

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: P633922

Luminaire Tested: GWS-SA2F-760-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-760-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

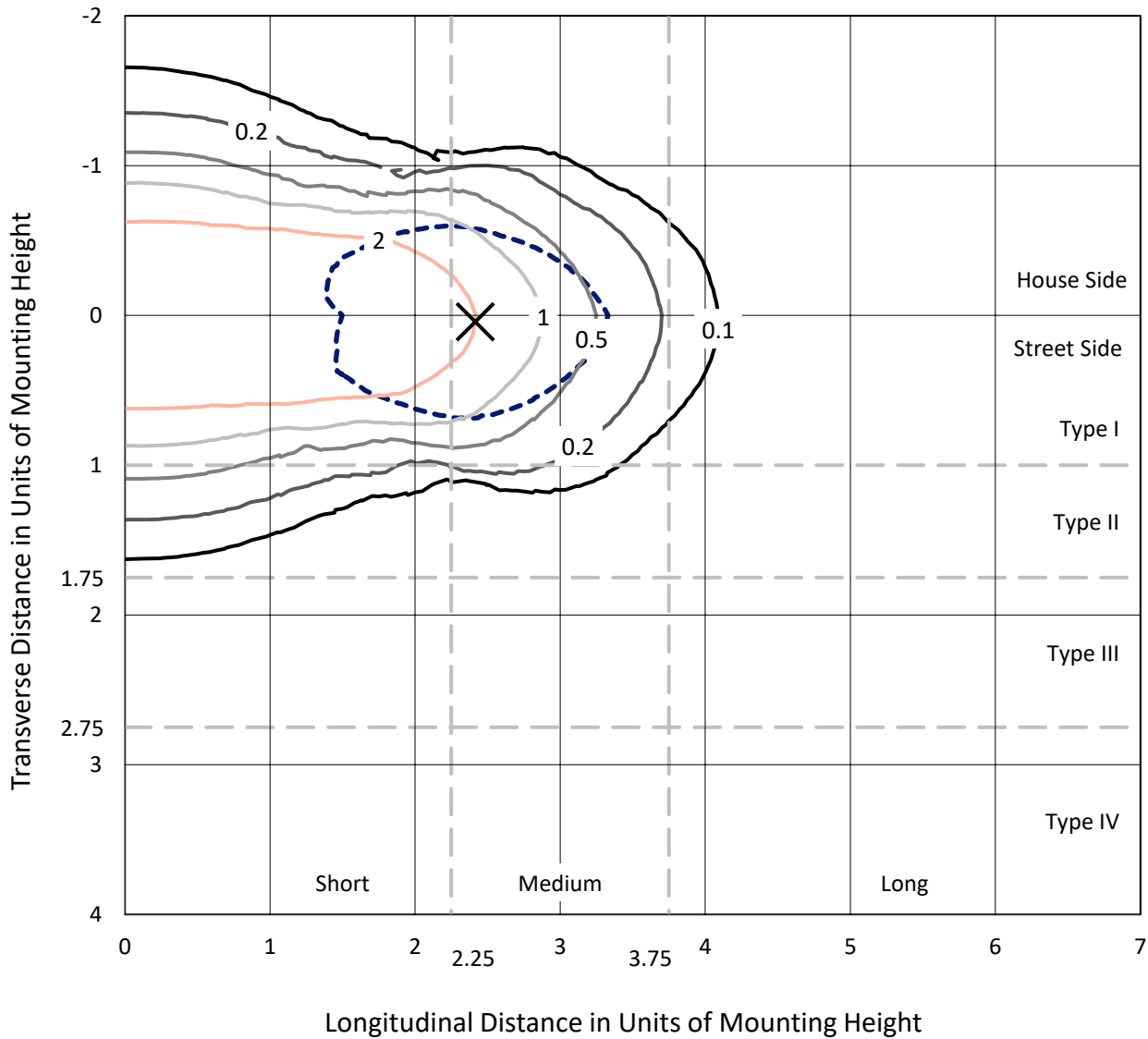
Lumens per Lamp: N/A  
Luminaire Lumens: 16337 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

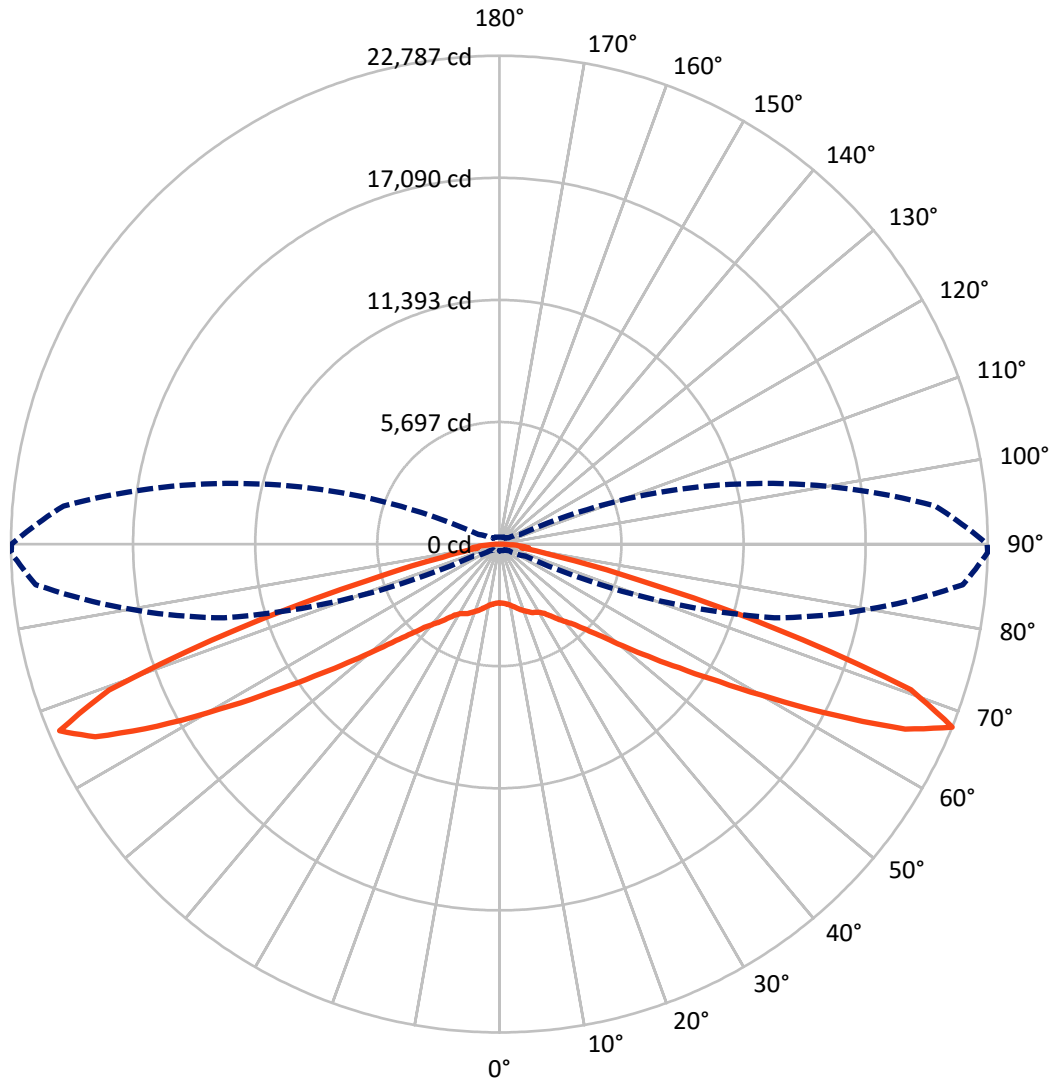
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8096.9	0.0	8096.9
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	8240.1	0.0	8240.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	16337.0	0.0	16337.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.0	1.7
10°-20°	895.6	5.5
20°-30°	1514.0	9.3
30°-40°	2077.7	12.7
40°-50°	2649.6	16.2
50°-60°	3324.3	20.3
60°-70°	4009.4	24.5
70°-80°	1450.5	8.9
80°-90°	141.1	0.9
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°	16337.0	100.0
0°-180°	16337.0	100.0

**Coefficient of Utilization**



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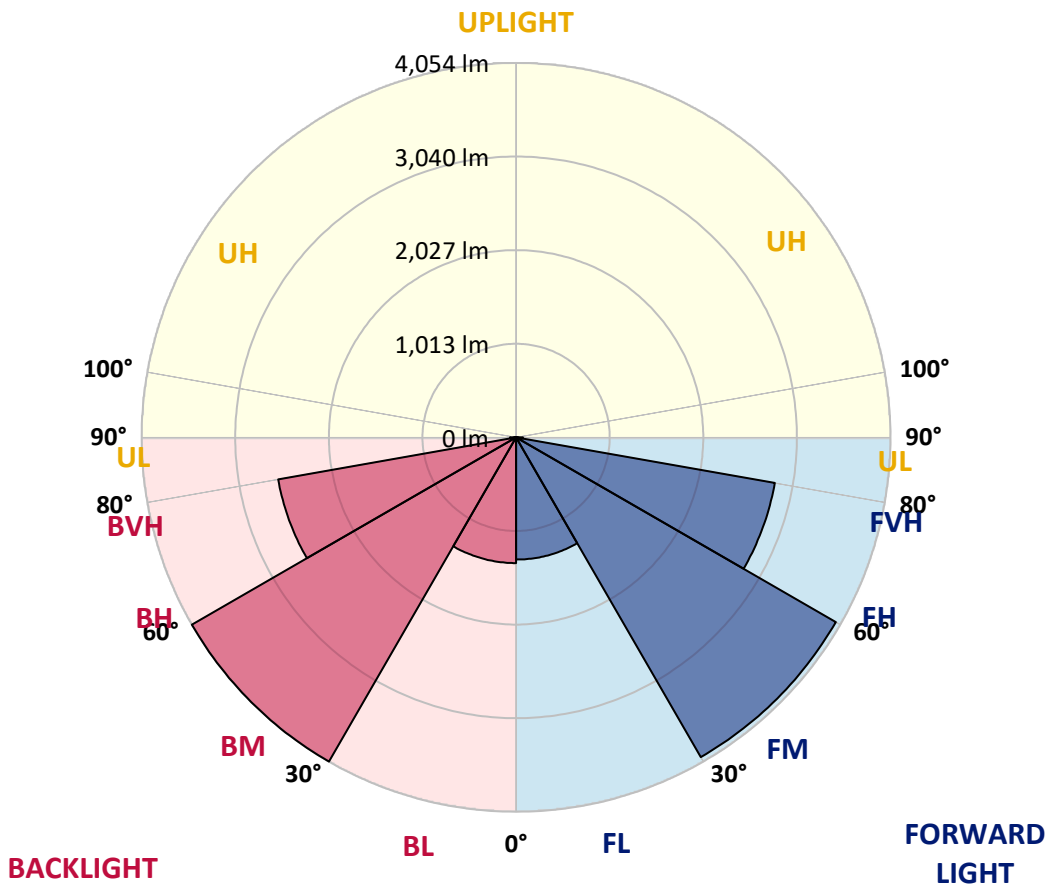
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1323.2	8.1			
FM (30°-60°)	3998.0	24.5			
FH (60°-80°)	2844.5	17.4			G2/5000
FVH (80°-90°)	74.4	0.5			G1/100
BL (0°-30°)	1361.4	8.3	B3/2500		
BM (30°-60°)	4053.6	24.8	B3/5000		
BH (60°-80°)	2615.3	16.0	B4/5000		G4/5000
BVH (80°-90°)	66.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0
2.5°	2750.2	2747.9	2742.0	2759.6	2756.1	2757.3	2764.3	2759.6	2751.4	2737.3	2757.3
5°	2827.7	2826.5	2813.6	2824.2	2812.4	2804.2	2803.0	2791.3	2781.9	2766.7	2787.8
7.5°	2902.8	2901.6	2891.0	2909.8	2900.4	2891.0	2880.5	2857.0	2834.7	2812.4	2835.9
10°	2960.3	2959.1	2956.8	2983.7	2986.1	2989.6	2984.9	2945.0	2906.3	2879.3	2902.8
12.5°	2993.1	2996.6	3002.5	3051.8	3076.4	3099.9	3105.8	3072.9	3008.4	2969.7	2997.8
15°	2970.8	2977.9	3007.2	3096.4	3164.4	3217.2	3239.5	3212.5	3129.2	3064.7	3096.4
17.5°	2864.1	2869.9	2927.4	3063.5	3213.7	3335.7	3372.1	3355.7	3263.0	3184.4	3214.9
20°	2716.2	2729.1	2791.3	2981.4	3205.5	3417.9	3515.2	3509.4	3408.5	3287.6	3324.0
22.5°	2582.5	2597.7	2663.4	2873.4	3150.3	3439.0	3659.6	3674.8	3541.1	3390.9	3420.2
25°	2432.3	2446.4	2530.8	2745.6	3055.3	3422.6	3782.8	3852.0	3691.2	3509.4	3536.4
27.5°	2278.6	2289.1	2372.4	2601.2	2930.9	3392.0	3880.1	4046.8	3839.1	3591.5	3610.3
30°	2143.6	2157.7	2234.0	2456.9	2794.8	3331.0	3959.9	4254.4	4009.2	3684.2	3699.5
32.5°	2013.4	2025.1	2108.4	2314.9	2650.5	3237.2	4031.5	4498.5	4261.5	3856.7	3856.7
35°	1849.1	1870.3	1964.1	2178.8	2514.4	3112.8	4083.1	4782.4	4606.4	4111.3	4112.5
37.5°	1697.8	1709.5	1808.1	2025.1	2371.3	2972.0	4087.8	5076.9	5042.9	4435.1	4437.5
40°	1525.3	1540.6	1646.2	1860.9	2207.0	2824.2	4043.2	5351.5	5500.5	4768.3	4755.4
42.5°	1350.5	1372.8	1473.7	1683.7	2029.8	2643.5	3924.7	5613.1	6081.3	5154.4	5122.7
45°	1181.5	1195.6	1296.5	1494.8	1826.8	2427.6	3734.7	5864.2	6771.2	5741.0	5695.3
47.5°	991.4	997.3	1101.7	1291.8	1616.8	2187.1	3462.4	6088.3	7529.2	6517.8	6439.1
50°	822.5	830.7	912.8	1075.9	1359.9	1901.9	3123.4	6219.7	8494.8	7577.3	7441.2
52.5°	665.3	673.5	739.2	869.4	1124.0	1576.9	2703.3	6189.2	9474.5	8892.5	8694.3
55°	537.4	543.2	587.8	689.9	884.7	1254.3	2207.0	5915.8	10562.2	10610.3	10183.2
57.5°	454.1	456.4	486.9	549.1	691.1	966.8	1703.7	5270.5	11702.6	12802.0	12100.4
60°	406.0	407.1	421.2	459.9	545.6	738.0	1248.4	4242.7	12884.2	15544.1	14581.9
62.5°	375.5	375.5	387.2	409.5	452.9	567.9	917.5	3047.1	13732.5	18527.8	17571.5
65°	346.1	346.1	354.3	373.1	396.6	463.5	688.7	1965.3	14149.0	21022.3	20809.9
67.5°	308.6	309.8	315.6	335.6	356.7	387.2	522.1	1329.4	13284.3	21712.2	22786.9
70°	273.4	274.6	282.8	295.7	313.3	334.4	408.3	916.4	9669.3	18083.1	20374.6
72.5°	234.7	239.4	245.2	259.3	269.9	285.1	333.2	593.7	5626.0	11632.2	13468.5
75°	192.4	198.3	205.3	219.4	226.4	232.3	274.6	423.6	2706.8	5894.7	6712.5
77.5°	149.0	154.9	163.1	176.0	180.7	187.7	210.0	306.2	1296.5	2613.0	2817.1
80°	99.7	102.1	109.1	124.4	132.6	137.3	154.9	208.8	563.2	1048.9	1039.6
82.5°	61.0	62.2	64.5	73.9	77.4	82.1	100.9	127.9	268.7	1192.1	1366.9
85°	22.3	21.1	19.9	25.8	30.5	35.2	46.9	64.5	117.3	819.0	916.4
87.5°	0.0	0.0	0.0	1.2	2.3	2.3	4.7	9.4	28.2	306.2	210.0
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°	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0	2742.0
2.5°	2751.4	2738.5	2754.9	2766.7	2792.5	2801.9	2804.2	2796.0	2796.0	2781.9	2784.3
5°	2783.1	2774.9	2801.9	2821.8	2859.4	2873.4	2882.8	2877.0	2880.5	2871.1	2873.4
7.5°	2831.2	2824.2	2871.1	2909.8	2948.5	2965.0	2973.2	2968.5	2969.7	2957.9	2961.4
10°	2898.1	2900.4	2956.8	3007.2	3058.8	3075.3	3078.8	3064.7	3053.0	3031.8	3033.0
12.5°	2989.6	3001.3	3081.1	3137.4	3190.2	3213.7	3187.9	3136.3	3088.2	3051.8	3047.1
15°	3089.3	3110.5	3225.4	3297.0	3354.5	3342.8	3266.5	3150.3	3055.3	3001.3	2990.8
17.5°	3209.0	3240.7	3385.0	3470.7	3519.9	3444.8	3285.3	3111.6	2979.0	2906.3	2892.2
20°	3321.7	3372.1	3554.0	3665.4	3671.3	3502.3	3277.1	3033.0	2866.4	2777.2	2758.5
22.5°	3424.9	3489.4	3731.1	3873.1	3796.8	3528.2	3226.6	2921.6	2730.3	2625.9	2609.4
25°	3537.5	3629.1	3937.6	4070.2	3922.4	3517.6	3121.0	2783.1	2566.0	2459.3	2447.5
27.5°	3615.0	3730.0	4145.3	4272.0	4025.6	3457.8	2984.9	2631.7	2415.9	2314.9	2298.5
30°	3704.2	3850.8	4374.1	4491.4	4089.0	3369.8	2839.4	2490.9	2276.2	2167.1	2155.4
32.5°	3866.1	4050.3	4658.1	4723.8	4108.9	3260.6	2699.8	2354.8	2130.7	2021.6	2005.2
35°	4126.5	4342.4	5057.0	4983.1	4093.7	3141.0	2567.2	2195.3	1981.7	1879.6	1863.2
37.5°	4455.1	4723.8	5501.7	5216.6	4051.5	3009.5	2410.0	2061.5	1848.0	1744.7	1735.3
40°	4761.3	5092.2	6000.3	5418.4	3965.8	2847.6	2258.6	1921.9	1703.7	1594.5	1573.4
42.5°	5145.0	5585.0	6577.6	5593.2	3825.0	2654.0	2088.5	1749.4	1523.0	1424.4	1398.6
45°	5728.1	6274.9	7248.7	5761.0	3615.0	2415.9	1875.0	1539.4	1324.7	1223.8	1203.8
47.5°	6455.6	7137.3	7976.2	5860.7	3295.8	2164.8	1633.3	1317.6	1102.9	989.1	979.7
50°	7477.5	8391.5	8756.4	5843.1	2939.2	1866.7	1361.0	1053.6	874.1	792.0	779.1
52.5°	8722.4	9966.1	9600.1	5631.9	2560.2	1527.7	1060.7	827.2	693.4	634.8	624.2
55°	10284.1	11851.6	10488.3	5179.0	2081.5	1169.8	833.1	652.4	560.8	525.6	521.0
57.5°	12217.7	14293.3	11343.6	4416.4	1565.2	892.9	641.8	538.6	495.1	474.0	472.8
60°	14769.7	16885.2	12086.3	3431.9	1120.5	682.9	530.3	481.1	447.0	433.0	431.8
62.5°	17803.9	19238.8	12548.6	2337.2	842.4	544.4	467.0	436.5	416.5	408.3	407.1
65°	20922.5	20726.6	12328.0	1531.2	639.5	462.3	418.9	402.4	384.8	376.6	376.6
67.5°	22764.6	20412.1	10634.9	1063.0	506.9	406.0	377.8	362.6	333.2	326.2	326.2
70°	20163.4	16540.2	6970.7	777.9	410.7	355.5	328.5	307.4	295.7	288.6	287.5
72.5°	13335.9	10762.8	3706.5	539.7	342.6	302.7	278.1	269.9	255.8	248.7	247.6
75°	6637.4	5653.0	1899.6	389.5	285.1	242.9	232.3	228.8	217.1	207.7	205.3
77.5°	2766.7	2516.8	885.9	282.8	217.1	195.9	186.6	186.6	173.7	163.1	158.4
80°	1043.1	929.3	418.9	193.6	160.7	145.5	139.6	134.9	124.4	111.5	104.4
82.5°	1395.1	911.7	205.3	120.9	105.6	93.9	85.7	82.1	76.3	70.4	65.7
85°	903.5	647.7	92.7	62.2	52.8	39.9	35.2	32.9	29.3	25.8	23.5
87.5°	184.2	217.1	28.2	11.7	7.0	3.5	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)