

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: P642683

Luminaire Tested: GWS-SA6D-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642683  
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-SA6D-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

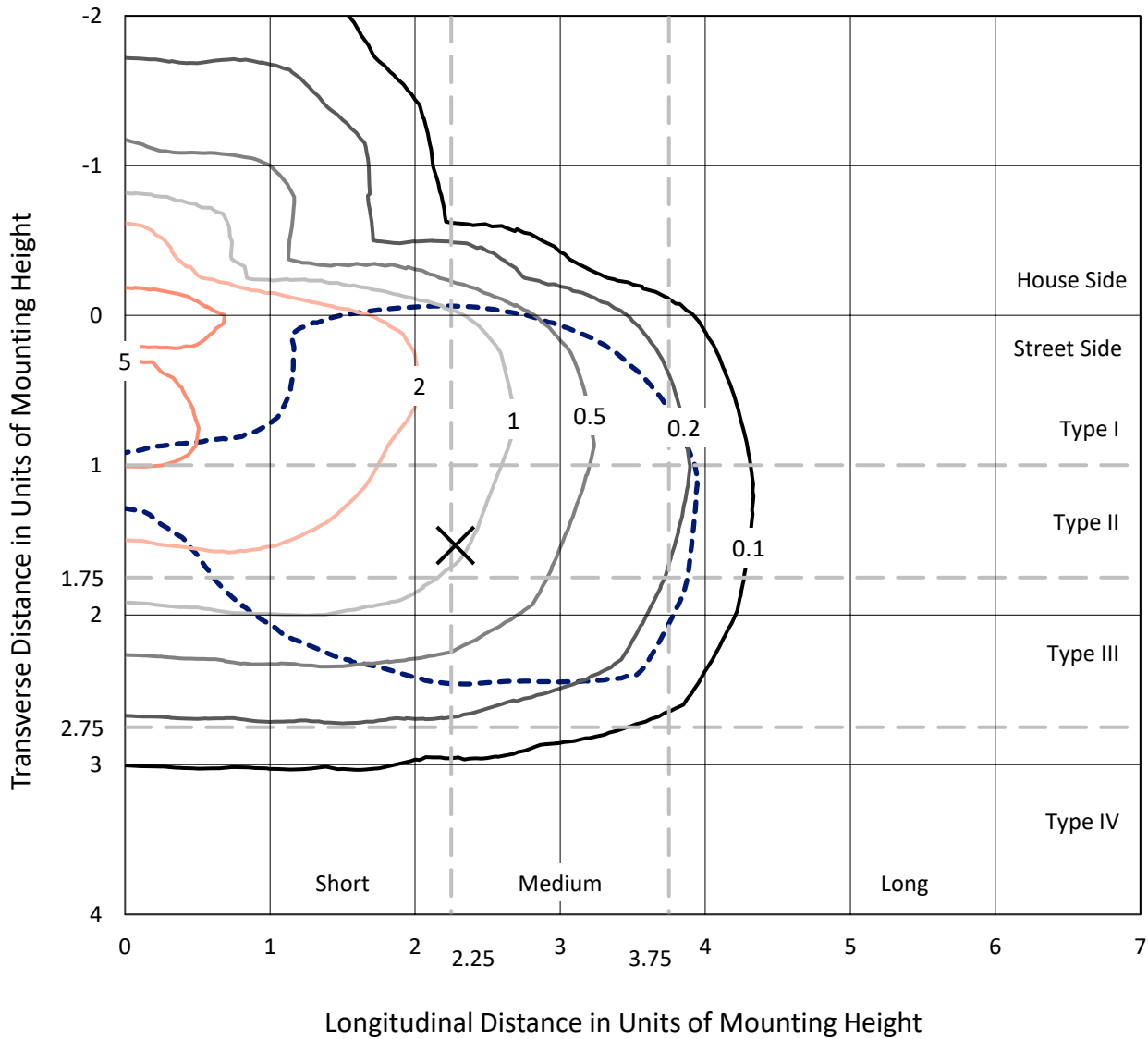
Lumens per Lamp: N/A  
Luminaire Lumens: 35917 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

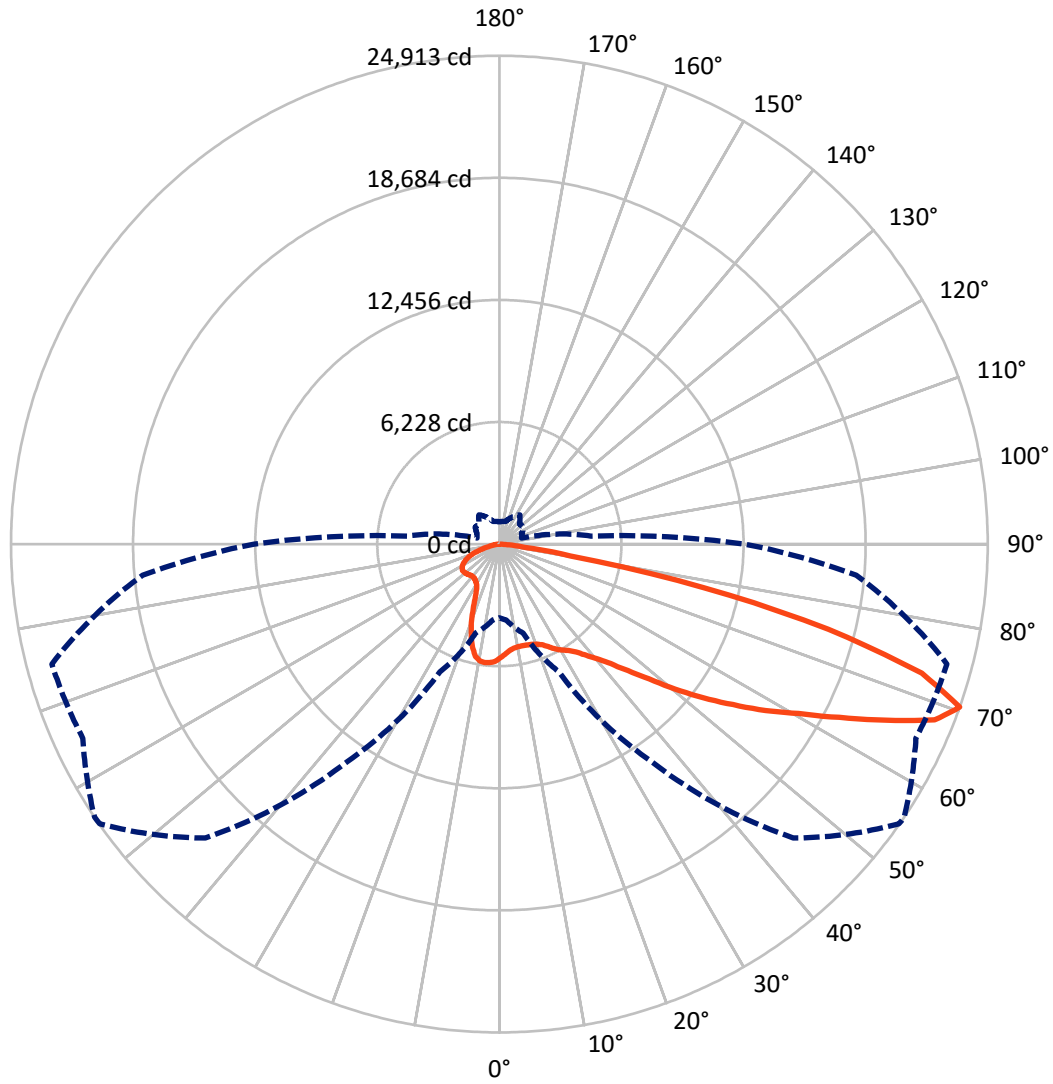
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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
<b>House Side</b>	Lumens	6905.1	0.0	6905.1
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	29011.9	0.0	29011.9
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	35917.0	0.0	35917.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.5	1.5
10°-20°	1453.7	4.0
20°-30°	2403.3	6.7
30°-40°	3593.3	10.0
40°-50°	5347.3	14.9
50°-60°	7602.2	21.2
60°-70°	9415.6	26.2
70°-80°	5199.0	14.5
80°-90°	366.2	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°	35917.0	100.0
0°-180°	35917.0	100.0

**Coefficient of Utilization**



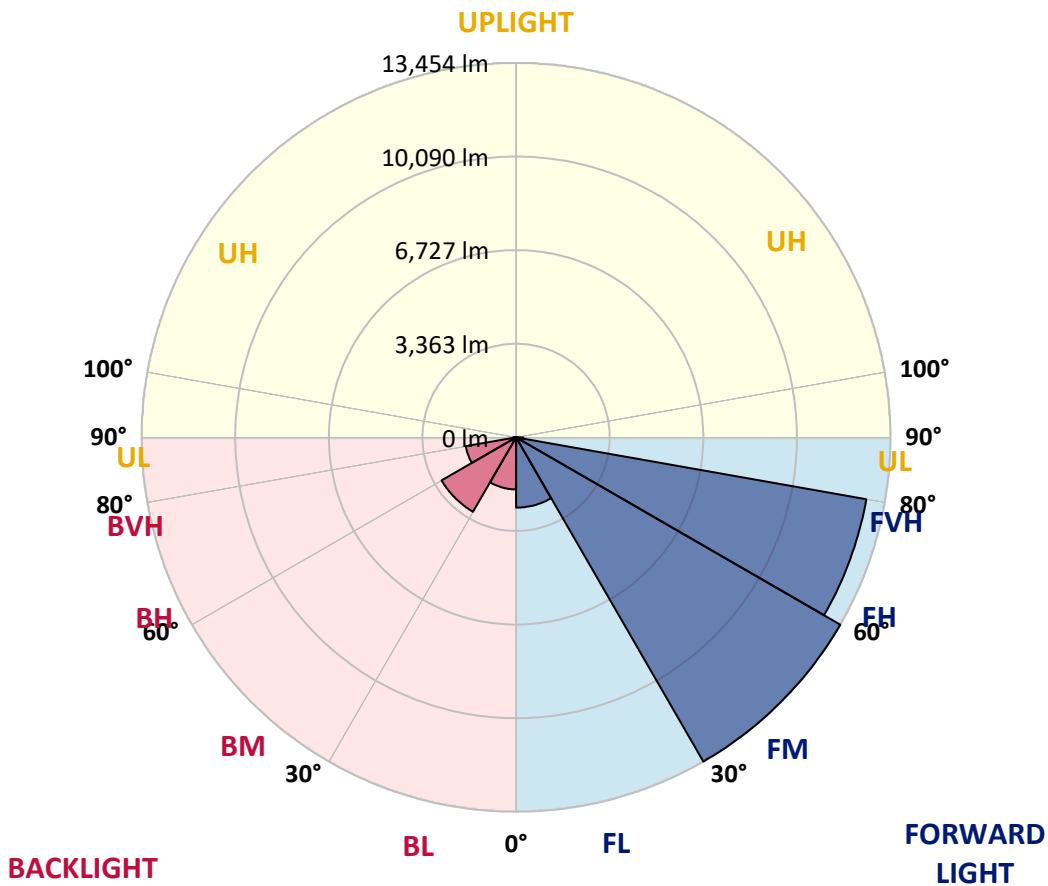
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2524.2	7.0			
FM (30°-60°)	13454.0	37.5			
FH (60°-80°)	12779.3	35.6			G5
FVH (80°-90°)	254.4	0.7			G3/500
BL (0°-30°)	1869.3	5.2	B3/2500		
BM (30°-60°)	3088.8	8.6	B3/5000		
BH (60°-80°)	1835.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	111.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6
2.5°	5425.2	5394.8	5430.3	5448.0	5493.6	5559.5	5617.7	5620.3	5650.7	5724.1	5795.0
5°	5179.6	5164.4	5174.5	5227.7	5275.8	5359.4	5448.0	5455.6	5541.7	5686.1	5827.9
7.5°	4989.6	4969.3	5007.3	5075.7	5136.5	5230.2	5346.7	5356.9	5478.4	5696.2	5914.1
10°	4716.1	4700.9	4771.8	4863.0	4994.7	5149.2	5303.7	5316.3	5475.9	5762.1	6066.0
12.5°	4597.0	4597.0	4627.4	4713.5	4857.9	5063.0	5296.1	5316.3	5516.4	5863.4	6261.1
15°	4781.9	4794.6	4769.2	4764.2	4822.4	5017.5	5306.2	5336.6	5592.4	5967.3	6453.5
17.5°	5154.2	5166.9	5101.0	4997.2	4938.9	5060.5	5344.2	5377.1	5673.4	6081.2	6661.2
20°	5676.0	5691.2	5546.8	5387.2	5187.2	5184.6	5417.6	5448.0	5777.3	6205.3	6881.6
22.5°	6286.4	6296.5	6114.2	5860.9	5554.4	5415.1	5544.3	5574.7	5911.5	6377.6	7119.7
25°	6993.0	7023.4	6803.1	6435.8	6020.4	5731.7	5754.5	5790.0	6152.1	6608.0	7400.8
27.5°	7747.8	7785.8	7532.5	7127.3	6554.9	6081.2	6025.5	6055.9	6408.0	6749.9	7550.2
30°	8520.3	8548.2	8294.9	7831.4	7129.8	6476.3	6253.5	6271.2	6519.4	6818.3	7702.2
32.5°	9378.9	9356.1	9113.0	8578.6	7793.4	6950.0	6466.2	6461.1	6643.5	6955.0	7920.0
35°	10184.3	10217.3	9958.9	9368.8	8522.8	7535.1	6785.3	6765.1	6906.9	7177.9	8226.5
37.5°	11159.5	11149.3	10840.3	10202.1	9254.8	8094.8	7233.6	7198.2	7248.8	7524.9	8654.5
40°	11856.0	11926.9	11726.8	11131.6	10110.9	8783.7	7757.9	7679.4	7692.1	7953.0	9227.0
42.5°	12425.9	12491.7	12512.0	12132.1	11091.1	9634.7	8411.4	8332.9	8340.5	8710.3	9931.1
45°	12864.0	12952.7	13238.9	13127.5	12195.4	10617.5	9295.3	9214.3	9219.4	9629.7	10782.1
47.5°	13043.9	13140.1	13720.1	13986.1	13368.1	11792.7	10394.6	10275.5	10293.3	10746.6	11754.7
50°	12985.6	13114.8	13900.0	14647.1	14350.8	12988.1	11709.1	11625.5	11557.1	12215.6	12810.9
52.5°	12484.1	12626.0	13882.2	15067.6	15153.7	14117.8	13066.7	13018.5	13003.3	13775.8	13991.1
55°	11007.5	11245.6	13271.8	15179.0	15781.8	15181.5	14538.2	14457.2	14535.7	15447.5	15184.1
57.5°	10189.4	10366.7	12076.3	15054.9	16296.0	16194.7	16007.2	16014.8	16103.5	17263.5	16630.3
60°	9723.4	9931.1	11412.8	14715.5	16789.9	17425.6	17544.6	17544.6	17704.2	19221.3	18099.3
62.5°	9105.4	9315.6	10792.2	14062.0	17245.8	18874.4	19477.2	19469.6	19532.9	21321.0	19535.4
65°	7851.6	8046.7	9546.1	13031.2	17468.7	20470.0	21673.1	21650.3	21523.6	23190.2	20485.2
67.5°	5701.3	5886.2	7312.2	11070.8	16665.8	21756.7	23934.9	23945.0	23187.7	24368.0	20535.9
70°	3758.7	3885.3	4700.9	7190.6	13553.0	21202.0	24882.1	24912.5	23443.5	23633.5	18276.6
72.5°	2345.4	2434.0	2935.5	4288.0	8008.7	16782.3	22450.7	22534.2	21090.5	20768.9	15016.9
75°	1557.7	1618.5	1952.8	2499.9	3705.5	9082.6	17065.9	17334.4	16903.8	16280.8	10463.0
77.5°	937.1	987.8	1243.6	1588.1	1641.2	3548.4	9961.5	10655.4	10716.2	8500.0	4381.7
80°	428.0	486.3	686.4	906.7	873.8	1236.0	3513.0	3675.1	4336.1	2700.0	1382.9
82.5°	253.3	278.6	455.9	450.8	372.3	600.3	1263.9	1296.8	1101.8	987.8	590.1
85°	101.3	119.0	192.5	169.7	136.8	195.0	476.2	499.0	478.7	430.6	217.8
87.5°	0.0	0.0	0.0	0.0	2.5	5.1	43.1	45.6	65.9	119.0	65.9
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°	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6	5797.6
2.5°	5840.6	5825.4	5901.4	5959.7	5985.0	6010.3	5987.5	5979.9	5979.9	5929.3	5903.9
5°	5903.9	5911.5	6015.4	6063.5	6063.5	6043.2	5982.4	5939.4	5924.2	5858.3	5840.6
7.5°	6023.0	6055.9	6152.1	6149.6	6078.7	5967.3	5815.3	5698.8	5592.4	5546.8	5518.9
10°	6218.0	6261.1	6326.9	6220.5	6023.0	5729.2	5407.5	5154.2	5002.3	4880.7	4880.7
12.5°	6440.9	6481.4	6468.7	6223.1	5815.3	5265.7	4802.2	4510.9	4298.1	4186.7	4186.7
15°	6663.8	6696.7	6559.9	6106.6	5382.2	4650.2	4143.6	3794.1	3609.2	3505.4	3505.4
17.5°	6889.2	6886.7	6597.9	5838.1	4817.4	3968.9	3472.5	3201.4	3138.1	3120.4	3117.9
20°	7107.0	7048.8	6549.8	5389.8	4161.4	3282.5	2968.4	2986.2	3079.9	3120.4	3125.5
22.5°	7352.7	7208.3	6408.0	4817.4	3416.7	2806.3	2826.6	2973.5	3110.3	3171.1	3178.7
25°	7603.4	7345.1	6169.9	4146.2	2793.7	2631.6	2788.6	2953.2	3107.7	3186.2	3193.8
27.5°	7704.7	7345.1	5764.6	3368.6	2461.9	2558.1	2730.3	2889.9	3052.0	3143.2	3160.9
30°	7788.3	7281.8	5197.3	2667.0	2325.1	2487.2	2636.6	2783.5	2943.1	3054.5	3074.8
32.5°	7904.8	7226.0	4510.9	2241.5	2261.8	2418.8	2522.7	2646.8	2791.1	2864.6	2857.0
35°	8041.6	7139.9	3682.7	2038.9	2208.6	2360.6	2434.0	2507.5	2441.6	2439.1	2446.7
37.5°	8236.6	7064.0	2960.8	1947.7	2173.1	2320.0	2380.8	2223.8	2132.6	2094.6	2079.4
40°	8517.8	7033.6	2335.2	1894.5	2168.1	2317.5	2274.4	2031.3	1907.2	1775.5	1773.0
42.5°	8872.4	7010.8	1930.0	1869.2	2185.8	2375.8	2127.5	1904.7	1648.8	1590.6	1585.5
45°	9328.3	6975.3	1727.4	1864.1	2228.9	2421.3	2112.3	1729.9	1555.1	1529.8	1529.8
47.5°	9877.9	6919.6	1636.2	1864.1	2277.0	2401.1	2066.8	1691.9	1512.1	1539.9	1557.7
50°	10508.5	6848.7	1588.1	1859.1	2325.1	2401.1	1970.5	1684.3	1501.9	1646.3	1704.6
52.5°	11182.3	6767.6	1555.1	1838.8	2358.0	2403.6	1975.6	1709.6	1512.1	1671.6	1719.8
55°	11926.9	6755.0	1509.5	1795.7	2368.2	2337.8	1988.2	1765.4	1527.3	1514.6	1517.1
57.5°	12866.6	6906.9	1476.6	1732.4	2327.6	2203.5	2013.6	1805.9	1509.5	1512.1	1529.8
60°	13849.3	7193.1	1504.5	1671.6	2244.1	2076.9	2031.3	1785.6	1423.4	1382.9	1388.0
62.5°	14685.1	7410.9	1527.3	1643.8	2122.5	1965.4	2013.6	1740.0	1375.3	1365.2	1388.0
65°	15034.6	7231.1	1471.6	1585.5	1945.2	1828.7	1975.6	1681.8	1334.8	1296.8	1299.3
67.5°	14647.1	6387.7	1362.6	1456.4	1745.1	1653.9	1914.8	1605.8	1279.1	1233.5	1223.3
70°	12512.0	4693.3	1175.2	1251.2	1501.9	1448.8	1821.1	1507.0	1190.4	1157.5	1134.7
72.5°	10083.0	3323.0	975.1	995.4	1177.7	1220.8	1659.0	1382.9	1089.1	995.4	962.5
75°	7018.4	2087.0	813.0	792.8	851.0	932.1	1294.3	1147.4	939.7	840.9	810.5
77.5°	3019.1	1071.4	635.7	625.6	567.3	645.9	992.9	957.4	787.7	673.7	656.0
80°	1010.6	620.5	458.4	440.7	377.4	453.4	699.1	764.9	618.0	499.0	468.6
82.5°	506.6	359.7	291.3	263.4	253.3	286.2	412.8	476.2	428.0	344.5	291.3
85°	248.2	205.2	159.6	157.0	131.7	124.1	172.2	202.6	192.5	141.8	134.2
87.5°	91.2	81.0	50.7	40.5	25.3	17.7	10.1	10.1	7.6	7.6	7.6
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)