

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: P642260

Luminaire Tested: GWS-SA6C-750-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-750-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29577.4 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

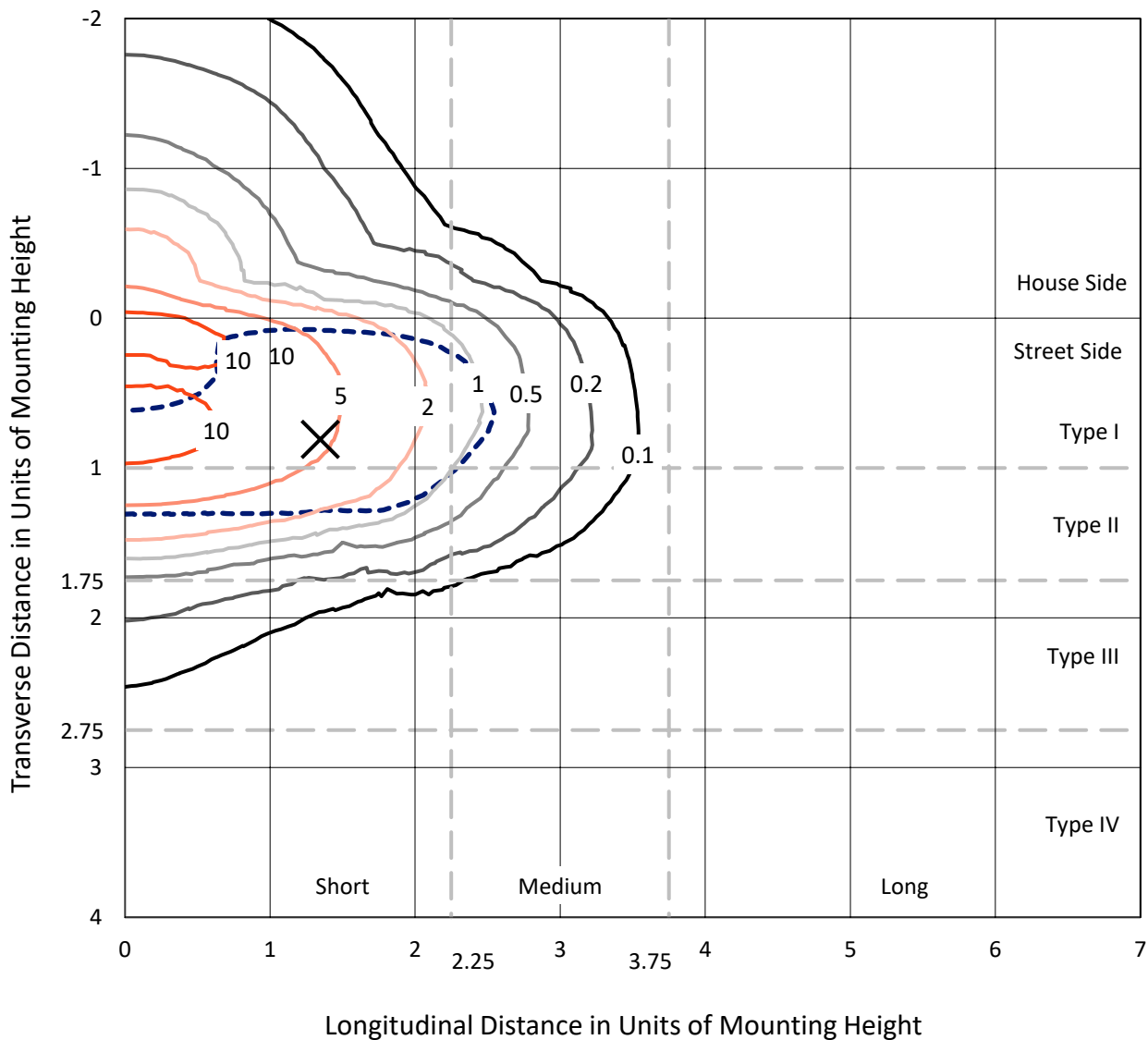
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

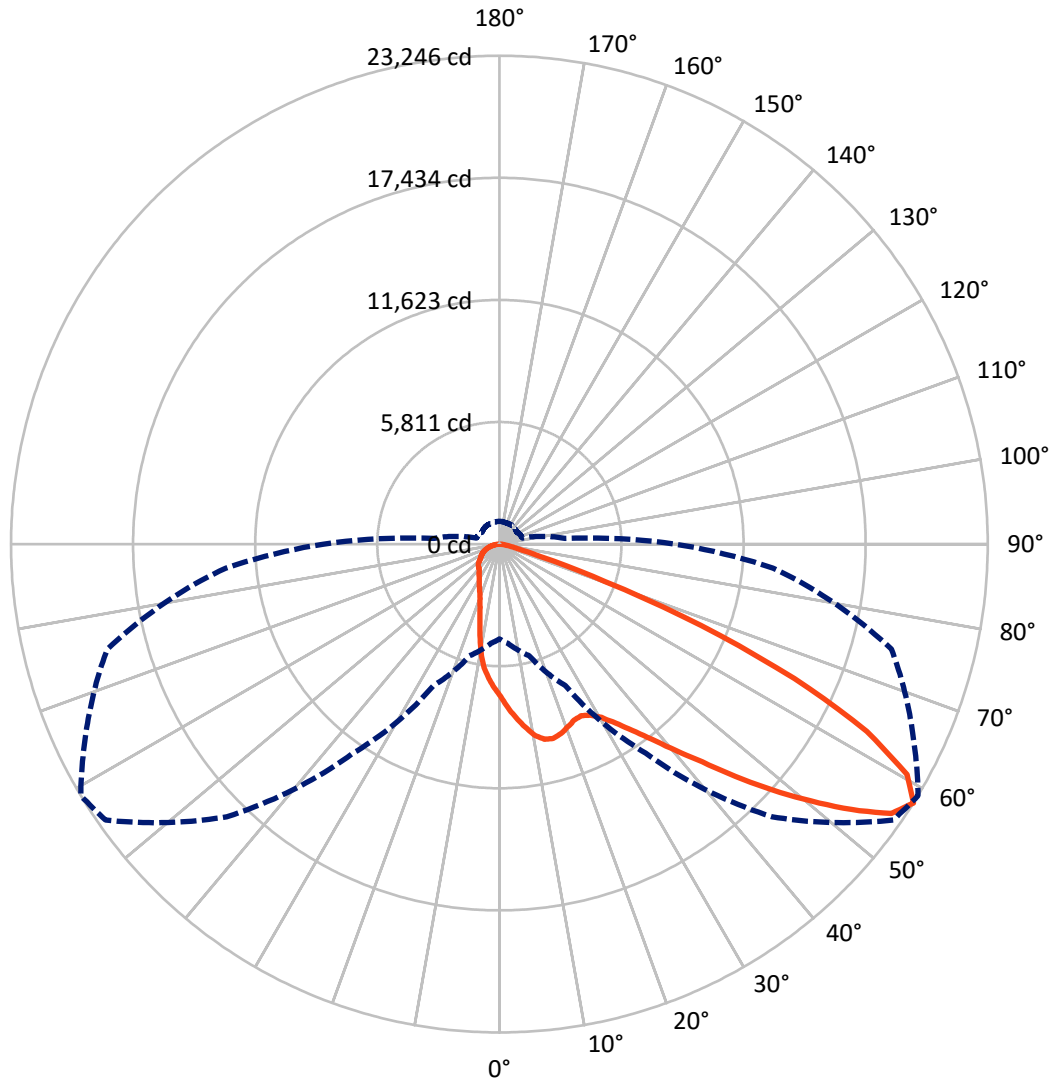
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4590.3	0.0	4590.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	24987.1	0.0	24987.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	29577.4	0.0	29577.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.2	2.3
10°-20°	1708.3	5.8
20°-30°	2769.2	9.4
30°-40°	4454.7	15.1
40°-50°	6917.7	23.4
50°-60°	7451.3	25.2
60°-70°	4324.4	14.6
70°-80°	1128.9	3.8
80°-90°	148.7	0.5
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°	29577.4	100.0
0°-180°	29577.4	100.0

Coefficient of Utilization



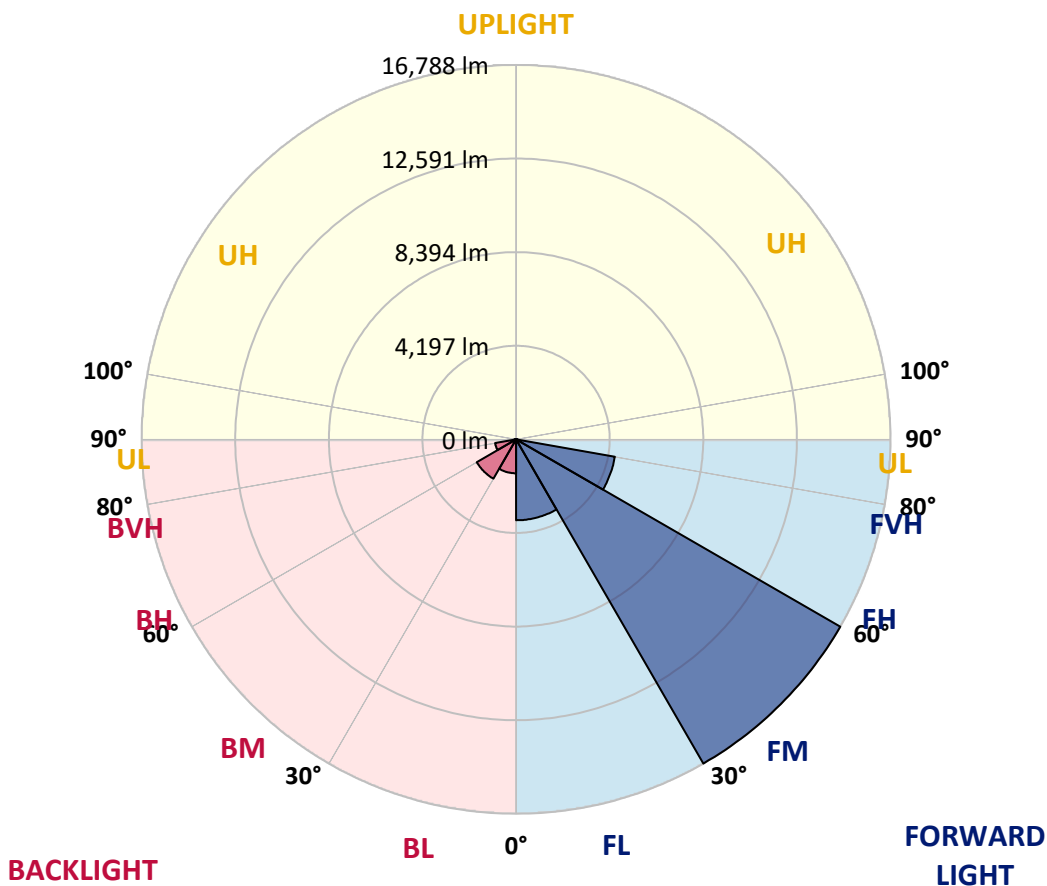
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3628.9	12.3			
FM (30°-60°)	16788.5	56.8			
FH (60°-80°)	4498.6	15.2			G2/5000
FVH (80°-90°)	71.2	0.2			G1/100
BL (0°-30°)	1522.9	5.1	B3/2500		
BM (30°-60°)	2035.1	6.9	B2/2500		
BH (60°-80°)	954.8	3.2	B2/1000		G2/1000
BVH (80°-90°)	77.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7
2.5°	8235.1	8166.4	8214.3	8128.9	8093.5	7999.8	7879.1	7797.9	7672.9	7510.5	7368.9
5°	9053.4	9005.6	9016.0	8924.3	8843.1	8687.0	8439.2	8301.8	8089.4	7762.5	7458.5
7.5°	9028.5	9084.7	9115.9	9195.0	9217.9	9203.4	8980.6	8789.0	8555.8	8064.4	7606.3
10°	8093.5	8199.7	8295.5	8566.2	8895.2	9311.6	9363.7	9249.2	9013.9	8449.6	7783.3
12.5°	7075.3	7156.5	7241.9	7566.7	8070.6	8903.5	9467.8	9538.6	9444.9	8830.6	7983.2
15°	6575.6	6613.1	6694.3	6908.8	7310.6	8235.1	9286.6	9596.9	9765.6	9234.6	8208.1
17.5°	6554.8	6571.4	6611.0	6725.5	7004.5	7718.7	8959.7	9480.3	10017.5	9661.4	8470.4
20°	6985.8	6942.1	6917.1	6915.0	7052.4	7545.9	8643.2	9292.9	10136.2	10098.7	8751.5
22.5°	7583.4	7598.0	7543.8	7410.6	7393.9	7668.8	8485.0	9103.4	10171.6	10486.0	9011.8
25°	8430.9	8503.7	8343.4	8089.4	7964.4	8024.8	8582.9	9045.1	10167.4	10808.7	9174.2
27.5°	9419.9	9476.1	9313.7	8980.6	8722.4	8576.6	8874.4	9217.9	10202.8	11087.8	9272.1
30°	10546.4	10565.1	10342.3	9992.5	9615.6	9303.3	9359.5	9574.0	10384.0	11454.2	9386.6
32.5°	11922.7	12001.8	11664.5	11110.7	10583.9	10184.1	10011.3	10148.7	10775.4	11887.3	9563.6
35°	13669.7	13696.8	13267.8	12474.5	11729.1	11175.2	10812.9	10885.8	11370.9	12493.2	9830.1
37.5°	15316.7	15343.8	14887.8	14150.7	13084.6	12326.7	11802.0	11768.6	12133.0	13349.0	10265.3
40°	16362.0	16439.0	16235.0	15772.7	14754.5	13732.2	13020.0	12905.5	13132.5	14396.4	10871.2
42.5°	16924.2	16957.5	16953.3	17013.7	16407.8	15391.7	14394.3	14165.3	14317.3	15527.0	11483.4
45°	16928.4	17011.6	17234.4	17815.4	17842.4	17209.5	16130.9	15772.7	15633.2	16666.0	12122.6
47.5°	16170.4	16260.0	16872.1	18015.3	18858.6	19002.2	18211.0	17492.6	16905.4	17646.7	12647.3
50°	13875.8	14100.7	15266.8	17288.6	19058.5	20439.0	20195.3	19220.9	18036.1	18404.6	12976.3
52.5°	11883.2	11874.8	12593.2	15235.5	18223.5	21071.9	22115.1	20999.1	19154.2	18885.6	13059.6
55°	8701.5	8749.4	9484.5	11652.0	15995.5	20459.8	23170.8	22635.7	20436.9	19141.7	13026.3
57.5°	4512.1	4749.5	5503.3	7435.6	12153.8	18352.6	22889.7	23245.8	21740.3	19322.9	13070.0
60°	2280.0	2234.2	2504.9	3550.2	7042.0	14333.9	21157.3	22292.1	21975.6	19464.5	13097.1
62.5°	1522.1	1509.6	1434.6	1644.9	2877.6	8489.2	18036.1	19626.9	20341.1	19131.3	12751.4
65°	1318.0	1293.1	1155.6	1147.3	1397.2	3521.0	13219.9	15429.2	16811.7	17650.9	11924.8
67.5°	1186.9	1149.4	1009.9	941.2	1003.6	1547.1	7450.1	10348.6	12414.1	14927.4	10113.3
70°	1059.8	1041.1	901.6	801.7	795.4	943.2	2744.4	5340.9	7595.9	10184.1	7393.9
72.5°	949.5	916.2	797.5	701.7	653.8	668.4	1191.0	2057.2	3931.2	6352.8	4422.6
75°	822.5	797.5	693.4	597.6	539.3	489.3	726.7	951.6	1792.8	3019.2	2088.5
77.5°	635.1	618.4	547.6	474.7	441.4	364.4	441.4	599.7	828.7	1272.2	1086.9
80°	368.6	379.0	408.1	370.6	324.8	260.3	287.3	345.6	497.6	689.2	616.3
82.5°	185.3	197.8	264.4	214.5	193.6	152.0	170.7	204.1	260.3	381.0	241.5
85°	14.6	14.6	47.9	54.1	66.6	54.1	68.7	83.3	118.7	152.0	81.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.2	10.4	18.7	35.4	22.9
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°	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7	7260.7
2.5°	7273.2	7167.0	7039.9	6935.8	6775.5	6690.1	6581.9	6448.6	6394.5	6369.5	6354.9
5°	7287.7	7100.3	6829.6	6579.8	6302.8	6084.2	5840.6	5586.6	5440.8	5405.4	5380.4
7.5°	7341.9	7079.5	6648.5	6236.2	5721.9	5245.1	4780.8	4320.6	4085.3	3995.8	3987.4
10°	7416.8	7071.2	6465.3	5780.2	4911.9	4158.2	3614.7	3254.5	3102.5	3052.5	3035.9
12.5°	7510.5	7064.9	6223.7	5147.2	3977.0	3264.9	2954.7	2896.4	2917.2	2913.0	2913.0
15°	7629.2	7073.3	5932.2	4430.9	3217.0	2833.9	2840.1	2908.8	2973.4	2983.8	2983.8
17.5°	7758.3	7064.9	5509.5	3712.6	2761.0	2731.9	2827.6	2923.4	2981.7	2990.1	2990.1
20°	7897.8	7025.4	4976.5	3035.9	2561.1	2667.3	2771.4	2846.4	2881.8	2890.1	2890.1
22.5°	7981.1	6912.9	4397.6	2569.4	2434.1	2565.3	2634.0	2711.0	2715.2	2648.6	2646.5
25°	7968.6	6702.6	3737.6	2269.6	2298.8	2413.3	2500.7	2446.6	2380.0	2342.5	2336.2
27.5°	7889.5	6386.1	3065.0	2042.6	2138.4	2267.5	2240.5	2194.6	2178.0	2136.3	2132.2
30°	7789.5	5996.8	2461.2	1865.7	1971.9	2090.5	2048.9	2044.7	2028.1	1982.3	1982.3
32.5°	7693.8	5594.9	2005.2	1734.5	1865.7	1874.0	1932.3	1936.5	1928.1	1849.0	1840.7
35°	7666.7	5193.0	1697.0	1630.4	1761.5	1757.4	1840.7	1838.6	1694.9	1584.6	1582.5
37.5°	7747.9	4784.9	1513.8	1545.0	1617.9	1672.0	1738.6	1617.9	1570.0	1503.4	1499.2
40°	7920.7	4408.0	1420.1	1495.0	1526.3	1605.4	1501.3	1509.6	1497.1	1447.1	1440.9
42.5°	8149.8	4087.4	1368.0	1478.4	1474.2	1495.0	1380.5	1413.8	1432.6	1395.1	1388.8
45°	8370.5	3808.4	1340.9	1415.9	1436.7	1316.0	1293.1	1324.3	1353.4	1338.9	1332.6
47.5°	8532.9	3566.8	1326.4	1330.5	1388.8	1255.6	1218.1	1232.7	1268.1	1274.3	1272.2
50°	8582.9	3360.7	1309.7	1259.7	1247.2	1195.2	1166.0	1161.9	1203.5	1232.7	1236.8
52.5°	8487.1	3177.4	1266.0	1197.3	1136.9	1145.2	1134.8	1114.0	1155.6	1195.2	1199.4
55°	8345.5	3073.3	1197.3	1136.9	1066.1	1099.4	1103.6	1084.8	1111.9	1139.0	1139.0
57.5°	8355.9	3133.7	1130.6	1080.7	1003.6	1047.4	1070.3	1061.9	1061.9	1082.7	1084.8
60°	8424.6	3221.2	1086.9	1009.9	941.2	987.0	1039.0	1030.7	1012.0	1039.0	1039.0
62.5°	8226.8	3104.6	1057.8	941.2	874.5	928.7	991.1	987.0	966.1	1009.9	1014.0
65°	7643.8	2792.2	1024.4	855.8	807.9	870.4	924.5	939.1	920.3	978.6	989.0
67.5°	6407.0	2348.7	959.9	774.6	741.3	799.6	851.6	872.4	857.9	926.6	934.9
70°	4776.6	1901.1	857.9	685.0	660.1	712.1	760.0	768.3	770.4	851.6	860.0
72.5°	3046.3	1478.4	722.5	585.1	566.4	605.9	641.3	674.6	689.2	766.3	764.2
75°	1699.1	1099.4	580.9	495.6	462.3	493.5	535.1	574.7	616.3	728.8	741.3
77.5°	978.6	772.5	460.2	397.7	358.1	391.5	426.9	483.1	608.0	705.9	693.4
80°	551.8	501.8	347.7	291.5	266.5	291.5	318.6	424.8	478.9	520.6	526.8
82.5°	258.2	281.1	237.4	179.1	179.1	195.7	220.7	329.0	362.3	295.7	258.2
85°	93.7	127.0	116.6	91.6	81.2	79.1	137.4	187.4	116.6	104.1	89.5
87.5°	25.0	35.4	33.3	22.9	12.5	10.4	0.0	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)