

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: P639275

Luminaire Tested: GWS-SA5B-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639275
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-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17150.6 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

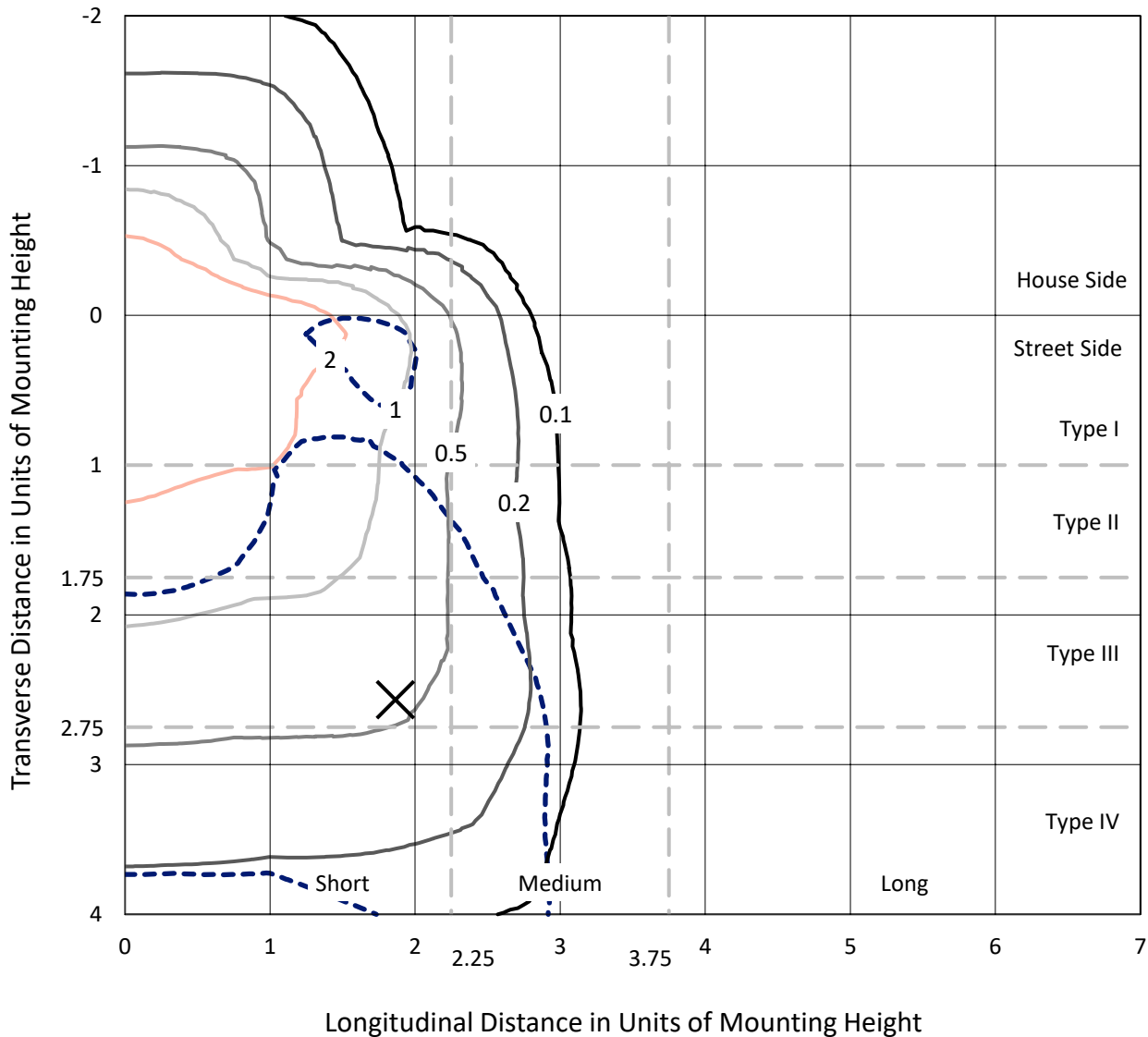
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

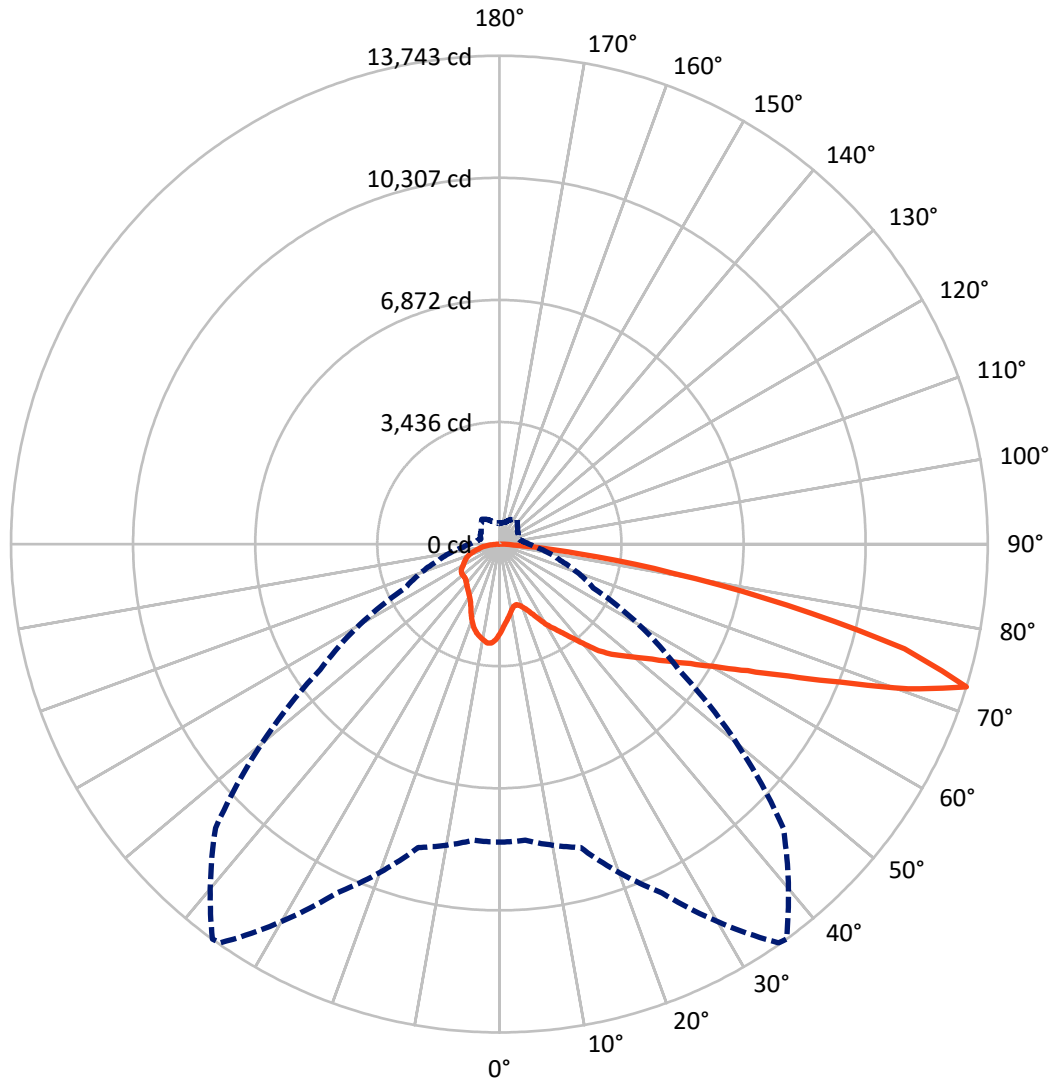
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	3954.0	0.0	3954.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	13196.6	0.0	13196.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	17150.6	0.0	17150.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.6	1.4
10°-20°	662.0	3.9
20°-30°	1096.3	6.4
30°-40°	1641.8	9.6
40°-50°	2395.2	14.0
50°-60°	3409.2	19.9
60°-70°	4307.2	25.1
70°-80°	3069.3	17.9
80°-90°	335.1	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°	17150.6	100.0
0°-180°	17150.6	100.0

Coefficient of Utilization



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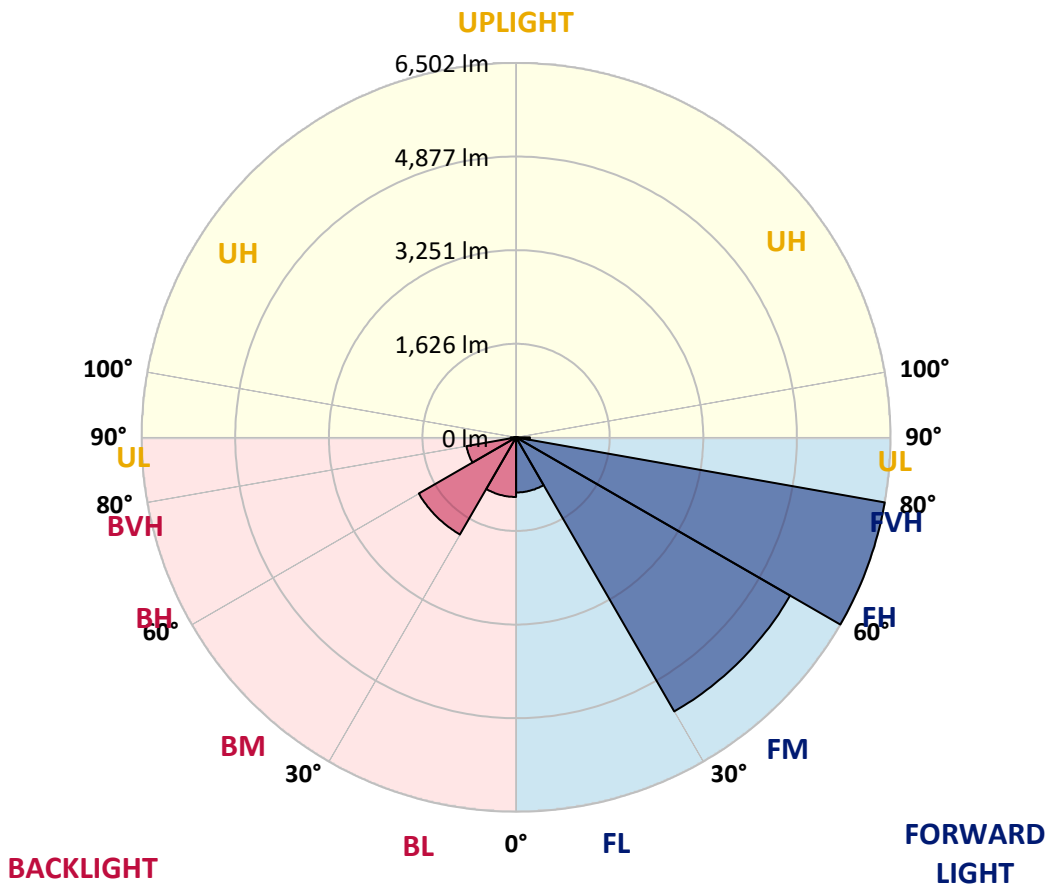
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.5	5.6			
FM (30°-60°)	5496.3	32.0			
FH (60°-80°)	6502.4	37.9			G3/7500
FVH (80°-90°)	240.5	1.4			G3/500
BL (0°-30°)	1035.4	6.0	B3/2500		
BM (30°-60°)	1949.9	11.4	B2/2500		
BH (60°-80°)	874.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	94.6	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°	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1
2.5°	2289.9	2286.0	2278.4	2301.3	2324.2	2321.7	2353.5	2384.1	2417.1	2451.5	2497.3
5°	2106.6	2104.0	2097.7	2132.0	2166.4	2165.1	2217.3	2267.0	2334.4	2408.2	2499.9
7.5°	1923.3	1916.9	1925.8	1969.1	2017.5	2022.6	2093.8	2175.3	2273.3	2384.1	2513.9
10°	1761.6	1760.4	1764.2	1812.5	1885.1	1890.2	1981.8	2095.1	2224.9	2372.6	2545.7
12.5°	1719.6	1717.1	1706.9	1731.1	1785.8	1793.5	1894.0	2032.7	2191.9	2379.0	2589.0
15°	1788.4	1782.0	1746.4	1734.9	1761.6	1768.0	1853.3	1995.8	2172.8	2390.4	2643.7
17.5°	1906.7	1902.9	1835.5	1788.4	1806.2	1811.3	1874.9	1989.5	2167.7	2413.3	2711.2
20°	2079.8	2063.3	1957.6	1886.4	1886.4	1894.0	1932.2	2017.5	2174.0	2441.3	2787.5
22.5°	2309.0	2275.9	2126.9	2030.2	2004.7	2014.9	2031.5	2087.5	2200.8	2488.4	2883.0
25°	2566.1	2535.5	2358.6	2222.4	2186.8	2190.6	2176.6	2186.8	2259.3	2553.3	3001.4
27.5°	2839.7	2819.4	2631.0	2457.9	2401.9	2401.9	2352.2	2328.0	2340.8	2627.2	3133.8
30°	3084.1	3056.1	2897.0	2707.4	2633.5	2633.5	2539.3	2487.2	2456.6	2717.5	3310.7
32.5°	3212.7	3196.1	3090.5	2945.4	2855.0	2841.0	2759.5	2698.4	2627.2	2851.2	3550.0
35°	3380.7	3376.9	3313.2	3200.0	3085.4	3065.0	3009.0	2960.7	2837.2	3017.9	3868.2
37.5°	3592.0	3585.6	3575.4	3508.0	3370.5	3366.7	3317.1	3258.5	3098.1	3258.5	4253.9
40°	3828.7	3817.3	3804.6	3803.3	3720.6	3706.5	3702.7	3636.5	3412.5	3548.7	4656.1
42.5°	4154.6	4115.1	3995.5	4048.9	4110.0	4097.3	4145.7	4046.4	3804.6	3893.7	5036.7
45°	4555.5	4458.8	4222.1	4237.3	4391.3	4416.8	4584.8	4560.6	4236.1	4292.1	5437.6
47.5°	4796.1	4712.1	4491.9	4479.2	4671.4	4703.2	5068.5	5114.3	4700.6	4771.9	5932.8
50°	4993.4	4934.9	4754.1	4771.9	4975.6	5007.4	5548.4	5646.4	5138.5	5263.2	6508.1
52.5°	5231.4	5147.4	5007.4	5091.4	5340.9	5379.1	6081.7	6187.3	5533.1	5802.9	7103.8
55°	5365.1	5330.7	5333.3	5461.8	5774.9	5827.1	6640.5	6622.7	5894.6	6265.0	7551.8
57.5°	5673.1	5660.4	5777.5	5825.9	6281.5	6349.0	7199.3	7046.5	6223.0	6622.7	7767.0
60°	6216.6	6184.8	6286.6	6360.4	6907.8	7003.2	7823.0	7461.5	6445.7	6888.7	7694.4
62.5°	6980.3	6940.9	6944.7	7061.8	7746.6	7847.1	8516.7	7807.7	6514.5	6929.4	7234.9
65°	7929.9	7872.6	7807.7	7966.8	8860.3	8944.3	9271.5	8059.7	6350.3	6537.4	6275.2
67.5°	8931.6	8884.5	8808.1	9141.6	10302.5	10353.4	10117.9	8038.1	5829.7	5488.5	4401.5
70°	8990.2	9001.6	9363.1	10569.8	12185.0	12197.8	10918.5	7602.8	4721.0	3557.6	2193.1
72.5°	8386.8	8367.7	8838.7	10830.7	13699.7	13743.0	11296.6	6159.3	2917.4	1774.4	1028.5
75°	6812.3	6845.4	7340.5	9476.4	11742.1	11780.3	9209.1	3631.5	1386.1	868.1	658.1
77.5°	2932.7	3117.2	4093.5	6676.1	8409.7	8291.4	4746.5	1471.4	739.5	618.6	504.0
80°	846.4	919.0	1458.7	3174.5	5039.2	4950.1	1878.7	551.1	515.5	464.6	361.5
82.5°	273.7	302.9	534.6	1263.9	2258.0	2255.5	712.8	325.9	337.3	315.7	232.9
85°	76.4	87.8	164.2	383.1	698.8	684.8	206.2	154.0	179.5	182.0	115.8
87.5°	0.0	0.0	1.3	2.5	2.5	2.5	5.1	22.9	52.2	66.2	47.1
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°	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1	2510.1
2.5°	2525.3	2521.5	2573.7	2614.4	2652.6	2678.1	2685.7	2690.8	2701.0	2706.1	2701.0
5°	2543.2	2562.3	2648.8	2712.5	2763.4	2793.9	2795.2	2792.6	2800.3	2793.9	2790.1
7.5°	2581.3	2618.3	2727.7	2795.2	2828.3	2829.6	2799.0	2763.4	2745.5	2730.3	2725.2
10°	2632.3	2687.0	2806.6	2851.2	2841.0	2793.9	2726.5	2670.4	2638.6	2615.7	2610.6
12.5°	2702.3	2763.4	2876.6	2875.4	2811.7	2727.7	2648.8	2581.3	2535.5	2508.8	2499.9
15°	2768.5	2846.1	2927.6	2867.7	2767.2	2665.4	2563.5	2473.2	2412.1	2370.1	2362.4
17.5°	2849.9	2932.7	2964.5	2843.6	2711.2	2580.1	2443.9	2325.5	2242.8	2193.1	2189.3
20°	2944.1	3017.9	2982.3	2801.6	2638.6	2466.8	2282.2	2149.8	2060.7	2012.4	2016.2
22.5°	3053.6	3107.0	2987.4	2744.3	2538.1	2306.4	2100.2	1972.9	1913.1	1887.6	1888.9
25°	3170.7	3205.0	2978.5	2666.6	2384.1	2110.4	1913.1	1854.5	1849.5	1843.1	1845.6
27.5°	3309.4	3301.8	2951.7	2557.2	2176.6	1882.6	1782.0	1797.3	1817.6	1815.1	1817.6
30°	3495.3	3422.7	2917.4	2405.7	1929.6	1691.6	1704.4	1747.6	1774.4	1776.9	1784.5
32.5°	3707.8	3556.4	2862.6	2199.5	1694.2	1584.7	1631.8	1684.0	1715.8	1722.2	1732.4
35°	3961.1	3709.1	2765.9	1942.4	1524.9	1521.1	1564.3	1600.0	1634.3	1636.9	1636.9
37.5°	4252.6	3861.8	2611.9	1658.5	1420.5	1466.3	1507.1	1514.7	1523.6	1516.0	1519.8
40°	4519.9	4009.5	2393.0	1400.1	1335.2	1418.0	1452.3	1426.9	1398.9	1379.8	1383.6
42.5°	4743.9	4110.0	2102.8	1219.4	1248.7	1374.7	1401.4	1349.2	1294.5	1258.9	1263.9
45°	4996.0	4203.0	1761.6	1097.2	1174.8	1344.1	1362.0	1294.5	1224.5	1171.0	1163.4
47.5°	5343.4	4392.6	1458.7	1011.9	1122.7	1327.6	1356.9	1265.2	1173.6	1093.4	1084.5
50°	5772.4	4661.2	1205.4	955.9	1098.5	1318.7	1355.6	1233.4	1123.9	1029.7	1023.4
52.5°	6240.8	4923.4	1018.3	912.6	1074.3	1291.9	1349.2	1197.8	1071.7	969.9	962.3
55°	6552.6	5026.5	892.3	871.9	1034.8	1249.9	1323.8	1163.4	992.8	899.9	888.5
57.5°	6644.3	4894.1	804.4	835.0	983.9	1191.4	1275.4	1090.8	944.5	870.6	861.7
60°	6486.5	4560.6	749.7	804.4	927.9	1116.3	1191.4	1048.8	906.3	840.1	833.7
62.5°	6041.0	4046.4	707.7	772.6	870.6	1037.4	1137.9	997.9	864.3	812.1	803.2
65°	5144.9	3318.3	673.3	739.5	815.9	962.3	1079.4	947.0	818.4	779.0	768.8
67.5°	3598.4	2330.6	636.4	700.1	761.2	889.7	1018.3	899.9	771.3	742.1	731.9
70°	1759.1	1235.9	591.9	654.2	702.6	815.9	957.2	842.6	709.0	692.4	678.4
72.5°	837.5	691.2	539.7	591.9	622.4	717.9	855.4	759.9	635.2	599.5	575.3
75°	561.3	491.3	471.0	518.1	525.7	602.1	733.2	655.5	560.1	519.3	499.0
77.5°	425.1	375.5	395.9	437.9	422.6	495.1	603.3	584.2	505.3	468.4	458.2
80°	299.1	273.7	314.4	339.9	328.4	421.3	543.5	500.2	416.2	375.5	367.9
82.5°	188.4	183.3	231.7	235.5	239.3	333.5	446.8	393.3	323.3	266.0	246.9
85°	94.2	104.4	138.7	138.7	137.5	171.8	254.6	221.5	174.4	138.7	134.9
87.5°	31.8	44.5	59.8	48.4	36.9	29.3	33.1	40.7	43.3	42.0	42.0
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)