

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: P639277

Luminaire Tested: GWS-SA5B-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17603.7 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

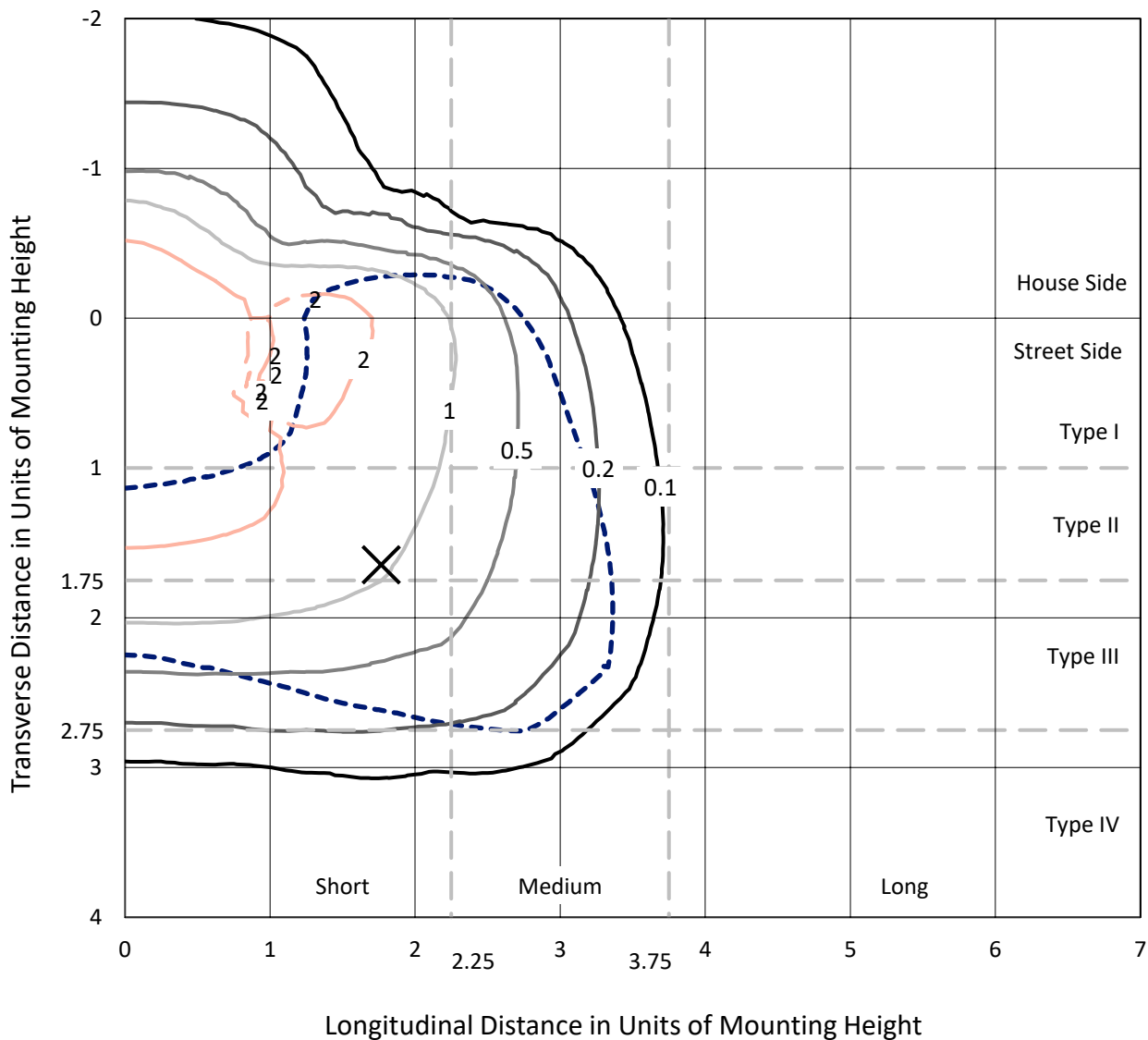
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

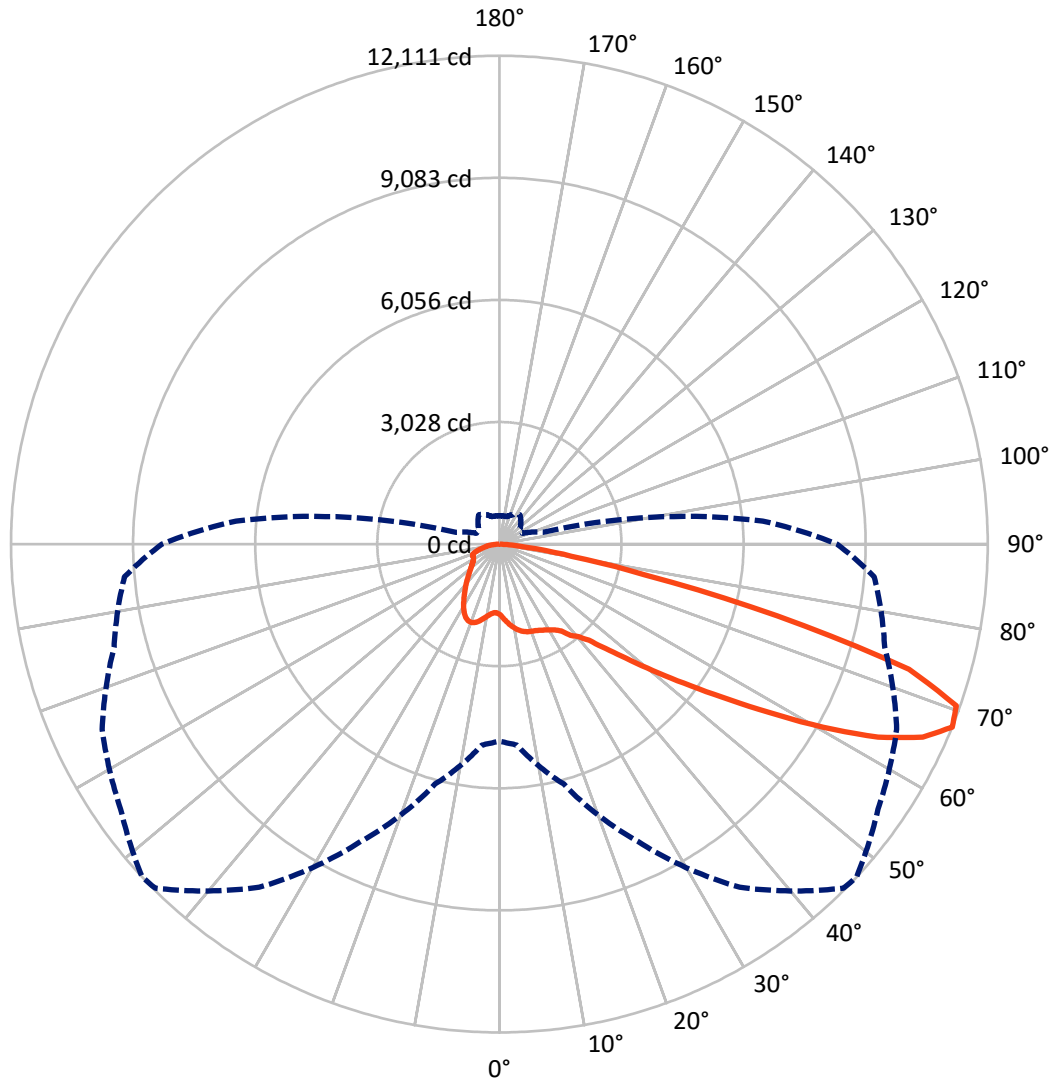
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4012.0	0.0	4012.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	13591.7	0.0	13591.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	17603.7	0.0	17603.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	1.0
10°-20°	594.2	3.4
20°-30°	1010.0	5.7
30°-40°	1479.5	8.4
40°-50°	2254.2	12.8
50°-60°	4033.3	22.9
60°-70°	5381.9	30.6
70°-80°	2433.8	13.8
80°-90°	238.4	1.4
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°	17603.7	100.0
0°-180°	17603.7	100.0

Coefficient of Utilization



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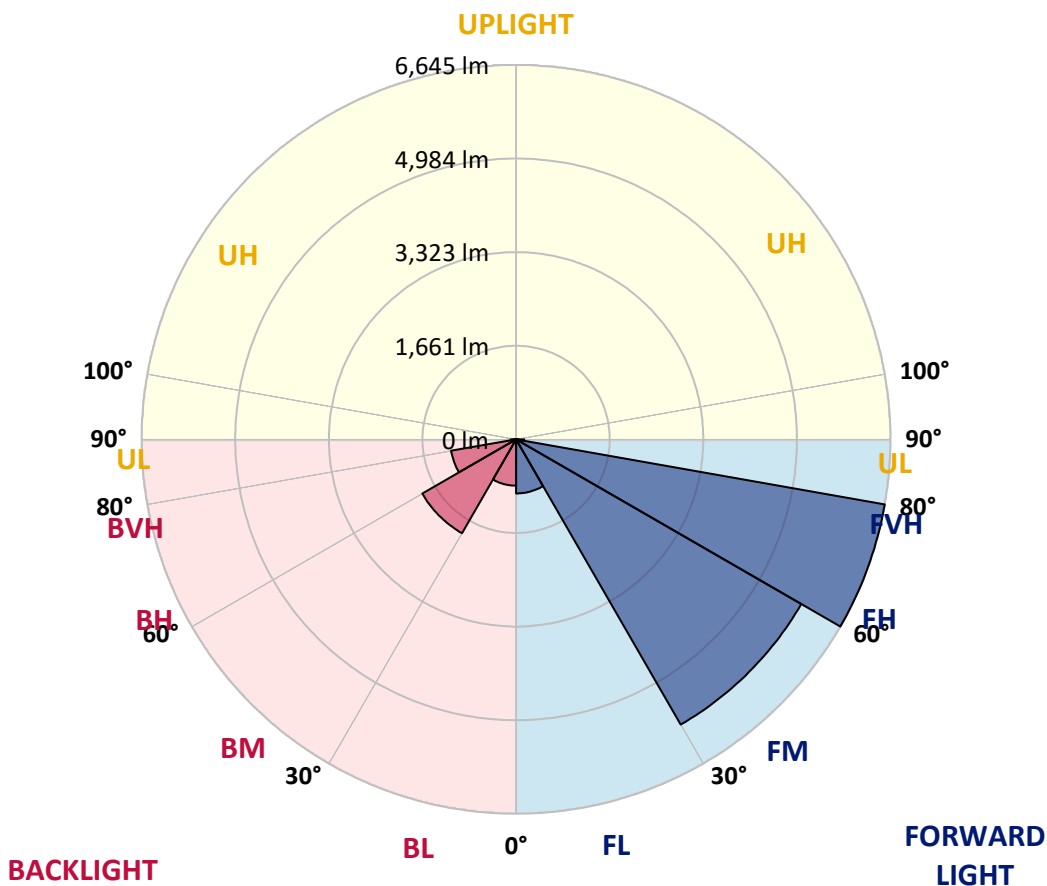
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	960.0	5.5			
FM (30°-60°)	5844.6	33.2			
FH (60°-80°)	6645.2	37.7			G3/7500
FVH (80°-90°)	141.8	0.8			G2/225
BL (0°-30°)	822.5	4.7	B2/1000		
BM (30°-60°)	1922.3	10.9	B2/2500		
BH (60°-80°)	1170.6	6.6	B3/2500		G3/2500
BVH (80°-90°)	96.6	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1
2.5°	1860.9	1867.3	1866.0	1855.8	1849.5	1838.0	1839.3	1821.5	1794.7	1776.9	1756.5
5°	2025.1	2035.3	2022.6	2006.0	1980.6	1943.6	1939.8	1899.1	1848.2	1812.5	1775.6
7.5°	2167.7	2174.0	2158.8	2130.8	2093.8	2044.2	2035.3	1986.9	1923.3	1867.3	1813.8
10°	2278.4	2286.0	2265.7	2228.8	2180.4	2130.8	2124.4	2074.8	2007.3	1941.1	1873.6
12.5°	2372.6	2375.1	2353.5	2303.9	2251.7	2200.8	2194.4	2148.6	2086.2	2018.7	1944.9
15°	2427.3	2428.6	2401.9	2347.1	2297.5	2253.0	2249.1	2209.7	2152.4	2088.8	2009.8
17.5°	2423.5	2426.1	2407.0	2358.6	2315.3	2288.6	2284.8	2259.3	2214.8	2157.5	2078.6
20°	2376.4	2379.0	2366.2	2334.4	2311.5	2303.9	2305.1	2297.5	2270.8	2223.7	2143.5
22.5°	2339.5	2343.3	2331.9	2309.0	2306.4	2324.2	2328.1	2331.9	2319.1	2277.1	2199.5
25°	2357.3	2363.7	2345.9	2314.0	2319.1	2358.6	2366.2	2379.0	2368.8	2333.1	2265.7
27.5°	2480.8	2484.6	2438.8	2373.9	2358.6	2400.6	2412.1	2432.4	2424.8	2391.7	2339.5
30°	2767.2	2764.6	2666.6	2507.5	2443.9	2460.4	2469.3	2498.6	2501.2	2479.5	2429.9
32.5°	3170.7	3158.0	3006.5	2753.2	2568.6	2527.9	2538.1	2577.5	2606.8	2583.9	2516.4
35°	3597.1	3585.6	3418.9	3122.3	2799.0	2657.7	2646.3	2676.8	2721.4	2657.7	2561.0
37.5°	4003.1	3985.3	3814.7	3448.2	3082.9	2885.6	2869.0	2838.5	2811.7	2689.5	2615.7
40°	4453.7	4433.4	4284.4	3869.5	3396.0	3059.9	3017.9	2897.0	2872.8	2795.2	2758.3
42.5°	4934.9	4934.9	4811.4	4402.8	3774.0	3309.4	3254.7	3072.7	3098.1	3047.2	3003.9
45°	5416.0	5430.0	5332.0	4939.9	4279.3	3780.4	3692.6	3434.2	3495.3	3472.3	3450.7
47.5°	5825.9	5852.6	5833.5	5488.5	4897.9	4353.2	4219.5	3950.9	4082.0	4136.8	4197.9
50°	6267.5	6296.8	6277.7	6141.5	5622.2	5046.9	4927.2	4649.7	4875.0	5039.2	5239.1
52.5°	6923.1	6965.1	6806.0	6753.8	6501.7	5834.8	5727.8	5412.2	5820.8	6093.2	6538.7
55°	7476.7	7475.5	7419.5	7539.1	7446.2	6798.3	6679.9	6393.5	6915.4	7204.4	7856.1
57.5°	7733.9	7764.4	7956.6	8295.2	8481.0	7975.7	7862.4	7569.7	8090.3	8240.5	8944.3
60°	7866.2	7904.4	8276.1	8945.6	9445.9	9261.3	9216.7	8843.8	9136.6	9118.7	9862.1
62.5°	7680.4	7756.8	8353.7	9243.5	10134.5	10553.2	10539.2	9975.4	10026.3	9851.9	10431.0
65°	6827.6	6910.3	7847.1	9094.5	10527.8	11535.9	11539.7	11000.0	10709.8	10208.3	10335.6
67.5°	4882.7	5001.0	6159.3	8137.4	10389.0	12066.7	12111.2	11464.6	10870.2	9892.6	9332.6
70°	2661.5	2748.1	3655.6	5915.0	9139.1	11939.4	12022.1	11240.6	10162.5	8557.4	7184.0
72.5°	1209.2	1237.2	1700.5	3245.8	6243.4	10277.0	10623.2	10031.4	8346.1	6321.0	4568.3
75°	553.7	566.4	740.8	1552.9	3262.3	6877.2	7120.3	7471.7	5808.0	3991.7	2381.5
77.5°	347.5	351.3	421.3	710.3	1626.7	3432.9	3688.7	4448.6	3401.1	1975.5	995.4
80°	204.9	208.7	262.2	384.4	763.7	1570.7	1813.8	1759.1	1598.7	852.8	453.1
82.5°	103.1	106.9	151.5	218.9	416.2	625.0	735.7	739.5	595.7	462.0	255.8
85°	36.9	38.2	49.6	86.6	176.9	206.2	230.4	281.3	291.5	268.6	123.5
87.5°	0.0	0.0	1.3	2.5	5.1	20.4	21.6	40.7	85.3	95.5	49.6
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°	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1	1745.1
2.5°	1750.2	1731.1	1724.7	1718.4	1708.2	1704.4	1696.7	1689.1	1689.1	1681.4	1677.6
5°	1759.1	1733.6	1717.1	1709.4	1703.1	1706.9	1706.9	1709.4	1718.4	1713.3	1715.8
7.5°	1790.9	1761.6	1738.7	1732.4	1732.4	1747.6	1757.8	1770.5	1787.1	1789.6	1789.6
10°	1846.9	1812.5	1788.4	1784.5	1790.9	1812.5	1827.8	1843.1	1863.5	1864.7	1867.3
12.5°	1908.0	1873.6	1849.5	1854.5	1860.9	1888.9	1905.5	1918.2	1938.6	1938.6	1937.3
15°	1971.7	1933.5	1913.1	1923.3	1942.4	1974.2	1976.7	1978.0	1988.2	1985.7	1984.4
17.5°	2037.8	1997.1	1981.8	1997.1	2017.5	2032.7	2020.0	2002.2	1998.4	1993.3	1990.7
20°	2102.8	2060.8	2054.4	2065.8	2072.2	2059.5	2020.0	1986.9	1971.7	1964.0	1961.5
22.5°	2158.8	2123.1	2119.3	2119.3	2087.5	2042.9	1984.4	1939.8	1919.5	1909.3	1906.7
25°	2224.9	2191.9	2185.5	2151.1	2069.7	1988.2	1909.3	1868.6	1852.0	1846.9	1848.2
27.5°	2302.6	2279.7	2259.3	2161.3	2018.7	1891.5	1802.4	1784.5	1778.2	1784.5	1788.4
30°	2398.1	2375.1	2329.3	2148.6	1937.3	1765.4	1680.2	1678.9	1698.0	1714.5	1717.1
32.5°	2475.7	2465.5	2390.4	2107.8	1822.7	1626.7	1554.2	1559.2	1593.6	1616.5	1620.3
35°	2536.8	2553.3	2441.3	2040.4	1686.5	1495.6	1438.3	1440.9	1460.0	1491.8	1493.1
37.5°	2623.4	2679.4	2487.2	1937.3	1530.0	1382.3	1330.1	1311.0	1308.5	1317.4	1320.0
40°	2797.7	2881.7	2520.3	1787.1	1378.5	1280.5	1221.9	1185.0	1153.2	1129.0	1121.4
42.5°	3061.2	3158.0	2539.3	1605.1	1243.6	1179.9	1113.7	1066.7	1010.6	959.7	941.9
45°	3544.9	3576.7	2539.3	1411.6	1123.9	1085.7	1019.6	963.6	892.3	832.4	819.7
47.5°	4318.8	4217.0	2541.9	1224.5	1018.3	1003.0	945.7	882.1	803.2	753.5	745.9
50°	5484.7	5127.1	2594.1	1069.2	930.5	933.0	891.0	821.0	749.7	712.8	706.4
52.5°	6806.0	6248.4	2734.1	954.6	856.6	875.7	852.8	785.4	721.7	689.9	683.5
55°	8048.3	7279.5	2853.7	873.2	794.3	827.4	826.1	763.7	706.4	674.6	670.8
57.5°	9104.7	7985.9	2835.9	807.0	740.8	782.8	801.9	749.7	696.3	669.5	665.7
60°	9761.5	8360.1	2582.6	745.9	700.1	751.0	787.9	745.9	701.3	695.0	696.3
62.5°	10046.6	8291.4	2096.4	700.1	673.3	735.7	803.2	772.6	748.4	763.7	772.6
65°	9603.7	7700.8	1542.7	665.7	647.9	739.5	838.8	814.6	748.4	758.6	762.4
67.5°	8374.1	6555.2	1115.0	631.3	616.1	751.0	889.7	808.3	705.2	705.2	697.5
70°	6034.6	4714.7	809.5	597.0	584.2	734.4	892.3	765.0	655.5	651.7	632.6
72.5°	3631.5	2781.2	631.3	558.8	535.9	651.7	836.3	714.1	607.2	575.3	552.4
75°	1886.4	1393.8	529.5	516.8	459.5	552.4	765.0	635.2	519.3	491.3	478.6
77.5°	808.3	651.7	454.4	460.8	381.9	464.6	617.3	549.9	460.8	425.1	413.7
80°	398.4	370.4	358.9	369.1	305.5	358.9	532.1	481.1	390.8	350.0	333.5
82.5°	227.8	216.4	258.4	262.2	217.7	300.4	449.3	407.3	323.3	278.8	252.0
85°	105.6	113.3	156.6	157.8	134.9	206.2	294.0	229.1	171.8	142.6	136.2
87.5°	42.0	49.6	68.7	67.5	39.5	38.2	25.5	14.0	11.5	10.2	8.9
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)