

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: P640526

Luminaire Tested: GWS-SA5E-722-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-722-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

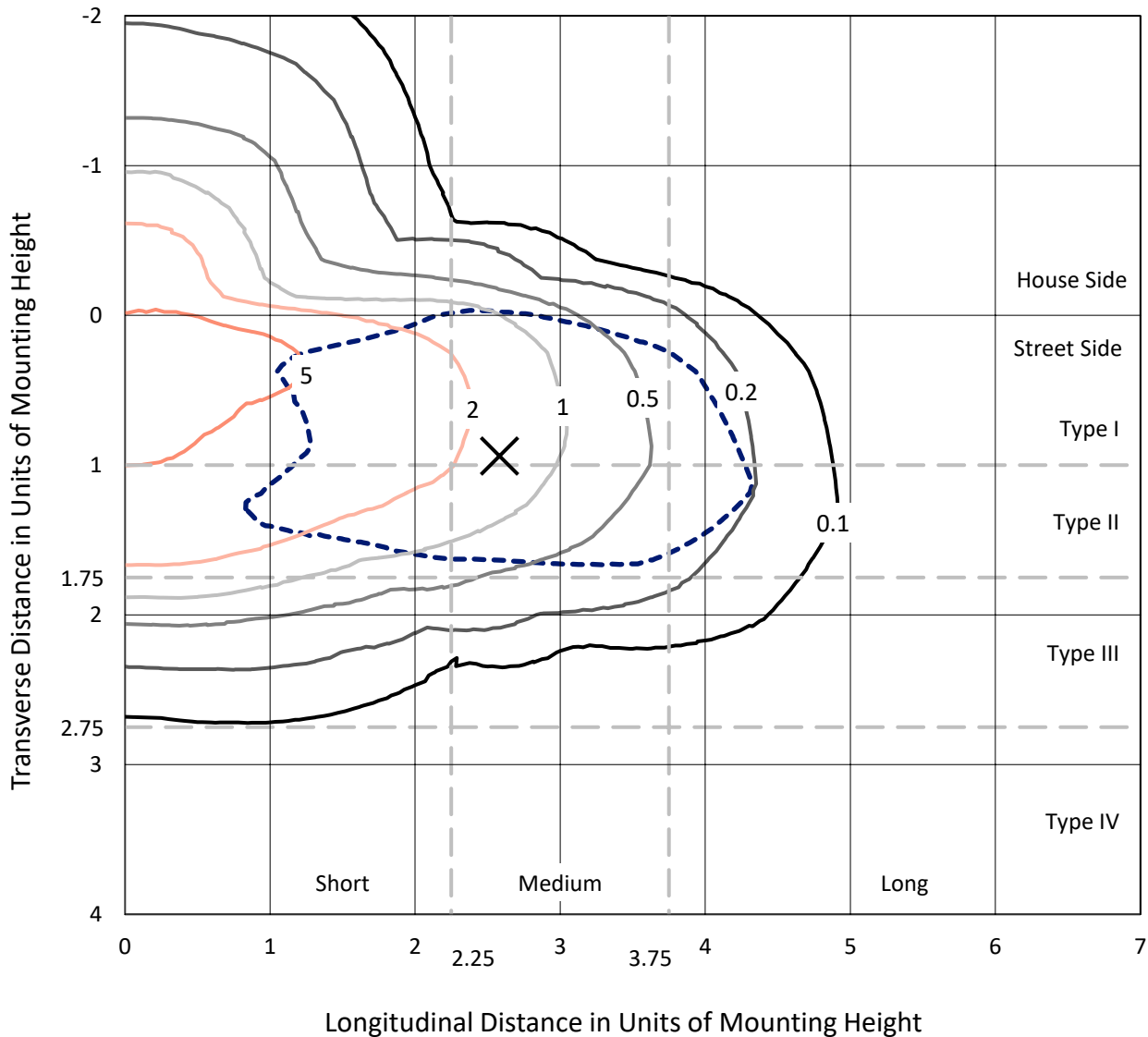
Lumens per Lamp: N/A  
Luminaire Lumens: 27435.2 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

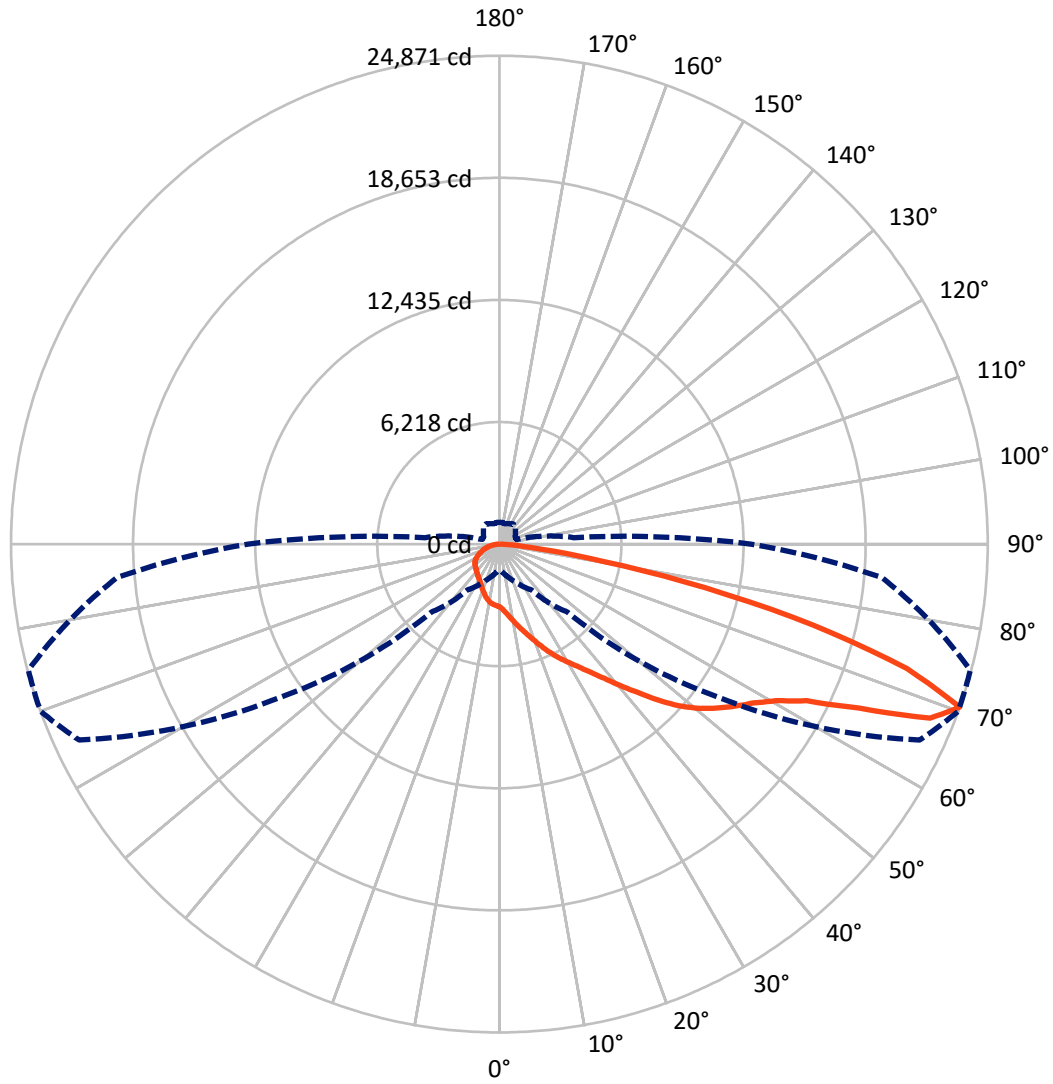
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4916.4	0.0	4916.4
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	22518.7	0.0	22518.7
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	27435.2	0.0	27435.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.2	1.2
10°-20°	1057.9	3.9
20°-30°	1874.0	6.8
30°-40°	2820.5	10.3
40°-50°	4267.0	15.6
50°-60°	6112.7	22.3
60°-70°	6756.9	24.6
70°-80°	3813.1	13.9
80°-90°	407.9	1.5
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°	27435.2	100.0
0°-180°	27435.2	100.0

**Coefficient of Utilization**



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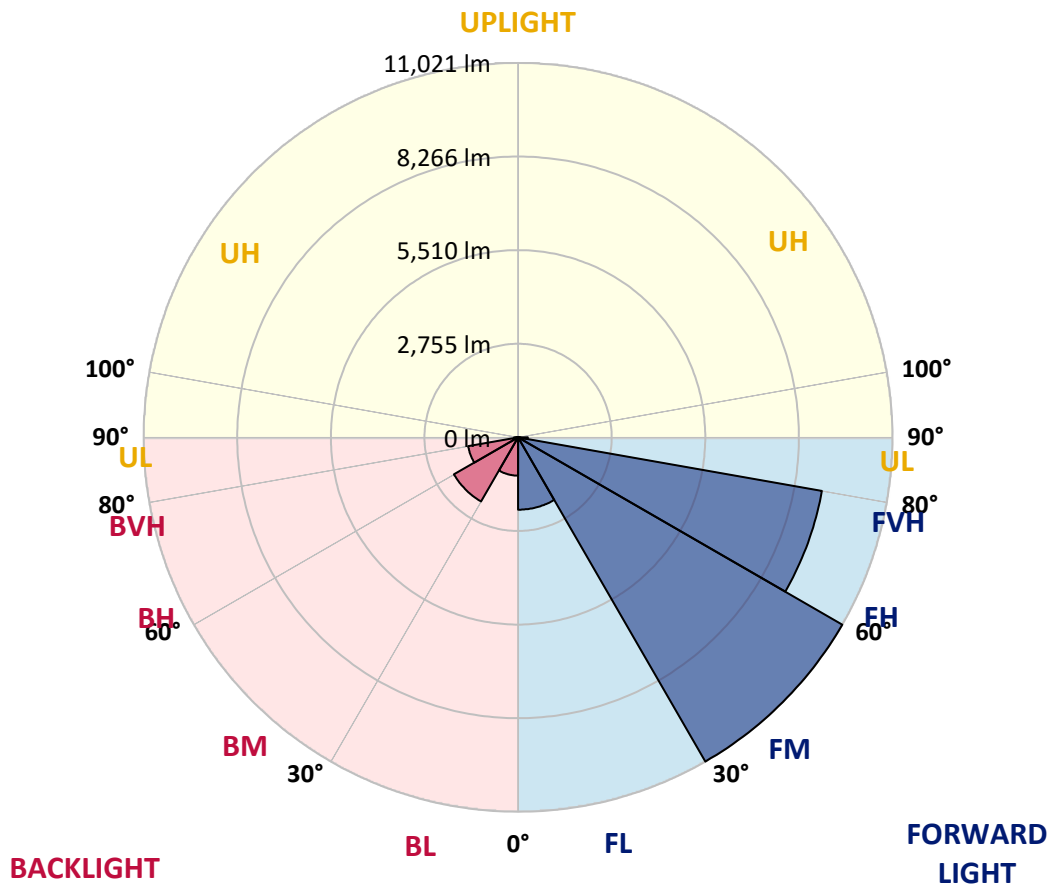
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.8	7.8			
FM (30°-60°)	11020.7	40.2			
FH (60°-80°)	9079.9	33.1			G4/12000
FVH (80°-90°)	288.3	1.1			G3/500
BL (0°-30°)	1127.3	4.1	B3/2500		
BM (30°-60°)	2179.5	7.9	B2/2500		
BH (60°-80°)	1490.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	119.5	0.4			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5
2.5°	3544.4	3538.5	3542.5	3538.5	3516.7	3463.2	3419.6	3364.0	3326.4	3304.6	3253.0
5°	3960.7	3954.8	3940.9	3921.1	3881.4	3808.1	3699.1	3578.1	3504.8	3449.3	3340.3
7.5°	4260.1	4260.1	4258.1	4234.3	4206.5	4129.2	4000.4	3841.8	3734.7	3639.6	3461.2
10°	4412.7	4422.6	4436.5	4470.2	4464.3	4422.6	4301.7	4131.2	3996.4	3885.4	3619.8
12.5°	4496.0	4501.9	4525.7	4595.1	4666.5	4676.4	4605.0	4426.6	4279.9	4131.2	3796.2
15°	4603.0	4605.0	4636.7	4720.0	4825.0	4930.1	4912.3	4733.9	4583.2	4418.7	3992.5
17.5°	4686.3	4700.2	4757.6	4854.8	4985.6	5130.3	5217.5	5106.5	4920.2	4731.9	4206.5
20°	4716.0	4725.9	4801.3	4949.9	5128.3	5332.5	5526.8	5497.1	5308.7	5086.7	4448.4
22.5°	4823.1	4823.1	4878.6	5003.5	5213.6	5510.9	5826.1	5903.4	5736.9	5477.2	4708.1
25°	5059.0	5051.0	5076.8	5128.3	5286.9	5653.7	6121.5	6353.4	6167.1	5875.7	4967.8
27.5°	5382.1	5378.1	5376.1	5384.1	5437.6	5778.5	6371.3	6773.7	6587.3	6258.3	5199.7
30°	5733.0	5721.1	5746.8	5723.0	5711.1	5927.2	6583.4	7150.3	7005.6	6636.9	5392.0
32.5°	6210.7	6188.9	6182.9	6105.6	6058.1	6159.2	6753.9	7578.5	7463.5	7045.3	5608.1
35°	6841.1	6821.3	6720.2	6597.3	6456.5	6504.1	6966.0	7996.8	8004.7	7556.7	5891.5
37.5°	7477.4	7481.4	7402.1	7112.7	6968.0	6940.2	7289.1	8506.3	8676.7	8167.3	6258.3
40°	8006.7	8030.5	8030.5	7725.2	7509.1	7483.4	7743.1	9110.9	9449.9	8916.6	6722.1
42.5°	8409.1	8430.9	8500.3	8280.3	8052.3	8141.5	8294.2	9717.5	10326.1	9842.4	7308.9
45°	8851.2	8869.0	8906.7	8779.8	8647.0	8884.9	8918.6	10443.0	11329.1	10881.1	7990.9
47.5°	9438.0	9422.1	9426.1	9332.9	9229.8	9614.4	9606.5	11053.6	12298.5	12019.0	8730.3
50°	10167.5	10197.2	10169.5	9985.1	9864.2	10215.0	10260.6	11729.6	13150.9	13145.0	9475.6
52.5°	10869.2	10881.1	11027.8	11035.7	10787.9	10714.6	10833.5	12411.5	13870.5	14175.8	10191.3
55°	10904.9	10950.5	11390.6	11707.8	12108.2	11519.4	11412.4	13061.7	14566.3	15184.8	10934.6
57.5°	10145.7	10219.0	10966.4	11650.3	12764.3	12901.1	12403.6	13902.2	15262.1	16178.0	11795.0
60°	8524.1	8676.7	9691.7	10738.4	12469.0	13894.3	14431.5	15044.1	16176.0	17192.9	12839.7
62.5°	5443.5	5503.0	6926.3	8678.7	11138.8	13797.2	16639.8	17056.1	17567.6	18515.1	14449.3
65°	2725.7	2916.0	3750.6	5179.9	8032.5	12157.8	17755.9	20741.3	20114.9	20779.0	17058.1
67.5°	1849.5	1911.0	2333.2	3112.3	4710.1	8613.3	17064.1	23845.7	23661.3	23770.4	19839.4
70°	1363.9	1403.5	1736.5	2204.4	2848.6	4890.5	13585.0	23611.8	24870.6	24830.9	19548.0
72.5°	995.1	1015.0	1266.7	1683.0	2111.2	2529.5	8296.1	19074.2	21710.7	22854.5	17095.8
75°	723.6	747.3	880.2	1258.8	1641.4	1578.0	4095.5	13777.3	16556.6	18757.0	13928.0
77.5°	539.2	568.9	630.4	789.0	1149.8	1129.9	1770.2	8946.3	10708.7	12250.9	8460.7
80°	388.5	394.5	430.2	505.5	729.5	662.1	842.5	4664.5	5348.4	5859.8	3316.5
82.5°	235.9	241.8	287.4	311.2	452.0	416.3	438.1	1510.6	2164.7	2297.5	1239.0
85°	69.4	73.3	130.8	142.7	188.3	178.4	176.4	614.5	733.5	937.7	487.7
87.5°	0.0	0.0	0.0	0.0	2.0	11.9	21.8	109.0	164.5	228.0	118.9
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°	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5	3199.5
2.5°	3233.2	3187.6	3163.8	3122.2	3092.5	3062.7	3033.0	3005.2	2993.3	2975.5	2979.5
5°	3290.7	3219.3	3148.0	3066.7	2997.3	2939.8	2888.3	2842.7	2822.9	2805.0	2813.0
7.5°	3377.9	3270.9	3134.1	2985.4	2876.4	2797.1	2743.6	2711.9	2701.9	2688.1	2688.1
10°	3488.9	3328.4	3088.5	2876.4	2745.6	2682.1	2658.3	2656.3	2666.3	2668.2	2664.3
12.5°	3611.8	3383.9	3021.1	2747.5	2636.5	2616.7	2634.5	2668.2	2701.9	2719.8	2715.8
15°	3738.7	3419.6	2906.1	2624.6	2557.2	2583.0	2640.5	2707.9	2773.3	2807.0	2805.0
17.5°	3857.7	3427.5	2757.4	2505.7	2487.8	2553.3	2652.4	2757.4	2846.7	2894.2	2896.2
20°	3990.5	3413.6	2604.8	2398.6	2418.5	2525.5	2656.3	2783.2	2888.3	2935.9	2947.8
22.5°	4111.4	3366.0	2456.1	2297.5	2359.0	2491.8	2624.6	2743.6	2836.7	2882.3	2898.2
25°	4220.4	3274.8	2293.6	2212.3	2313.4	2444.2	2545.3	2628.6	2694.0	2721.8	2743.6
27.5°	4279.9	3138.1	2170.7	2144.9	2269.8	2376.8	2432.3	2458.1	2479.9	2472.0	2487.8
30°	4291.8	2967.6	2063.6	2091.4	2204.4	2283.7	2295.6	2269.8	2232.1	2170.7	2184.5
32.5°	4279.9	2771.3	1974.4	2033.9	2131.0	2178.6	2162.7	2095.3	2004.2	1909.0	1914.9
35°	4283.9	2573.1	1901.1	1970.5	2045.8	2071.6	2031.9	1938.7	1841.6	1754.4	1750.4
37.5°	4327.5	2406.6	1839.6	1909.0	1962.5	1966.5	1922.9	1825.7	1776.2	1710.8	1702.8
40°	4448.4	2283.7	1784.1	1847.5	1881.2	1879.3	1829.7	1760.3	1794.0	1772.2	1766.3
42.5°	4646.6	2208.3	1738.5	1782.1	1805.9	1809.9	1770.2	1726.6	1800.0	1772.2	1762.3
45°	4965.8	2204.4	1706.8	1716.7	1754.4	1782.1	1754.4	1704.8	1732.6	1597.8	1572.0
47.5°	5344.4	2271.8	1683.0	1659.2	1724.6	1774.2	1730.6	1651.3	1593.8	1470.9	1453.1
50°	5800.4	2408.6	1661.2	1597.8	1681.0	1744.5	1700.9	1591.8	1504.6	1439.2	1429.3
52.5°	6341.5	2588.9	1633.5	1528.4	1615.6	1728.6	1700.9	1585.9	1470.9	1411.4	1401.5
55°	6908.5	2797.1	1601.7	1445.1	1542.3	1732.6	1714.7	1544.3	1445.1	1413.4	1405.5
57.5°	7612.2	3046.9	1544.3	1348.0	1476.9	1696.9	1659.2	1520.5	1427.3	1401.5	1393.6
60°	8526.1	3417.6	1435.2	1248.9	1401.5	1633.5	1609.7	1480.8	1379.7	1357.9	1352.0
62.5°	9973.2	4046.0	1302.4	1153.7	1312.3	1500.6	1536.3	1405.5	1320.2	1318.3	1316.3
65°	12332.2	4801.3	1145.8	1068.5	1219.1	1391.6	1439.2	1328.2	1258.8	1280.6	1278.6
67.5°	13985.5	4866.7	1016.9	979.3	1110.1	1272.7	1342.1	1248.9	1173.6	1215.2	1213.2
70°	12809.9	3796.2	905.9	886.1	993.2	1143.8	1237.0	1149.8	1074.4	1114.1	1106.2
72.5°	10803.8	2910.1	800.9	789.0	874.2	1009.0	1102.2	1050.6	971.4	971.4	953.5
75°	8682.7	2400.6	689.9	683.9	741.4	872.2	977.3	890.1	816.7	812.8	800.9
77.5°	4979.7	1574.0	578.8	574.9	592.7	729.5	759.2	741.4	685.9	660.1	652.2
80°	1984.3	818.7	455.9	430.2	448.0	535.2	598.7	568.9	521.4	489.6	471.8
82.5°	769.2	410.3	321.1	281.5	307.3	386.6	434.1	424.2	392.5	321.1	301.3
85°	313.2	200.2	192.3	162.6	178.4	208.1	249.8	216.1	178.4	126.9	120.9
87.5°	83.3	73.3	71.4	43.6	33.7	9.9	2.0	0.0	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)