

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: P638326

Luminaire Tested: GWS-SA4E-750-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638326  
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-SA4E-750-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

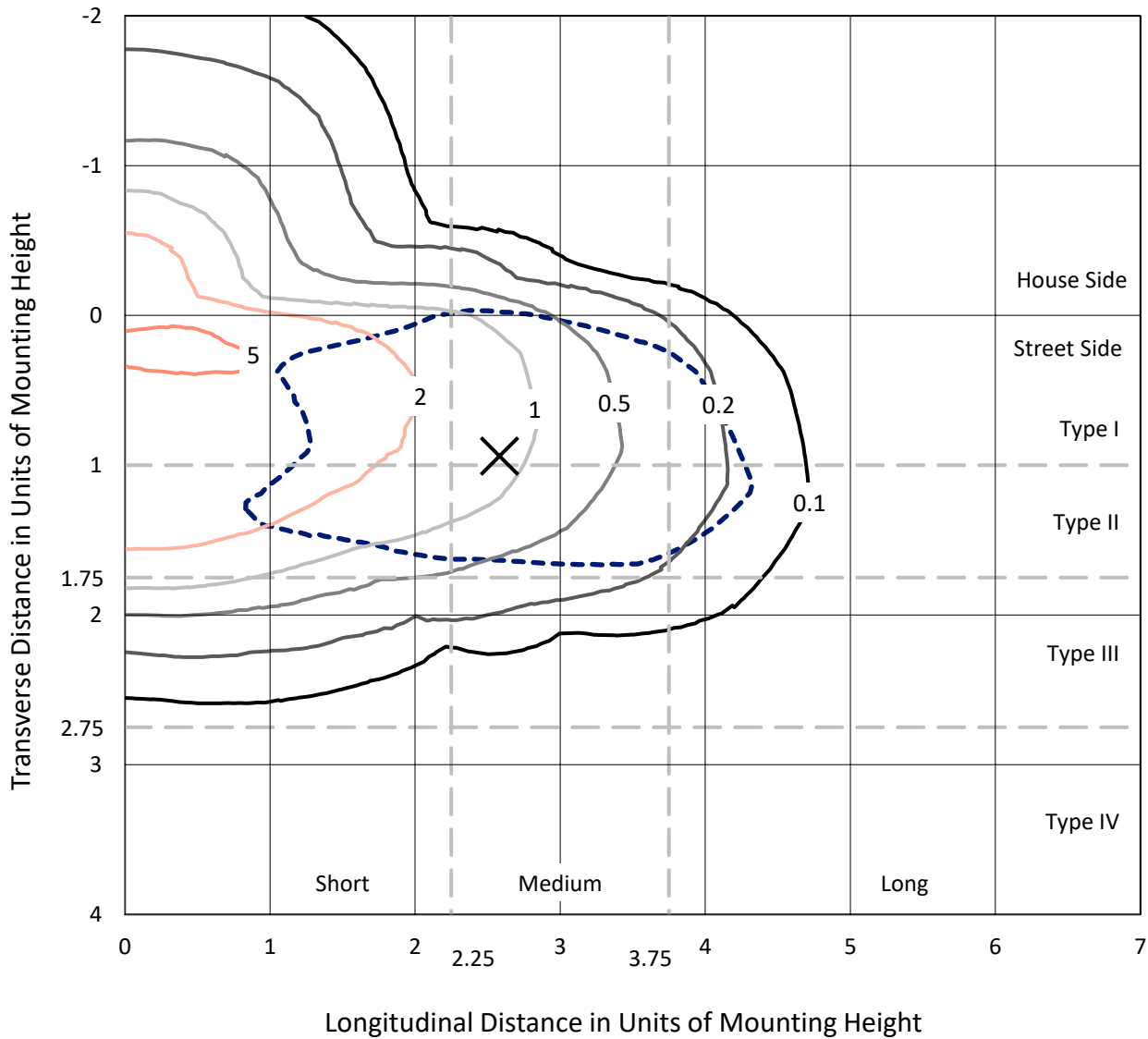
Lumens per Lamp: N/A  
Luminaire Lumens: 31058.2 lumens  
Efficiency: N/A  
Efficacy: 153.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

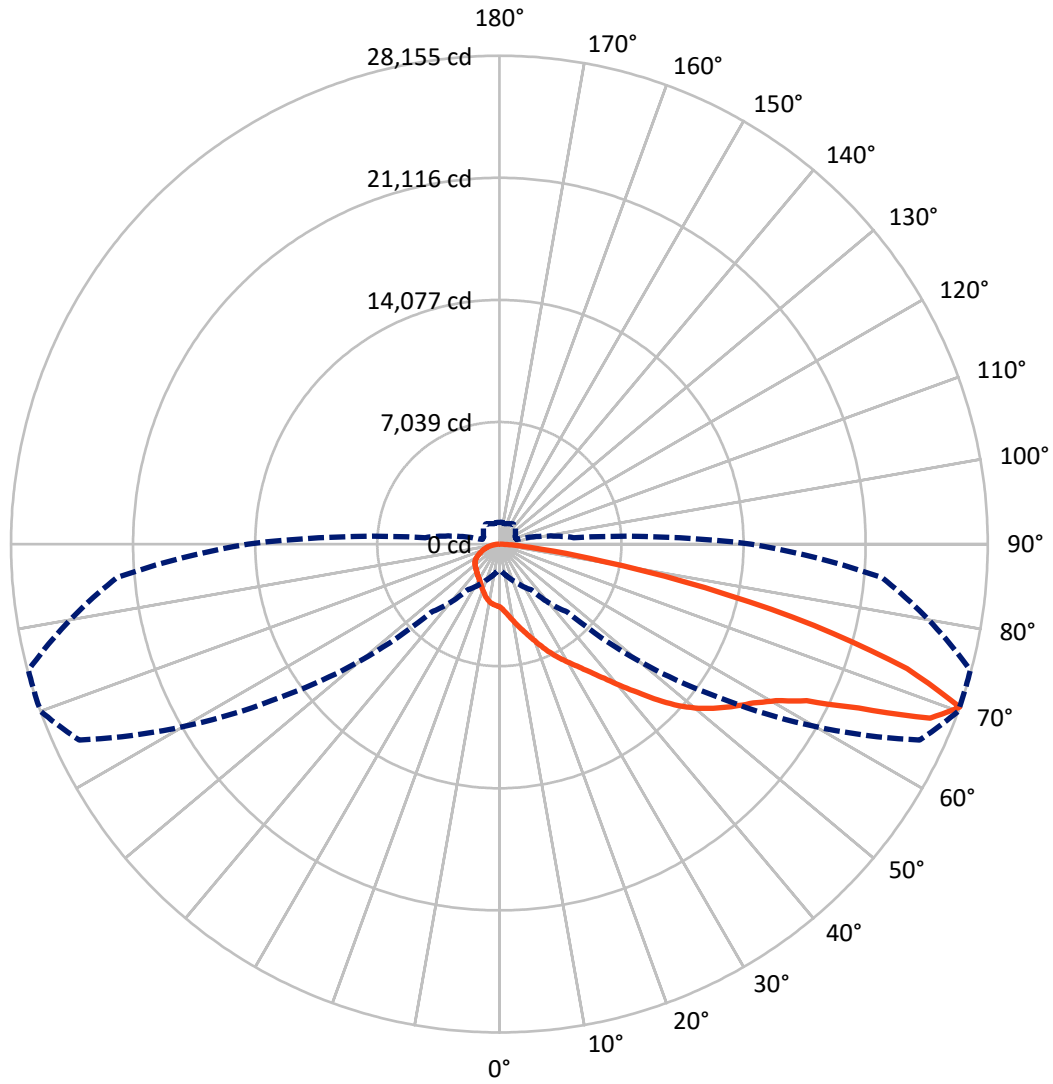
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	5565.7	0.0	5565.7
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	25492.5	0.0	25492.5
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	31058.2	0.0	31058.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.1	1.2
10°-20°	1197.6	3.9
20°-30°	2121.5	6.8
30°-40°	3192.9	10.3
40°-50°	4830.5	15.6
50°-60°	6920.0	22.3
60°-70°	7649.2	24.6
70°-80°	4316.7	13.9
80°-90°	461.7	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°	31058.2	100.0
0°-180°	31058.2	100.0

**Coefficient of Utilization**



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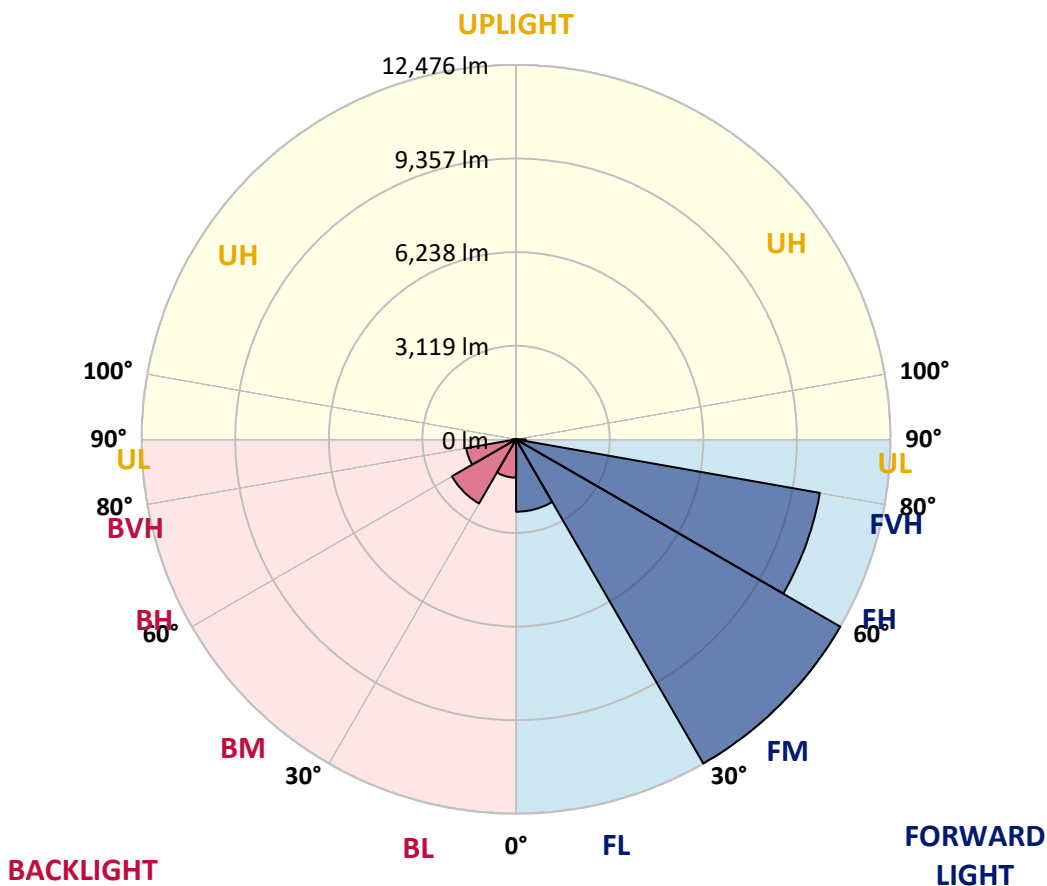
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2411.1	7.8			
FM (30°-60°)	12476.1	40.2			
FH (60°-80°)	10279.0	33.1			G4/12000
FVH (80°-90°)	326.4	1.1			G3/500
BL (0°-30°)	1276.1	4.1	B3/2500		
BM (30°-60°)	2467.3	7.9	B2/2500		
BH (60°-80°)	1686.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	135.3	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°	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0
2.5°	4012.5	4005.8	4010.3	4005.8	3981.1	3920.5	3871.1	3808.3	3765.7	3741.0	3682.6
5°	4483.8	4477.0	4461.3	4438.9	4394.0	4311.0	4187.6	4050.7	3967.6	3904.8	3781.4
7.5°	4822.6	4822.6	4820.4	4793.5	4762.0	4674.5	4528.7	4349.1	4227.9	4120.2	3918.3
10°	4995.4	5006.7	5022.4	5060.5	5053.8	5006.7	4869.8	4676.8	4524.2	4398.5	4097.8
12.5°	5089.7	5096.4	5123.4	5201.9	5282.7	5293.9	5213.1	5011.1	4845.1	4676.8	4297.5
15°	5210.9	5213.1	5249.0	5343.3	5462.2	5581.2	5561.0	5359.0	5188.4	5002.2	4519.7
17.5°	5305.1	5320.8	5385.9	5495.9	5644.0	5807.8	5906.6	5780.9	5569.9	5356.7	4762.0
20°	5338.8	5350.0	5435.3	5603.6	5805.6	6036.7	6256.6	6223.0	6009.8	5758.4	5035.8
22.5°	5460.0	5460.0	5522.8	5664.2	5902.1	6238.7	6595.5	6683.0	6494.5	6200.5	5329.8
25°	5727.0	5718.0	5747.2	5805.6	5985.1	6400.3	6929.9	7192.4	6981.5	6651.6	5623.8
27.5°	6092.8	6088.3	6086.1	6095.1	6155.7	6541.6	7212.6	7668.2	7457.3	7084.7	5886.4
30°	6490.0	6476.6	6505.7	6478.8	6465.3	6710.0	7452.8	8094.6	7930.8	7513.4	6104.0
32.5°	7030.9	7006.2	6999.4	6911.9	6858.1	6972.5	7645.8	8579.3	8449.2	7975.6	6348.6
35°	7744.5	7722.1	7607.6	7468.5	7309.1	7363.0	7885.9	9052.8	9061.8	8554.6	6669.6
37.5°	8464.9	8469.4	8379.6	8051.9	7888.1	7856.7	8251.7	9629.6	9822.6	9245.8	7084.7
40°	9064.0	9091.0	9091.0	8745.4	8500.8	8471.6	8765.6	10314.0	10697.8	10094.1	7609.9
42.5°	9519.6	9544.3	9622.8	9373.7	9115.7	9216.7	9389.4	11000.7	11689.7	11142.1	8274.1
45°	10020.1	10040.2	10082.9	9939.3	9788.9	10058.2	10096.4	11822.1	12825.2	12318.0	9046.1
47.5°	10684.3	10666.4	10670.8	10565.4	10448.7	10884.0	10875.1	12513.3	13922.6	13606.2	9883.2
50°	11510.2	11543.8	11512.4	11303.7	11166.8	11564.0	11615.6	13278.5	14887.6	14880.8	10727.0
52.5°	12304.6	12318.0	12484.1	12493.1	12212.6	12129.5	12264.2	14050.5	15702.2	16047.8	11537.1
55°	12345.0	12396.6	12894.8	13253.8	13707.2	13040.7	12919.5	14786.6	16489.9	17190.1	12378.6
57.5°	11485.5	11568.5	12414.5	13188.8	14450.0	14604.8	14041.5	15738.1	17277.6	18314.4	13352.6
60°	9649.8	9822.6	10971.6	12156.5	14115.6	15729.1	16337.3	17030.7	18312.1	19463.4	14535.2
62.5°	6162.4	6229.7	7841.0	9824.8	12609.8	15619.2	18837.2	19308.5	19887.5	20960.2	16357.5
65°	3085.7	3301.1	4245.9	5863.9	9093.2	13763.3	20100.7	23480.4	22771.2	23523.0	19310.8
67.5°	2093.8	2163.3	2641.3	3523.3	5332.1	9750.8	19317.5	26994.7	26786.0	26909.4	22459.3
70°	1544.0	1588.8	1965.9	2495.5	3224.8	5536.3	15379.0	26729.9	28154.9	28110.0	22129.4
72.5°	1126.6	1149.0	1434.0	1905.3	2390.0	2863.5	9391.7	21593.0	24577.7	25872.6	19353.4
75°	819.1	846.0	996.4	1425.0	1858.1	1786.3	4636.4	15596.7	18743.0	21234.0	15767.3
77.5°	610.4	644.1	713.6	893.2	1301.6	1279.2	2004.0	10127.8	12122.8	13868.7	9578.0
80°	439.8	446.6	487.0	572.3	825.8	749.5	953.8	5280.4	6054.7	6633.7	3754.4
82.5°	267.1	273.8	325.4	352.3	511.7	471.3	496.0	1710.0	2450.6	2600.9	1402.6
85°	78.5	83.0	148.1	161.6	213.2	202.0	199.7	695.7	830.3	1061.5	552.1
87.5°	0.0	0.0	0.0	0.0	2.2	13.5	24.7	123.4	186.3	258.1	134.6
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°	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0	3622.0
2.5°	3660.2	3608.6	3581.6	3534.5	3500.8	3467.2	3433.5	3402.1	3388.6	3368.4	3372.9
5°	3725.3	3644.5	3563.7	3471.7	3393.1	3328.0	3269.7	3218.1	3195.6	3175.4	3184.4
7.5°	3824.0	3702.8	3548.0	3379.7	3256.2	3166.5	3105.9	3070.0	3058.8	3043.0	3043.0
10°	3949.7	3767.9	3496.4	3256.2	3108.1	3036.3	3009.4	3007.1	3018.4	3020.6	3016.1
12.5°	4088.8	3830.7	3420.1	3110.4	2984.7	2962.3	2982.5	3020.6	3058.8	3078.9	3074.5
15°	4232.4	3871.1	3289.9	2971.2	2894.9	2924.1	2989.2	3065.5	3139.5	3177.7	3175.4
17.5°	4367.1	3880.1	3121.6	2836.6	2816.4	2890.4	3002.6	3121.6	3222.6	3276.4	3278.7
20°	4517.4	3864.4	2948.8	2715.4	2737.8	2859.0	3007.1	3150.8	3269.7	3323.6	3337.0
22.5°	4654.3	3810.5	2780.5	2600.9	2670.5	2820.9	2971.2	3105.9	3211.4	3263.0	3280.9
25°	4777.8	3707.3	2596.5	2504.5	2618.9	2767.0	2881.5	2975.7	3049.8	3081.2	3105.9
27.5°	4845.1	3552.5	2457.3	2428.2	2569.5	2690.7	2753.6	2782.7	2807.4	2798.4	2816.4
30°	4858.5	3359.5	2336.1	2367.6	2495.5	2585.2	2598.7	2569.5	2526.9	2457.3	2473.0
32.5°	4845.1	3137.3	2235.2	2302.5	2412.4	2466.3	2448.3	2372.0	2268.8	2161.1	2167.8
35°	4849.6	2912.9	2152.1	2230.7	2315.9	2345.1	2300.2	2194.8	2084.8	1986.1	1981.6
37.5°	4898.9	2724.4	2082.6	2161.1	2221.7	2226.2	2176.8	2066.8	2010.7	1936.7	1927.7
40°	5035.8	2585.2	2019.7	2091.5	2129.7	2127.4	2071.3	1992.8	2030.9	2006.3	1999.5
42.5°	5260.2	2500.0	1968.1	2017.5	2044.4	2048.9	2004.0	1954.6	2037.7	2006.3	1995.0
45°	5621.6	2495.5	1932.2	1943.4	1986.1	2017.5	1986.1	1930.0	1961.4	1808.8	1779.6
47.5°	6050.2	2571.8	1905.3	1878.3	1952.4	2008.5	1959.1	1869.4	1804.3	1665.1	1644.9
50°	6566.3	2726.6	1880.6	1808.8	1903.0	1974.8	1925.5	1802.0	1703.3	1629.2	1618.0
52.5°	7179.0	2930.8	1849.2	1730.2	1829.0	1956.9	1925.5	1795.3	1665.1	1597.8	1586.6
55°	7820.8	3166.5	1813.3	1636.0	1745.9	1961.4	1941.2	1748.2	1636.0	1600.1	1591.1
57.5°	8617.5	3449.2	1748.2	1526.0	1671.9	1921.0	1878.3	1721.2	1615.8	1586.6	1577.6
60°	9652.0	3868.9	1624.8	1413.8	1586.6	1849.2	1822.2	1676.4	1561.9	1537.2	1530.5
62.5°	11290.2	4580.3	1474.4	1306.1	1485.6	1698.8	1739.2	1591.1	1494.6	1492.3	1490.1
65°	13960.7	5435.3	1297.1	1209.6	1380.1	1575.4	1629.2	1503.6	1425.0	1449.7	1447.5
67.5°	15832.4	5509.3	1151.2	1108.6	1256.7	1440.7	1519.3	1413.8	1328.5	1375.7	1373.4
70°	14501.6	4297.5	1025.6	1003.1	1124.3	1294.9	1400.3	1301.6	1216.3	1261.2	1252.2
72.5°	12230.5	3294.4	906.6	893.2	989.7	1142.3	1247.7	1189.4	1099.6	1099.6	1079.4
75°	9829.3	2717.6	781.0	774.2	839.3	987.4	1106.4	1007.6	924.6	920.1	906.6
77.5°	5637.3	1781.8	655.3	650.8	671.0	825.8	859.5	839.3	776.5	747.3	738.3
80°	2246.4	926.8	516.2	487.0	507.2	605.9	677.7	644.1	590.2	554.3	534.1
82.5°	870.7	464.5	363.5	318.7	347.8	437.6	491.5	480.2	444.3	363.5	341.1
85°	354.6	226.7	217.7	184.0	202.0	235.6	282.8	244.6	202.0	143.6	136.9
87.5°	94.3	83.0	80.8	49.4	38.2	11.2	2.2	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)