

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: P639385

Luminaire Tested: GWS-SA5B-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639385
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-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17303.1 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

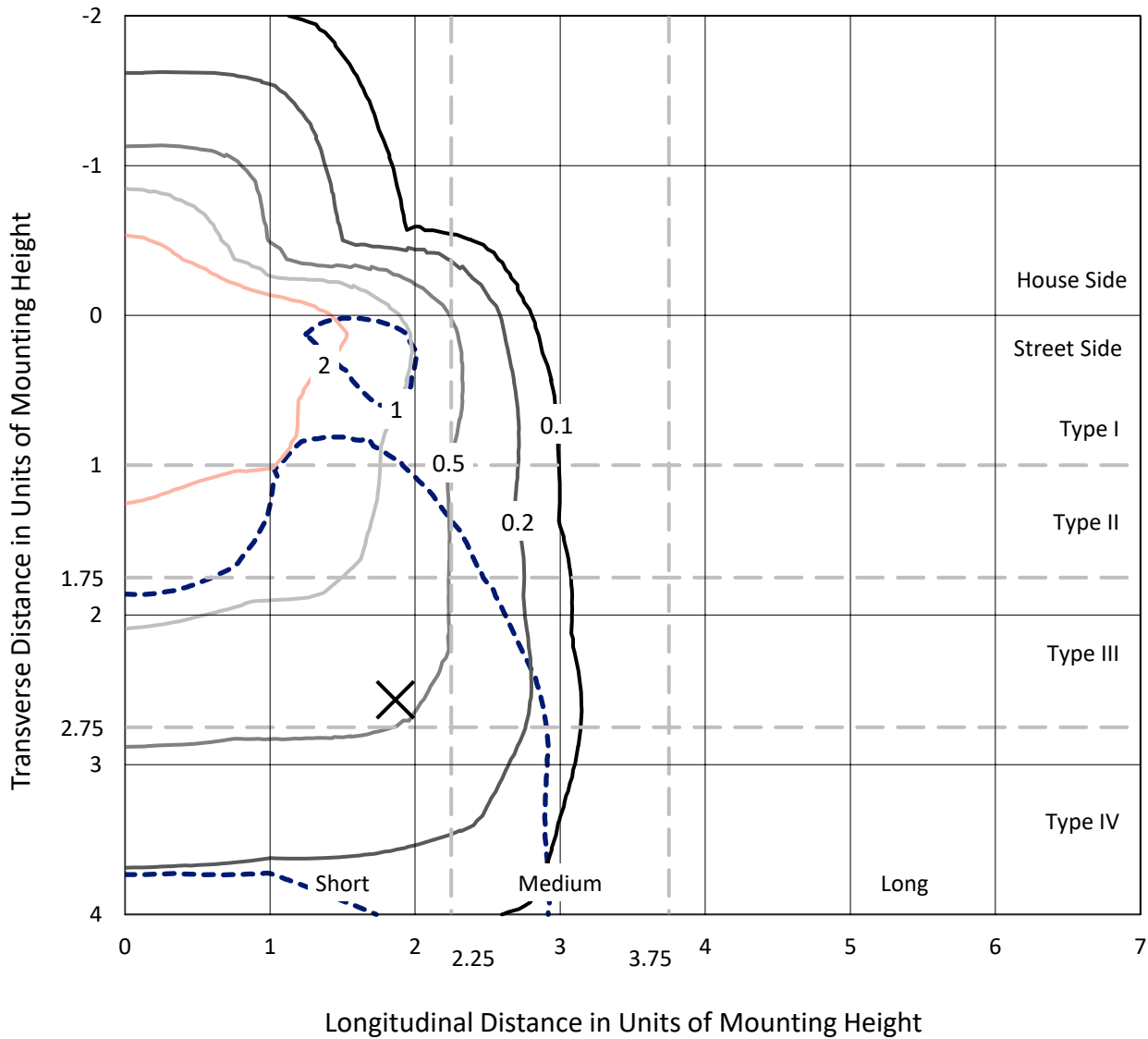
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

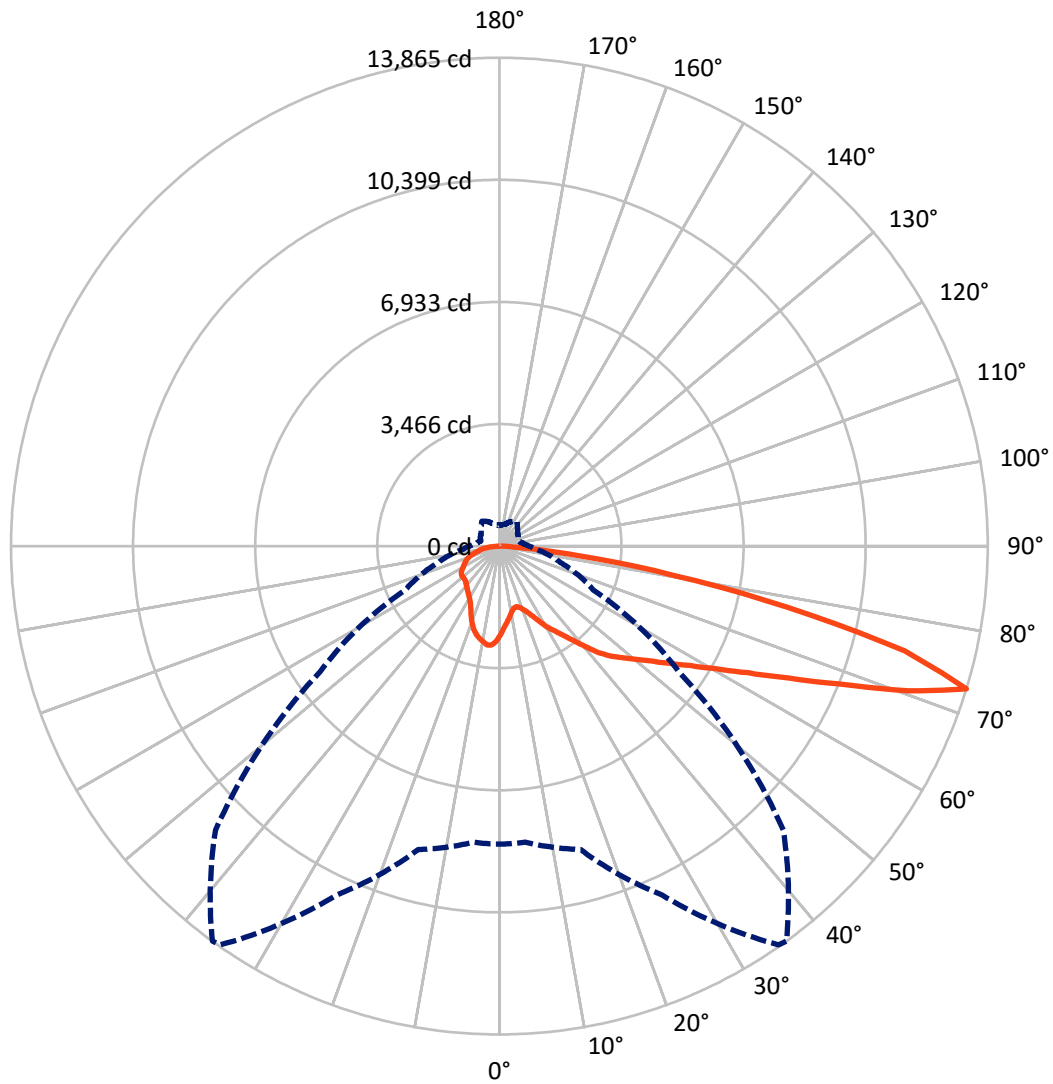
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	3989.1	0.0	3989.1
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	13314.0	0.0	13314.0
	% Fixture	76.9	0.0	76.9
Total	Lumens	17303.1	0.0	17303.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.7	1.4
10°-20°	667.8	3.9
20°-30°	1106.0	6.4
30°-40°	1656.4	9.6
40°-50°	2416.5	14.0
50°-60°	3439.5	19.9
60°-70°	4345.5	25.1
70°-80°	3096.5	17.9
80°-90°	338.0	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°	17303.1	100.0
0°-180°	17303.1	100.0

Coefficient of Utilization



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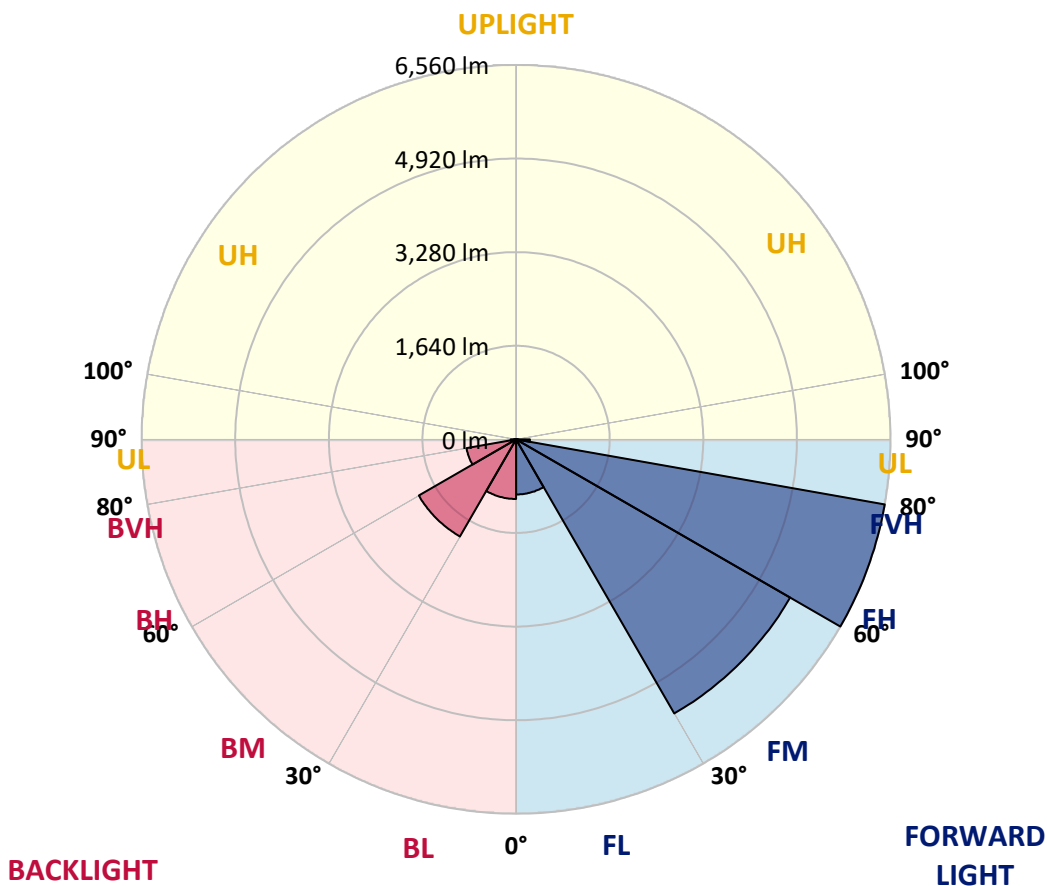
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.0	5.6			
FM (30°-60°)	5545.2	32.0			
FH (60°-80°)	6560.2	37.9			G3/7500
FVH (80°-90°)	242.6	1.4			G3/500
BL (0°-30°)	1044.6	6.0	B3/2500		
BM (30°-60°)	1967.2	11.4	B2/2500		
BH (60°-80°)	881.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	95.4	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°	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4
2.5°	2310.2	2306.4	2298.7	2321.8	2344.9	2342.3	2374.4	2405.3	2438.6	2473.3	2519.5
5°	2125.3	2122.7	2116.3	2151.0	2185.7	2184.4	2237.0	2287.1	2355.2	2429.7	2522.1
7.5°	1940.4	1934.0	1943.0	1986.6	2035.4	2040.5	2112.5	2194.6	2293.5	2405.3	2536.2
10°	1777.3	1776.0	1779.9	1828.7	1901.9	1907.0	1999.5	2113.7	2244.7	2393.7	2568.3
12.5°	1734.9	1732.3	1722.1	1746.5	1801.7	1809.4	1910.8	2050.8	2211.3	2400.1	2612.0
15°	1804.3	1797.8	1761.9	1750.3	1777.3	1783.7	1869.8	2013.6	2192.1	2411.7	2667.2
17.5°	1923.7	1919.8	1851.8	1804.3	1822.2	1827.4	1891.6	2007.2	2186.9	2434.8	2735.3
20°	2098.3	2081.6	1975.1	1903.1	1903.1	1910.8	1949.4	2035.4	2193.4	2463.0	2812.3
22.5°	2329.5	2296.1	2145.9	2048.3	2022.6	2032.8	2049.5	2106.0	2220.3	2510.6	2908.6
25°	2588.9	2558.1	2379.6	2242.2	2206.2	2210.1	2195.9	2206.2	2279.4	2576.0	3028.1
27.5°	2865.0	2844.4	2654.4	2479.7	2423.2	2423.2	2373.1	2348.7	2361.6	2650.5	3161.6
30°	3111.5	3083.3	2922.8	2731.4	2657.0	2657.0	2561.9	2509.3	2478.5	2741.7	3340.1
32.5°	3241.2	3224.6	3118.0	2971.6	2880.4	2866.3	2784.1	2722.4	2650.5	2876.5	3581.6
35°	3410.8	3406.9	3342.7	3228.4	3112.8	3092.3	3035.8	2987.0	2862.4	3044.8	3902.6
37.5°	3623.9	3617.5	3607.2	3539.2	3400.5	3396.6	3346.6	3287.5	3125.7	3287.5	4291.7
40°	3862.8	3851.2	3838.4	3837.1	3753.6	3739.5	3735.7	3668.9	3442.9	3580.3	4697.5
42.5°	4191.5	4151.7	4031.0	4084.9	4146.6	4133.7	4182.5	4082.4	3838.4	3928.3	5081.5
45°	4596.0	4498.5	4259.6	4275.0	4430.4	4456.1	4625.6	4601.2	4273.7	4330.2	5486.0
47.5°	4838.8	4754.0	4531.8	4519.0	4712.9	4745.0	5113.6	5159.8	4742.4	4814.4	5985.5
50°	5037.8	4978.7	4796.4	4814.4	5019.8	5051.9	5597.7	5696.6	5184.2	5310.0	6566.0
52.5°	5277.9	5193.2	5051.9	5136.7	5388.4	5426.9	6135.8	6242.4	5582.3	5854.5	7167.0
55°	5412.8	5378.1	5380.7	5510.4	5826.3	5878.9	6699.5	6681.5	5947.0	6320.7	7619.0
57.5°	5723.6	5710.7	5828.9	5877.7	6337.4	6405.4	7263.3	7109.2	6278.3	6681.5	7836.0
60°	6271.9	6239.8	6342.5	6417.0	6969.2	7065.5	7892.5	7527.8	6503.0	6949.9	7762.8
62.5°	7042.4	7002.6	7006.4	7124.6	7815.5	7916.9	8592.4	7877.1	6572.4	6991.0	7299.2
65°	8000.4	7942.6	7877.1	8037.6	8939.1	9023.9	9353.9	8131.4	6406.7	6595.5	6331.0
67.5°	9011.0	8963.5	8886.5	9222.9	10394.1	10445.5	10207.9	8109.5	5881.5	5537.3	4440.7
70°	9070.1	9081.7	9446.4	10663.8	12293.4	12306.2	11015.6	7670.4	4763.0	3589.3	2212.6
72.5°	8461.4	8442.1	8917.3	10927.0	13821.5	13865.2	11397.0	6214.1	2943.3	1790.1	1037.6
75°	6872.9	6906.3	7405.8	9560.7	11846.5	11885.0	9291.0	3663.7	1398.5	875.8	663.9
77.5°	2958.7	3144.9	4129.9	6735.5	8484.5	8365.1	4788.7	1484.5	746.1	624.1	508.5
80°	854.0	927.2	1471.7	3202.7	5084.0	4994.1	1895.4	556.0	520.1	468.7	364.7
82.5°	276.1	305.6	539.4	1275.2	2278.1	2275.6	719.1	328.7	340.3	318.5	235.0
85°	77.1	88.6	165.7	386.5	705.0	690.9	208.0	155.4	181.1	183.6	116.9
87.5°	0.0	0.0	1.3	2.6	2.6	2.6	5.1	23.1	52.7	66.8	47.5
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°	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4
2.5°	2547.8	2543.9	2596.6	2637.7	2676.2	2701.9	2709.6	2714.7	2725.0	2730.1	2725.0
5°	2565.8	2585.0	2672.4	2736.6	2787.9	2818.8	2820.0	2817.5	2825.2	2818.8	2814.9
7.5°	2604.3	2641.5	2752.0	2820.0	2853.4	2854.7	2823.9	2787.9	2770.0	2754.5	2749.4
10°	2655.7	2710.9	2831.6	2876.5	2866.3	2818.8	2750.7	2694.2	2662.1	2639.0	2633.8
12.5°	2726.3	2787.9	2902.2	2900.9	2836.7	2752.0	2672.4	2604.3	2558.1	2531.1	2522.1
15°	2793.1	2871.4	2953.6	2893.2	2791.8	2689.1	2586.3	2495.1	2433.5	2391.1	2383.4
17.5°	2875.3	2958.7	2990.8	2868.8	2735.3	2603.0	2465.6	2346.2	2262.7	2212.6	2208.8
20°	2970.3	3044.8	3008.8	2826.5	2662.1	2488.7	2302.5	2169.0	2079.1	2030.3	2034.1
22.5°	3080.7	3134.7	3014.0	2768.7	2560.6	2326.9	2118.9	1990.5	1930.1	1904.4	1905.7
25°	3198.9	3233.5	3005.0	2690.3	2405.3	2129.2	1930.1	1871.0	1865.9	1859.5	1862.0
27.5°	3338.8	3331.1	2978.0	2579.9	2195.9	1899.3	1797.8	1813.3	1833.8	1831.2	1833.8
30°	3526.3	3453.1	2943.3	2427.1	1946.8	1706.7	1719.5	1763.2	1790.1	1792.7	1800.4
32.5°	3740.8	3588.0	2888.1	2219.0	1709.2	1598.8	1646.3	1699.0	1731.1	1737.5	1747.8
35°	3996.3	3742.1	2790.5	1959.6	1538.4	1534.6	1578.2	1614.2	1648.9	1651.4	1651.4
37.5°	4290.4	3896.2	2635.1	1673.3	1433.1	1479.4	1520.5	1528.2	1537.2	1529.4	1533.3
40°	4560.1	4045.1	2414.2	1412.6	1347.1	1430.6	1465.2	1439.6	1411.3	1392.0	1395.9
42.5°	4786.1	4146.6	2121.5	1230.2	1259.8	1386.9	1413.9	1361.2	1306.0	1270.0	1275.2
45°	5040.4	4240.3	1777.3	1107.0	1185.3	1356.1	1374.1	1306.0	1235.4	1181.4	1173.7
47.5°	5391.0	4431.7	1471.7	1020.9	1132.6	1339.4	1368.9	1276.5	1184.0	1103.1	1094.1
50°	5823.7	4702.6	1216.1	964.4	1108.2	1330.4	1367.6	1244.4	1133.9	1038.9	1032.5
52.5°	6296.3	4967.2	1027.3	920.8	1083.8	1303.4	1361.2	1208.4	1081.3	978.5	970.8
55°	6610.9	5071.2	900.2	879.7	1044.0	1261.1	1335.5	1173.7	1001.7	907.9	896.4
57.5°	6703.4	4937.6	811.6	842.4	992.7	1202.0	1286.7	1100.5	952.9	878.4	869.4
60°	6544.1	4601.2	756.4	811.6	936.2	1126.2	1202.0	1058.2	914.3	847.6	841.1
62.5°	6094.7	4082.4	714.0	779.5	878.4	1046.6	1148.0	1006.8	872.0	819.3	810.3
65°	5190.6	3347.8	679.3	746.1	823.2	970.8	1089.0	955.4	825.7	785.9	775.6
67.5°	3630.4	2351.3	642.1	706.3	767.9	897.6	1027.3	907.9	778.2	748.7	738.4
70°	1774.7	1246.9	597.1	660.1	708.9	823.2	965.7	850.1	715.3	698.6	684.5
72.5°	845.0	697.3	544.5	597.1	628.0	724.3	863.0	766.7	640.8	604.8	580.4
75°	566.3	495.7	475.1	522.7	530.4	607.4	739.7	661.3	565.0	523.9	503.4
77.5°	428.9	378.8	399.4	441.8	426.3	499.5	608.7	589.4	509.8	472.6	462.3
80°	301.8	276.1	317.2	342.9	331.3	425.1	548.3	504.7	419.9	378.8	371.1
82.5°	190.1	184.9	233.7	237.6	241.4	336.5	450.7	396.8	326.2	268.4	249.1
85°	95.0	105.3	140.0	140.0	138.7	173.4	256.8	223.4	175.9	140.0	136.1
87.5°	32.1	44.9	60.4	48.8	37.2	29.5	33.4	41.1	43.7	42.4	42.4
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)