

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: P643508

Luminaire Tested: GWS-SA6F-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643508  
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-SA6F-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

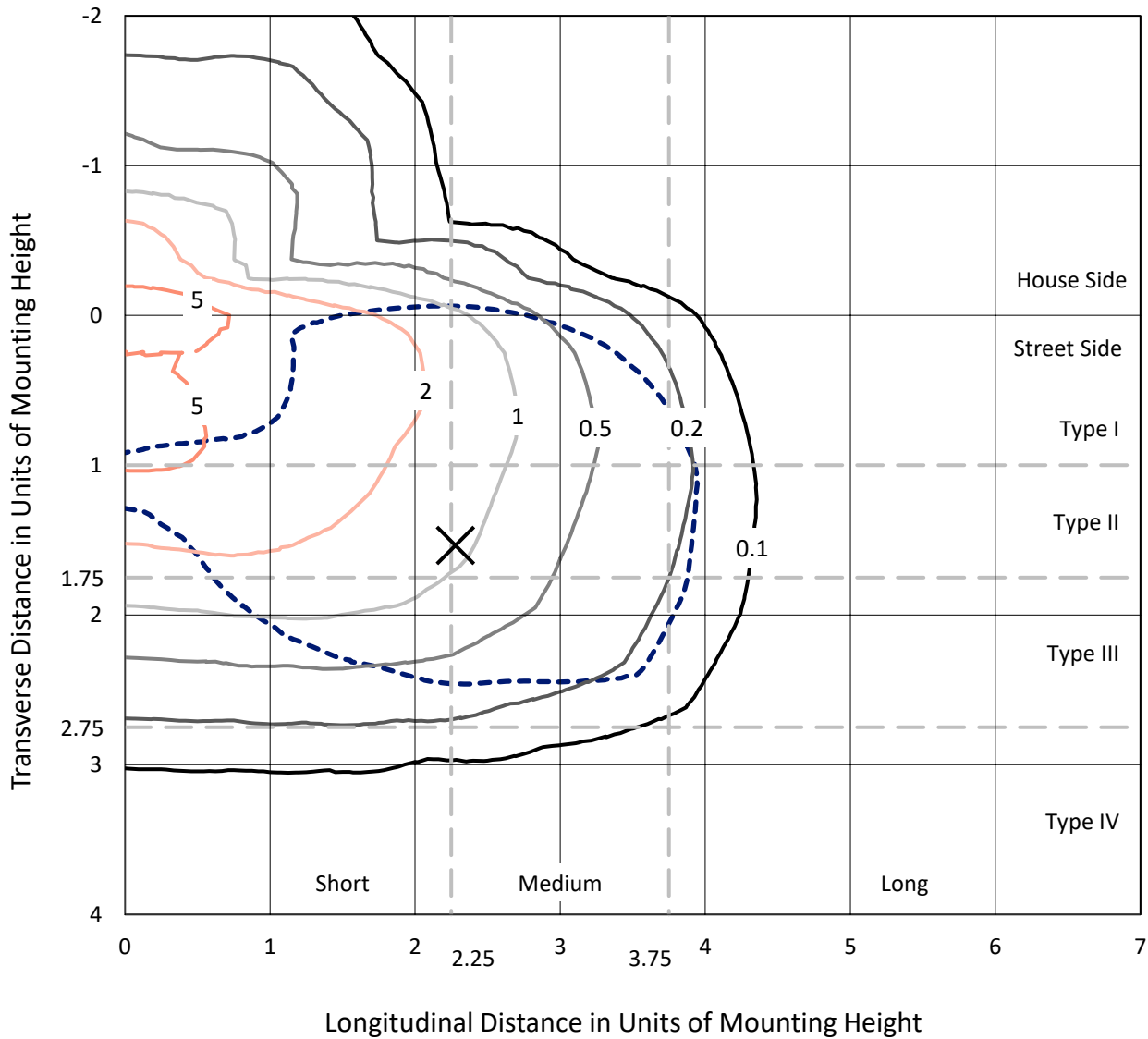
Lumens per Lamp: N/A  
Luminaire Lumens: 37268.8 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): 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

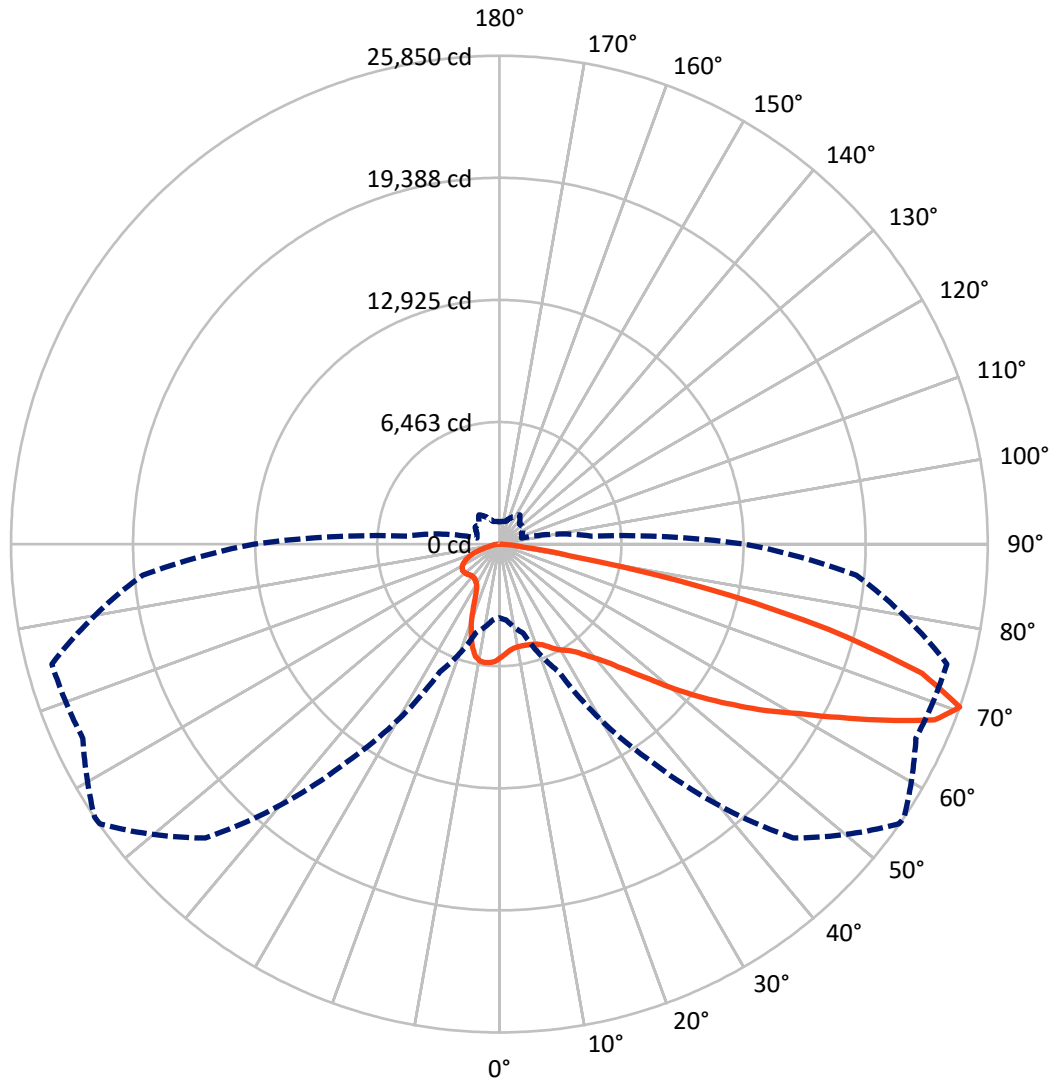
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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	7165.0	0.0	7165.0
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	30103.8	0.0	30103.8
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	37268.8	0.0	37268.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.7	1.5
10°-20°	1508.4	4.0
20°-30°	2493.8	6.7
30°-40°	3728.5	10.0
40°-50°	5548.5	14.9
50°-60°	7888.4	21.2
60°-70°	9770.0	26.2
70°-80°	5394.7	14.5
80°-90°	379.9	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°	37268.8	100.0
0°-180°	37268.8	100.0

**Coefficient of Utilization**



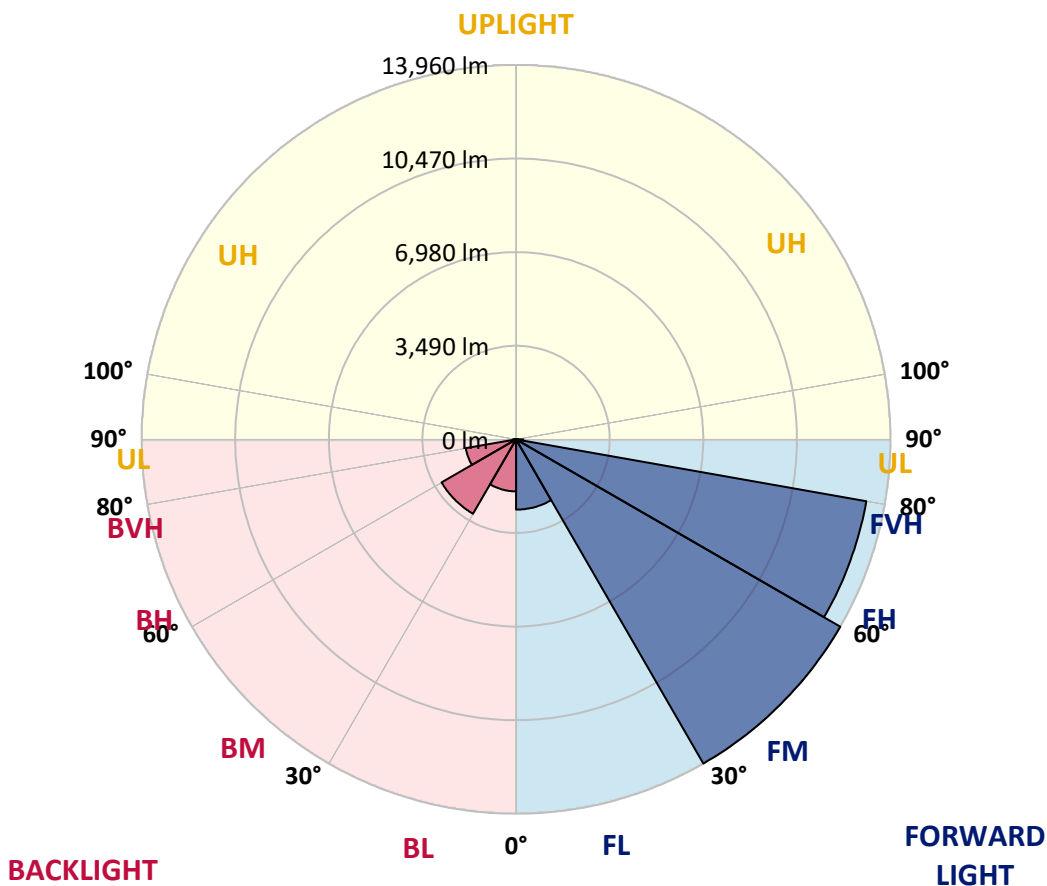
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.2	7.0			
FM (30°-60°)	13960.3	37.5			
FH (60°-80°)	13260.3	35.6			G5
FVH (80°-90°)	264.0	0.7			G3/500
BL (0°-30°)	1939.6	5.2	B3/2500		
BM (30°-60°)	3205.1	8.6	B3/5000		
BH (60°-80°)	1904.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	115.9	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°	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8
2.5°	5629.4	5597.9	5634.7	5653.1	5700.4	5768.7	5829.2	5831.8	5863.3	5939.5	6013.1
5°	5374.5	5358.7	5369.2	5424.4	5474.4	5561.1	5653.1	5661.0	5750.3	5900.1	6047.3
7.5°	5177.4	5156.4	5195.8	5266.7	5329.8	5427.1	5548.0	5558.5	5684.6	5910.6	6136.7
10°	4893.6	4877.8	4951.4	5046.0	5182.6	5343.0	5503.3	5516.4	5682.0	5979.0	6294.3
12.5°	4770.0	4770.0	4801.6	4890.9	5040.7	5253.6	5495.4	5516.4	5724.0	6084.1	6496.7
15°	4961.9	4975.0	4948.7	4943.5	5003.9	5206.3	5505.9	5537.4	5802.9	6191.8	6696.4
17.5°	5348.2	5361.4	5293.0	5185.3	5124.8	5251.0	5545.3	5579.5	5887.0	6310.1	6911.9
20°	5889.6	5905.4	5755.6	5590.0	5382.4	5379.8	5621.5	5653.1	5994.7	6438.9	7140.6
22.5°	6523.0	6533.5	6344.3	6081.5	5763.5	5618.9	5752.9	5784.5	6134.0	6617.6	7387.6
25°	7256.2	7287.8	7059.1	6678.0	6247.0	5947.4	5971.1	6007.9	6383.7	6856.8	7679.4
27.5°	8039.4	8078.8	7816.0	7395.5	6801.6	6310.1	6252.3	6283.8	6649.1	7003.9	7834.4
30°	8841.0	8869.9	8607.1	8126.1	7398.1	6720.1	6488.8	6507.2	6764.8	7074.9	7992.1
32.5°	9731.9	9708.3	9456.0	8901.4	8086.7	7211.6	6709.6	6704.3	6893.5	7216.8	8218.1
35°	10567.7	10601.8	10333.8	9721.4	8843.6	7818.6	7040.7	7019.7	7166.9	7448.1	8536.1
37.5°	11579.5	11569.0	11248.3	10586.1	9603.1	8399.5	7505.9	7469.1	7521.7	7808.1	8980.3
40°	12302.2	12375.8	12168.2	11550.6	10491.4	9114.3	8049.9	7968.4	7981.6	8252.3	9574.2
42.5°	12893.5	12961.9	12982.9	12588.7	11508.5	9997.4	8728.0	8646.5	8654.4	9038.1	10304.8
45°	13348.2	13440.2	13737.2	13621.5	12654.4	11017.1	9645.2	9561.1	9566.3	9992.1	11187.9
47.5°	13534.8	13634.7	14236.5	14512.5	13871.2	12236.5	10785.8	10662.3	10680.7	11151.1	12197.1
50°	13474.4	13608.4	14423.1	15198.4	14890.9	13477.0	12149.8	12063.1	11992.1	12675.4	13293.0
52.5°	12954.0	13101.2	14404.7	15634.7	15724.0	14649.1	13558.5	13508.5	13492.7	14294.3	14517.7
55°	11421.8	11668.8	13771.3	15750.3	16375.8	15752.9	15085.4	15001.3	15082.8	16028.9	15755.6
57.5°	10572.9	10756.9	12530.9	15621.5	16909.3	16804.2	16609.7	16617.6	16709.6	17913.2	17256.2
60°	10089.3	10304.8	11842.3	15269.4	17421.8	18081.4	18205.0	18205.0	18370.5	19944.8	18780.5
62.5°	9448.1	9666.2	11198.4	14591.3	17894.8	19584.7	20210.2	20202.3	20268.0	22123.5	20270.7
65°	8147.2	8349.5	9905.4	13521.7	18126.1	21240.4	22488.8	22465.1	22333.7	24063.0	21256.2
67.5°	5915.9	6107.7	7587.4	11487.5	17293.0	22575.5	24835.7	24846.2	24060.4	25285.1	21308.8
70°	3900.1	4031.5	4877.8	7461.2	14063.0	22000.0	25818.6	25850.1	24325.8	24523.0	18964.5
72.5°	2433.6	2525.6	3046.0	4449.4	8310.1	17413.9	23295.6	23382.3	21884.3	21550.6	15582.1
75°	1616.3	1679.4	2026.3	2594.0	3844.9	9424.4	17708.2	17986.8	17540.0	16893.5	10856.7
77.5°	972.4	1025.0	1290.4	1647.8	1703.0	3682.0	10336.4	11056.5	11119.6	8820.0	4546.6
80°	444.2	504.6	712.2	940.9	906.7	1282.5	3645.2	3813.4	4499.3	2801.6	1435.0
82.5°	262.8	289.1	473.1	467.8	386.3	622.9	1311.4	1345.6	1143.2	1025.0	612.4
85°	105.1	123.5	199.7	176.1	141.9	202.4	494.1	517.7	496.7	446.8	226.0
87.5°	0.0	0.0	0.0	0.0	2.6	5.3	44.7	47.3	68.3	123.5	68.3
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°	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8	6015.8
2.5°	6060.4	6044.7	6123.5	6184.0	6210.2	6236.5	6212.9	6205.0	6205.0	6152.4	6126.1
5°	6126.1	6134.0	6241.8	6291.7	6291.7	6270.7	6207.6	6162.9	6147.2	6078.8	6060.4
7.5°	6249.7	6283.8	6383.7	6381.1	6307.5	6191.8	6034.2	5913.3	5802.9	5755.6	5726.7
10°	6452.0	6496.7	6565.0	6454.7	6249.7	5944.8	5611.0	5348.2	5190.5	5064.4	5064.4
12.5°	6683.3	6725.3	6712.2	6457.3	6034.2	5463.9	4982.9	4680.7	4459.9	4344.3	4344.3
15°	6914.6	6948.7	6806.8	6336.4	5584.7	4825.2	4299.6	3936.9	3745.1	3637.3	3637.3
17.5°	7148.5	7145.8	6846.2	6057.8	4998.7	4118.3	3603.1	3321.9	3256.2	3237.8	3235.2
20°	7374.5	7314.0	6796.3	5592.6	4318.0	3406.0	3080.2	3098.5	3195.8	3237.8	3243.1
22.5°	7629.4	7479.6	6649.1	4998.7	3545.3	2912.0	2933.0	3085.4	3227.3	3290.4	3298.3
25°	7889.6	7621.5	6402.1	4302.2	2898.8	2730.6	2893.6	3064.4	3224.7	3306.2	3314.1
27.5°	7994.7	7621.5	5981.6	3495.4	2554.5	2654.4	2833.1	2998.7	3166.9	3261.5	3279.9
30°	8081.5	7555.8	5392.9	2767.4	2412.6	2580.8	2735.9	2888.3	3053.9	3169.5	3190.5
32.5°	8202.4	7498.0	4680.7	2325.9	2346.9	2509.9	2617.6	2746.4	2896.2	2972.4	2964.5
35°	8344.3	7408.7	3821.3	2115.6	2291.7	2449.4	2525.6	2601.8	2533.5	2530.9	2538.8
37.5°	8546.6	7329.8	3072.3	2021.0	2254.9	2407.4	2470.4	2307.5	2212.9	2173.5	2157.7
40°	8838.4	7298.3	2423.1	1965.8	2249.7	2404.7	2360.0	2107.7	1979.0	1842.3	1839.7
42.5°	9206.3	7274.6	2002.6	1939.5	2268.1	2465.2	2207.6	1976.3	1710.9	1650.5	1645.2
45°	9679.4	7237.8	1792.4	1934.3	2312.7	2512.5	2191.8	1795.0	1613.7	1587.4	1587.4
47.5°	10249.7	7180.0	1697.8	1934.3	2362.7	2491.5	2144.5	1755.6	1569.0	1597.9	1616.3
50°	10904.1	7106.4	1647.8	1929.0	2412.6	2491.5	2044.7	1747.7	1558.5	1708.3	1768.7
52.5°	11603.1	7022.3	1613.7	1908.0	2446.8	2494.1	2049.9	1774.0	1569.0	1734.6	1784.5
55°	12375.8	7009.2	1566.4	1863.3	2457.3	2425.8	2063.1	1831.8	1584.8	1571.6	1574.2
57.5°	13350.8	7166.9	1532.2	1797.6	2415.2	2286.5	2089.4	1873.8	1566.4	1569.0	1587.4
60°	14370.5	7463.8	1561.1	1734.6	2328.5	2155.1	2107.7	1852.8	1477.0	1435.0	1440.2
62.5°	15237.8	7689.9	1584.8	1705.6	2202.4	2039.4	2089.4	1805.5	1427.1	1416.6	1440.2
65°	15600.5	7503.3	1526.9	1645.2	2018.4	1897.5	2049.9	1745.1	1385.0	1345.6	1348.2
67.5°	15198.4	6628.1	1413.9	1511.2	1810.8	1716.2	1986.9	1666.2	1327.2	1279.9	1269.4
70°	12982.9	4869.9	1219.4	1298.3	1558.5	1503.3	1889.6	1563.7	1235.2	1201.0	1177.4
72.5°	10462.5	3448.1	1011.8	1032.8	1222.1	1266.8	1721.4	1435.0	1130.1	1032.8	998.7
75°	7282.5	2165.6	843.6	822.6	883.0	967.1	1343.0	1190.5	975.0	872.5	841.0
77.5°	3132.7	1111.7	659.7	649.1	588.7	670.2	1030.2	993.4	817.3	699.1	680.7
80°	1048.6	643.9	475.7	457.3	391.6	470.4	725.4	793.7	641.3	517.7	486.2
82.5°	525.6	373.2	302.2	273.3	262.8	297.0	428.4	494.1	444.2	357.4	302.2
85°	257.6	212.9	165.6	162.9	136.7	128.8	178.7	210.2	199.7	147.2	139.3
87.5°	94.6	84.1	52.6	42.0	26.3	18.4	10.5	10.5	7.9	7.9	7.9
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)