

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: P631848

Luminaire Tested: GWS-SA2B-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7015.7 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

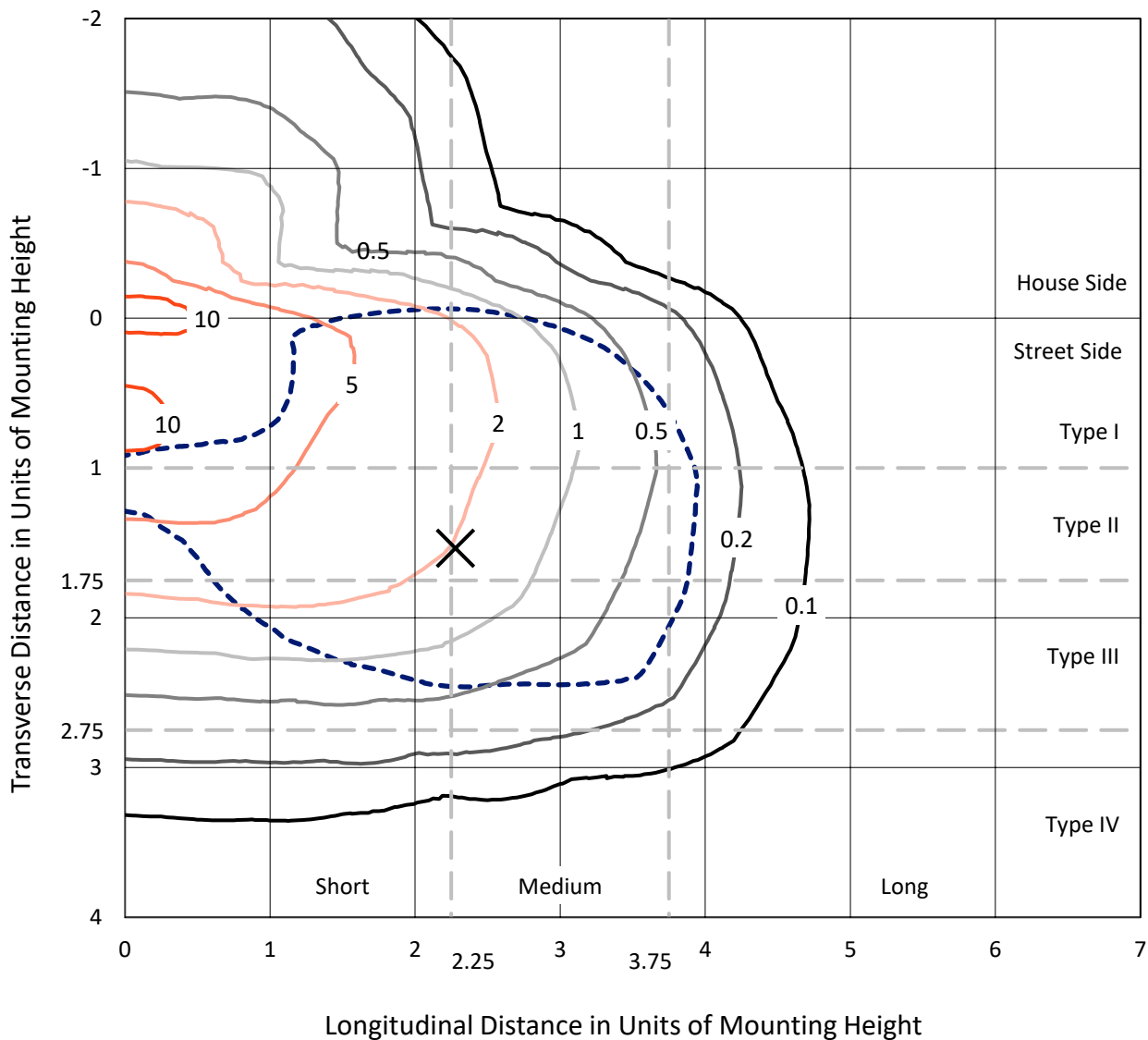
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

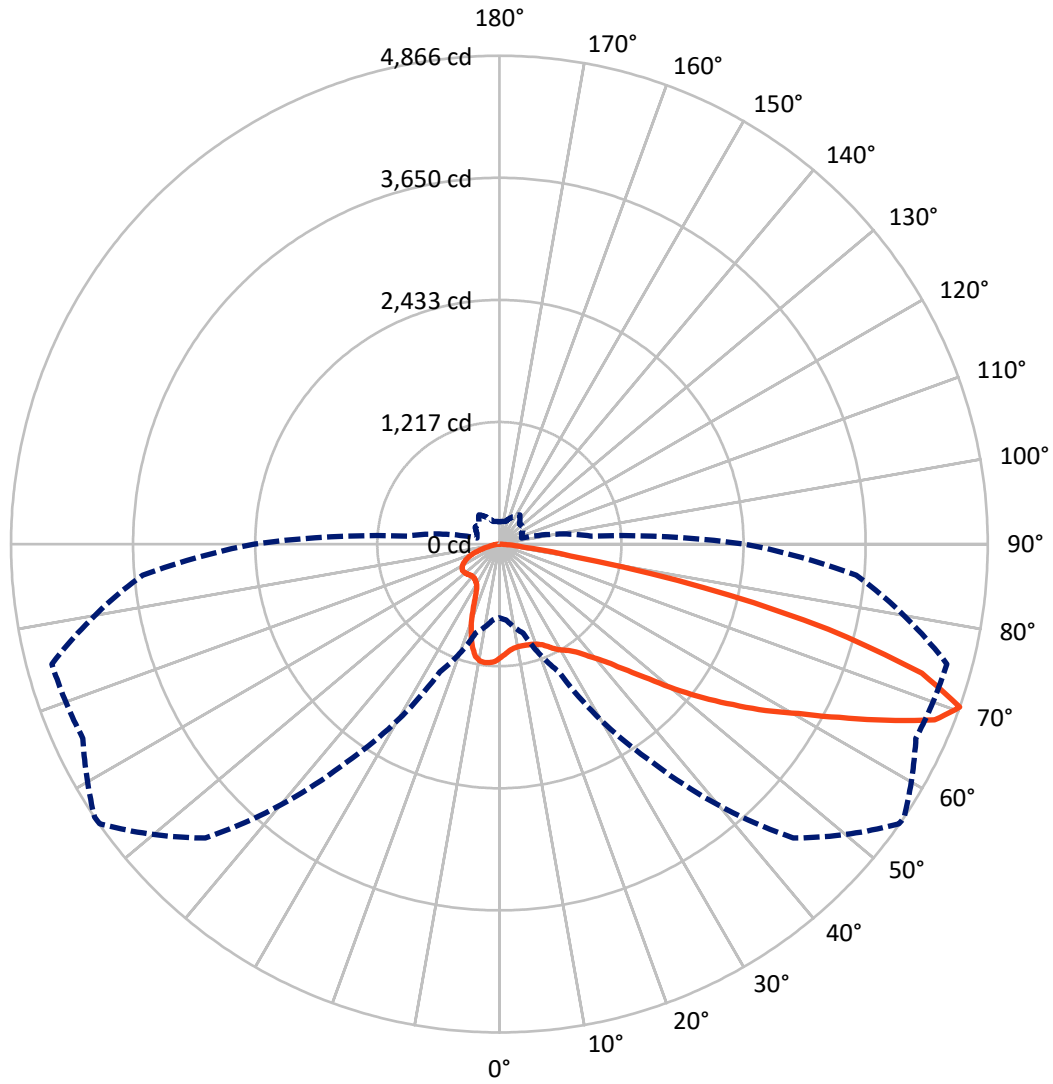
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.8	0.0	1348.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	5666.9	0.0	5666.9
	% Fixture	80.8	0.0	80.8
Total	Lumens	7015.7	0.0	7015.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.5
10°-20°	283.9	4.0
20°-30°	469.4	6.7
30°-40°	701.9	10.0
40°-50°	1044.5	14.9
50°-60°	1485.0	21.2
60°-70°	1839.2	26.2
70°-80°	1015.5	14.5
80°-90°	71.5	1.0
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°	7015.7	100.0
0°-180°	7015.7	100.0

Coefficient of Utilization



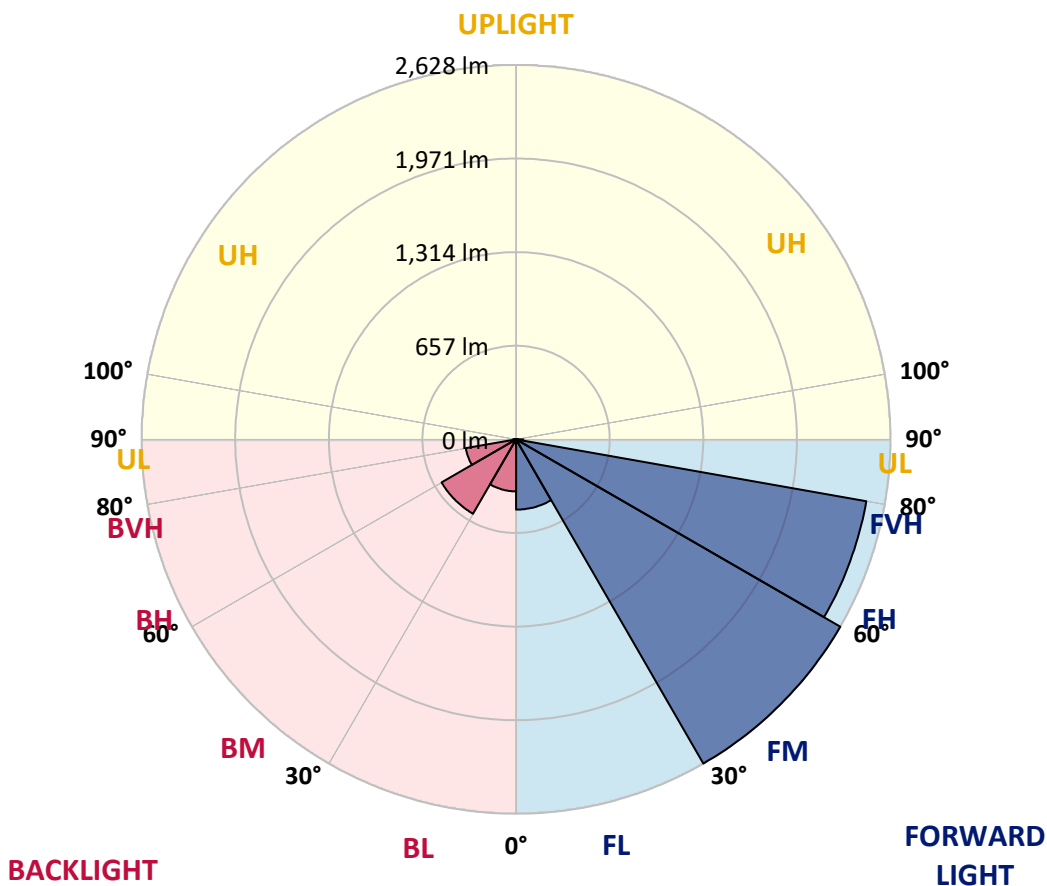
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.1	7.0			
FM (30°-60°)	2628.0	37.5			
FH (60°-80°)	2496.2	35.6			G2/5000
FVH (80°-90°)	49.7	0.7			G1/100
BL (0°-30°)	365.1	5.2	B1/500		
BM (30°-60°)	603.3	8.6	B1/1000		
BH (60°-80°)	358.5	5.1	B1/500		G1/500
BVH (80°-90°)	21.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1059.7	1053.8	1060.7	1064.2	1073.1	1085.9	1097.3	1097.8	1103.7	1118.1	1131.9
5°	1011.7	1008.8	1010.7	1021.1	1030.5	1046.9	1064.2	1065.7	1082.5	1110.7	1138.4
7.5°	974.6	970.7	978.1	991.4	1003.3	1021.6	1044.4	1046.4	1070.1	1112.7	1155.2
10°	921.2	918.2	932.1	949.9	975.6	1005.8	1036.0	1038.4	1069.6	1125.5	1184.9
12.5°	897.9	897.9	903.9	920.7	948.9	989.0	1034.5	1038.4	1077.5	1145.3	1223.0
15°	934.1	936.5	931.6	930.6	942.0	980.1	1036.5	1042.4	1092.4	1165.6	1260.6
17.5°	1006.8	1009.3	996.4	976.1	964.7	988.5	1043.9	1050.3	1108.2	1187.9	1301.1
20°	1108.7	1111.7	1083.5	1052.3	1013.2	1012.7	1058.2	1064.2	1128.5	1212.1	1344.2
22.5°	1227.9	1229.9	1194.3	1144.8	1084.9	1057.7	1083.0	1088.9	1154.7	1245.7	1390.7
25°	1366.0	1371.9	1328.9	1257.1	1176.0	1119.6	1124.0	1131.0	1201.7	1290.8	1445.6
27.5°	1513.4	1520.8	1471.3	1392.2	1280.4	1187.9	1177.0	1182.9	1251.7	1318.5	1474.8
30°	1664.3	1669.7	1620.2	1529.7	1392.7	1265.0	1221.5	1225.0	1273.4	1331.8	1504.5
32.5°	1832.0	1827.5	1780.0	1675.7	1522.3	1357.5	1263.1	1262.1	1297.7	1358.5	1547.0
35°	1989.3	1995.7	1945.3	1830.0	1664.8	1471.8	1325.4	1321.4	1349.1	1402.1	1606.9
37.5°	2179.8	2177.8	2117.5	1992.8	1807.8	1581.2	1413.0	1406.0	1415.9	1469.8	1690.5
40°	2315.8	2329.7	2290.6	2174.3	1975.0	1715.7	1515.4	1500.0	1502.5	1553.5	1802.3
42.5°	2427.2	2440.0	2444.0	2369.8	2166.4	1882.0	1643.0	1627.7	1629.2	1701.4	1939.8
45°	2512.7	2530.1	2586.0	2564.2	2382.1	2073.9	1815.7	1799.8	1800.8	1881.0	2106.1
47.5°	2547.9	2566.7	2680.0	2731.9	2611.2	2303.5	2030.4	2007.1	2010.6	2099.1	2296.1
50°	2536.5	2561.7	2715.1	2861.0	2803.2	2537.0	2287.1	2270.8	2257.5	2386.1	2502.4
52.5°	2438.5	2466.2	2711.6	2943.2	2960.0	2757.6	2552.3	2542.9	2540.0	2690.8	2732.9
55°	2150.1	2196.6	2592.4	2964.9	3082.7	2965.4	2839.8	2823.9	2839.3	3017.4	2965.9
57.5°	1990.3	2024.9	2358.9	2940.7	3183.1	3163.3	3126.7	3128.2	3145.5	3372.1	3248.4
60°	1899.3	1939.8	2229.3	2874.4	3279.6	3403.8	3427.0	3427.0	3458.2	3754.5	3535.4
62.5°	1778.6	1819.6	2108.1	2746.8	3368.6	3686.7	3804.5	3803.0	3815.4	4164.7	3815.9
65°	1533.7	1571.8	1864.6	2545.4	3412.2	3998.4	4233.4	4229.0	4204.2	4529.8	4001.4
67.5°	1113.6	1149.8	1428.3	2162.5	3255.3	4249.7	4675.2	4677.2	4529.3	4759.8	4011.3
70°	734.2	758.9	918.2	1404.5	2647.3	4141.4	4860.2	4866.2	4579.2	4616.3	3570.0
72.5°	458.1	475.4	573.4	837.6	1564.3	3278.1	4385.3	4401.6	4119.6	4056.8	2933.3
75°	304.3	316.1	381.4	488.3	723.8	1774.1	3333.5	3385.9	3301.8	3180.1	2043.7
77.5°	183.1	192.9	242.9	310.2	320.6	693.1	1945.8	2081.3	2093.2	1660.3	855.9
80°	83.6	95.0	134.1	177.1	170.7	241.4	686.2	717.9	847.0	527.4	270.1
82.5°	49.5	54.4	89.1	88.1	72.7	117.3	246.9	253.3	215.2	192.9	115.3
85°	19.8	23.3	37.6	33.1	26.7	38.1	93.0	97.5	93.5	84.1	42.5
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	8.4	8.9	12.9	23.3	12.9
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°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1140.9	1137.9	1152.7	1164.1	1169.1	1174.0	1169.5	1168.1	1168.1	1158.2	1153.2
5°	1153.2	1154.7	1175.0	1184.4	1184.4	1180.4	1168.6	1160.1	1157.2	1144.3	1140.9
7.5°	1176.5	1182.9	1201.7	1201.2	1187.4	1165.6	1135.9	1113.1	1092.4	1083.5	1078.0
10°	1214.6	1223.0	1235.8	1215.1	1176.5	1119.1	1056.3	1006.8	977.1	953.3	953.3
12.5°	1258.1	1266.0	1263.5	1215.6	1135.9	1028.5	938.0	881.1	839.6	817.8	817.8
15°	1301.6	1308.1	1281.4	1192.8	1051.3	908.3	809.4	741.1	705.0	684.7	684.7
17.5°	1345.7	1345.2	1288.8	1140.4	941.0	775.2	678.3	625.3	613.0	609.5	609.0
20°	1388.2	1376.8	1279.4	1052.8	812.8	641.2	579.8	583.3	601.6	609.5	610.5
22.5°	1436.2	1408.0	1251.7	941.0	667.4	548.2	552.1	580.8	607.5	619.4	620.9
25°	1485.2	1434.7	1205.2	809.9	545.7	514.0	544.7	576.9	607.0	622.4	623.9
27.5°	1505.0	1434.7	1126.0	658.0	480.9	499.7	533.3	564.5	596.2	614.0	617.4
30°	1521.3	1422.4	1015.2	521.0	454.2	485.8	515.0	543.7	574.9	596.6	600.6
32.5°	1544.1	1411.5	881.1	437.8	441.8	472.5	492.8	517.0	545.2	559.5	558.1
35°	1570.8	1394.6	719.3	398.3	431.4	461.1	475.4	489.8	476.9	476.4	477.9
37.5°	1608.9	1379.8	578.3	380.4	424.5	453.2	465.0	434.4	416.6	409.1	406.2
40°	1663.8	1373.9	456.1	370.1	423.5	452.7	444.3	396.8	372.5	346.8	346.3
42.5°	1733.0	1369.4	377.0	365.1	427.0	464.1	415.6	372.0	322.1	310.7	309.7
45°	1822.1	1362.5	337.4	364.1	435.4	473.0	412.6	337.9	303.8	298.8	298.8
47.5°	1929.5	1351.6	319.6	364.1	444.8	469.0	403.7	330.5	295.4	300.8	304.3
50°	2052.6	1337.8	310.2	363.1	454.2	469.0	384.9	329.0	293.4	321.6	333.0
52.5°	2184.2	1321.9	303.8	359.2	460.6	469.5	385.9	333.9	295.4	326.5	335.9
55°	2329.7	1319.5	294.9	350.8	462.6	456.6	388.4	344.8	298.3	295.8	296.3
57.5°	2513.2	1349.1	288.4	338.4	454.7	430.4	393.3	352.7	294.9	295.4	298.8
60°	2705.2	1405.0	293.9	326.5	438.3	405.7	396.8	348.8	278.0	270.1	271.1
62.5°	2868.5	1447.6	298.3	321.1	414.6	383.9	393.3	339.9	268.6	266.7	271.1
65°	2936.7	1412.5	287.4	309.7	380.0	357.2	385.9	328.5	260.7	253.3	253.8
67.5°	2861.0	1247.7	266.2	284.5	340.9	323.1	374.0	313.7	249.8	240.9	239.0
70°	2444.0	916.7	229.6	244.4	293.4	283.0	355.7	294.4	232.5	226.1	221.6
72.5°	1969.5	649.1	190.5	194.4	230.1	238.5	324.0	270.1	212.7	194.4	188.0
75°	1370.9	407.7	158.8	154.9	166.2	182.1	252.8	224.1	183.5	164.3	158.3
77.5°	589.7	209.3	124.2	122.2	110.8	126.2	193.9	187.0	153.9	131.6	128.1
80°	197.4	121.2	89.5	86.1	73.7	88.6	136.5	149.4	120.7	97.5	91.5
82.5°	98.9	70.3	56.9	51.5	49.5	55.9	80.6	93.0	83.6	67.3	56.9
85°	48.5	40.1	31.2	30.7	25.7	24.2	33.6	39.6	37.6	27.7	26.2
87.5°	17.8	15.8	9.9	7.9	4.9	3.5	2.0	2.0	1.5	1.5	1.5
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)