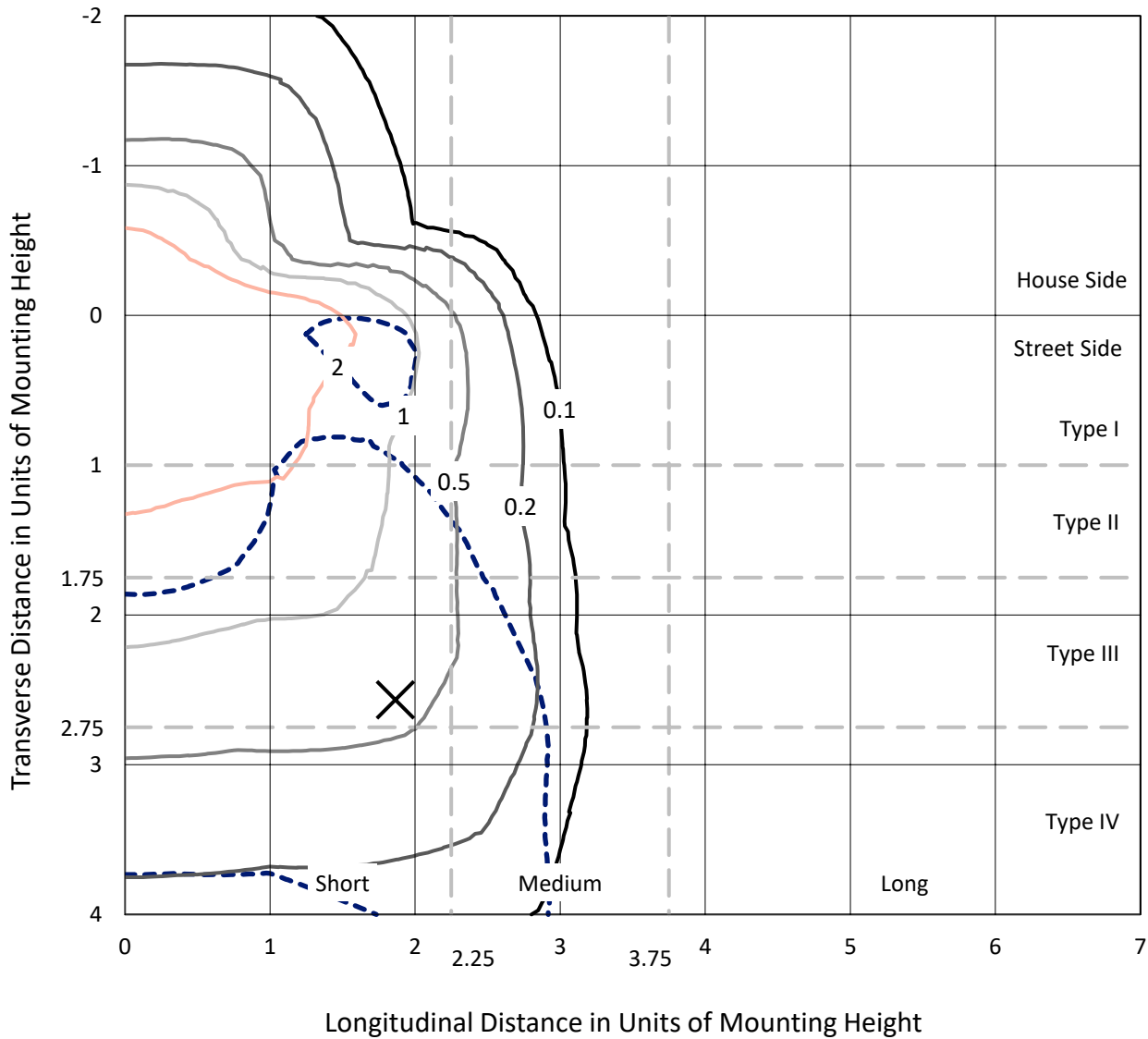
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

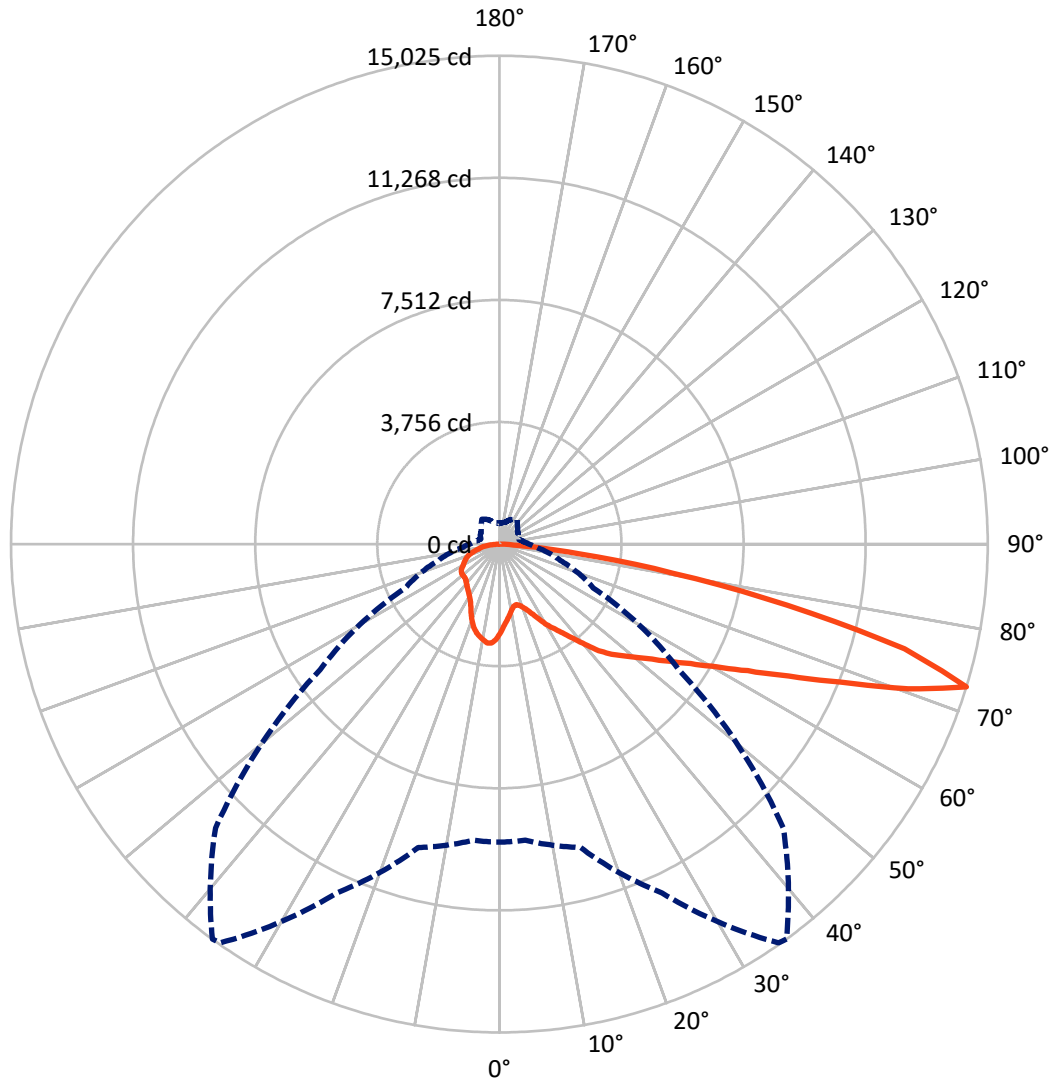
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4322.7	0.0	4322.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	14427.2	0.0	14427.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	18749.9	0.0	18749.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	1.4
10°-20°	723.7	3.9
20°-30°	1198.5	6.4
30°-40°	1794.9	9.6
40°-50°	2618.6	14.0
50°-60°	3727.1	19.9
60°-70°	4708.9	25.1
70°-80°	3355.5	17.9
80°-90°	366.3	2.0
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°	18749.9	100.0
0°-180°	18749.9	100.0

Coefficient of Utilization



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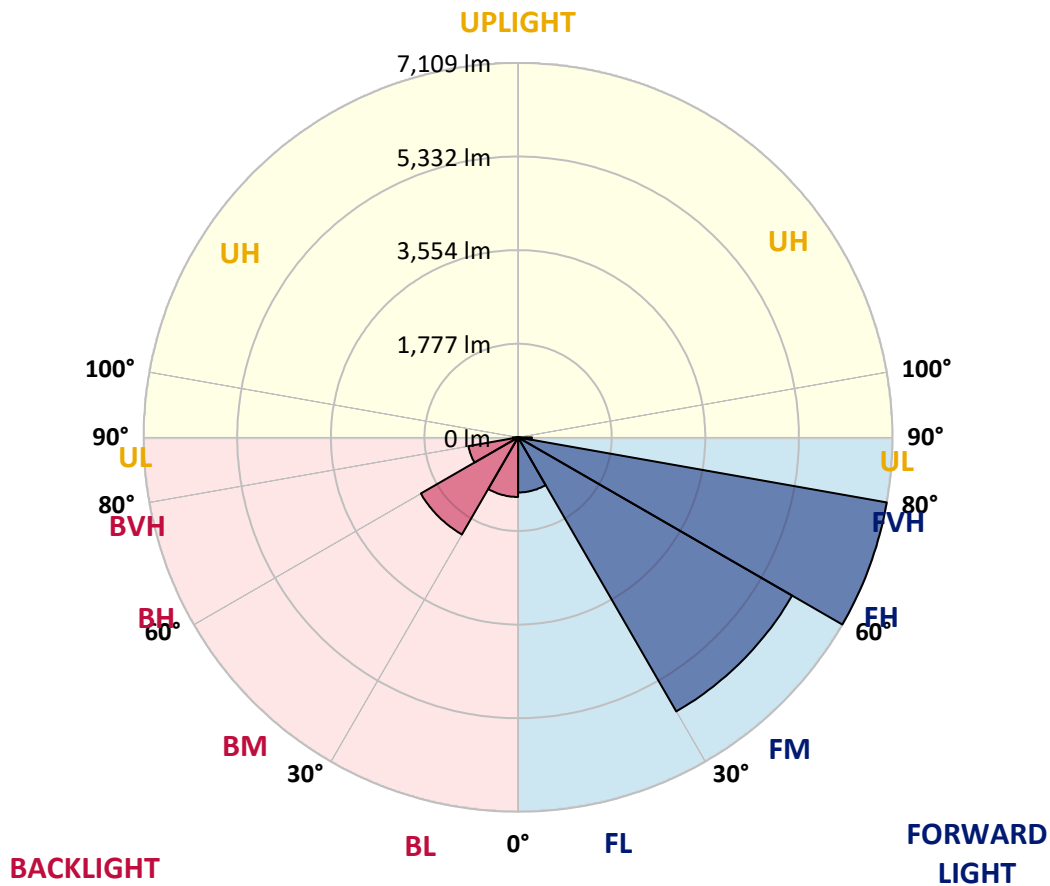
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.8	5.6			
FM (30°-60°)	6008.9	32.0			
FH (60°-80°)	7108.7	37.9			G3/7500
FVH (80°-90°)	262.9	1.4			G3/500
BL (0°-30°)	1132.0	6.0	B3/2500		
BM (30°-60°)	2131.7	11.4	B2/2500		
BH (60°-80°)	955.6	5.1	B2/1000		G2/1000
BVH (80°-90°)	103.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1
2.5°	2503.4	2499.2	2490.9	2515.9	2541.0	2538.2	2573.0	2606.4	2642.5	2680.1	2730.2
5°	2303.0	2300.2	2293.3	2330.8	2368.4	2367.0	2424.1	2478.3	2552.1	2632.8	2733.0
7.5°	2102.6	2095.7	2105.4	2152.7	2205.6	2211.2	2289.1	2378.2	2485.3	2606.4	2748.3
10°	1925.9	1924.5	1928.7	1981.6	2060.9	2066.4	2166.6	2290.5	2432.4	2593.8	2783.1
12.5°	1880.0	1877.2	1866.1	1892.5	1952.3	1960.7	2070.6	2222.3	2396.2	2600.8	2830.4
15°	1955.1	1948.2	1909.2	1896.7	1925.9	1932.9	2026.1	2181.9	2375.4	2613.3	2890.2
17.5°	2084.5	2080.4	2006.6	1955.1	1974.6	1980.2	2049.7	2175.0	2369.8	2638.4	2964.0
20°	2273.8	2255.7	2140.2	2062.3	2062.3	2070.6	2112.4	2205.6	2376.8	2669.0	3047.5
22.5°	2524.3	2488.1	2325.3	2219.5	2191.7	2202.8	2220.9	2282.1	2406.0	2720.5	3151.9
25°	2805.4	2772.0	2578.5	2429.6	2390.7	2394.9	2379.5	2390.7	2470.0	2791.4	3281.3
27.5°	3104.5	3082.3	2876.3	2687.1	2625.9	2625.9	2571.6	2545.1	2559.1	2872.2	3426.0
30°	3371.7	3341.1	3167.2	2959.8	2879.1	2879.1	2776.1	2719.1	2685.7	2971.0	3619.4
32.5°	3512.3	3494.2	3378.7	3220.0	3121.2	3105.9	3016.9	2950.1	2872.2	3117.1	3881.0
35°	3696.0	3691.8	3622.2	3498.4	3373.1	3350.8	3289.6	3236.7	3101.8	3299.4	4228.9
37.5°	3926.9	3920.0	3908.9	3835.1	3684.8	3680.6	3626.4	3562.4	3387.0	3562.4	4650.6
40°	4185.8	4173.3	4159.3	4157.9	4067.5	4052.2	4048.0	3975.7	3730.7	3879.6	5090.3
42.5°	4542.0	4498.9	4368.1	4426.5	4493.3	4479.4	4532.3	4423.7	4159.3	4256.7	5506.4
45°	4980.3	4874.6	4615.8	4632.5	4800.8	4828.7	5012.4	4985.9	4631.1	4692.3	5944.7
47.5°	5243.4	5151.5	4910.8	4896.9	5107.0	5141.8	5541.1	5591.2	5139.0	5216.9	6486.0
50°	5459.0	5395.0	5197.4	5216.9	5439.6	5474.3	6065.8	6172.9	5617.7	5754.0	7115.0
52.5°	5719.3	5627.4	5474.3	5566.2	5838.9	5880.7	6648.8	6764.3	6049.1	6344.1	7766.2
55°	5865.4	5827.8	5830.6	5971.1	6313.5	6370.5	7259.7	7240.2	6444.3	6849.2	8256.1
57.5°	6202.1	6188.2	6316.2	6369.1	6867.3	6941.0	7870.6	7703.6	6803.3	7240.2	8491.2
60°	6796.3	6761.5	6872.9	6953.6	7551.9	7656.3	8552.5	8157.3	7046.8	7531.1	8411.9
62.5°	7631.2	7588.1	7592.3	7720.3	8469.0	8578.9	9310.8	8535.8	7121.9	7575.6	7909.6
65°	8669.3	8606.7	8535.8	8709.7	9686.6	9778.4	10136.0	8811.3	6942.4	7147.0	6860.3
67.5°	9764.5	9713.0	9629.5	9994.1	11263.2	11318.8	11061.4	8787.6	6373.3	6000.4	4812.0
70°	9828.5	9841.0	10236.2	11555.4	13321.3	13335.2	11936.7	8311.7	5161.3	3889.4	2397.6
72.5°	9168.9	9148.0	9662.9	11840.7	14977.2	15024.5	12350.0	6733.7	3189.4	1939.8	1124.4
75°	7447.6	7483.7	8025.1	10360.1	12837.0	12878.8	10067.8	3970.1	1515.4	949.0	719.4
77.5°	3206.1	3407.9	4475.2	7298.7	9194.0	9064.5	5189.1	1608.6	808.5	676.3	551.1
80°	925.4	1004.7	1594.7	3470.5	5509.1	5411.7	2053.9	602.5	563.6	507.9	395.2
82.5°	299.2	331.2	584.4	1381.8	2468.6	2465.8	779.3	356.2	368.8	345.1	254.7
85°	83.5	96.0	179.5	418.9	764.0	748.7	225.4	168.4	196.2	199.0	126.6
87.5°	0.0	0.0	1.4	2.8	2.8	2.8	5.6	25.0	57.1	72.4	51.5
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°	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1	2744.1
2.5°	2760.8	2756.7	2813.7	2858.2	2900.0	2927.8	2936.2	2941.7	2952.9	2958.4	2952.9
5°	2780.3	2801.2	2895.8	2965.4	3021.0	3054.4	3055.8	3053.1	3061.4	3054.4	3050.3
7.5°	2822.1	2862.4	2982.1	3055.8	3092.0	3093.4	3060.0	3021.0	3001.6	2984.9	2979.3
10°	2877.7	2937.6	3068.4	3117.1	3105.9	3054.4	2980.7	2919.5	2884.7	2859.6	2854.1
12.5°	2954.3	3021.0	3144.9	3143.5	3073.9	2982.1	2895.8	2822.1	2772.0	2742.7	2733.0
15°	3026.6	3111.5	3200.6	3135.2	3025.2	2913.9	2802.6	2703.8	2637.0	2591.1	2582.7
17.5°	3115.7	3206.1	3240.9	3108.7	2964.0	2820.7	2671.8	2542.4	2451.9	2397.6	2393.5
20°	3218.6	3299.4	3260.4	3062.8	2884.7	2696.8	2495.0	2350.3	2252.9	2200.0	2204.2
22.5°	3338.3	3396.8	3266.0	3000.2	2774.7	2521.5	2296.1	2156.9	2091.5	2063.7	2065.1
25°	3466.3	3503.9	3256.2	2915.3	2606.4	2307.2	2091.5	2027.5	2021.9	2015.0	2017.7
27.5°	3618.0	3609.7	3227.0	2795.6	2379.5	2058.1	1948.2	1964.9	1987.1	1984.3	1987.1
30°	3821.2	3741.9	3189.4	2630.0	2109.6	1849.4	1863.3	1910.6	1939.8	1942.6	1950.9
32.5°	4053.6	3888.0	3129.6	2404.6	1852.1	1732.5	1784.0	1841.0	1875.8	1882.8	1893.9
35°	4330.5	4055.0	3023.8	2123.5	1667.1	1662.9	1710.2	1749.2	1786.7	1789.5	1789.5
37.5°	4649.2	4222.0	2855.5	1813.2	1553.0	1603.1	1647.6	1655.9	1665.7	1657.3	1661.5
40°	4941.4	4383.4	2616.1	1530.7	1459.7	1550.2	1587.8	1559.9	1529.3	1508.4	1512.6
42.5°	5186.3	4493.3	2298.8	1333.1	1365.1	1502.9	1532.1	1475.0	1415.2	1376.2	1381.8
45°	5461.8	4594.9	1925.9	1199.5	1284.4	1469.5	1489.0	1415.2	1338.7	1280.2	1271.9
47.5°	5841.7	4802.2	1594.7	1106.3	1227.3	1451.4	1483.4	1383.2	1283.0	1195.3	1185.6
50°	6310.7	5095.8	1317.8	1045.1	1200.9	1441.6	1482.0	1348.4	1228.7	1125.8	1118.8
52.5°	6822.8	5382.5	1113.2	997.7	1174.5	1412.4	1475.0	1309.4	1171.7	1060.4	1052.0
55°	7163.7	5495.2	975.5	953.2	1131.3	1366.5	1447.2	1271.9	1085.4	983.8	971.3
57.5°	7263.9	5350.5	879.5	912.9	1075.7	1302.5	1394.3	1192.6	1032.5	951.8	942.1
60°	7091.3	4985.9	819.6	879.5	1014.4	1220.4	1302.5	1146.6	990.8	918.4	911.5
62.5°	6604.3	4423.7	773.7	844.7	951.8	1134.1	1244.0	1091.0	944.9	887.8	878.1
65°	5624.6	3627.8	736.1	808.5	892.0	1052.0	1180.0	1035.3	894.8	851.6	840.5
67.5°	3933.9	2547.9	695.8	765.4	832.1	972.7	1113.2	983.8	843.3	811.3	800.1
70°	1923.1	1351.2	647.1	715.3	768.1	892.0	1046.4	921.2	775.1	757.0	741.7
72.5°	915.6	755.6	590.0	647.1	680.5	784.8	935.1	830.8	694.4	655.4	629.0
75°	613.7	537.1	514.9	566.4	574.7	658.2	801.5	716.6	612.3	567.8	545.5
77.5°	464.8	410.5	432.8	478.7	462.0	541.3	659.6	638.7	552.4	512.1	501.0
80°	327.0	299.2	343.7	371.5	359.0	460.6	594.2	546.9	455.0	410.5	402.2
82.5°	205.9	200.4	253.3	257.4	261.6	364.6	488.4	430.0	353.5	290.8	270.0
85°	103.0	114.1	151.7	151.7	150.3	187.9	278.3	242.1	190.6	151.7	147.5
87.5°	34.8	48.7	65.4	52.9	40.4	32.0	36.2	44.5	47.3	45.9	45.9
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)