

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: P642465

Luminaire Tested: GWS-SA6C-830-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642465  
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-SA6C-830-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

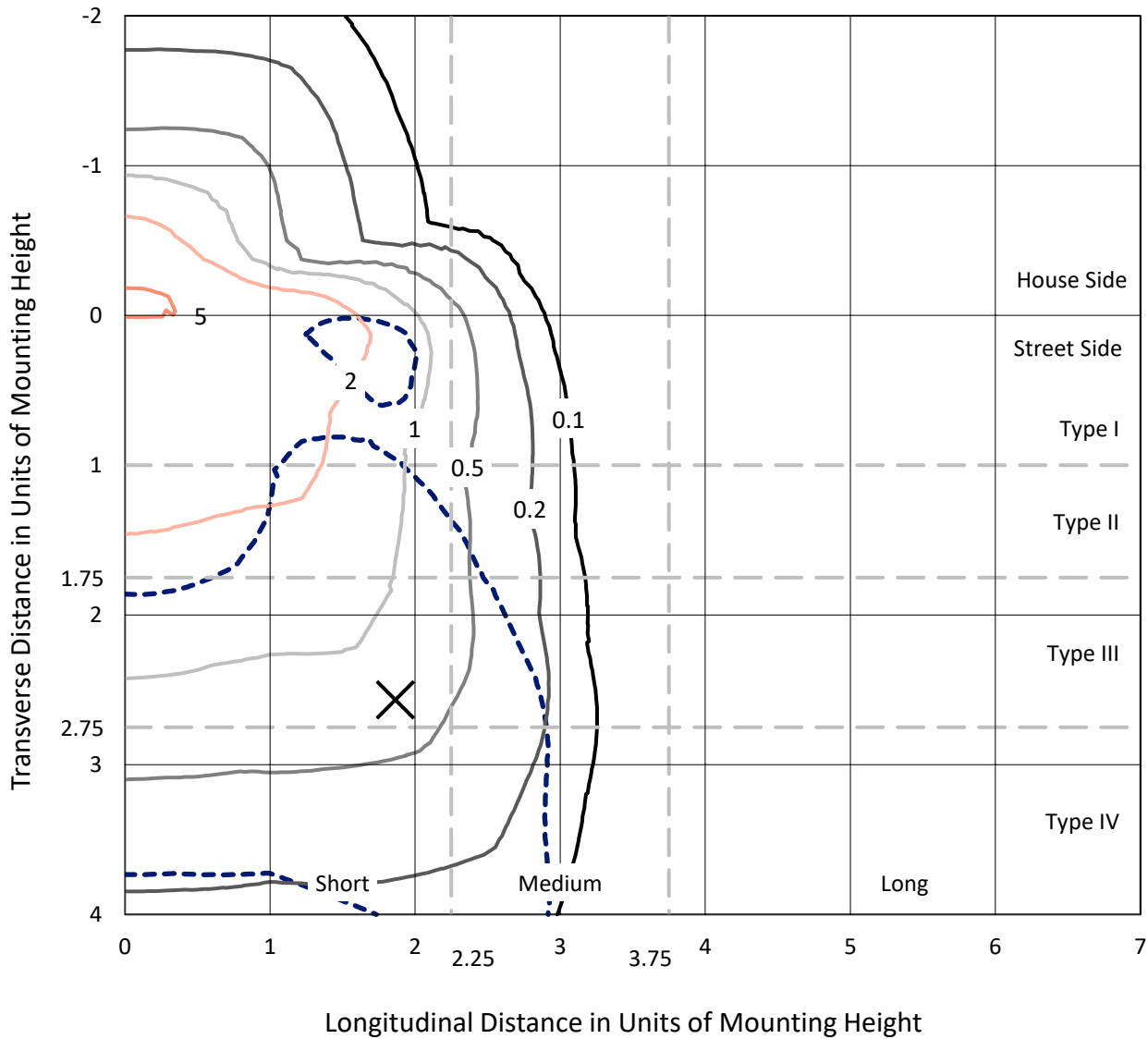
Lumens per Lamp: N/A  
Luminaire Lumens: 21787.5 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

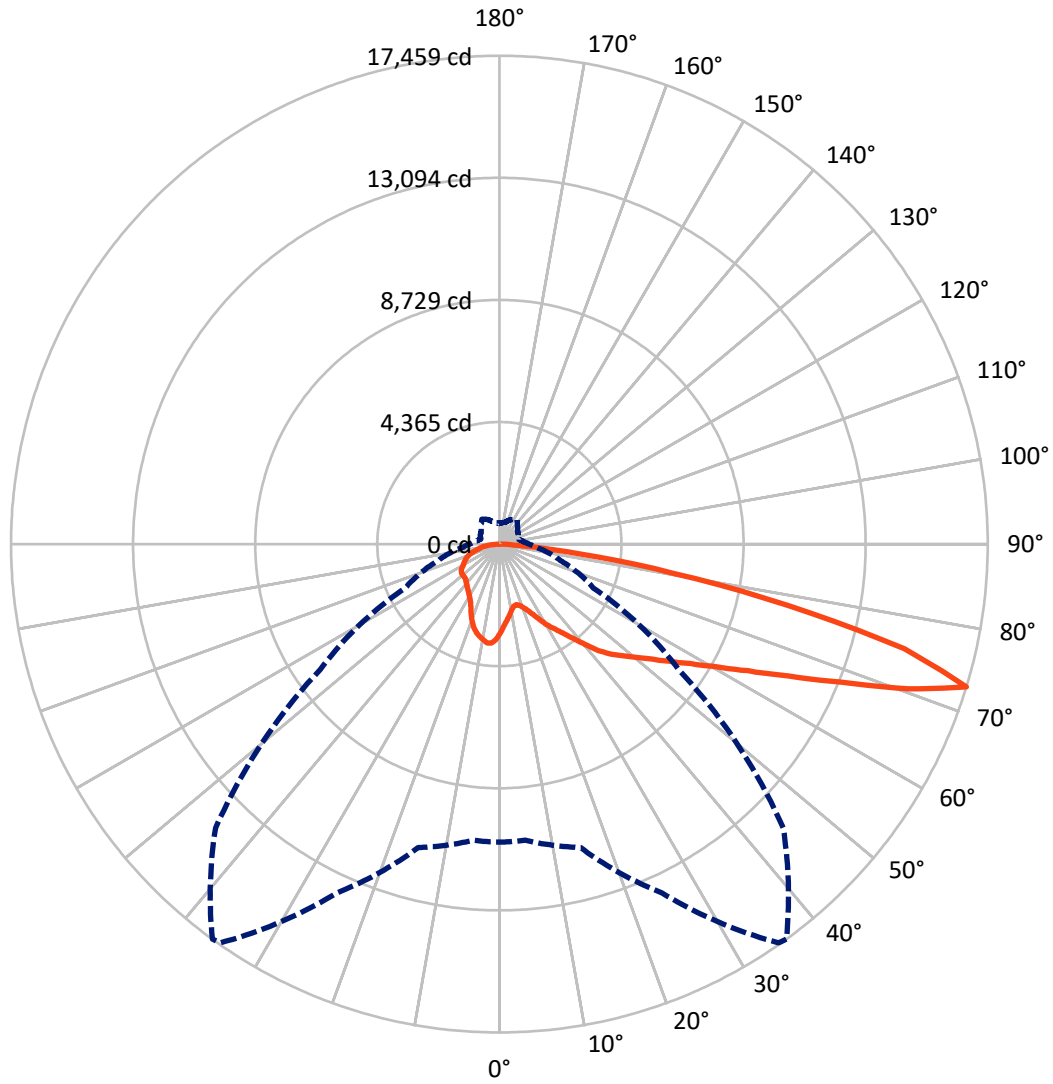
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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
<b>House Side</b>	Lumens	5023.0	0.0	5023.0
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	16764.5	0.0	16764.5
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	21787.5	0.0	21787.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.1	1.4
10°-20°	840.9	3.9
20°-30°	1392.7	6.4
30°-40°	2085.7	9.6
40°-50°	3042.8	14.0
50°-60°	4330.9	19.9
60°-70°	5471.7	25.1
70°-80°	3899.1	17.9
80°-90°	425.6	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°	21787.5	100.0
0°-180°	21787.5	100.0

**Coefficient of Utilization**



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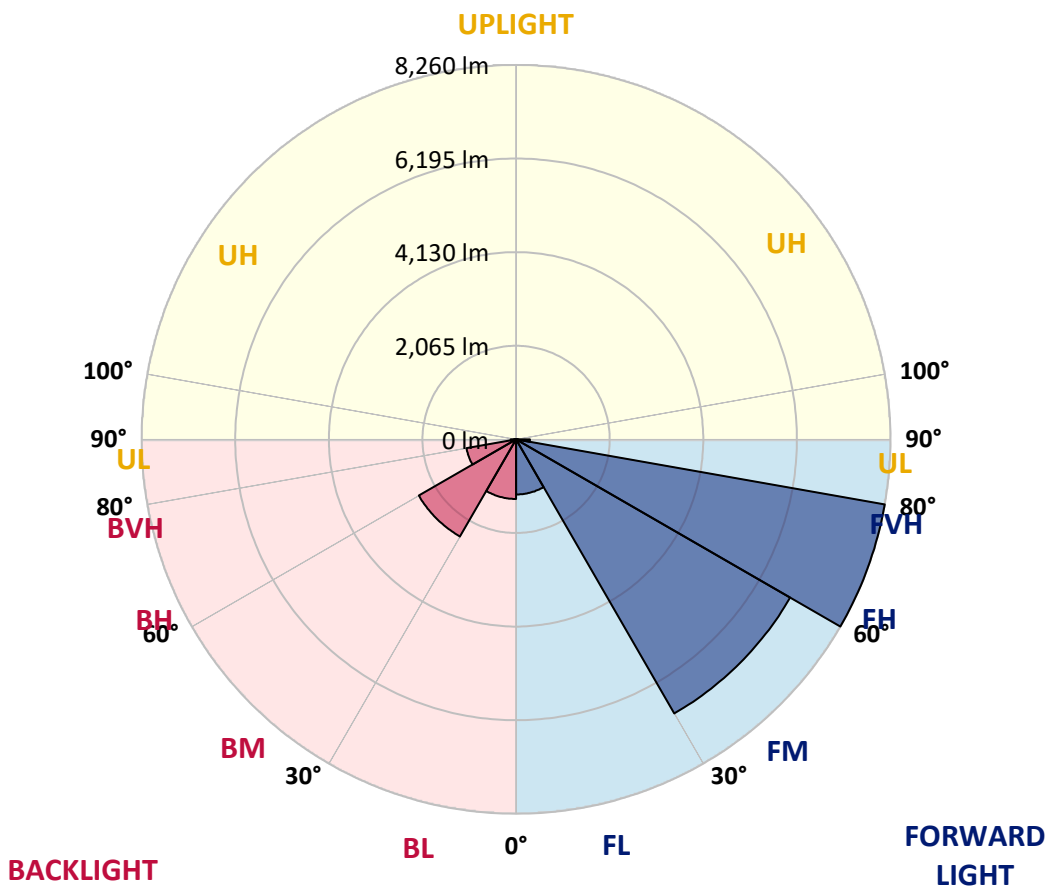
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.3	5.6			
FM (30°-60°)	6982.3	32.0			
FH (60°-80°)	8260.4	37.9			G4/12000
FVH (80°-90°)	305.5	1.4			G3/500
BL (0°-30°)	1315.3	6.0	B3/2500		
BM (30°-60°)	2477.0	11.4	B2/2500		
BH (60°-80°)	1110.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	120.1	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°	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7
2.5°	2909.0	2904.1	2894.4	2923.5	2952.6	2949.4	2989.8	3028.6	3070.7	3114.3	3172.5
5°	2676.1	2672.9	2664.8	2708.5	2752.1	2750.5	2816.8	2879.9	2965.6	3059.3	3175.8
7.5°	2443.3	2435.2	2446.5	2501.5	2562.9	2569.4	2659.9	2763.4	2887.9	3028.6	3193.5
10°	2237.9	2236.3	2241.1	2302.6	2394.8	2401.2	2517.6	2661.6	2826.5	3014.1	3234.0
12.5°	2184.5	2181.3	2168.4	2199.1	2268.6	2278.3	2406.1	2582.3	2784.5	3022.1	3289.0
15°	2271.9	2263.8	2218.5	2204.0	2237.9	2246.0	2354.3	2535.4	2760.2	3036.7	3358.5
17.5°	2422.2	2417.4	2331.7	2271.9	2294.5	2301.0	2381.8	2527.4	2753.7	3065.8	3444.2
20°	2642.2	2621.1	2486.9	2396.4	2396.4	2406.1	2454.6	2562.9	2761.8	3101.4	3541.2
22.5°	2933.2	2891.2	2702.0	2579.1	2546.8	2559.7	2580.7	2651.9	2795.8	3161.2	3662.5
25°	3259.8	3221.0	2996.3	2823.3	2778.0	2782.8	2765.0	2778.0	2870.2	3243.7	3812.9
27.5°	3607.5	3581.6	3342.3	3122.4	3051.3	3051.3	2988.2	2957.5	2973.6	3337.5	3981.0
30°	3918.0	3882.4	3680.3	3439.3	3345.5	3345.5	3225.9	3159.6	3120.8	3452.3	4205.8
32.5°	4081.3	4060.3	3926.0	3741.7	3626.9	3609.1	3505.6	3428.0	3337.5	3622.1	4509.8
35°	4294.7	4289.9	4209.0	4065.1	3919.6	3893.7	3822.6	3761.1	3604.3	3833.9	4914.0
37.5°	4563.1	4555.1	4542.1	4456.4	4281.8	4276.9	4213.9	4139.5	3935.7	4139.5	5404.0
40°	4863.9	4849.3	4833.2	4831.6	4726.5	4708.7	4703.8	4619.7	4335.1	4508.2	5914.9
42.5°	5277.8	5227.7	5075.7	5143.6	5221.3	5205.1	5266.5	5140.4	4833.2	4946.4	6398.4
45°	5787.2	5664.3	5363.5	5382.9	5578.6	5610.9	5824.4	5793.7	5381.3	5452.5	6907.8
47.5°	6092.8	5986.1	5706.3	5690.2	5934.3	5974.8	6438.8	6497.1	5971.5	6062.1	7536.8
50°	6343.4	6269.1	6039.4	6062.1	6320.8	6361.2	7048.4	7173.0	6527.8	6686.2	8267.7
52.5°	6645.8	6539.1	6361.2	6467.9	6784.9	6833.4	7726.0	7860.2	7029.0	7371.8	9024.4
55°	6815.6	6771.9	6775.2	6938.5	7336.3	7402.6	8435.8	8413.2	7488.3	7958.8	9593.6
57.5°	7206.9	7190.7	7339.5	7400.9	7979.8	8065.5	9145.7	8951.6	7905.4	8413.2	9866.9
60°	7897.4	7856.9	7986.3	8080.1	8775.4	8896.7	9938.0	9478.8	8188.4	8751.1	9774.7
62.5°	8867.6	8817.4	8822.3	8971.0	9841.0	9968.7	10819.3	9918.6	8275.7	8802.9	9191.0
65°	10073.8	10001.1	9918.6	10120.7	11255.8	11362.6	11778.1	10238.8	8067.1	8304.8	7971.7
67.5°	11346.4	11286.6	11189.5	11613.2	13087.9	13152.6	12853.4	10211.3	7405.8	6972.4	5591.5
70°	11420.8	11435.3	11894.6	13427.5	15479.4	15495.6	13870.5	9658.3	5997.4	4519.5	2786.1
72.5°	10654.3	10630.1	11228.4	13758.9	17403.6	17458.6	14350.8	7824.6	3706.1	2254.1	1306.5
75°	8654.1	8696.2	9325.2	12038.5	14916.7	14965.2	11698.9	4613.3	1760.9	1102.8	836.0
77.5°	3725.5	3960.0	5200.2	8481.1	10683.4	10533.1	6029.7	1869.2	939.5	785.9	640.3
80°	1075.3	1167.5	1853.1	4032.8	6401.7	6288.5	2386.7	700.2	654.9	590.2	459.2
82.5°	347.7	384.8	679.1	1605.7	2868.5	2865.3	905.5	413.9	428.5	401.0	295.9
85°	97.0	111.6	208.6	486.7	887.7	869.9	262.0	195.7	228.0	231.2	147.1
87.5°	0.0	0.0	1.6	3.2	3.2	3.2	6.5	29.1	66.3	84.1	59.8
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°	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7	3188.7
2.5°	3208.1	3203.3	3269.5	3321.3	3369.8	3402.1	3411.8	3418.3	3431.2	3437.7	3431.2
5°	3230.7	3255.0	3364.9	3445.8	3510.5	3549.3	3550.9	3547.7	3557.4	3549.3	3544.4
7.5°	3279.2	3326.1	3465.2	3550.9	3592.9	3594.6	3555.8	3510.5	3487.8	3468.4	3462.0
10°	3343.9	3413.5	3565.5	3622.1	3609.1	3549.3	3463.6	3392.4	3352.0	3322.9	3316.4
12.5°	3432.9	3510.5	3654.4	3652.8	3571.9	3465.2	3364.9	3279.2	3221.0	3187.1	3175.8
15°	3516.9	3615.6	3719.1	3643.1	3515.3	3386.0	3256.6	3141.8	3064.2	3010.8	3001.1
17.5°	3620.4	3725.5	3766.0	3612.3	3444.2	3277.6	3104.6	2954.2	2849.1	2786.1	2781.2
20°	3740.1	3833.9	3788.6	3559.0	3352.0	3133.7	2899.3	2731.1	2617.9	2556.5	2561.3
22.5°	3879.2	3947.1	3795.1	3486.2	3224.3	2930.0	2668.0	2506.3	2430.3	2398.0	2399.6
25°	4027.9	4071.6	3783.7	3387.6	3028.6	2681.0	2430.3	2355.9	2349.5	2341.4	2344.6
27.5°	4204.2	4194.5	3749.8	3248.5	2765.0	2391.5	2263.8	2283.2	2309.1	2305.8	2309.1
30°	4440.2	4348.1	3706.1	3056.1	2451.4	2149.0	2165.1	2220.1	2254.1	2257.3	2267.0
32.5°	4710.3	4517.9	3636.6	2794.2	2152.2	2013.1	2073.0	2139.3	2179.7	2187.8	2200.7
35°	5032.1	4711.9	3513.7	2467.5	1937.2	1932.3	1987.3	2032.6	2076.2	2079.4	2079.4
37.5°	5402.4	4905.9	3318.1	2106.9	1804.6	1862.8	1914.5	1924.2	1935.5	1925.8	1930.7
40°	5741.9	5093.5	3039.9	1778.7	1696.2	1801.3	1845.0	1812.6	1777.1	1752.8	1757.7
42.5°	6026.5	5221.3	2671.3	1549.1	1586.3	1746.3	1780.3	1714.0	1644.5	1599.2	1605.7
45°	6346.7	5339.3	2237.9	1393.8	1492.5	1707.5	1730.2	1644.5	1555.5	1487.6	1477.9
47.5°	6788.1	5580.2	1853.1	1285.5	1426.2	1686.5	1723.7	1607.3	1490.9	1389.0	1377.7
50°	7333.0	5921.4	1531.3	1214.4	1395.5	1675.2	1722.1	1566.9	1427.8	1308.1	1300.1
52.5°	7928.1	6254.5	1293.6	1159.4	1364.7	1641.2	1714.0	1521.6	1361.5	1232.1	1222.4
55°	8324.2	6385.5	1133.5	1107.6	1314.6	1587.9	1681.7	1477.9	1261.2	1143.2	1128.7
57.5°	8440.7	6217.3	1021.9	1060.7	1249.9	1513.5	1620.2	1385.8	1199.8	1106.0	1094.7
60°	8240.2	5793.7	952.4	1021.9	1178.8	1418.1	1513.5	1332.4	1151.3	1067.2	1059.1
62.5°	7674.2	5140.4	899.0	981.5	1106.0	1317.8	1445.6	1267.7	1097.9	1031.6	1020.3
65°	6535.9	4215.5	855.4	939.5	1036.5	1222.4	1371.2	1203.0	1039.7	989.6	976.7
67.5°	4571.2	2960.7	808.5	889.3	967.0	1130.3	1293.6	1143.2	979.9	942.7	929.8
70°	2234.7	1570.1	751.9	831.1	892.6	1036.5	1216.0	1070.4	900.7	879.6	861.9
72.5°	1064.0	878.0	685.6	751.9	790.7	912.0	1086.6	965.3	806.9	761.6	730.9
75°	713.1	624.2	598.3	658.1	667.8	764.8	931.4	832.7	711.5	659.7	633.9
77.5°	540.1	477.0	502.9	556.2	536.8	629.0	766.5	742.2	641.9	595.1	582.1
80°	380.0	347.7	399.4	431.7	417.2	535.2	690.5	635.5	528.8	477.0	467.3
82.5°	239.3	232.8	294.3	299.1	304.0	423.7	567.6	499.6	410.7	338.0	313.7
85°	119.7	132.6	176.3	176.3	174.6	218.3	323.4	281.4	221.5	176.3	171.4
87.5°	40.4	56.6	76.0	61.4	46.9	37.2	42.0	51.7	55.0	53.4	53.4
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)