

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: P637792

Luminaire Tested: GWS-SA4D-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637792
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-SA4D-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24279.2 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

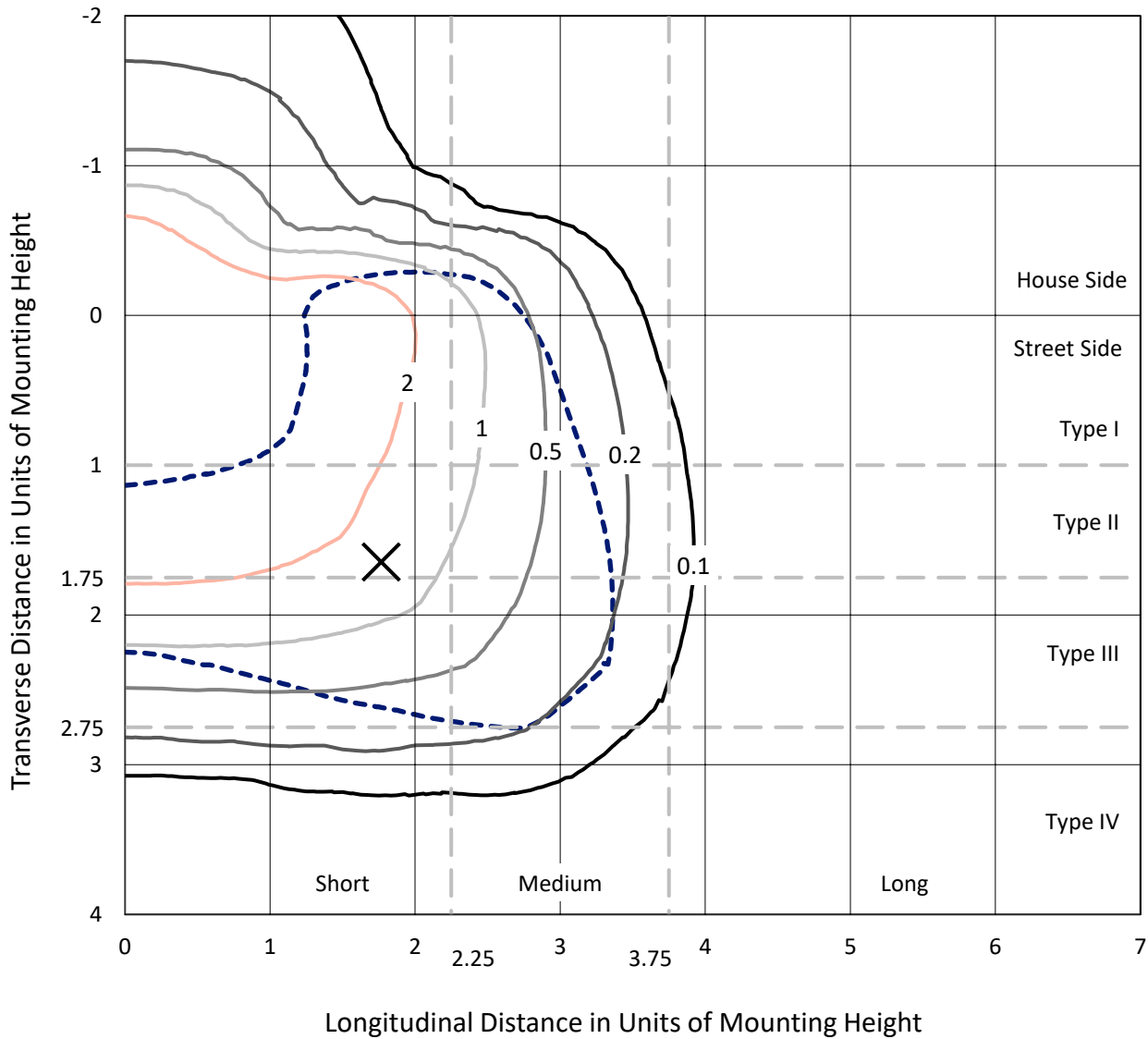
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

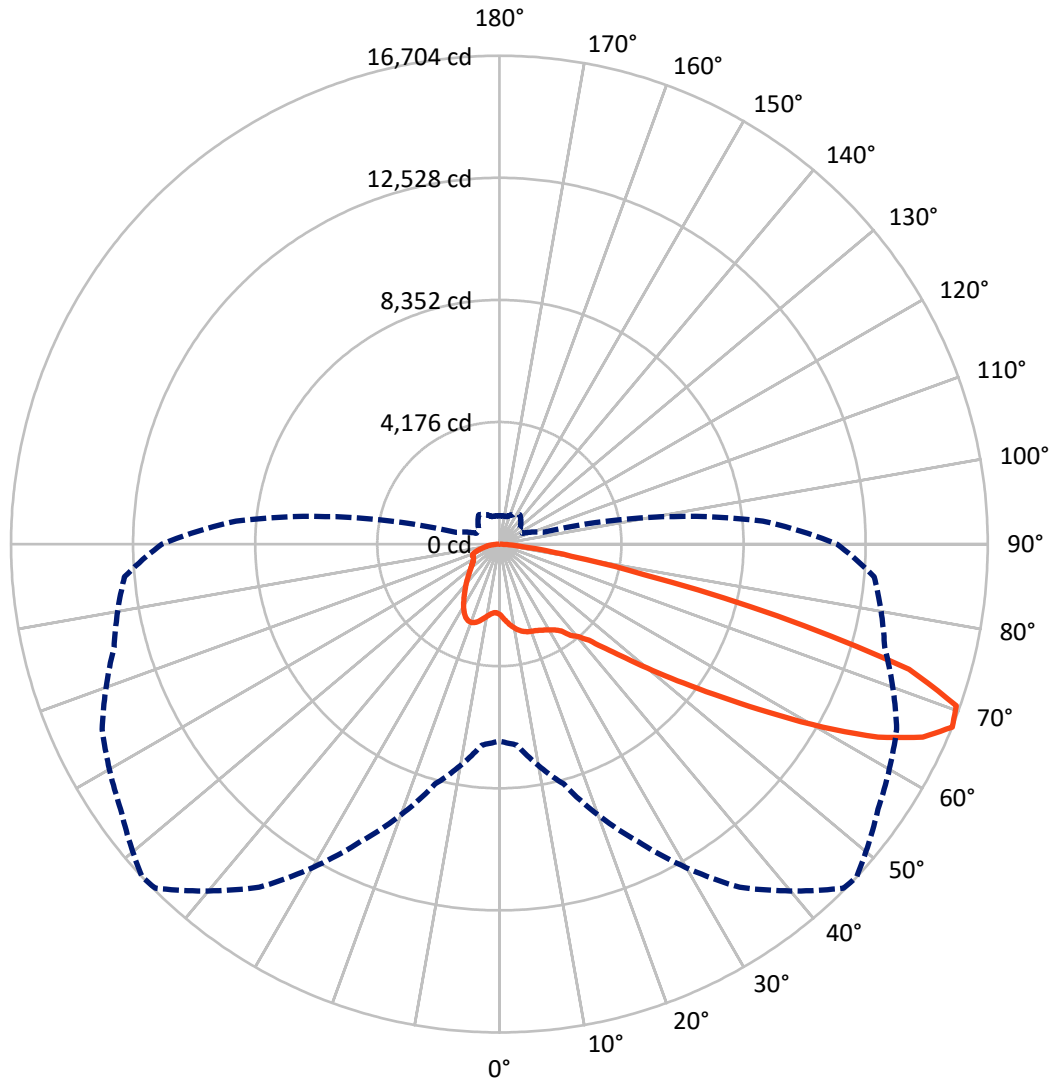
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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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	5533.4	0.0	5533.4
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	18745.8	0.0	18745.8
	% Fixture	77.2	0.0	77.2
Total	Lumens	24279.2	0.0	24279.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	1.0
10°-20°	819.5	3.4
20°-30°	1393.0	5.7
30°-40°	2040.5	8.4
40°-50°	3109.0	12.8
50°-60°	5562.7	22.9
60°-70°	7422.8	30.6
70°-80°	3356.8	13.8
80°-90°	328.9	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°	24279.2	100.0
0°-180°	24279.2	100.0

Coefficient of Utilization



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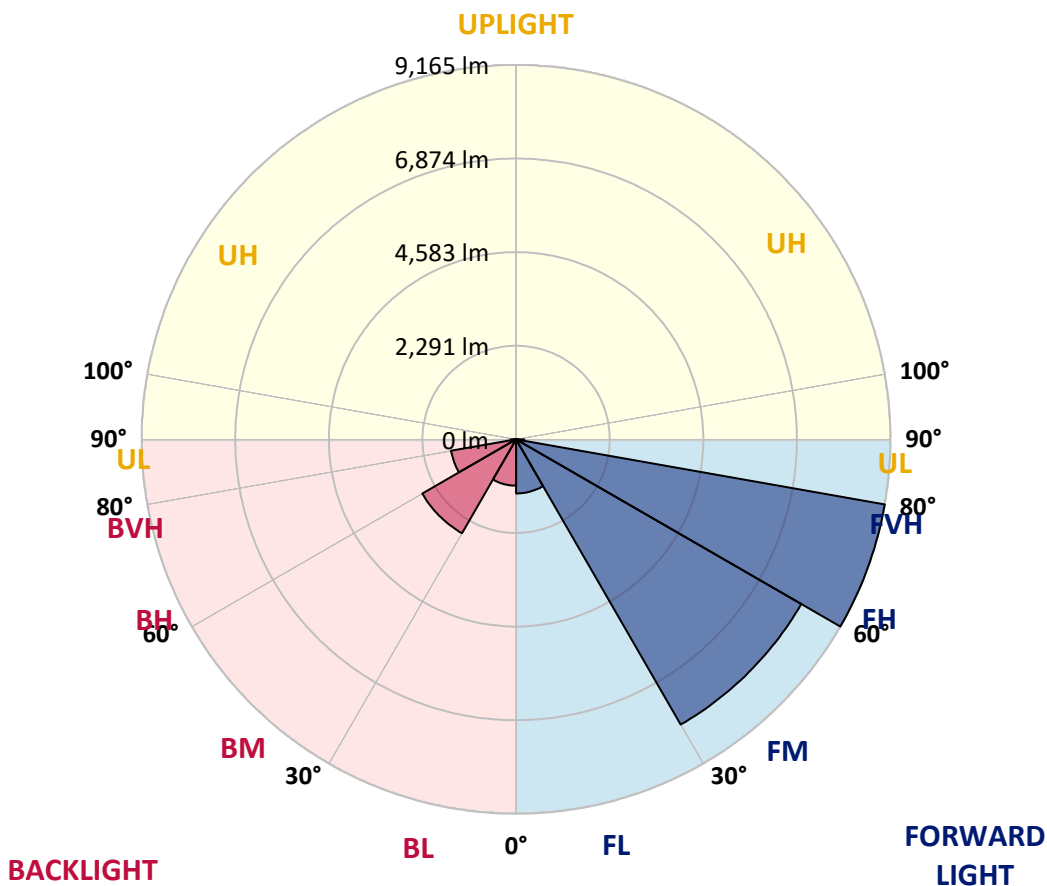
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.1	5.5			
FM (30°-60°)	8060.9	33.2			
FH (60°-80°)	9165.1	37.7			G4/12000
FVH (80°-90°)	195.6	0.8			G2/225
BL (0°-30°)	1134.4	4.7	B3/2500		
BM (30°-60°)	2651.3	10.9	B3/5000		
BH (60°-80°)	1614.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	133.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8
2.5°	2566.6	2575.4	2573.6	2559.6	2550.8	2535.0	2536.7	2512.2	2475.3	2450.7	2422.6
5°	2793.1	2807.1	2789.5	2766.7	2731.6	2680.7	2675.4	2619.3	2549.0	2499.9	2449.0
7.5°	2989.7	2998.5	2977.4	2938.8	2887.9	2819.4	2807.1	2740.4	2652.6	2575.4	2501.6
10°	3142.4	3152.9	3124.9	3073.9	3007.2	2938.8	2930.0	2861.5	2768.5	2677.2	2584.1
12.5°	3272.3	3275.8	3246.0	3177.5	3105.5	3035.3	3026.5	2963.3	2877.3	2784.3	2682.5
15°	3347.8	3349.6	3312.7	3237.2	3168.7	3107.3	3102.0	3047.6	2968.6	2880.8	2772.0
17.5°	3342.5	3346.0	3319.7	3253.0	3193.3	3156.5	3151.2	3116.1	3054.6	2975.6	2866.8
20°	3277.6	3281.1	3263.5	3219.6	3188.0	3177.5	3179.3	3168.7	3131.9	3066.9	2956.3
22.5°	3226.7	3231.9	3216.1	3184.5	3181.0	3205.6	3210.9	3216.1	3198.6	3140.7	3033.6
25°	3251.2	3260.0	3235.4	3191.6	3198.6	3253.0	3263.5	3281.1	3267.0	3217.9	3124.9
27.5°	3421.5	3426.8	3363.6	3274.1	3253.0	3310.9	3326.7	3354.8	3344.3	3298.6	3226.7
30°	3816.5	3813.0	3677.8	3458.4	3370.6	3393.4	3405.7	3446.1	3449.6	3419.8	3351.3
32.5°	4373.0	4355.5	4146.6	3797.2	3542.7	3486.5	3500.5	3555.0	3595.3	3563.7	3470.7
35°	4961.1	4945.3	4715.4	4306.3	3860.4	3665.6	3649.8	3691.9	3753.3	3665.6	3532.1
37.5°	5521.2	5496.6	5261.3	4755.7	4251.9	3979.8	3957.0	3914.8	3878.0	3709.4	3607.6
40°	6142.6	6114.5	5909.1	5336.8	4683.8	4220.3	4162.4	3995.6	3962.2	3855.2	3804.2
42.5°	6806.2	6806.2	6635.9	6072.4	5205.2	4564.4	4488.9	4237.9	4273.0	4202.7	4143.1
45°	7469.8	7489.1	7353.9	6813.2	5902.1	5213.9	5092.8	4736.4	4820.7	4789.1	4759.3
47.5°	8035.1	8071.9	8045.6	7569.9	6755.3	6003.9	5819.6	5449.2	5630.0	5705.5	5789.8
50°	8644.2	8684.6	8658.3	8470.5	7754.2	6960.7	6795.7	6413.0	6723.7	6950.2	7225.8
52.5°	9548.3	9606.3	9386.8	9314.9	8967.3	8047.4	7899.9	7464.5	8028.1	8403.7	9018.2
55°	10312.0	10310.3	10233.0	10398.0	10269.9	9376.3	9213.0	8818.0	9537.8	9936.3	10835.2
57.5°	10666.6	10708.8	10973.8	11440.8	11697.1	11000.2	10843.9	10440.2	11158.2	11365.3	12336.1
60°	10849.2	10901.9	11414.5	12337.9	13027.8	12773.3	12711.8	12197.5	12601.2	12576.6	13601.9
62.5°	10592.9	10698.2	11521.6	12748.7	13977.6	14555.1	14535.8	13758.1	13828.3	13587.8	14386.6
65°	9416.7	9530.8	10822.9	12543.3	14520.0	15910.4	15915.7	15171.3	14771.1	14079.4	14254.9
67.5°	6734.2	6897.5	8495.0	11223.1	14328.7	16642.5	16703.9	15812.1	14992.3	13644.0	12871.6
70°	3670.8	3790.2	5041.9	8158.0	12604.7	16466.9	16581.0	15503.1	14016.2	11802.5	9908.2
72.5°	1667.8	1706.4	2345.4	4476.6	8610.9	14174.2	14651.7	13835.4	11511.0	8718.0	6300.6
75°	763.7	781.2	1021.7	2141.8	4499.4	9485.2	9820.5	10305.0	8010.5	5505.4	3284.6
77.5°	479.3	484.5	581.1	979.6	2243.6	4734.7	5087.5	6135.6	4690.8	2724.6	1372.8
80°	282.6	287.9	361.6	530.2	1053.3	2166.3	2501.6	2426.1	2205.0	1176.2	625.0
82.5°	142.2	147.5	208.9	302.0	574.1	862.0	1014.7	1020.0	821.6	637.3	352.9
85°	50.9	52.7	68.5	119.4	244.0	284.4	317.8	388.0	402.0	370.4	170.3
87.5°	0.0	0.0	1.8	3.5	7.0	28.1	29.8	56.2	117.6	131.7	68.5
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°	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8	2406.8
2.5°	2413.9	2387.5	2378.7	2370.0	2355.9	2350.7	2340.1	2329.6	2329.6	2319.1	2313.8
5°	2426.1	2391.0	2368.2	2357.7	2348.9	2354.2	2354.2	2357.7	2370.0	2362.9	2366.5
7.5°	2470.0	2429.7	2398.1	2389.3	2389.3	2410.3	2424.4	2441.9	2464.8	2468.3	2468.3
10°	2547.3	2499.9	2466.5	2461.3	2470.0	2499.9	2520.9	2542.0	2570.1	2571.9	2575.4
12.5°	2631.5	2584.1	2550.8	2557.8	2566.6	2605.2	2628.0	2645.6	2673.7	2673.7	2671.9
15°	2719.3	2666.7	2638.6	2652.6	2678.9	2722.8	2726.3	2728.1	2742.1	2738.6	2736.9
17.5°	2810.6	2754.4	2733.4	2754.4	2782.5	2803.6	2786.0	2761.5	2756.2	2749.2	2745.7
20°	2900.1	2842.2	2833.4	2849.2	2858.0	2840.5	2786.0	2740.4	2719.3	2708.8	2705.3
22.5°	2977.4	2928.2	2923.0	2923.0	2879.1	2817.6	2736.9	2675.4	2647.3	2633.3	2629.8
25°	3068.7	3023.0	3014.3	2966.9	2854.5	2742.1	2633.3	2577.1	2554.3	2547.3	2549.0
27.5°	3175.8	3144.2	3116.1	2980.9	2784.3	2608.7	2485.8	2461.3	2452.5	2461.3	2466.5
30°	3307.4	3275.8	3212.6	2963.3	2671.9	2434.9	2317.3	2315.5	2341.9	2364.7	2368.2
32.5°	3414.5	3400.5	3296.9	2907.2	2513.9	2243.6	2143.5	2150.5	2197.9	2229.5	2234.8
35°	3498.8	3521.6	3367.1	2814.1	2326.1	2062.8	1983.8	1987.3	2013.6	2057.5	2059.2
37.5°	3618.2	3695.4	3430.3	2671.9	2110.2	1906.5	1834.5	1808.2	1804.7	1817.0	1820.5
40°	3858.7	3974.5	3476.0	2464.8	1901.2	1766.1	1685.3	1634.4	1590.5	1557.2	1546.6
42.5°	4222.1	4355.5	3502.3	2213.7	1715.2	1627.4	1536.1	1471.1	1393.9	1323.7	1299.1
45°	4889.2	4933.1	3502.3	1946.9	1550.1	1497.5	1406.2	1328.9	1230.6	1148.1	1130.6
47.5°	5956.5	5816.1	3505.8	1688.8	1404.4	1383.4	1304.4	1216.6	1107.7	1039.3	1028.7
50°	7564.6	7071.3	3577.8	1474.6	1283.3	1286.8	1228.9	1132.3	1034.0	983.1	974.3
52.5°	9386.8	8617.9	3770.9	1316.7	1181.5	1207.8	1176.2	1083.2	995.4	951.5	942.7
55°	11100.2	10039.9	3935.9	1204.3	1095.5	1141.1	1139.3	1053.3	974.3	930.4	925.2
57.5°	12557.3	11014.2	3911.3	1113.0	1021.7	1079.7	1106.0	1034.0	960.3	923.4	918.1
60°	13463.2	11530.3	3562.0	1028.7	965.5	1035.8	1086.7	1028.7	967.3	958.5	960.3
62.5°	13856.4	11435.5	2891.4	965.5	928.7	1014.7	1107.7	1065.6	1032.3	1053.3	1065.6
65°	13245.5	10621.0	2127.7	918.1	893.6	1020.0	1156.9	1123.5	1032.3	1046.3	1051.6
67.5°	11549.7	9041.0	1537.8	870.7	849.7	1035.8	1227.1	1114.8	972.6	972.6	962.0
70°	8323.0	6502.5	1116.5	823.3	805.8	1012.9	1230.6	1055.1	904.1	898.8	872.5
72.5°	5008.5	3835.8	870.7	770.7	739.1	898.8	1153.4	984.9	837.4	793.5	761.9
75°	2601.7	1922.3	730.3	712.7	633.7	761.9	1055.1	876.0	716.3	677.6	660.1
77.5°	1114.8	898.8	626.7	635.5	526.7	640.8	851.4	758.4	635.5	586.3	570.5
80°	549.5	510.9	495.1	509.1	421.3	495.1	733.8	663.6	538.9	482.8	459.9
82.5°	314.2	298.4	356.4	361.6	300.2	414.3	619.7	561.8	445.9	384.5	347.6
85°	145.7	156.2	215.9	217.7	186.1	284.4	405.5	316.0	237.0	196.6	187.8
87.5°	57.9	68.5	94.8	93.0	54.4	52.7	35.1	19.3	15.8	14.0	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

(END OF REPORT)