

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: P639316

Luminaire Tested: GWS-SA5B-750-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639316
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-SA5B-750-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18020.1 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

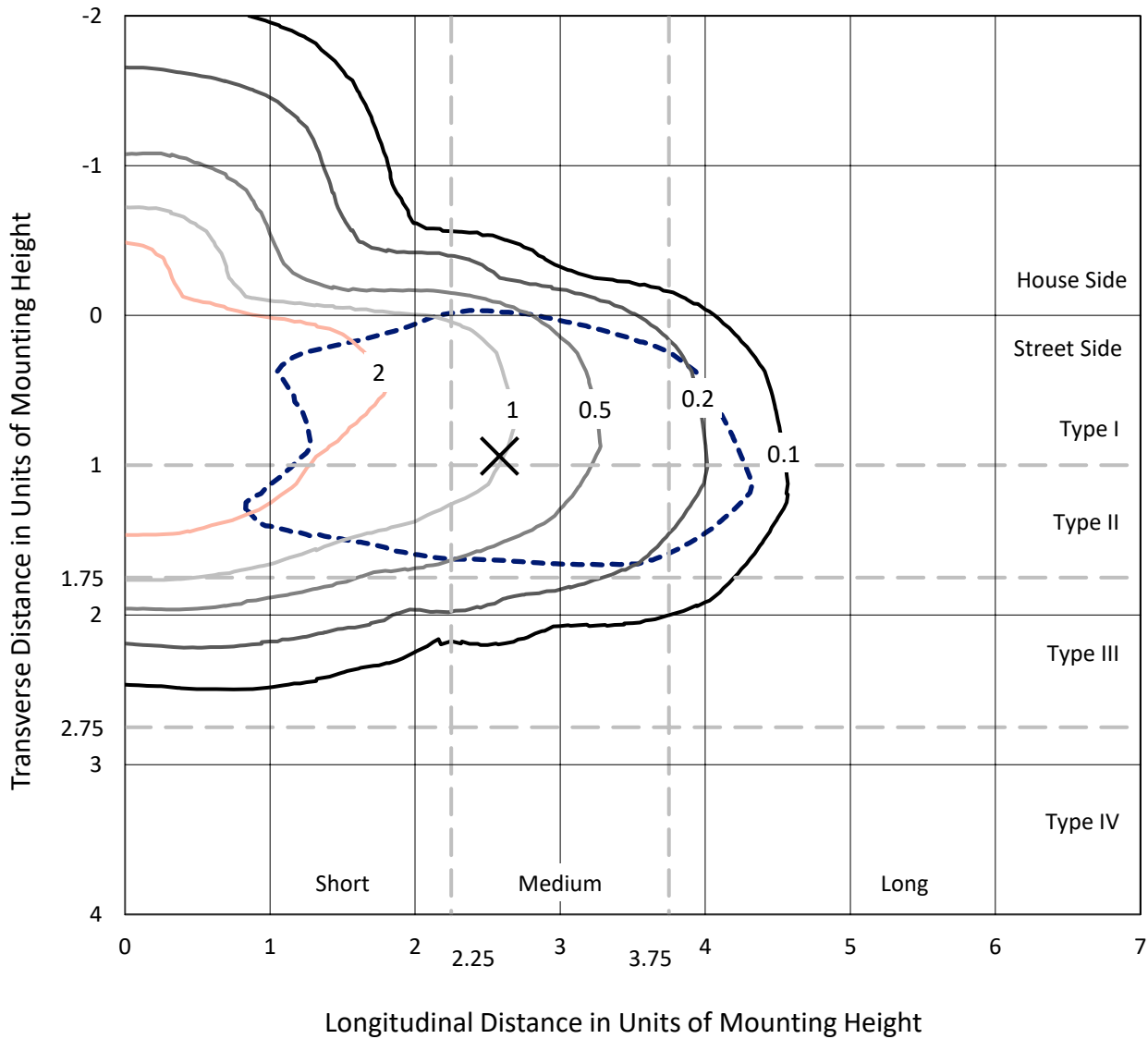
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

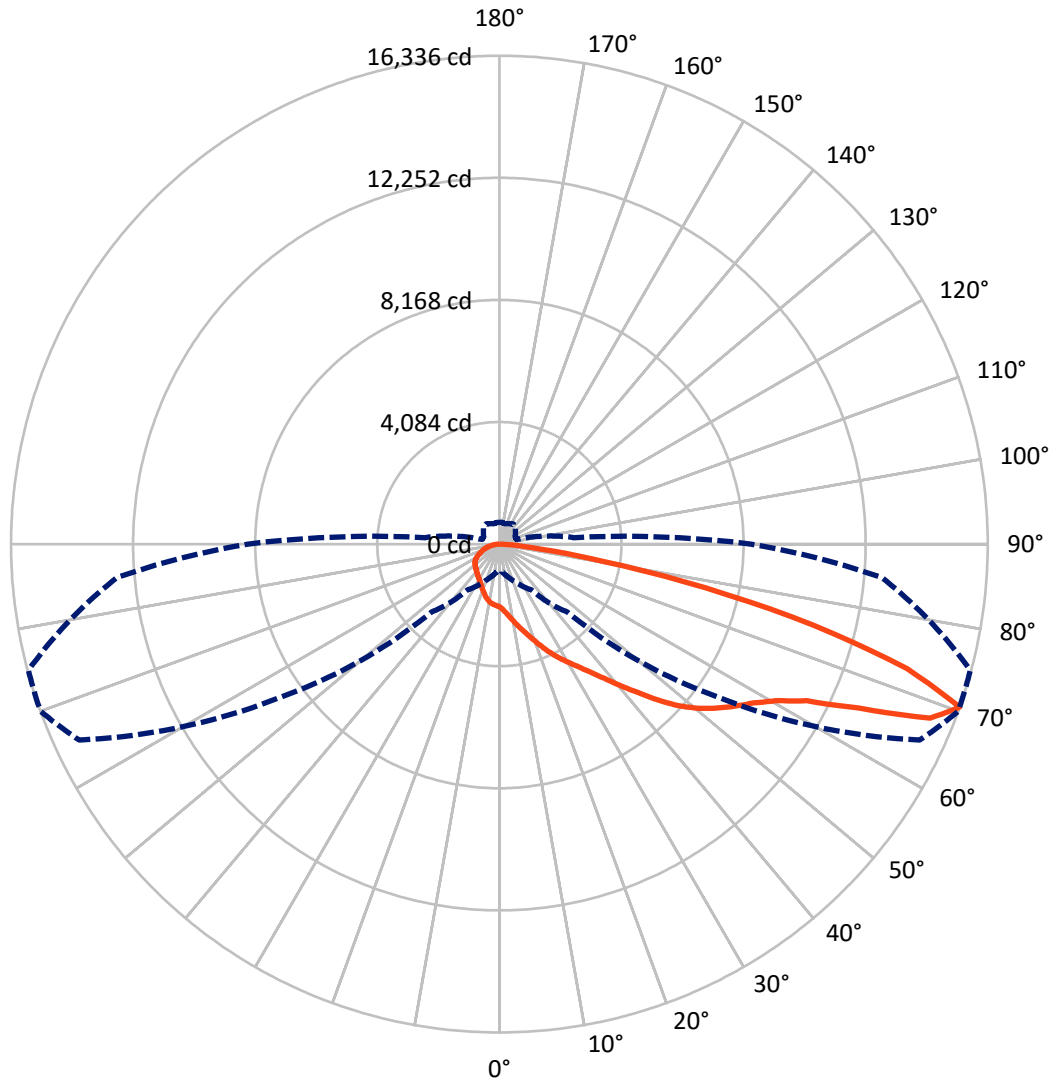
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	3229.2	0.0	3229.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	14790.9	0.0	14790.9
	% Fixture	82.1	0.0	82.1
Total	Lumens	18020.1	0.0	18020.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.2
10°-20°	694.8	3.9
20°-30°	1230.9	6.8
30°-40°	1852.5	10.3
40°-50°	2802.7	15.6
50°-60°	4015.0	22.3
60°-70°	4438.1	24.6
70°-80°	2504.5	13.9
80°-90°	267.9	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°	18020.1	100.0
0°-180°	18020.1	100.0

Coefficient of Utilization



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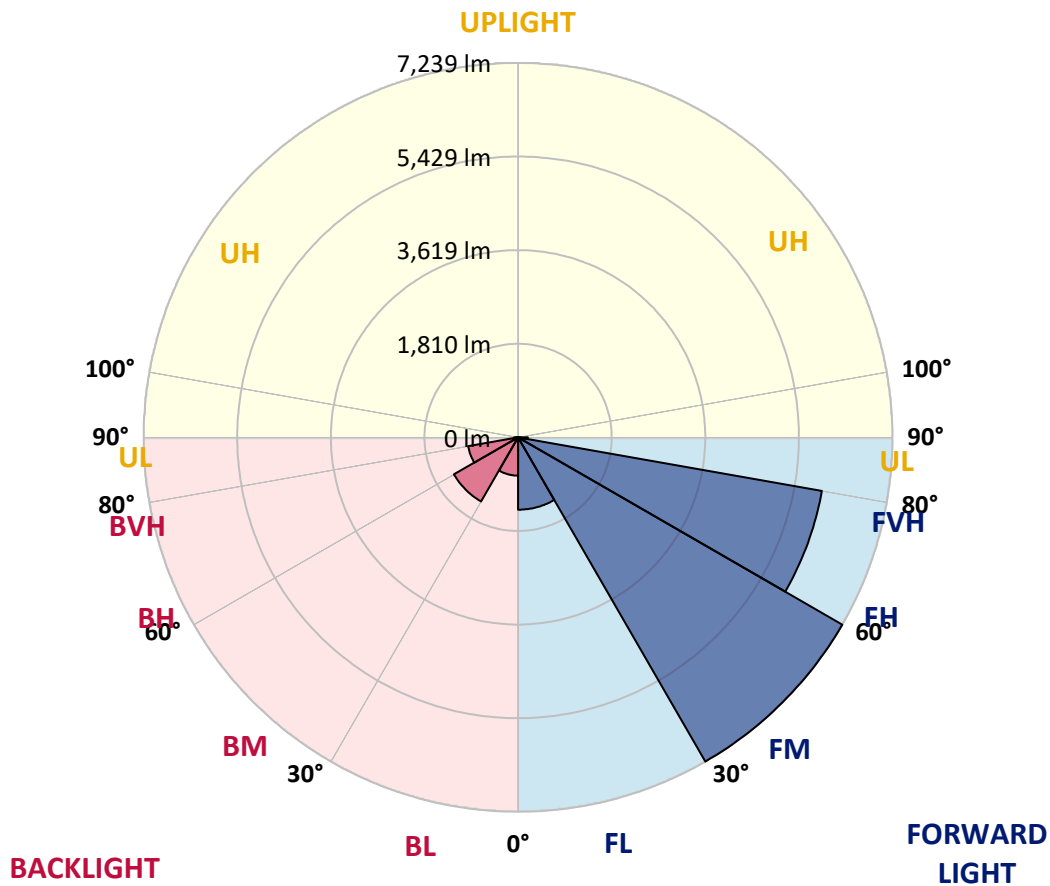
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.9	7.8			
FM (30°-60°)	7238.7	40.2			
FH (60°-80°)	5963.9	33.1			G3/7500
FVH (80°-90°)	189.4	1.1			G2/225
BL (0°-30°)	740.4	4.1	B2/1000		
BM (30°-60°)	1431.5	7.9	B2/2500		
BH (60°-80°)	978.8	5.4	B2/1000		G2/1000
BVH (80°-90°)	78.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5
2.5°	2328.1	2324.2	2326.8	2324.2	2309.8	2274.7	2246.0	2209.6	2184.8	2170.5	2136.7
5°	2601.5	2597.6	2588.5	2575.5	2549.4	2501.2	2429.6	2350.2	2302.0	2265.6	2194.0
7.5°	2798.1	2798.1	2796.8	2781.2	2763.0	2712.2	2627.5	2523.4	2453.1	2390.6	2273.4
10°	2898.4	2904.9	2914.0	2936.1	2932.2	2904.9	2825.5	2713.5	2624.9	2552.0	2377.6
12.5°	2953.1	2957.0	2972.6	3018.2	3065.0	3071.5	3024.7	2907.5	2811.1	2713.5	2493.4
15°	3023.4	3024.7	3045.5	3100.2	3169.2	3238.2	3226.5	3109.3	3010.4	2902.3	2622.3
17.5°	3078.1	3087.2	3124.9	3188.7	3274.7	3369.7	3427.0	3354.1	3231.7	3108.0	2763.0
20°	3097.6	3104.1	3153.6	3251.2	3368.4	3502.5	3630.1	3610.6	3486.9	3341.1	2921.8
22.5°	3167.9	3167.9	3204.4	3286.4	3424.4	3619.7	3826.7	3877.5	3768.1	3597.6	3092.4
25°	3322.8	3317.6	3334.6	3368.4	3472.6	3713.5	4020.7	4173.1	4050.7	3859.3	3262.9
27.5°	3535.1	3532.5	3531.2	3536.4	3571.5	3795.5	4184.8	4449.1	4326.7	4110.6	3415.3
30°	3765.5	3757.7	3774.7	3759.0	3751.2	3893.1	4324.1	4696.5	4601.5	4359.3	3541.6
32.5°	4079.3	4065.0	4061.1	4010.3	3979.1	4045.5	4436.1	4977.8	4902.2	4627.5	3683.5
35°	4493.4	4480.4	4414.0	4333.2	4240.8	4272.0	4575.4	5252.5	5257.7	4963.4	3869.7
37.5°	4911.4	4914.0	4861.9	4671.8	4576.7	4558.5	4787.7	5587.1	5699.1	5364.5	4110.6
40°	5259.0	5274.6	5274.6	5074.1	4932.2	4915.3	5085.8	5984.2	6206.9	5856.6	4415.3
42.5°	5523.3	5537.6	5583.2	5438.7	5288.9	5347.5	5447.8	6382.7	6782.4	6464.7	4800.7
45°	5813.7	5825.4	5850.1	5766.8	5679.6	5835.8	5857.9	6859.2	7441.2	7147.0	5248.6
47.5°	6199.1	6188.7	6191.3	6130.1	6062.4	6315.0	6309.8	7260.3	8077.9	7894.4	5734.3
50°	6678.2	6697.8	6679.5	6558.5	6479.0	6709.5	6739.4	7704.3	8637.8	8633.9	6223.8
52.5°	7139.2	7147.0	7243.3	7248.5	7085.8	7037.6	7115.7	8152.2	9110.5	9311.0	6693.9
55°	7162.6	7192.6	7481.6	7689.9	7953.0	7566.2	7495.9	8579.2	9567.5	9973.7	7182.1
57.5°	6663.9	6712.1	7203.0	7652.2	8383.9	8473.8	8147.0	9131.3	10024.5	10626.1	7747.2
60°	5598.8	5699.1	6365.7	7053.2	8189.9	9126.1	9479.0	9881.3	10624.8	11292.7	8433.4
62.5°	3575.4	3614.5	4549.4	5700.4	7316.2	9062.3	10929.4	11202.9	11538.8	12161.2	9490.7
65°	1790.3	1915.3	2463.5	3402.3	5275.9	7985.5	11662.5	13623.4	13212.0	13648.1	11204.2
67.5°	1214.8	1255.2	1532.5	2044.2	3093.7	5657.4	11208.1	15662.4	15541.3	15612.9	13031.0
70°	895.8	921.9	1140.6	1447.9	1871.1	3212.2	8923.0	15508.8	16335.6	16309.5	12839.6
72.5°	653.6	666.7	832.0	1105.4	1386.7	1661.4	5449.1	12528.4	14260.1	15011.4	11228.9
75°	475.3	490.9	578.1	826.8	1078.1	1036.4	2690.0	9049.3	10874.8	12320.0	9148.2
77.5°	354.2	373.7	414.1	518.2	755.2	742.2	1162.7	5876.2	7033.7	8046.7	5557.2
80°	255.2	259.1	282.5	332.0	479.2	434.9	553.4	3063.7	3512.9	3848.9	2178.3
82.5°	154.9	158.9	188.8	204.4	296.9	273.4	287.8	992.2	1421.8	1509.1	813.8
85°	45.6	48.2	85.9	93.7	123.7	117.2	115.9	403.6	481.8	615.9	320.3
87.5°	0.0	0.0	0.0	0.0	1.3	7.8	14.3	71.6	108.1	149.7	78.1
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°	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5	2101.5
2.5°	2123.7	2093.7	2078.1	2050.7	2031.2	2011.7	1992.1	1973.9	1966.1	1954.4	1957.0
5°	2161.4	2114.5	2067.7	2014.3	1968.7	1930.9	1897.1	1867.1	1854.1	1842.4	1847.6
7.5°	2218.7	2148.4	2058.5	1960.9	1889.3	1837.2	1802.0	1781.2	1774.7	1765.6	1765.6
10°	2291.6	2186.2	2028.6	1889.3	1803.3	1761.7	1746.1	1744.8	1751.3	1752.6	1750.0
12.5°	2372.3	2222.6	1984.3	1804.6	1731.7	1718.7	1730.4	1752.6	1774.7	1786.4	1783.8
15°	2455.7	2246.0	1908.8	1723.9	1679.7	1696.6	1734.3	1778.6	1821.6	1843.7	1842.4
17.5°	2533.8	2251.3	1811.2	1645.8	1634.1	1677.0	1742.1	1811.2	1869.8	1901.0	1902.3
20°	2621.0	2242.1	1710.9	1575.5	1588.5	1658.8	1744.8	1828.1	1897.1	1928.3	1936.2
22.5°	2700.5	2210.9	1613.2	1509.1	1549.4	1636.7	1723.9	1802.0	1863.2	1893.2	1903.6
25°	2772.1	2151.0	1506.5	1453.1	1519.5	1605.4	1671.8	1726.5	1769.5	1787.7	1802.0
27.5°	2811.1	2061.2	1425.8	1408.8	1490.9	1561.2	1597.6	1614.5	1628.9	1623.7	1634.1
30°	2818.9	1949.2	1355.4	1373.7	1447.9	1500.0	1507.8	1490.9	1466.1	1425.8	1434.9
32.5°	2811.1	1820.3	1296.8	1335.9	1399.7	1431.0	1420.5	1376.3	1316.4	1253.9	1257.8
35°	2813.7	1690.1	1248.7	1294.2	1343.7	1360.6	1334.6	1273.4	1209.6	1152.3	1149.7
37.5°	2842.4	1580.7	1208.3	1253.9	1289.0	1291.6	1263.0	1199.2	1166.6	1123.7	1118.5
40°	2921.8	1500.0	1171.8	1213.5	1235.7	1234.3	1201.8	1156.2	1178.4	1164.0	1160.1
42.5°	3052.0	1450.5	1141.9	1170.5	1186.2	1188.8	1162.7	1134.1	1182.3	1164.0	1157.5
45°	3261.6	1447.9	1121.1	1127.6	1152.3	1170.5	1152.3	1119.8	1138.0	1049.5	1032.5
47.5°	3510.3	1492.2	1105.4	1089.8	1132.8	1165.3	1136.7	1084.6	1046.9	966.1	954.4
50°	3809.8	1582.0	1091.1	1049.5	1104.1	1145.8	1117.2	1045.6	988.3	945.3	938.8
52.5°	4165.3	1700.5	1072.9	1003.9	1061.2	1135.4	1117.2	1041.6	966.1	927.1	920.6
55°	4537.7	1837.2	1052.1	949.2	1013.0	1138.0	1126.3	1014.3	949.2	928.4	923.2
57.5°	4999.9	2001.3	1014.3	885.4	970.0	1114.6	1089.8	998.7	937.5	920.6	915.3
60°	5600.1	2244.7	942.7	820.3	920.6	1072.9	1057.3	972.6	906.2	891.9	888.0
62.5°	6550.6	2657.5	855.5	757.8	862.0	985.7	1009.1	923.2	867.2	865.9	864.6
65°	8100.1	3153.6	752.6	701.8	800.8	914.0	945.3	872.4	826.8	841.1	839.8
67.5°	9186.0	3196.5	668.0	643.2	729.2	835.9	881.5	820.3	770.8	798.2	796.9
70°	8413.9	2493.4	595.0	582.0	652.3	751.3	812.5	755.2	705.7	731.8	726.5
72.5°	7096.2	1911.4	526.0	518.2	574.2	662.7	723.9	690.1	638.0	638.0	626.3
75°	5703.0	1576.8	453.1	449.2	487.0	572.9	641.9	584.6	536.4	533.8	526.0
77.5°	3270.8	1033.8	380.2	377.6	389.3	479.2	498.7	487.0	450.5	433.6	428.4
80°	1303.4	537.7	299.5	282.5	294.3	351.6	393.2	373.7	342.4	321.6	309.9
82.5°	505.2	269.5	210.9	184.9	201.8	253.9	285.2	278.6	257.8	210.9	197.9
85°	205.7	131.5	126.3	106.8	117.2	136.7	164.1	141.9	117.2	83.3	79.4
87.5°	54.7	48.2	46.9	28.6	22.1	6.5	1.3	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)