

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: P632563

Luminaire Tested: GWS-SA2C-830-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632563
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-SA2C-830-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7474.3 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

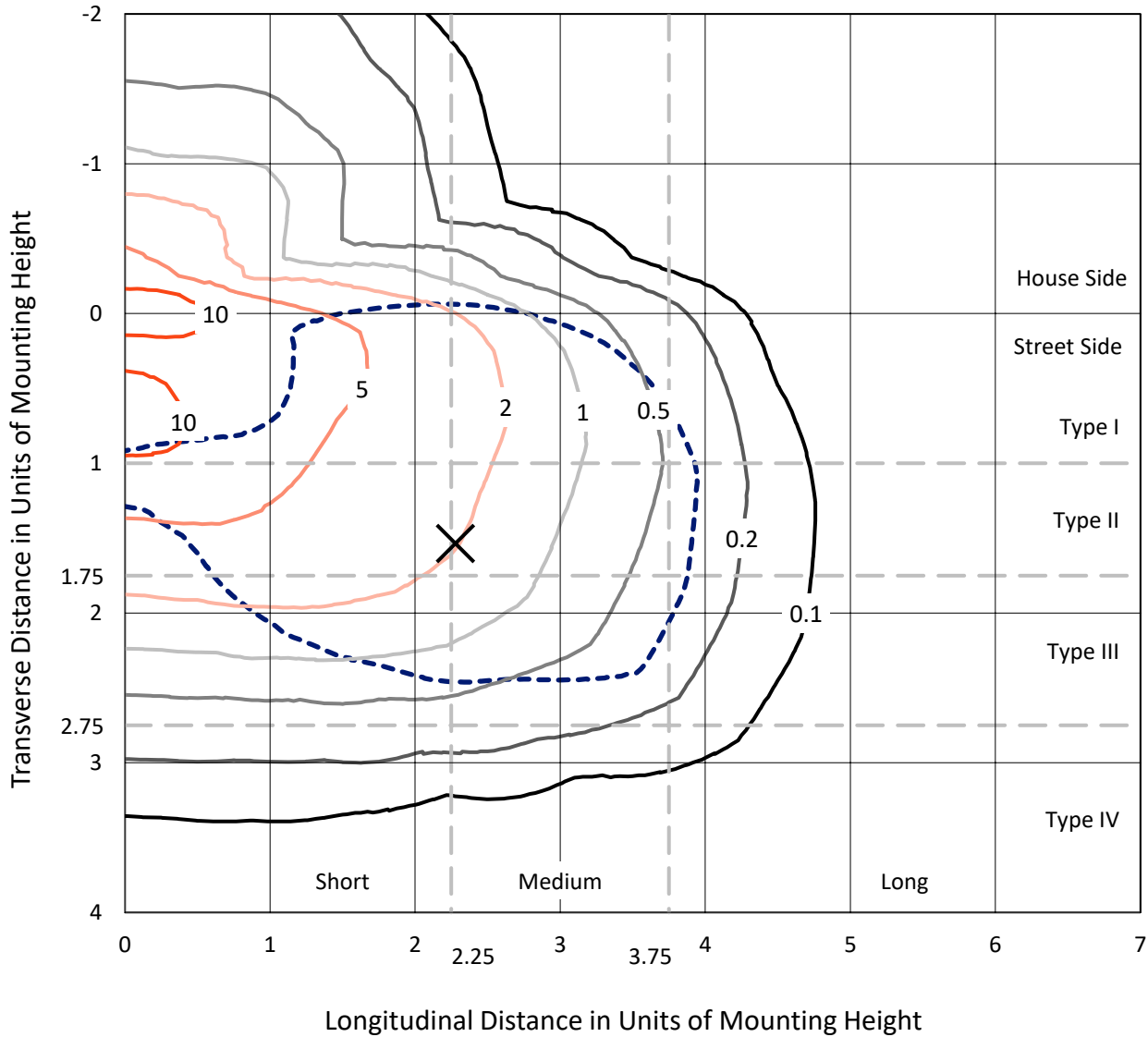
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

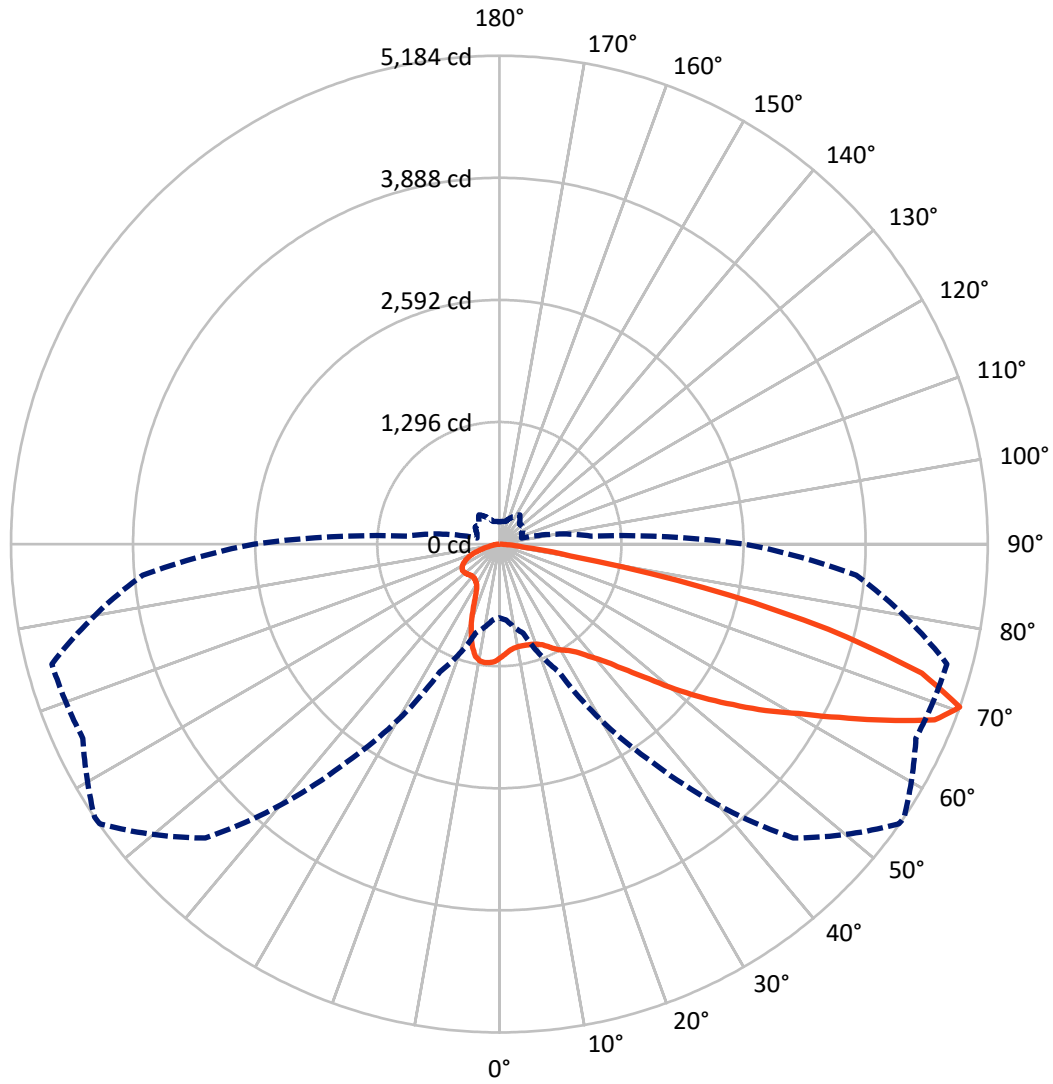
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 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	1437.0	0.0	1437.0
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	6037.4	0.0	6037.4
	% Fixture	80.8	0.0	80.8
Total	Lumens	7474.3	0.0	7474.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	1.5
10°-20°	302.5	4.0
20°-30°	500.1	6.7
30°-40°	747.8	10.0
40°-50°	1112.8	14.9
50°-60°	1582.0	21.2
60°-70°	1959.4	26.2
70°-80°	1081.9	14.5
80°-90°	76.2	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°	7474.3	100.0
0°-180°	7474.3	100.0

Coefficient of Utilization



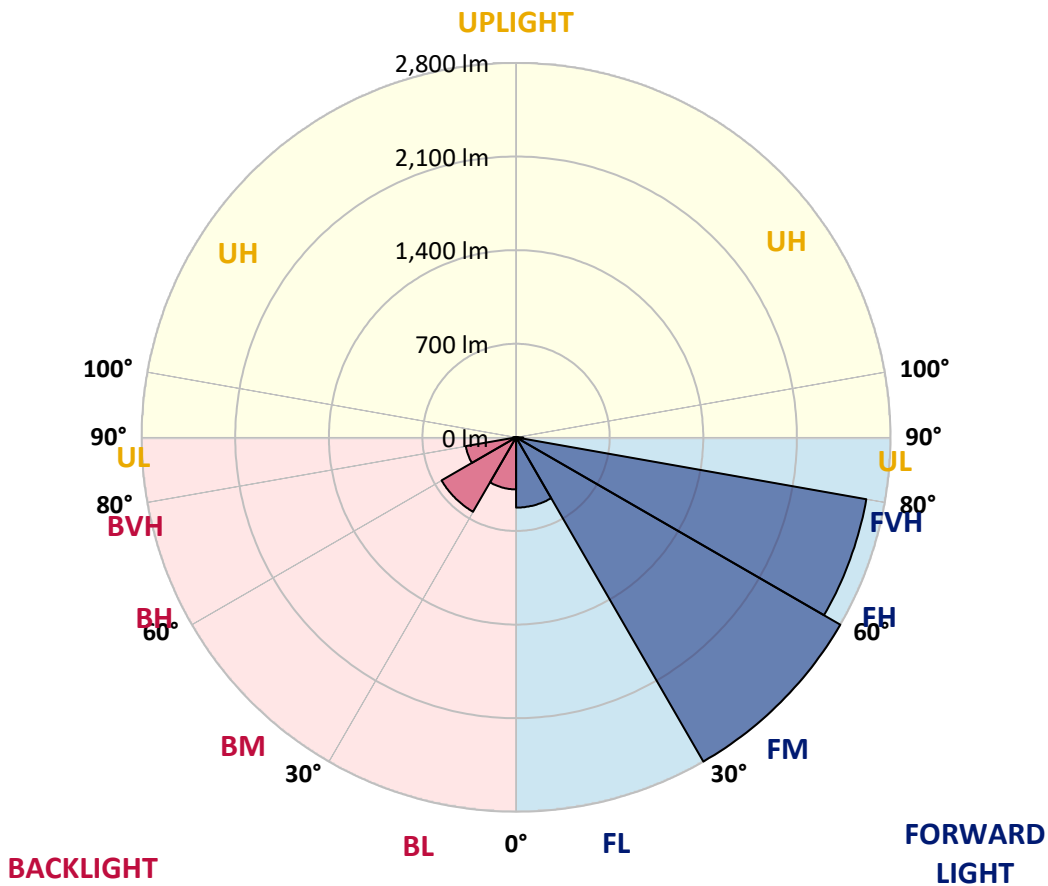
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	525.3	7.0			
FM (30°-60°)	2799.8	37.5			
FH (60°-80°)	2659.4	35.6			G2/5000
FVH (80°-90°)	53.0	0.7			G1/100
BL (0°-30°)	389.0	5.2	B1/500		
BM (30°-60°)	642.8	8.6	B1/1000		
BH (60°-80°)	381.9	5.1	B1/500		G1/500
BVH (80°-90°)	23.2	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°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1129.0	1122.7	1130.0	1133.7	1143.2	1156.9	1169.0	1169.6	1175.9	1191.2	1205.9
5°	1077.9	1074.7	1076.8	1087.9	1097.9	1115.3	1133.7	1135.3	1153.2	1183.3	1212.8
7.5°	1038.3	1034.1	1042.0	1056.3	1068.9	1088.4	1112.6	1114.8	1140.1	1185.4	1230.7
10°	981.4	978.2	993.0	1012.0	1039.4	1071.5	1103.7	1106.3	1139.5	1199.1	1262.3
12.5°	956.6	956.6	963.0	980.9	1010.9	1053.6	1102.1	1106.3	1148.0	1220.2	1302.9
15°	995.1	997.7	992.5	991.4	1003.5	1044.1	1104.2	1110.5	1163.8	1241.8	1343.0
17.5°	1072.6	1075.2	1061.5	1039.9	1027.8	1053.1	1112.1	1119.0	1180.6	1265.5	1386.2
20°	1181.2	1184.3	1154.3	1121.1	1079.4	1078.9	1127.4	1133.7	1202.3	1291.3	1432.1
22.5°	1308.2	1310.3	1272.4	1219.6	1155.9	1126.9	1153.8	1160.1	1230.2	1327.2	1481.6
25°	1455.2	1461.6	1415.7	1339.3	1252.8	1192.8	1197.5	1204.9	1280.3	1375.1	1540.1
27.5°	1612.3	1620.2	1567.5	1483.2	1364.1	1265.5	1253.9	1260.2	1333.5	1404.6	1571.2
30°	1773.1	1778.9	1726.2	1629.7	1483.7	1347.7	1301.3	1305.0	1356.7	1418.9	1602.8
32.5°	1951.7	1947.0	1896.4	1785.2	1621.8	1446.3	1345.6	1344.6	1382.5	1447.3	1648.2
35°	2119.4	2126.2	2072.4	1949.6	1773.6	1568.0	1412.0	1407.8	1437.3	1493.7	1711.9
37.5°	2322.3	2320.2	2255.9	2123.0	1925.9	1684.5	1505.3	1497.9	1508.5	1565.9	1801.0
40°	2467.2	2482.0	2440.3	2316.5	2104.1	1827.9	1614.4	1598.1	1600.7	1655.0	1920.1
42.5°	2585.8	2599.5	2603.7	2524.7	2308.0	2005.0	1750.4	1734.1	1735.6	1812.6	2066.6
45°	2677.0	2695.4	2755.0	2731.8	2537.8	2209.5	1934.4	1917.5	1918.5	2003.9	2243.7
47.5°	2714.4	2734.4	2855.1	2910.5	2781.9	2454.0	2163.1	2138.3	2142.0	2236.4	2446.1
50°	2702.3	2729.2	2892.6	3048.1	2986.4	2702.8	2436.7	2419.3	2405.0	2542.1	2665.9
52.5°	2597.9	2627.5	2888.9	3135.5	3153.5	2937.9	2719.2	2709.1	2706.0	2866.7	2911.5
55°	2290.7	2340.2	2761.9	3158.7	3284.2	3159.3	3025.4	3008.5	3024.9	3214.6	3159.8
57.5°	2120.4	2157.3	2513.1	3132.9	3391.2	3370.1	3331.1	3332.7	3351.1	3592.5	3460.8
60°	2023.4	2066.6	2375.0	3062.3	3494.0	3626.3	3651.0	3651.0	3684.2	3999.9	3766.5
62.5°	1894.8	1938.6	2245.9	2926.3	3588.8	3927.7	4053.2	4051.6	4064.8	4436.9	4065.3
65°	1633.9	1674.5	1986.5	2711.8	3635.2	4259.8	4510.2	4505.4	4479.1	4825.9	4263.0
67.5°	1186.4	1224.9	1521.7	2303.8	3468.1	4527.5	4980.8	4982.9	4825.3	5071.0	4273.5
70°	782.2	808.5	978.2	1496.4	2820.4	4412.1	5178.0	5184.3	4878.6	4918.1	3803.3
72.5°	488.1	506.5	610.9	892.3	1666.6	3492.4	4672.0	4689.4	4388.9	4322.0	3125.0
75°	324.1	336.8	406.4	520.2	771.1	1890.1	3551.4	3607.3	3517.7	3388.0	2177.3
77.5°	195.0	205.6	258.8	330.5	341.5	738.4	2073.0	2217.4	2230.0	1768.9	911.8
80°	89.1	101.2	142.8	188.7	181.8	257.2	731.0	764.8	902.3	561.9	287.8
82.5°	52.7	58.0	94.9	93.8	77.5	124.9	263.0	269.9	229.3	205.6	122.8
85°	21.1	24.8	40.1	35.3	28.5	40.6	99.1	103.8	99.6	89.6	45.3
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	9.0	9.5	13.7	24.8	13.7
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°	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5	1206.5
2.5°	1215.4	1212.3	1228.1	1240.2	1245.5	1250.7	1246.0	1244.4	1244.4	1233.9	1228.6
5°	1228.6	1230.2	1251.8	1261.8	1261.8	1257.6	1244.9	1236.0	1232.8	1219.1	1215.4
7.5°	1253.4	1260.2	1280.3	1279.7	1265.0	1241.8	1210.2	1185.9	1163.8	1154.3	1148.5
10°	1294.0	1302.9	1316.6	1294.5	1253.4	1192.2	1125.3	1072.6	1041.0	1015.7	1015.7
12.5°	1340.3	1348.8	1346.1	1295.0	1210.2	1095.8	999.3	938.7	894.4	871.2	871.2
15°	1386.7	1393.6	1365.1	1270.8	1120.0	967.7	862.3	789.6	751.1	729.5	729.5
17.5°	1433.6	1433.1	1373.0	1214.9	1002.5	825.9	722.6	666.2	653.0	649.4	648.8
20°	1479.0	1466.8	1363.0	1121.6	866.0	683.1	617.7	621.4	640.9	649.4	650.4
22.5°	1530.1	1500.0	1333.5	1002.5	711.0	584.0	588.2	618.8	647.2	659.9	661.5
25°	1582.3	1528.5	1283.9	862.8	581.4	547.6	580.3	614.6	646.7	663.1	664.6
27.5°	1603.4	1528.5	1199.6	701.0	512.3	532.3	568.2	601.4	635.1	654.1	657.8
30°	1620.7	1515.3	1081.6	555.0	483.9	517.6	548.7	579.3	612.5	635.6	639.9
32.5°	1645.0	1503.7	938.7	466.5	470.7	503.4	525.0	550.8	580.8	596.1	594.5
35°	1673.5	1485.8	766.4	424.3	459.6	491.2	506.5	521.8	508.1	507.6	509.2
37.5°	1714.0	1470.0	616.1	405.3	452.2	482.8	495.4	462.8	443.8	435.9	432.7
40°	1772.5	1463.7	486.0	394.2	451.2	482.3	473.3	422.7	396.9	369.5	369.0
42.5°	1846.3	1458.9	401.6	389.0	454.9	494.4	442.7	396.4	343.1	331.0	329.9
45°	1941.2	1451.6	359.5	387.9	463.8	503.9	439.6	360.0	323.6	318.4	318.4
47.5°	2055.6	1440.0	340.5	387.9	473.8	499.7	430.1	352.1	314.7	320.5	324.1
50°	2186.8	1425.2	330.5	386.9	483.9	499.7	410.1	350.5	312.6	342.6	354.7
52.5°	2327.0	1408.3	323.6	382.7	490.7	500.2	411.1	355.8	314.7	347.9	357.9
55°	2482.0	1405.7	314.1	373.7	492.8	486.5	413.8	367.4	317.8	315.2	315.7
57.5°	2677.5	1437.3	307.3	360.5	484.4	458.6	419.0	375.8	314.1	314.7	318.4
60°	2882.0	1496.9	313.1	347.9	467.0	432.2	422.7	371.6	296.2	287.8	288.8
62.5°	3056.0	1542.2	317.8	342.1	441.7	409.0	419.0	362.1	286.2	284.1	288.8
65°	3128.7	1504.8	306.2	329.9	404.8	380.5	411.1	350.0	277.8	269.9	270.4
67.5°	3048.1	1329.3	283.6	303.1	363.2	344.2	398.5	334.2	266.2	256.7	254.6
70°	2603.7	976.7	244.6	260.4	312.6	301.5	379.0	313.6	247.7	240.9	236.1
72.5°	2098.3	691.5	202.9	207.1	245.1	254.0	345.2	287.8	226.6	207.1	200.3
75°	1460.5	434.3	169.2	165.0	177.1	194.0	269.3	238.8	195.5	175.0	168.7
77.5°	628.3	223.0	132.3	130.2	118.1	134.4	206.6	199.2	163.9	140.2	136.5
80°	210.3	129.1	95.4	91.7	78.5	94.3	145.5	159.2	128.6	103.8	97.5
82.5°	105.4	74.8	60.6	54.8	52.7	59.6	85.9	99.1	89.1	71.7	60.6
85°	51.7	42.7	33.2	32.7	27.4	25.8	35.8	42.2	40.1	29.5	27.9
87.5°	19.0	16.9	10.5	8.4	5.3	3.7	2.1	2.1	1.6	1.6	1.6
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)