

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: P639330

Luminaire Tested: GWS-SA5B-750-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639330  
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-SA5B-750-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

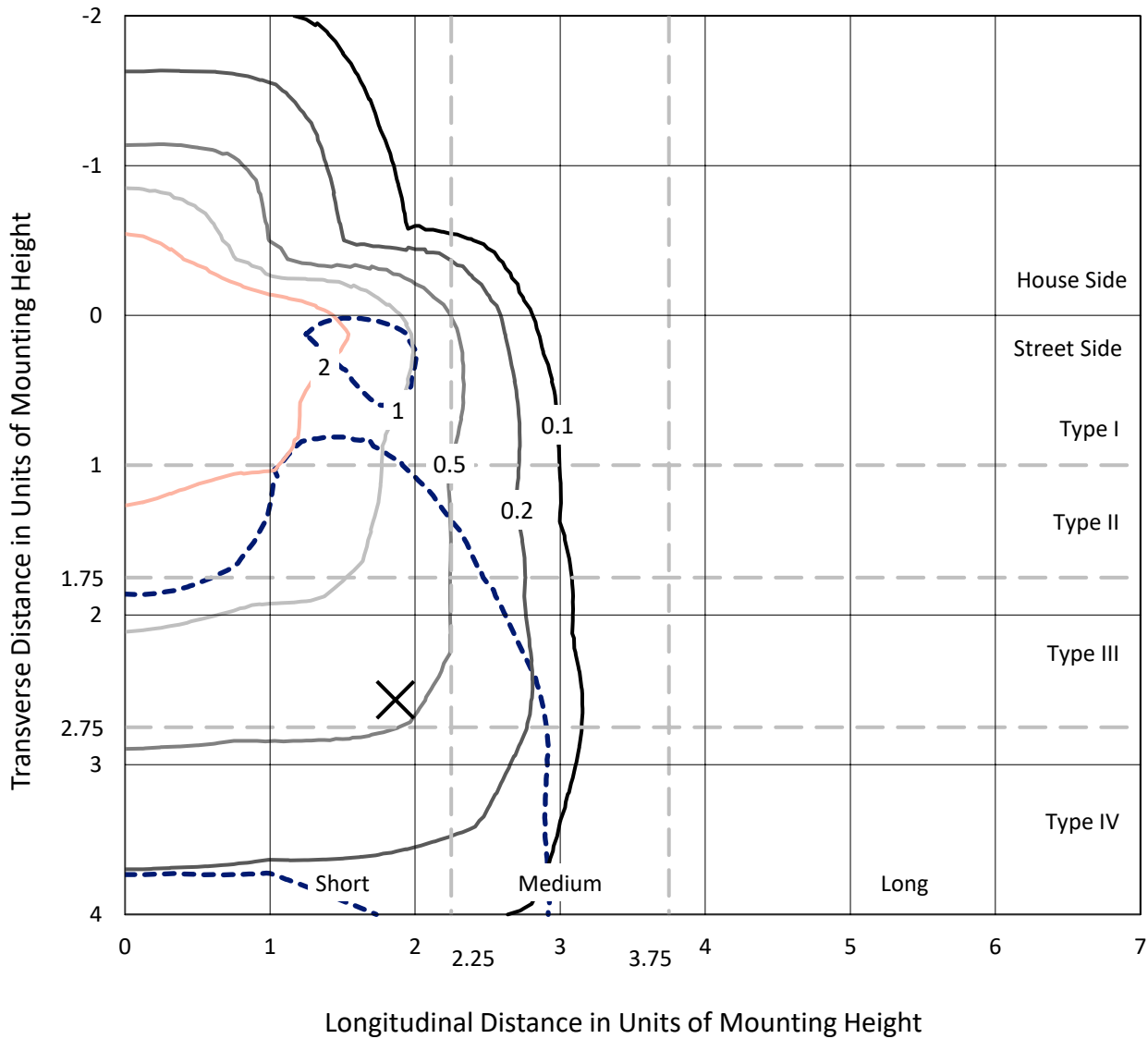
Lumens per Lamp: N/A  
Luminaire Lumens: 17543.6 lumens  
Efficiency: N/A  
Efficacy: 151.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

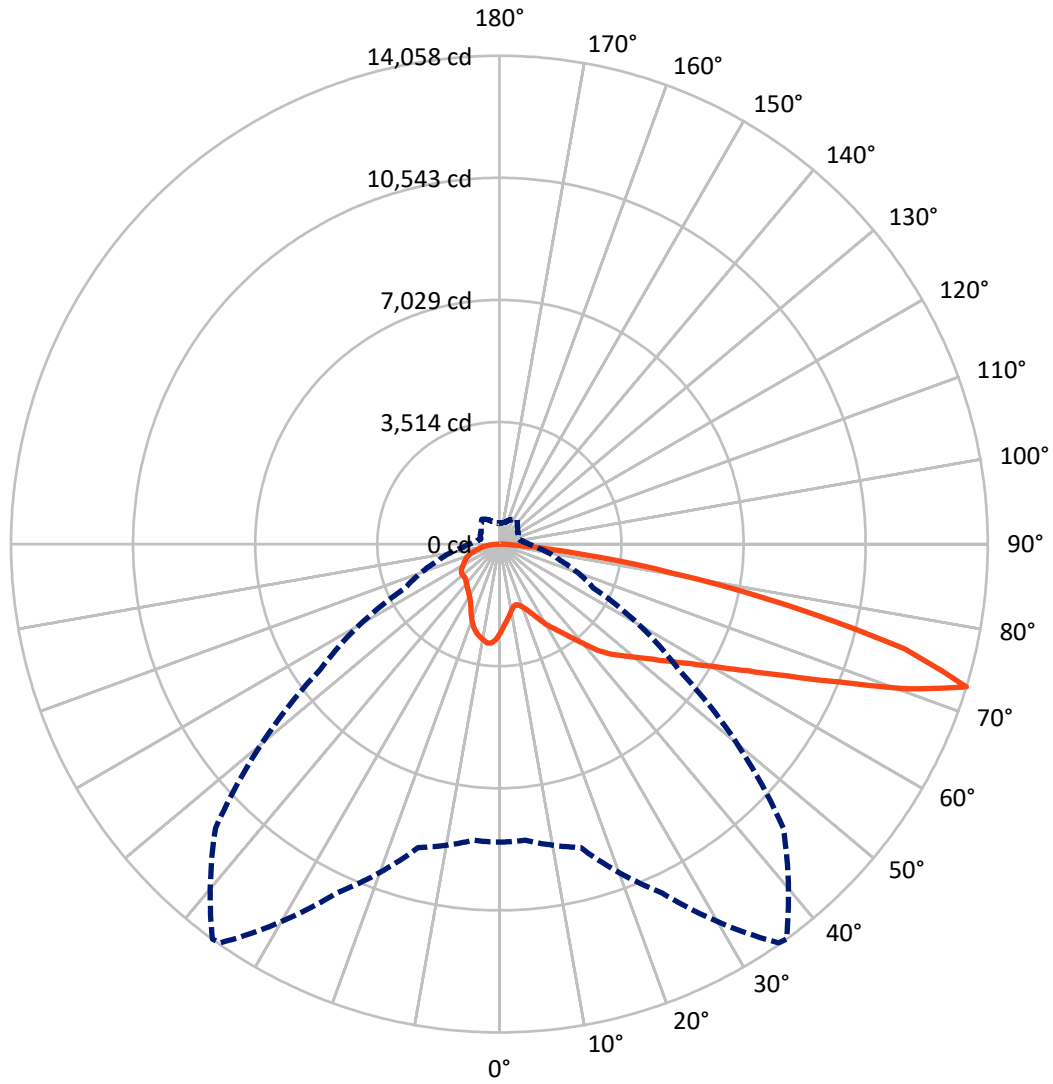
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4044.6	0.0	4044.6
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	13499.0	0.0	13499.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	17543.6	0.0	17543.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.0	1.4
10°-20°	677.1	3.9
20°-30°	1121.4	6.4
30°-40°	1679.4	9.6
40°-50°	2450.1	14.0
50°-60°	3487.3	19.9
60°-70°	4405.9	25.1
70°-80°	3139.6	17.9
80°-90°	342.7	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°	17543.6	100.0
0°-180°	17543.6	100.0

**Coefficient of Utilization**



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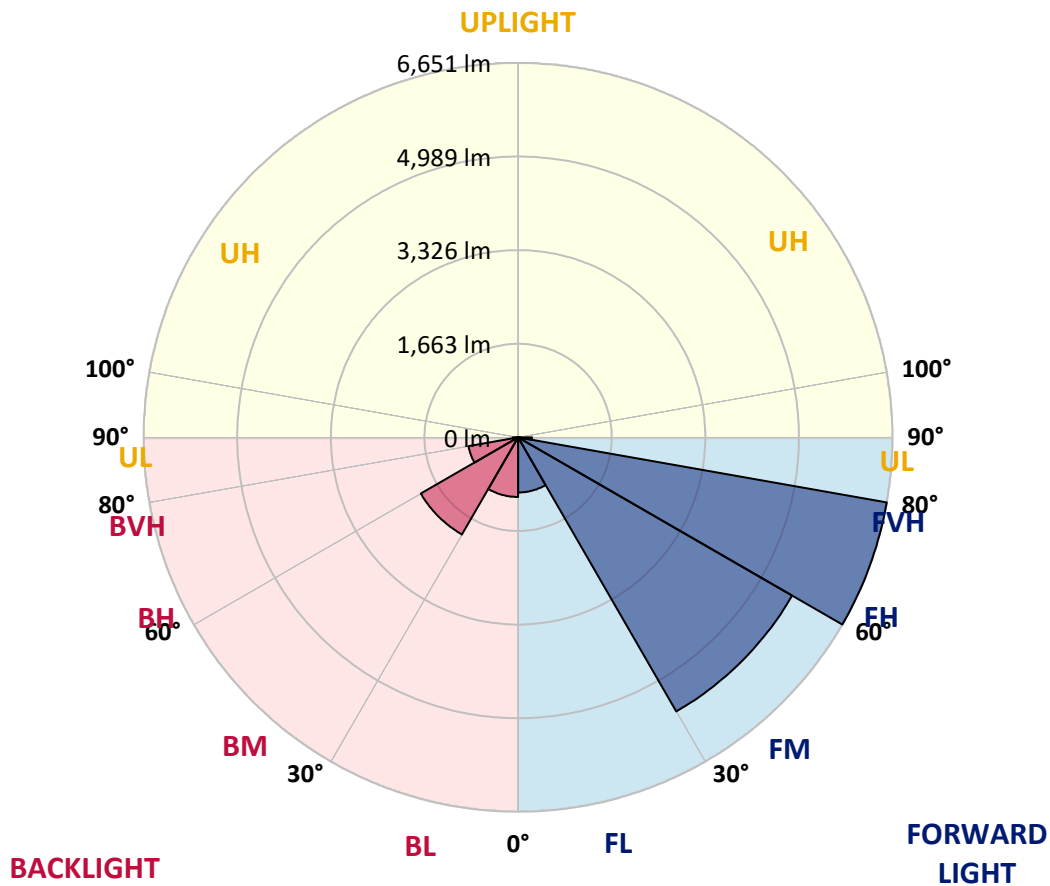
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.4	5.6			
FM (30°-60°)	5622.3	32.0			
FH (60°-80°)	6651.4	37.9			G3/7500
FVH (80°-90°)	246.0	1.4			G3/500
BL (0°-30°)	1059.1	6.0	B3/2500		
BM (30°-60°)	1994.5	11.4	B2/2500		
BH (60°-80°)	894.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	96.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6
2.5°	2342.3	2338.4	2330.6	2354.1	2377.5	2374.9	2407.4	2438.7	2472.5	2507.7	2554.6
5°	2154.8	2152.2	2145.7	2180.9	2216.0	2214.7	2268.1	2318.9	2387.9	2463.4	2557.2
7.5°	1967.4	1960.8	1970.0	2014.2	2063.7	2068.9	2141.8	2225.2	2325.4	2438.7	2571.5
10°	1802.0	1800.7	1804.6	1854.1	1928.3	1933.5	2027.2	2143.1	2275.9	2427.0	2604.0
12.5°	1759.0	1756.4	1746.0	1770.7	1826.7	1834.5	1937.4	2079.3	2242.1	2433.5	2648.3
15°	1829.3	1822.8	1786.4	1774.7	1802.0	1808.5	1895.7	2041.6	2222.5	2445.2	2704.3
17.5°	1950.4	1946.5	1877.5	1829.3	1847.6	1852.8	1917.9	2035.1	2217.3	2468.6	2773.3
20°	2127.5	2110.6	2002.5	1929.6	1929.6	1937.4	1976.5	2063.7	2223.9	2497.3	2851.4
22.5°	2361.9	2328.0	2175.7	2076.7	2050.7	2061.1	2078.0	2135.3	2251.2	2545.5	2949.1
25°	2624.9	2593.6	2412.6	2273.3	2236.9	2240.8	2226.5	2236.9	2311.1	2611.9	3070.2
27.5°	2904.8	2884.0	2691.3	2514.2	2456.9	2456.9	2406.1	2381.4	2394.4	2687.4	3205.6
30°	3154.8	3126.2	2963.4	2769.4	2693.9	2693.9	2597.5	2544.1	2512.9	2779.8	3386.6
32.5°	3286.3	3269.4	3161.3	3012.9	2920.4	2906.1	2822.8	2760.3	2687.4	2916.5	3631.3
35°	3458.2	3454.3	3389.2	3273.3	3156.1	3135.3	3078.0	3028.5	2902.2	3087.1	3956.8
37.5°	3674.3	3667.8	3657.4	3588.4	3447.8	3443.8	3393.1	3333.2	3169.1	3333.2	4351.4
40°	3916.5	3904.8	3891.7	3890.4	3805.8	3791.5	3787.6	3719.9	3490.7	3630.0	4762.8
42.5°	4249.8	4209.4	4087.0	4141.7	4204.2	4191.2	4240.7	4139.1	3891.7	3982.9	5152.1
45°	4659.9	4561.0	4318.8	4334.4	4492.0	4518.0	4689.9	4665.1	4333.1	4390.4	5562.2
47.5°	4906.0	4820.1	4594.8	4581.8	4778.4	4811.0	5184.6	5231.5	4808.4	4881.3	6068.7
50°	5107.8	5047.9	4863.0	4881.3	5089.6	5122.1	5675.5	5775.8	5256.3	5383.9	6657.2
52.5°	5351.3	5265.4	5122.1	5208.1	5463.3	5502.3	6221.1	6329.1	5659.9	5935.9	7266.6
55°	5488.0	5452.9	5455.5	5587.0	5907.3	5960.6	6792.6	6774.4	6029.7	6408.5	7724.9
57.5°	5803.1	5790.1	5909.9	5959.3	6425.5	6494.5	7364.2	7208.0	6365.6	6774.4	7944.9
60°	6359.1	6326.5	6430.7	6506.2	7066.1	7163.7	8002.2	7632.4	6593.4	7046.5	7870.7
62.5°	7140.3	7099.9	7103.8	7223.6	7924.1	8027.0	8711.8	7986.6	6663.7	7088.2	7400.7
65°	8111.6	8053.0	7986.6	8149.3	9063.4	9149.3	9483.9	8244.4	6495.8	6687.2	6419.0
67.5°	9136.3	9088.1	9010.0	9351.1	10538.6	10590.6	10349.8	8222.3	5963.3	5614.3	4502.4
70°	9196.2	9207.9	9577.7	10812.0	12464.2	12477.3	11168.7	7777.0	4829.2	3639.1	2243.4
72.5°	8579.0	8559.5	9041.2	11078.9	14013.6	14057.9	11555.4	6300.5	2984.2	1815.0	1052.0
75°	6968.4	7002.3	7508.8	9693.5	12011.1	12050.2	9420.1	3714.7	1417.9	888.0	673.1
77.5°	2999.9	3188.6	4187.3	6829.1	8602.4	8481.4	4855.2	1505.1	756.5	632.8	515.6
80°	865.8	940.1	1492.1	3247.2	5154.7	5063.6	1921.8	563.8	527.3	475.2	369.8
82.5°	279.9	309.9	546.8	1292.9	2309.8	2307.2	729.1	333.3	345.0	322.9	238.3
85°	78.1	89.8	168.0	391.9	714.8	700.5	210.9	157.5	183.6	186.2	118.5
87.5°	0.0	0.0	1.3	2.6	2.6	2.6	5.2	23.4	53.4	67.7	48.2
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°	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6	2567.6
2.5°	2583.2	2579.3	2632.7	2674.4	2713.4	2739.5	2747.3	2752.5	2762.9	2768.1	2762.9
5°	2601.4	2621.0	2709.5	2774.6	2826.7	2857.9	2859.2	2856.6	2864.4	2857.9	2854.0
7.5°	2640.5	2678.3	2790.2	2859.2	2893.1	2894.4	2863.1	2826.7	2808.5	2792.8	2787.6
10°	2692.6	2748.6	2871.0	2916.5	2906.1	2857.9	2788.9	2731.6	2699.1	2675.7	2670.4
12.5°	2764.2	2826.7	2942.6	2941.3	2876.2	2790.2	2709.5	2640.5	2593.6	2566.3	2557.2
15°	2831.9	2911.3	2994.6	2933.5	2830.6	2726.4	2622.3	2529.8	2467.3	2424.4	2416.6
17.5°	2915.2	2999.9	3032.4	2908.7	2773.3	2639.2	2499.9	2378.8	2294.2	2243.4	2239.5
20°	3011.6	3087.1	3050.6	2865.7	2699.1	2523.3	2334.5	2199.1	2108.0	2058.5	2062.4
22.5°	3123.5	3178.2	3055.8	2807.2	2596.2	2359.3	2148.3	2018.1	1956.9	1930.9	1932.2
25°	3243.3	3278.5	3046.7	2727.7	2438.7	2158.7	1956.9	1897.0	1891.8	1885.3	1887.9
27.5°	3385.3	3377.4	3019.4	2615.8	2226.5	1925.7	1822.8	1838.5	1859.3	1856.7	1859.3
30°	3575.3	3501.1	2984.2	2460.8	1973.9	1730.4	1743.4	1787.7	1815.0	1817.6	1825.4
32.5°	3792.8	3637.8	2928.2	2249.9	1733.0	1621.0	1669.2	1722.6	1755.1	1761.6	1772.0
35°	4051.9	3794.1	2829.3	1986.9	1559.8	1555.9	1600.2	1636.6	1671.8	1674.4	1674.4
37.5°	4350.1	3950.3	2671.7	1696.5	1453.1	1499.9	1541.6	1549.4	1558.5	1550.7	1554.6
40°	4623.5	4101.4	2447.8	1432.2	1365.8	1450.5	1485.6	1459.6	1430.9	1411.4	1415.3
42.5°	4852.6	4204.2	2150.9	1247.3	1277.3	1406.2	1433.5	1380.1	1324.2	1287.7	1292.9
45°	5110.4	4299.3	1802.0	1122.3	1201.8	1374.9	1393.2	1324.2	1252.5	1197.9	1190.0
47.5°	5465.9	4493.3	1492.1	1035.1	1148.4	1358.0	1388.0	1294.2	1200.5	1118.4	1109.3
50°	5904.7	4768.0	1233.0	977.8	1123.6	1348.9	1386.7	1261.7	1149.7	1053.3	1046.8
52.5°	6383.8	5036.2	1041.6	933.5	1098.9	1321.6	1380.1	1225.2	1096.3	992.1	984.3
55°	6702.8	5141.7	912.7	891.9	1058.5	1278.6	1354.1	1190.0	1015.6	920.5	908.8
57.5°	6796.5	5006.3	822.9	854.1	1006.5	1218.7	1304.6	1115.8	966.1	890.6	881.5
60°	6635.1	4665.1	766.9	822.9	949.2	1141.9	1218.7	1072.9	927.0	859.3	852.8
62.5°	6179.4	4139.1	723.9	790.3	890.6	1061.1	1164.0	1020.8	884.1	830.7	821.6
65°	5262.8	3394.4	688.8	756.5	834.6	984.3	1104.1	968.7	837.2	796.8	786.4
67.5°	3680.8	2384.0	651.0	716.1	778.6	910.1	1041.6	920.5	789.0	759.1	748.7
70°	1799.4	1264.3	605.4	669.2	718.7	834.6	979.1	861.9	725.2	708.3	694.0
72.5°	856.7	707.0	552.1	605.4	636.7	734.3	875.0	777.3	649.7	613.3	588.5
75°	574.2	502.6	481.7	529.9	537.7	615.9	750.0	670.5	572.9	531.2	510.4
77.5°	434.9	384.1	404.9	447.9	432.3	506.5	617.2	597.6	516.9	479.1	468.7
80°	306.0	279.9	321.6	347.6	335.9	431.0	556.0	511.7	425.8	384.1	376.3
82.5°	192.7	187.5	237.0	240.9	244.8	341.1	457.0	402.3	330.7	272.1	252.6
85°	96.3	106.8	141.9	141.9	140.6	175.8	260.4	226.6	178.4	141.9	138.0
87.5°	32.6	45.6	61.2	49.5	37.8	29.9	33.9	41.7	44.3	43.0	43.0
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)