

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: P633797

Luminaire Tested: GWS-SA2F-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15941.7 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 124.5  
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

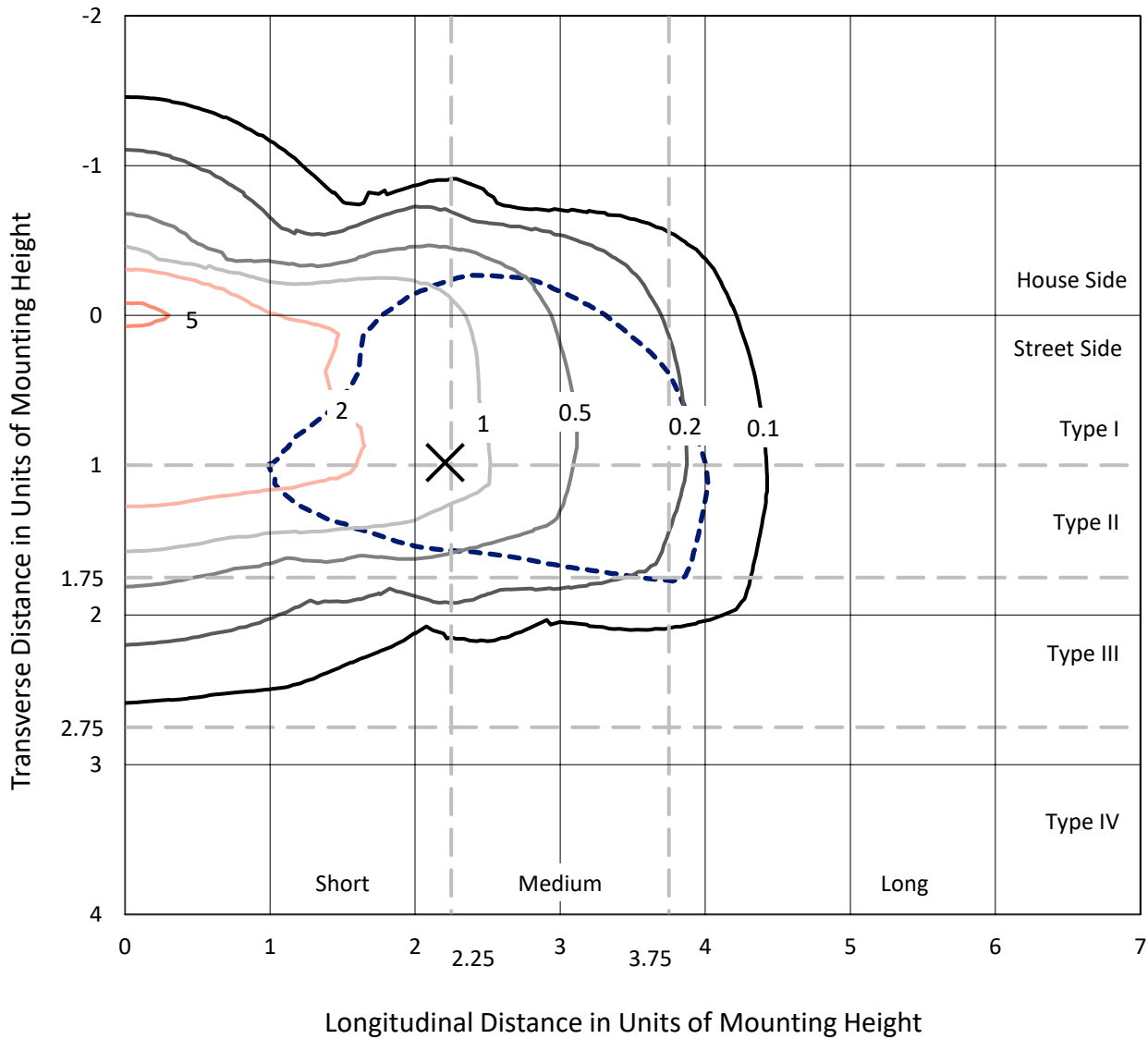


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### Iso-Footcandle Lines of Horizontal Illumination

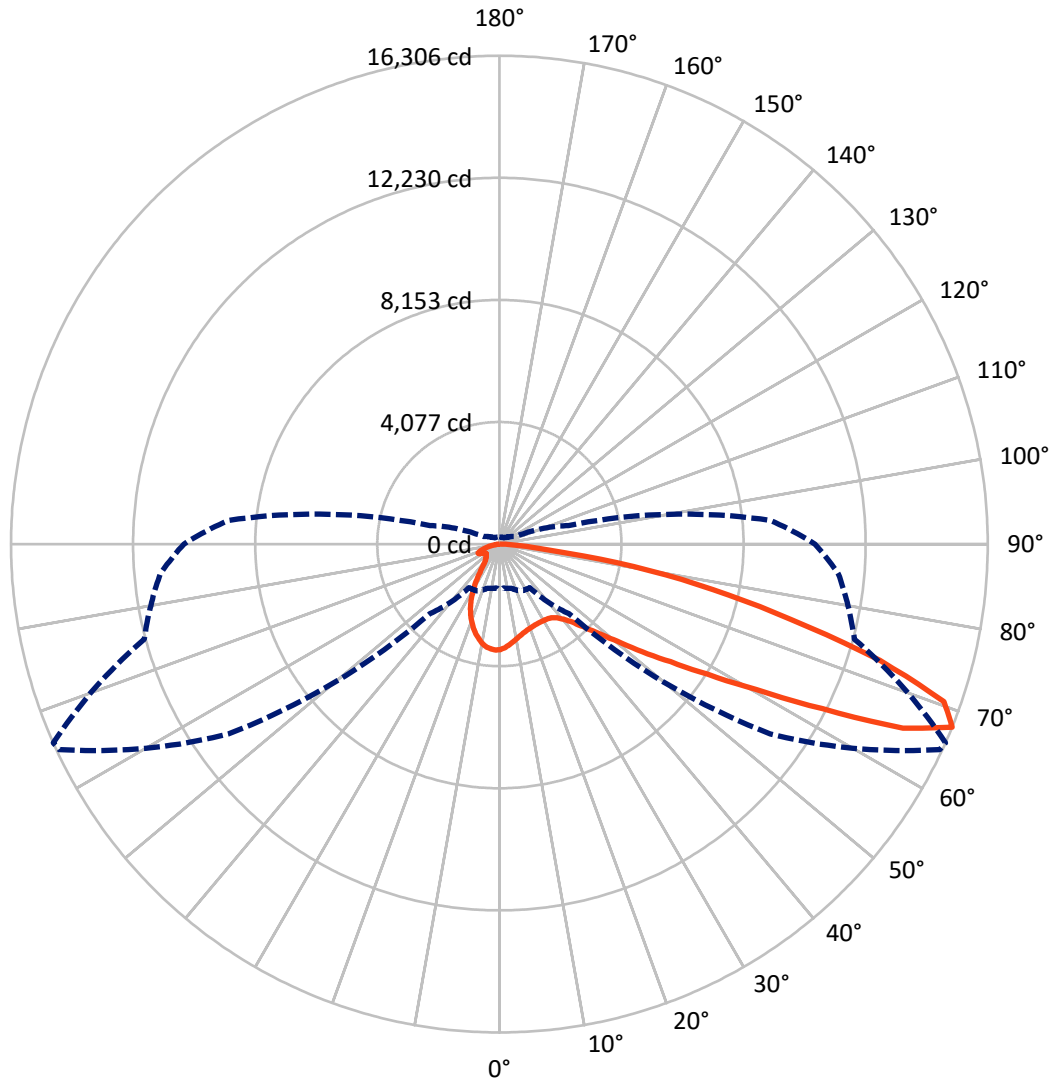
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3234.9	0.0	3234.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	12706.8	0.0	12706.8
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	15941.7	0.0	15941.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.2	1.9
10°-20°	759.8	4.8
20°-30°	1044.4	6.6
30°-40°	1427.8	9.0
40°-50°	2163.5	13.6
50°-60°	3363.2	21.1
60°-70°	4094.7	25.7
70°-80°	2494.3	15.6
80°-90°	284.9	1.8
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°	15941.7	100.0
0°-180°	15941.7	100.0

**Coefficient of Utilization**



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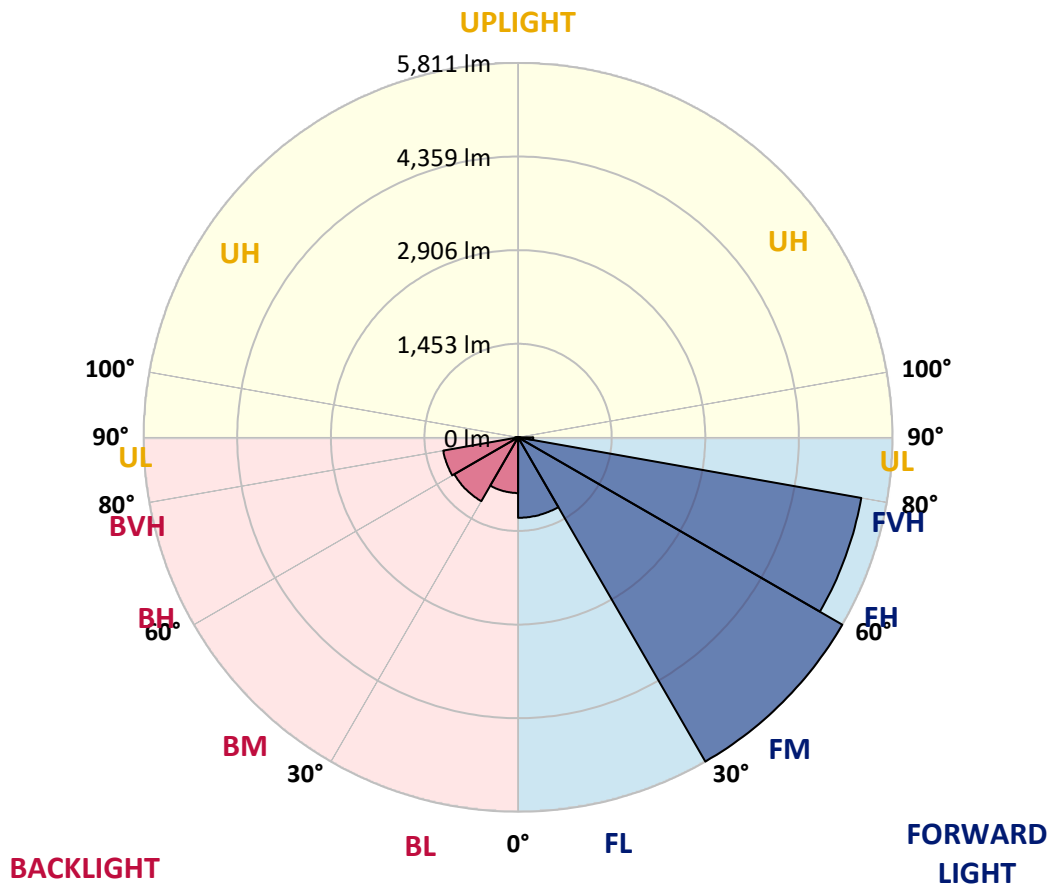
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.1	7.8			
FM (30°-60°)	5811.4	36.5			
FH (60°-80°)	5409.4	33.9			G3/7500
FVH (80°-90°)	236.9	1.5			G3/500
BL (0°-30°)	864.2	5.4	B2/1000		
BM (30°-60°)	1143.2	7.2	B2/2500		
BH (60°-80°)	1179.5	7.4	B3/2500		G3/2500
BVH (80°-90°)	48.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7
2.5°	3299.4	3311.0	3304.0	3348.2	3350.5	3406.4	3437.8	3464.5	3466.8	3501.7	3525.0
5°	3073.8	3080.7	3080.7	3122.6	3150.5	3224.9	3297.0	3373.8	3379.6	3463.4	3527.3
7.5°	2891.2	2898.1	2893.5	2949.3	2985.4	3067.9	3159.8	3277.3	3288.9	3423.8	3535.5
10°	2748.1	2745.8	2757.4	2808.6	2855.1	2954.0	3056.3	3190.1	3207.5	3378.5	3544.8
12.5°	2650.4	2652.8	2659.7	2713.2	2763.2	2860.9	2966.8	3112.1	3130.7	3326.1	3540.1
15°	2603.9	2599.3	2605.1	2653.9	2701.6	2787.7	2897.0	3047.0	3065.6	3279.6	3541.3
17.5°	2593.4	2590.0	2588.8	2623.7	2659.7	2740.0	2844.6	2997.0	3016.8	3249.4	3548.2
20°	2626.0	2621.4	2608.6	2623.7	2638.8	2706.3	2807.4	2960.9	2983.0	3229.6	3562.2
22.5°	2715.6	2707.4	2687.6	2669.0	2649.3	2690.0	2784.2	2934.2	2956.3	3216.8	3576.2
25°	2851.6	2844.6	2823.7	2781.8	2709.7	2702.8	2779.5	2922.6	2944.7	3207.5	3582.0
27.5°	3038.9	3028.4	3007.5	2947.0	2829.5	2750.4	2797.0	2921.4	2942.3	3197.0	3576.2
30°	3261.0	3254.0	3242.4	3169.1	3012.1	2851.6	2836.5	2930.7	2947.0	3191.2	3564.5
32.5°	3486.6	3479.6	3488.9	3454.0	3261.0	3019.1	2922.6	2956.3	2967.9	3190.1	3554.1
35°	3685.5	3693.6	3761.1	3766.9	3577.3	3245.9	3058.6	3015.6	3017.9	3213.3	3558.7
37.5°	3893.7	3925.1	4013.4	4089.0	3930.9	3545.9	3261.0	3127.3	3124.9	3272.6	3587.8
40°	4169.3	4183.2	4296.0	4437.9	4339.1	3957.6	3548.2	3309.8	3293.6	3393.6	3665.7
42.5°	4437.9	4471.7	4651.9	4814.7	4782.2	4421.6	3909.9	3583.1	3554.1	3607.6	3826.2
45°	4779.8	4812.4	5014.8	5224.1	5283.4	4946.1	4372.8	3971.6	3942.5	3929.7	4120.4
47.5°	5121.8	5155.5	5336.9	5639.3	5847.5	5602.1	4975.2	4484.4	4436.8	4386.8	4564.7
50°	5352.0	5391.6	5564.9	5927.7	6416.2	6420.8	5689.3	5156.6	5096.2	5017.1	5190.4
52.5°	5343.9	5369.5	5534.6	5953.3	6825.5	7361.7	6645.3	6012.6	5963.8	5791.6	5942.8
55°	4924.1	4962.4	5128.7	5652.1	6869.7	8253.7	8050.1	7022.1	6934.8	6626.7	6793.0
57.5°	4080.9	4113.5	4280.9	4926.4	6477.8	8710.7	9834.1	8308.3	8188.5	7536.1	7728.0
60°	3080.7	3041.2	3120.3	3685.5	5540.4	8722.3	11408.8	10052.8	9852.8	8508.4	8668.8
62.5°	2312.0	2272.5	2289.9	2449.2	3756.4	8017.6	12306.6	12439.2	12108.9	9606.2	9574.8
65°	1827.0	1804.9	1855.0	1964.3	2189.9	6105.6	12313.6	15019.9	14811.7	10878.5	10504.0
67.5°	1488.6	1474.7	1525.8	1728.2	1775.9	3280.8	11041.3	16224.7	16306.1	12271.8	11365.8
70°	1199.0	1178.1	1258.3	1524.7	1651.4	1985.2	7909.4	15610.7	15742.1	13102.1	11122.7
72.5°	828.0	829.2	869.9	1235.1	1594.4	1714.2	4474.0	12998.6	13283.5	12349.7	9778.3
75°	558.2	562.9	574.5	815.2	1468.8	1663.1	2384.1	9841.1	10042.3	10207.5	8082.7
77.5°	337.3	339.6	366.3	493.1	1013.0	1552.6	1615.4	7133.7	7291.9	6729.0	5010.1
80°	195.4	203.5	227.9	330.3	683.8	1166.5	1250.2	4374.0	4553.1	2991.2	1592.1
82.5°	86.1	91.9	124.4	191.9	398.9	992.0	975.7	1728.2	1702.6	833.9	552.4
85°	15.1	18.6	26.7	60.5	146.5	523.3	757.1	762.9	717.6	316.3	229.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	114.0	204.7	203.5	89.5	79.1
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°	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7
2.5°	3540.1	3508.7	3536.6	3540.1	3534.3	3529.6	3494.8	3464.5	3461.0	3428.5	3428.5
5°	3552.9	3523.8	3537.8	3511.0	3469.2	3426.1	3351.7	3300.5	3277.3	3235.4	3235.4
7.5°	3570.3	3540.1	3523.8	3457.5	3359.8	3265.6	3145.9	3045.8	3005.1	2945.8	2943.5
10°	3586.6	3548.2	3492.4	3363.3	3207.5	3057.5	2883.0	2741.1	2644.6	2573.7	2573.7
12.5°	3585.5	3535.5	3425.0	3234.2	3019.1	2801.6	2569.0	2355.0	2227.1	2116.6	2109.6
15°	3583.1	3514.5	3338.9	3084.2	2799.3	2498.1	2181.7	1902.6	1713.1	1604.9	1595.6
17.5°	3580.8	3487.8	3242.4	2913.3	2531.8	2121.3	1703.8	1401.4	1243.2	1176.9	1179.3
20°	3580.8	3457.5	3138.9	2716.7	2223.6	1670.0	1250.2	1030.4	990.9	994.3	997.8
22.5°	3570.3	3420.3	3023.7	2502.7	1880.5	1228.1	922.2	847.8	868.7	901.3	906.0
25°	3545.9	3358.7	2890.0	2265.5	1472.3	894.3	752.4	738.5	776.9	817.6	829.2
27.5°	3507.5	3287.7	2740.0	1987.5	1083.9	718.7	661.7	660.6	690.8	721.0	731.5
30°	3466.8	3208.7	2581.8	1678.2	785.0	625.7	603.6	603.6	618.7	637.3	635.0
32.5°	3419.2	3128.4	2412.0	1356.0	639.6	573.3	566.4	562.9	565.2	572.2	572.2
35°	3378.5	3057.5	2237.6	1015.3	573.3	544.3	537.3	529.2	525.7	521.0	523.3
37.5°	3363.3	3001.6	2057.3	765.2	540.8	523.3	511.7	500.1	491.9	489.6	488.5
40°	3387.8	2978.4	1877.0	630.3	517.5	501.2	488.5	473.3	466.4	466.4	466.4
42.5°	3483.1	2995.8	1693.3	569.9	501.2	482.6	464.0	450.1	447.7	450.1	451.2
45°	3657.6	3063.3	1502.6	539.6	487.3	464.0	441.9	431.5	431.5	433.8	433.8
47.5°	3969.2	3240.1	1314.2	521.0	473.3	448.9	425.7	415.2	414.0	416.3	416.3
50°	4508.9	3558.7	1144.4	508.2	462.9	437.3	414.0	400.1	396.6	395.4	395.4
52.5°	5189.2	4111.1	1036.2	498.9	450.1	424.5	401.2	382.6	375.6	372.2	372.2
55°	6011.4	4847.3	1036.2	491.9	433.8	409.4	382.6	364.0	353.5	348.9	348.9
57.5°	6943.0	5704.4	1215.3	486.1	421.0	391.9	362.8	344.2	332.6	325.6	325.6
60°	7890.8	6610.4	1658.4	478.0	409.4	369.8	340.8	323.3	308.2	300.0	298.9
62.5°	8873.5	7608.2	2242.2	482.6	401.2	348.9	317.5	297.7	284.9	276.8	275.6
65°	9773.7	8558.4	2752.8	518.7	402.4	330.3	290.7	273.3	262.8	252.4	251.2
67.5°	10537.8	9082.9	2394.6	592.0	426.8	308.2	264.0	246.6	237.2	230.3	229.1
70°	10002.8	8282.7	1358.4	637.3	460.5	284.9	233.8	222.1	212.8	208.2	207.0
72.5°	8553.7	7012.8	908.3	562.9	419.8	254.7	205.8	196.5	189.6	183.8	182.6
75°	6929.0	5561.4	694.3	461.7	326.8	207.0	176.8	169.8	162.8	157.0	155.8
77.5°	4099.5	3213.3	511.7	365.2	230.3	161.7	146.5	140.7	133.7	129.1	127.9
80°	1308.4	1116.5	324.5	251.2	152.4	124.4	112.8	108.2	101.2	95.4	94.2
82.5°	498.9	431.5	172.1	127.9	101.2	84.9	75.6	70.9	66.3	60.5	59.3
85°	221.0	207.0	95.4	68.6	54.7	41.9	37.2	34.9	29.1	24.4	23.3
87.5°	77.9	77.9	40.7	19.8	11.6	5.8	3.5	1.2	0.0	0.0	0.0
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)