

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: P641750

Luminaire Tested: GWS-SA6B-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641750
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-SA6B-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20450.8 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

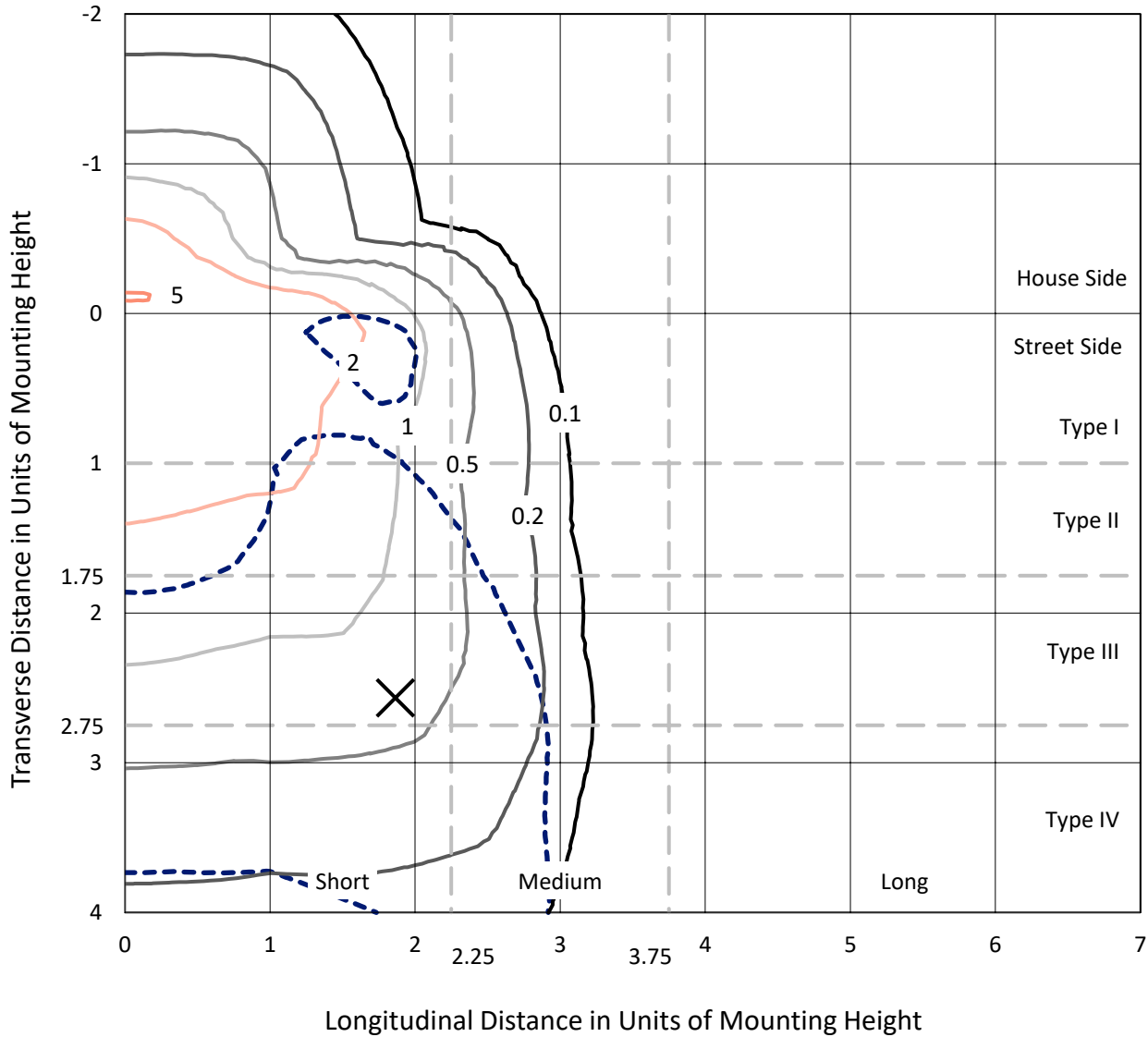
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

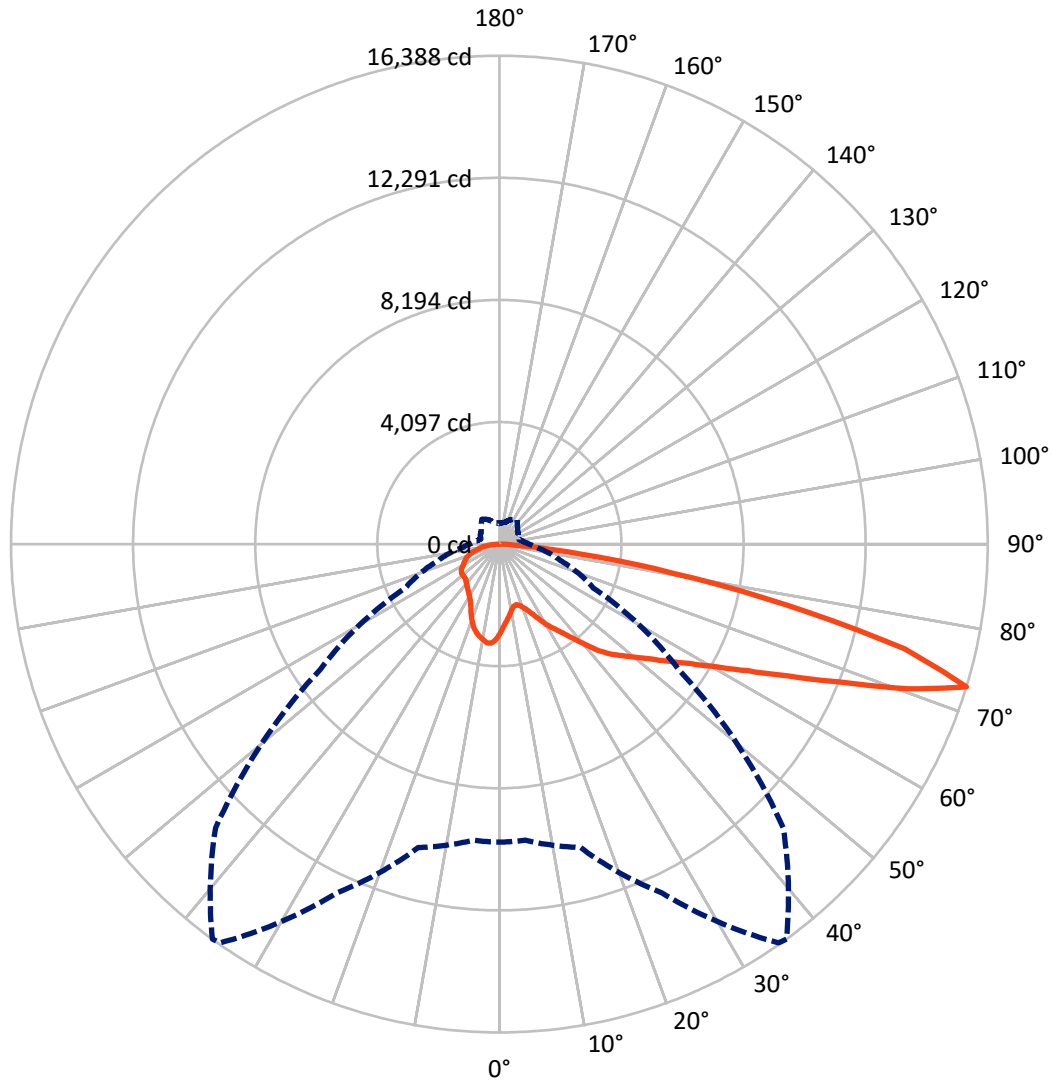
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4714.8	0.0	4714.8
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	15736.0	0.0	15736.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	20450.8	0.0	20450.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	1.4
10°-20°	789.3	3.9
20°-30°	1307.3	6.4
30°-40°	1957.7	9.6
40°-50°	2856.1	14.0
50°-60°	4065.2	19.9
60°-70°	5136.0	25.1
70°-80°	3659.9	17.9
80°-90°	399.5	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°	20450.8	100.0
0°-180°	20450.8	100.0

Coefficient of Utilization



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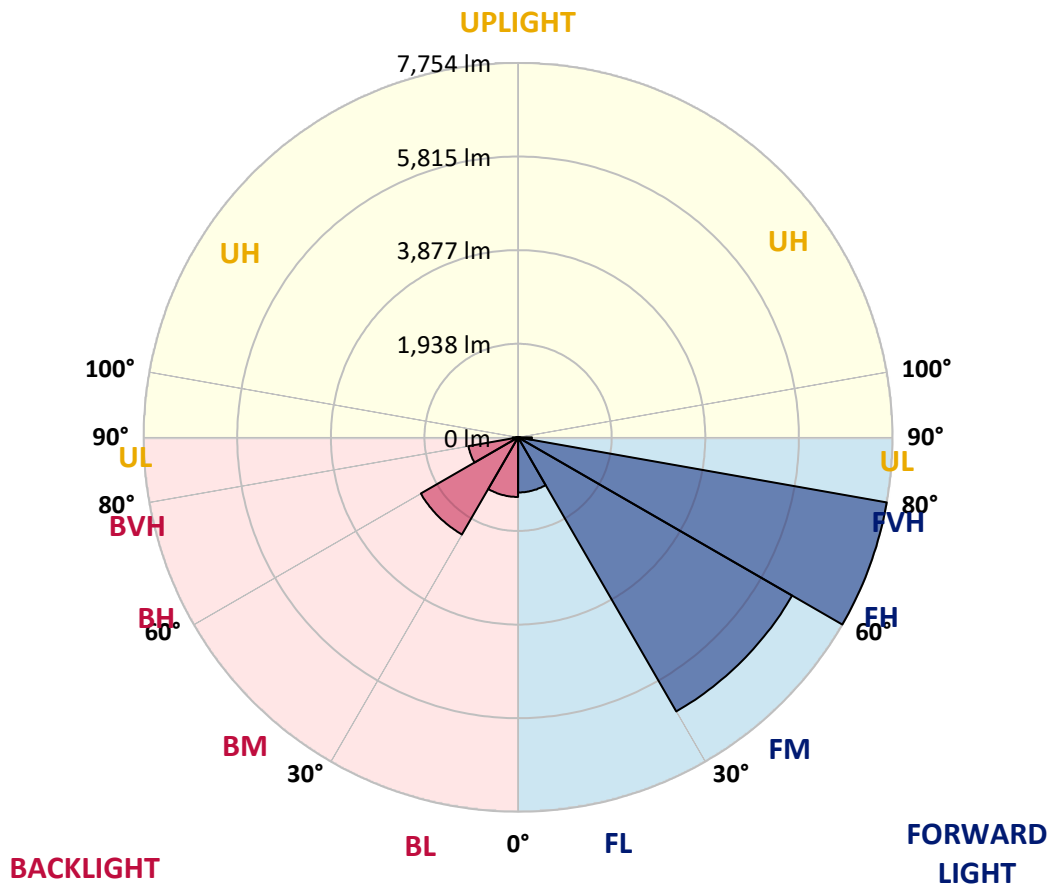
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.7	5.6			
FM (30°-60°)	6554.0	32.0			
FH (60°-80°)	7753.6	37.9			G4/12000
FVH (80°-90°)	286.8	1.4			G3/500
BL (0°-30°)	1234.6	6.0	B3/2500		
BM (30°-60°)	2325.1	11.4	B2/2500		
BH (60°-80°)	1042.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	112.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1
2.5°	2730.5	2725.9	2716.8	2744.1	2771.5	2768.4	2806.4	2842.8	2882.3	2923.2	2977.9
5°	2511.9	2508.9	2501.3	2542.3	2583.3	2581.7	2644.0	2703.2	2783.6	2871.6	2980.9
7.5°	2293.4	2285.8	2296.4	2348.0	2405.7	2411.8	2496.8	2593.9	2710.8	2842.8	2997.6
10°	2100.6	2099.1	2103.6	2161.3	2247.8	2253.9	2363.2	2498.3	2653.1	2829.1	3035.6
12.5°	2050.5	2047.5	2035.3	2064.2	2129.4	2138.6	2258.5	2423.9	2613.6	2836.7	3087.2
15°	2132.5	2124.9	2082.4	2068.7	2100.6	2108.2	2209.9	2379.9	2590.9	2850.4	3152.4
17.5°	2273.6	2269.1	2188.6	2132.5	2153.7	2159.8	2235.7	2372.3	2584.8	2877.7	3232.9
20°	2480.1	2460.3	2334.3	2249.4	2249.4	2258.5	2304.0	2405.7	2592.4	2911.1	3323.9
22.5°	2753.3	2713.8	2536.2	2420.9	2390.5	2402.6	2422.4	2489.2	2624.2	2967.3	3437.8
25°	3059.8	3023.4	2812.5	2650.0	2607.5	2612.1	2595.4	2607.5	2694.1	3044.7	3578.9
27.5°	3386.2	3361.9	3137.3	2930.8	2864.1	2864.1	2804.9	2776.0	2791.2	3132.7	3736.8
30°	3677.6	3644.2	3454.5	3228.3	3140.3	3140.3	3028.0	2965.7	2929.3	3240.5	3947.8
32.5°	3830.9	3811.2	3685.2	3512.1	3404.4	3387.7	3290.6	3217.7	3132.7	3399.8	4233.1
35°	4031.2	4026.7	3950.8	3815.7	3679.1	3654.8	3588.0	3530.4	3383.1	3598.7	4612.5
37.5°	4283.2	4275.6	4263.4	4183.0	4019.1	4014.5	3955.3	3885.5	3694.3	3885.5	5072.4
40°	4565.5	4551.8	4536.7	4535.1	4436.5	4419.8	4415.2	4336.3	4069.2	4231.6	5552.0
42.5°	4954.0	4907.0	4764.3	4828.1	4900.9	4885.7	4943.4	4825.0	4536.7	4642.9	6005.9
45°	5432.1	5316.8	5034.5	5052.7	5236.3	5266.7	5467.1	5438.2	5051.2	5118.0	6484.0
47.5°	5719.0	5618.8	5356.3	5341.1	5570.3	5608.2	6043.8	6098.4	5605.2	5690.2	7074.4
50°	5954.3	5884.4	5668.9	5690.2	5933.0	5971.0	6616.0	6732.9	6127.3	6276.0	7760.4
52.5°	6238.1	6137.9	5971.0	6071.1	6368.6	6414.1	7252.0	7377.9	6597.8	6919.6	8470.7
55°	6397.5	6356.5	6359.5	6512.8	6886.2	6948.4	7918.3	7897.0	7028.8	7470.5	9005.0
57.5°	6764.8	6749.6	6889.2	6946.9	7490.3	7570.7	8584.6	8402.4	7420.4	7897.0	9261.5
60°	7412.8	7374.9	7496.3	7584.4	8237.0	8350.8	9328.3	8897.2	7686.0	8214.2	9175.0
62.5°	8323.5	8276.5	8281.0	8420.7	9237.2	9357.1	10155.5	9310.1	7768.0	8262.8	8627.1
65°	9455.8	9387.5	9310.1	9499.8	10565.3	10665.5	11055.5	9610.6	7572.2	7795.3	7482.7
67.5°	10650.3	10594.1	10503.1	10900.7	12284.9	12345.6	12064.8	9584.8	6951.4	6544.7	5248.5
70°	10720.1	10733.8	11164.8	12603.7	14529.7	14544.9	13019.5	9065.7	5629.5	4242.2	2615.1
72.5°	10000.7	9977.9	10539.5	12914.8	16335.9	16387.5	13470.3	7344.5	3478.8	2115.8	1226.4
75°	8123.2	8162.6	8753.0	11299.9	14001.5	14047.1	10981.2	4330.2	1652.9	1035.1	784.7
77.5°	3497.0	3717.0	4881.2	7960.8	10028.0	9886.8	5659.8	1754.6	881.8	737.6	601.0
80°	1009.3	1095.8	1739.4	3785.3	6008.9	5902.7	2240.2	657.2	614.7	554.0	431.1
82.5°	326.3	361.2	637.5	1507.2	2692.5	2689.5	850.0	388.6	402.2	376.4	277.8
85°	91.1	104.7	195.8	456.9	833.3	816.6	245.9	183.7	214.0	217.0	138.1
87.5°	0.0	0.0	1.5	3.0	3.0	3.0	6.1	27.3	62.2	78.9	56.2
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°	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1	2993.1
2.5°	3011.3	3006.7	3069.0	3117.5	3163.1	3193.4	3202.5	3208.6	3220.7	3226.8	3220.7
5°	3032.5	3055.3	3158.5	3234.4	3295.1	3331.5	3333.0	3330.0	3339.1	3331.5	3327.0
7.5°	3078.1	3122.1	3252.6	3333.0	3372.5	3374.0	3337.6	3295.1	3273.9	3255.6	3249.6
10°	3138.8	3204.0	3346.7	3399.8	3387.7	3331.5	3251.1	3184.3	3146.4	3119.0	3113.0
12.5°	3222.3	3295.1	3430.2	3428.7	3352.8	3252.6	3158.5	3078.1	3023.4	2991.5	2980.9
15°	3301.2	3393.8	3490.9	3419.6	3299.7	3178.2	3056.8	2949.1	2876.2	2826.1	2817.0
17.5°	3398.3	3497.0	3534.9	3390.7	3232.9	3076.5	2914.1	2773.0	2674.3	2615.1	2610.6
20°	3510.6	3598.7	3556.2	3340.6	3146.4	2941.5	2721.4	2563.5	2457.3	2399.6	2404.2
22.5°	3641.2	3704.9	3562.2	3272.3	3026.5	2750.2	2504.3	2352.6	2281.2	2250.9	2252.4
25°	3780.8	3821.8	3551.6	3179.8	2842.8	2516.5	2281.2	2211.4	2205.3	2197.7	2200.8
27.5°	3946.2	3937.1	3519.7	3049.2	2595.4	2244.8	2124.9	2143.1	2167.4	2164.4	2167.4
30°	4167.8	4081.3	3478.8	2868.6	2301.0	2017.1	2032.3	2083.9	2115.8	2118.8	2127.9
32.5°	4421.3	4240.7	3413.5	2622.7	2020.2	1889.6	1945.8	2008.0	2046.0	2053.6	2065.7
35°	4723.3	4422.8	3298.1	2316.1	1818.3	1813.7	1865.4	1907.9	1948.8	1951.9	1951.9
37.5°	5070.9	4605.0	3114.5	1977.7	1693.8	1748.5	1797.1	1806.2	1816.8	1807.7	1812.2
40°	5389.6	4781.0	2853.4	1669.6	1592.2	1690.8	1731.8	1701.4	1668.0	1645.3	1649.8
42.5°	5656.8	4900.9	2507.4	1454.0	1488.9	1639.2	1671.1	1608.8	1543.6	1501.1	1507.2
45°	5957.3	5011.7	2100.6	1308.3	1400.9	1602.8	1624.0	1543.6	1460.1	1396.4	1387.3
47.5°	6371.6	5237.9	1739.4	1206.6	1338.7	1583.0	1618.0	1508.7	1399.4	1303.8	1293.2
50°	6883.1	5558.1	1437.3	1139.9	1309.8	1572.4	1616.4	1470.7	1340.2	1227.9	1220.3
52.5°	7441.7	5870.8	1214.2	1088.2	1281.0	1540.5	1608.8	1428.2	1278.0	1156.5	1147.4
55°	7813.5	5993.7	1064.0	1039.7	1234.0	1490.5	1578.5	1387.3	1183.9	1073.1	1059.4
57.5°	7922.8	5835.9	959.2	995.7	1173.2	1420.6	1520.8	1300.7	1126.2	1038.2	1027.5
60°	7734.6	5438.2	894.0	959.2	1106.5	1331.1	1420.6	1250.7	1080.7	1001.7	994.1
62.5°	7203.4	4825.0	843.9	921.3	1038.2	1237.0	1356.9	1189.9	1030.6	968.3	957.7
65°	6134.9	3956.9	802.9	881.8	972.9	1147.4	1287.1	1129.2	975.9	928.9	916.7
67.5°	4290.8	2779.1	758.9	834.8	907.6	1060.9	1214.2	1073.1	919.8	884.9	872.7
70°	2097.6	1473.8	705.8	780.1	837.8	972.9	1141.4	1004.8	845.4	825.7	809.0
72.5°	998.7	824.2	643.5	705.8	742.2	856.0	1019.9	906.1	757.4	714.9	686.0
75°	669.3	585.9	561.6	617.7	626.8	717.9	874.2	781.7	667.8	619.3	595.0
77.5°	506.9	447.7	472.0	522.1	503.9	590.4	719.4	696.7	602.6	558.5	546.4
80°	356.7	326.3	374.9	405.2	391.6	502.4	648.1	596.5	496.3	447.7	438.6
82.5°	224.6	218.6	276.2	280.8	285.3	397.7	532.7	469.0	385.5	317.2	294.4
85°	112.3	124.5	165.4	165.4	163.9	204.9	303.6	264.1	207.9	165.4	160.9
87.5°	37.9	53.1	71.3	57.7	44.0	34.9	39.5	48.6	51.6	50.1	50.1
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)