

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: P639218

Luminaire Tested: GWS-SA5B-735-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17803.1 lumens
Efficiency: N/A
Efficacy: 153.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

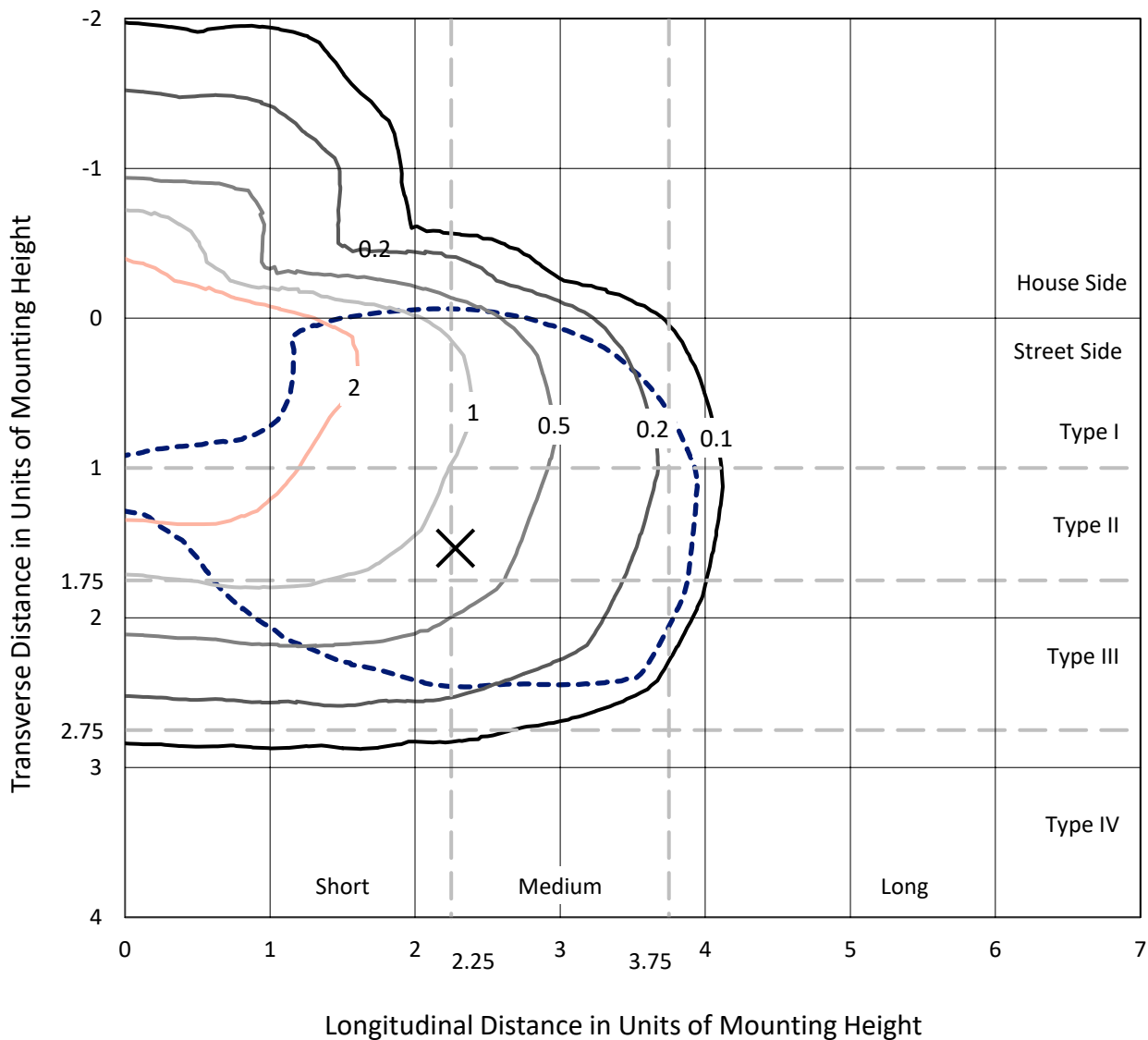
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

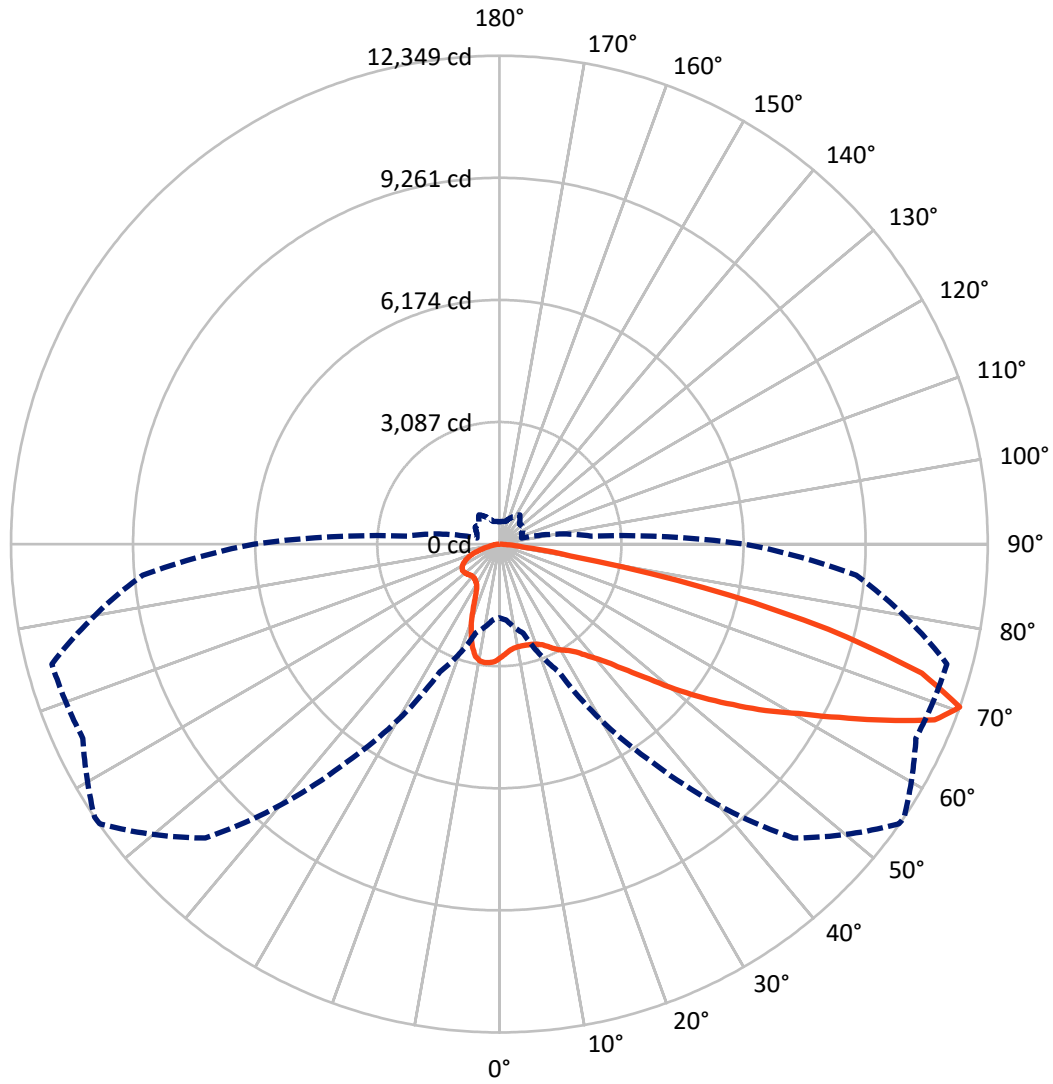
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3422.7	0.0	3422.7
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	14380.4	0.0	14380.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	17803.1	0.0	17803.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	1.5
10°-20°	720.5	4.0
20°-30°	1191.3	6.7
30°-40°	1781.1	10.0
40°-50°	2650.5	14.9
50°-60°	3768.2	21.2
60°-70°	4667.1	26.2
70°-80°	2577.0	14.5
80°-90°	181.5	1.0
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°	17803.1	100.0
0°-180°	17803.1	100.0

Coefficient of Utilization



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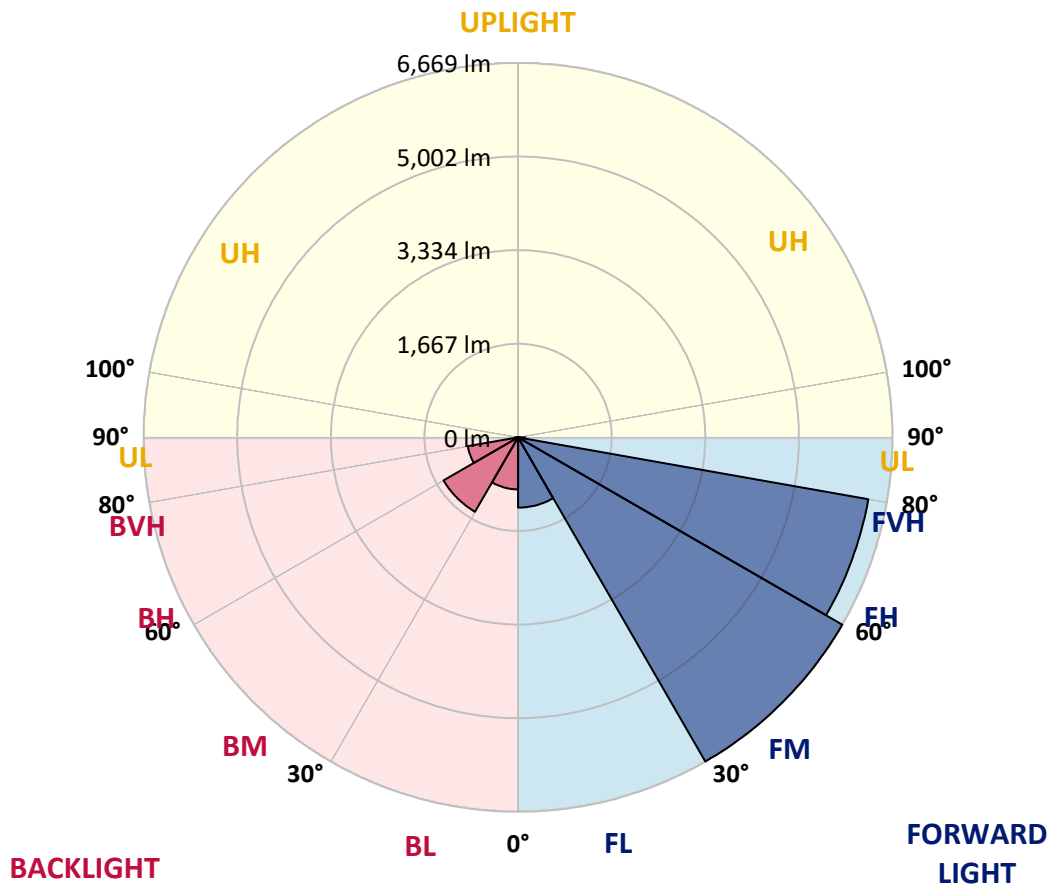
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1251.2	7.0			
FM (30°-60°)	6668.8	37.5			
FH (60°-80°)	6334.4	35.6			G3/7500
FVH (80°-90°)	126.1	0.7			G2/225
BL (0°-30°)	926.5	5.2	B2/1000		
BM (30°-60°)	1531.0	8.6	B2/2500		
BH (60°-80°)	909.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	55.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7
2.5°	2689.1	2674.1	2691.7	2700.4	2723.0	2755.7	2784.6	2785.8	2800.9	2837.3	2872.4
5°	2567.4	2559.8	2564.9	2591.2	2615.1	2656.5	2700.4	2704.2	2746.9	2818.5	2888.8
7.5°	2473.2	2463.2	2482.0	2515.9	2546.0	2592.5	2650.2	2655.2	2715.5	2823.5	2931.4
10°	2337.6	2330.1	2365.2	2410.4	2475.7	2552.3	2628.9	2635.2	2714.3	2856.1	3006.8
12.5°	2278.6	2278.6	2293.7	2336.4	2407.9	2509.6	2625.1	2635.2	2734.3	2906.3	3103.4
15°	2370.3	2376.5	2364.0	2361.5	2390.4	2487.0	2630.1	2645.2	2772.0	2957.8	3198.9
17.5°	2554.8	2561.1	2528.4	2477.0	2448.1	2508.4	2649.0	2665.3	2812.2	3014.3	3301.8
20°	2813.4	2821.0	2749.4	2670.3	2571.1	2569.9	2685.4	2700.4	2863.7	3075.8	3411.0
22.5°	3116.0	3121.0	3030.6	2905.1	2753.2	2684.1	2748.2	2763.2	2930.2	3161.2	3529.0
25°	3466.3	3481.3	3372.1	3190.1	2984.2	2841.1	2852.4	2869.9	3049.5	3275.4	3668.4
27.5°	3840.4	3859.2	3733.7	3532.8	3249.1	3014.3	2986.7	3001.7	3176.3	3345.7	3742.5
30°	4223.3	4237.1	4111.6	3881.8	3534.1	3210.2	3099.7	3108.5	3231.5	3379.6	3817.8
32.5°	4648.9	4637.6	4517.1	4252.2	3863.0	3444.9	3205.1	3202.6	3293.0	3447.4	3925.7
35°	5048.1	5064.4	4936.4	4643.9	4224.5	3734.9	3363.3	3353.3	3423.6	3557.9	4077.7
37.5°	5531.5	5526.4	5373.3	5056.9	4587.4	4012.4	3585.5	3568.0	3593.1	3729.9	4289.8
40°	5876.7	5911.9	5812.7	5517.6	5011.7	4353.9	3845.4	3806.5	3812.8	3942.1	4573.6
42.5°	6159.2	6191.8	6201.9	6013.5	5497.6	4775.7	4169.3	4130.4	4134.2	4317.4	4922.6
45°	6376.4	6420.3	6562.2	6506.9	6044.9	5262.8	4607.5	4567.3	4569.8	4773.2	5344.4
47.5°	6465.5	6513.2	6800.7	6932.5	6626.2	5845.3	5152.3	5093.3	5102.1	5326.8	5826.5
50°	6436.6	6500.7	6889.8	7260.2	7113.3	6437.9	5803.9	5762.5	5728.6	6055.0	6350.0
52.5°	6188.0	6258.4	6881.0	7468.6	7511.3	6997.8	6476.8	6452.9	6445.4	6828.3	6935.0
55°	5456.1	5574.1	6578.5	7523.8	7822.6	7525.1	7206.2	7166.0	7205.0	7656.9	7526.3
57.5°	5050.6	5138.5	5985.9	7462.3	8077.5	8027.3	7934.4	7938.1	7982.1	8557.1	8243.2
60°	4819.6	4922.6	5657.0	7294.1	8322.3	8637.4	8696.4	8696.4	8775.5	9527.5	8971.3
62.5°	4513.3	4617.5	5349.4	6970.2	8548.3	9355.5	9654.3	9650.5	9681.9	10568.3	9683.2
65°	3891.9	3988.5	4731.7	6459.2	8658.7	10146.4	10742.8	10731.5	10668.7	11494.8	10154.0
67.5°	2826.0	2917.6	3624.4	5487.5	8260.8	10784.2	11863.9	11868.9	11493.5	12078.6	10179.1
70°	1863.1	1925.8	2330.1	3564.2	6717.8	10509.3	12333.4	12348.5	11620.3	11714.5	9059.2
72.5°	1162.5	1206.5	1455.1	2125.5	3969.7	8318.5	11128.2	11169.6	10454.0	10294.6	7443.5
75°	772.1	802.2	967.9	1239.1	1836.7	4502.0	8459.1	8592.2	8378.8	8069.9	5186.2
77.5°	464.5	489.6	616.4	787.2	813.5	1758.9	4937.6	5281.6	5311.8	4213.2	2171.9
80°	212.2	241.0	340.2	449.4	433.1	612.7	1741.3	1821.6	2149.3	1338.3	685.5
82.5°	125.5	138.1	226.0	223.5	184.5	297.5	626.5	642.8	546.1	489.6	292.5
85°	50.2	59.0	95.4	84.1	67.8	96.7	236.0	247.3	237.3	213.4	108.0
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	21.3	22.6	32.6	59.0	32.6
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°	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7	2873.7
2.5°	2895.0	2887.5	2925.2	2954.0	2966.6	2979.2	2967.9	2964.1	2964.1	2939.0	2926.4
5°	2926.4	2930.2	2981.7	3005.5	3005.5	2995.5	2965.3	2944.0	2936.5	2903.8	2895.0
7.5°	2985.4	3001.7	3049.5	3048.2	3013.0	2957.8	2882.5	2824.7	2772.0	2749.4	2735.6
10°	3082.1	3103.4	3136.1	3083.4	2985.4	2839.8	2680.4	2554.8	2479.5	2419.2	2419.2
12.5°	3192.6	3212.7	3206.4	3084.6	2882.5	2610.1	2380.3	2235.9	2130.5	2075.2	2075.2
15°	3303.1	3319.4	3251.6	3026.9	2667.8	2305.0	2053.9	1880.6	1789.0	1737.5	1737.5
17.5°	3414.8	3413.5	3270.4	2893.8	2387.8	1967.3	1721.2	1586.9	1555.5	1546.7	1545.4
20°	3522.8	3493.9	3246.6	2671.6	2062.7	1627.0	1471.4	1480.2	1526.6	1546.7	1549.2
22.5°	3644.5	3573.0	3176.3	2387.8	1693.6	1391.0	1401.1	1473.9	1541.7	1571.8	1575.6
25°	3768.8	3640.8	3058.2	2055.1	1384.7	1304.4	1382.2	1463.8	1540.4	1579.3	1583.1
27.5°	3819.0	3640.8	2857.4	1669.7	1220.3	1268.0	1353.4	1432.5	1512.8	1558.0	1566.8
30°	3860.5	3609.4	2576.2	1322.0	1152.5	1232.8	1306.9	1379.7	1458.8	1514.1	1524.1
32.5°	3918.2	3581.8	2235.9	1111.1	1121.1	1198.9	1250.4	1311.9	1383.5	1419.9	1416.1
35°	3986.0	3539.1	1825.4	1010.6	1094.7	1170.1	1206.5	1242.9	1210.2	1209.0	1212.8
37.5°	4082.7	3501.4	1467.6	965.4	1077.2	1150.0	1180.1	1102.3	1057.1	1038.2	1030.7
40°	4222.0	3486.3	1157.5	939.1	1074.7	1148.7	1127.4	1006.9	945.3	880.1	878.8
42.5°	4397.8	3475.0	956.6	926.5	1083.4	1177.6	1054.6	944.1	817.3	788.4	785.9
45°	4623.8	3457.5	856.2	924.0	1104.8	1200.2	1047.0	857.5	770.8	758.3	758.3
47.5°	4896.2	3429.9	811.0	924.0	1128.6	1190.2	1024.4	838.6	749.5	763.3	772.1
50°	5208.8	3394.7	787.2	921.5	1152.5	1190.2	976.7	834.9	744.5	816.0	844.9
52.5°	5542.8	3354.5	770.8	911.4	1168.8	1191.4	979.2	847.4	749.5	828.6	852.4
55°	5911.9	3348.2	748.2	890.1	1173.8	1158.8	985.5	875.0	757.0	750.8	752.0
57.5°	6377.6	3423.6	731.9	858.7	1153.7	1092.2	998.1	895.1	748.2	749.5	758.3
60°	6864.7	3565.4	745.7	828.6	1112.3	1029.5	1006.9	885.1	705.6	685.5	688.0
62.5°	7279.0	3673.4	757.0	814.8	1052.1	974.2	998.1	862.5	681.7	676.7	688.0
65°	7452.3	3584.3	729.4	785.9	964.2	906.4	979.2	833.6	661.6	642.8	644.0
67.5°	7260.2	3166.2	675.4	721.9	865.0	819.8	949.1	795.9	634.0	611.4	606.4
70°	6201.9	2326.3	582.5	620.2	744.5	718.1	902.7	747.0	590.1	573.7	562.4
72.5°	4997.9	1647.1	483.3	493.4	583.8	605.1	822.3	685.5	539.8	493.4	477.1
75°	3478.8	1034.5	403.0	393.0	421.8	462.0	641.5	568.7	465.8	416.8	401.7
77.5°	1496.5	531.0	315.1	310.1	281.2	320.1	492.1	474.6	390.4	333.9	325.2
80°	500.9	307.6	227.2	218.4	187.1	224.7	346.5	379.1	306.3	247.3	232.3
82.5°	251.1	178.3	144.4	130.6	125.5	141.9	204.6	236.0	212.2	170.7	144.4
85°	123.0	101.7	79.1	77.8	65.3	61.5	85.4	100.4	95.4	70.3	66.5
87.5°	45.2	40.2	25.1	20.1	12.6	8.8	5.0	5.0	3.8	3.8	3.8
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)