

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: P630490

Luminaire Tested: GWS-SA1D-827-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630490
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-SA1D-827-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 2700K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

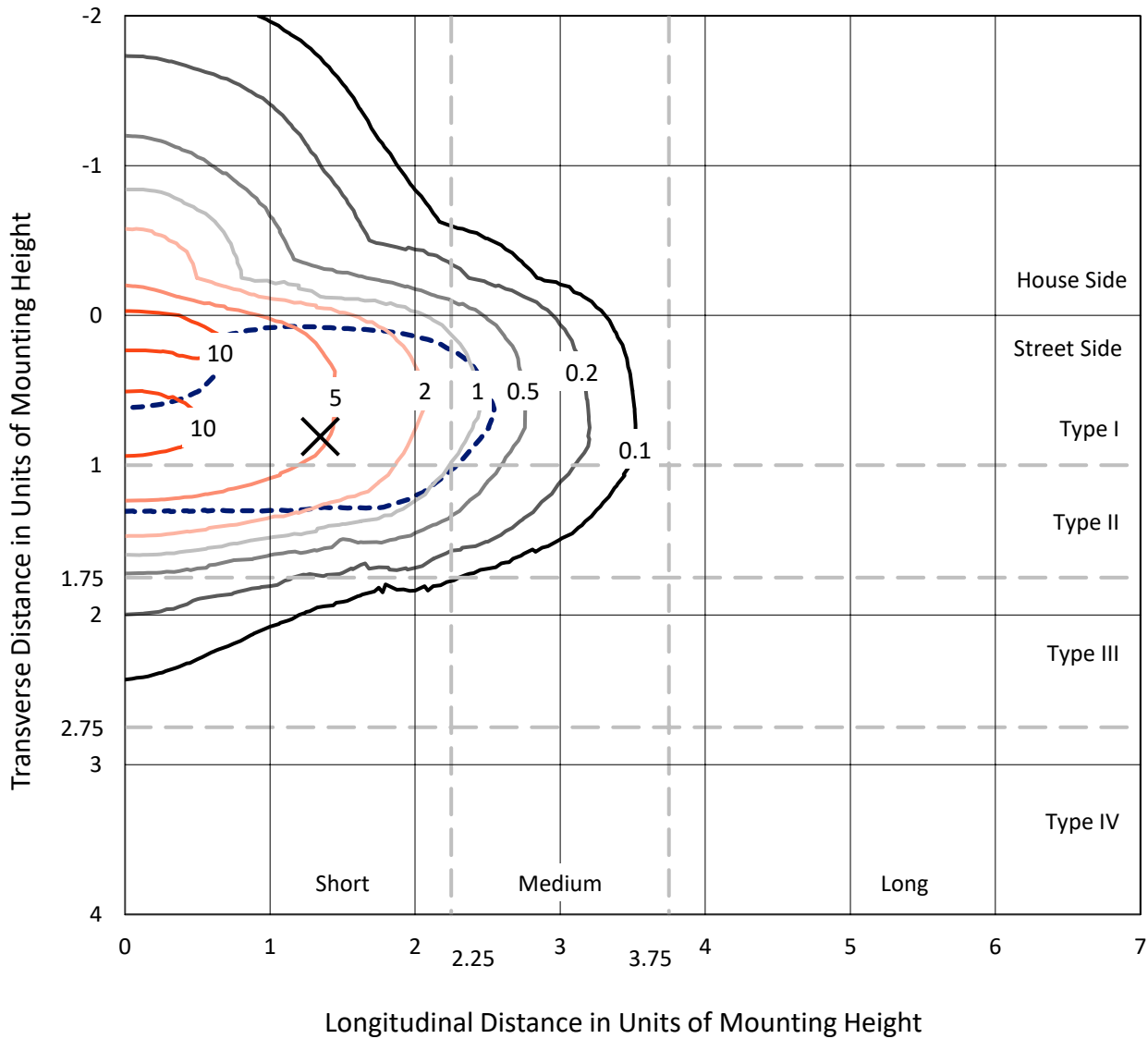
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630490
 CATALOG NUMBER: GWS-SA1D-827-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

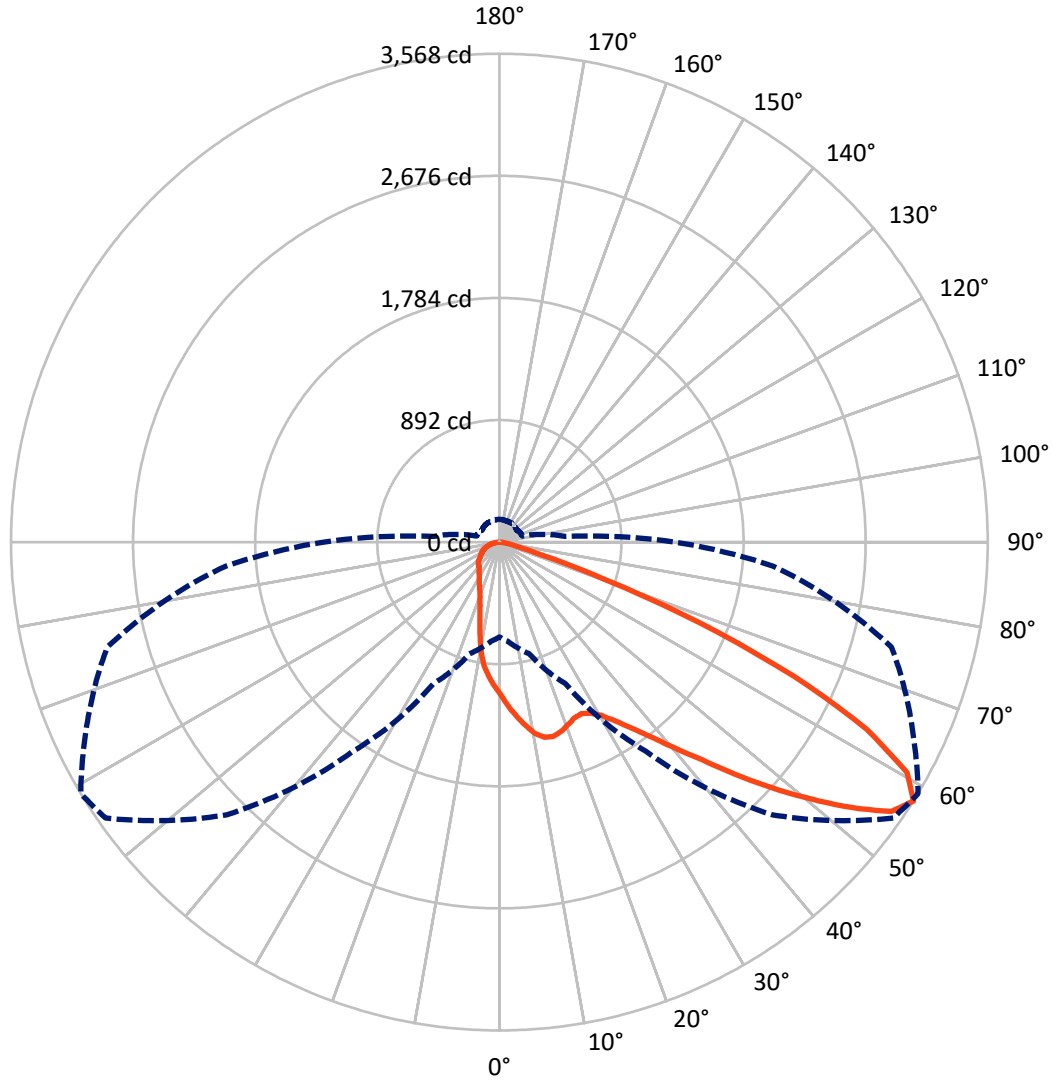
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

REPORT NUMBER: P630490
CATALOG NUMBER: GWS-SA1D-827-U-AFL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P630490

CATALOG NUMBER: GWS-SA1D-827-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	704.5	0.0	704.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3834.7	0.0	3834.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	4539.2	0.0	4539.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.5	2.3
10°-20°	262.2	5.8
20°-30°	425.0	9.4
30°-40°	683.6	15.1
40°-50°	1061.6	23.4
50°-60°	1143.5	25.2
60°-70°	663.7	14.6
70°-80°	173.3	3.8
80°-90°	22.8	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°	4539.2	100.0
0°-180°	4539.2	100.0

Coefficient of Utilization



REPORT NUMBER: P630490

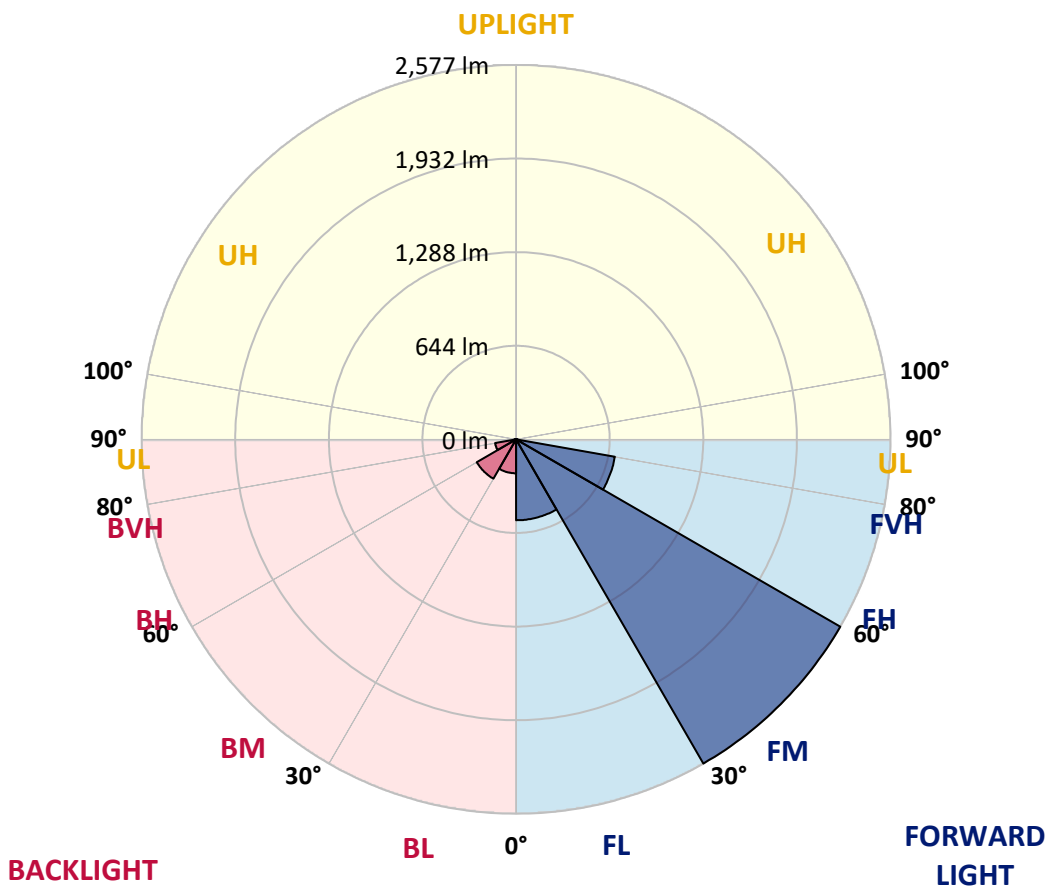
CATALOG NUMBER: GWS-SA1D-827-U-AFL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.9	12.3			
FM (30°-60°)	2576.5	56.8			
FH (60°-80°)	690.4	15.2			G1/1800
FVH (80°-90°)	10.9	0.2			G1/100
BL (0°-30°)	233.7	5.1	B1/500		
BM (30°-60°)	312.3	6.9	B1/1000		
BH (60°-80°)	146.5	3.2	B1/500		G1/500
BVH (80°-90°)	11.9	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-G1

Type II Short





REPORT NUMBER: P630490

CATALOG NUMBER: GWS-SA1D-827-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1263.8	1253.3	1260.6	1247.5	1242.1	1227.7	1209.2	1196.7	1177.6	1152.6	1130.9
5°	1389.4	1382.1	1383.7	1369.6	1357.1	1333.2	1295.2	1274.1	1241.5	1191.3	1144.6
7.5°	1385.6	1394.2	1399.0	1411.1	1414.7	1412.4	1378.2	1348.8	1313.0	1237.6	1167.3
10°	1242.1	1258.4	1273.1	1314.6	1365.1	1429.0	1437.0	1419.5	1383.3	1296.7	1194.5
12.5°	1085.8	1098.3	1111.4	1161.3	1238.6	1366.4	1453.0	1463.9	1449.5	1355.2	1225.2
15°	1009.1	1014.9	1027.4	1060.3	1122.0	1263.8	1425.2	1472.8	1498.7	1417.2	1259.7
17.5°	1006.0	1008.5	1014.6	1032.2	1075.0	1184.6	1375.0	1454.9	1537.4	1482.7	1299.9
20°	1072.1	1065.4	1061.6	1061.2	1082.3	1158.1	1326.5	1426.2	1555.6	1549.8	1343.1
22.5°	1163.8	1166.1	1157.7	1137.3	1134.7	1176.9	1302.2	1397.1	1561.0	1609.3	1383.0
25°	1293.9	1305.1	1280.5	1241.5	1222.3	1231.6	1317.2	1388.1	1560.4	1658.8	1408.0
27.5°	1445.7	1454.3	1429.4	1378.2	1338.6	1316.2	1361.9	1414.7	1565.8	1701.6	1423.0
30°	1618.5	1621.4	1587.2	1533.5	1475.7	1427.8	1436.4	1469.3	1593.6	1757.9	1440.5
32.5°	1829.8	1841.9	1790.1	1705.1	1624.3	1562.9	1536.4	1557.5	1653.7	1824.3	1467.7
35°	2097.9	2102.0	2036.2	1914.4	1800.0	1715.0	1659.4	1670.6	1745.1	1917.3	1508.6
37.5°	2350.6	2354.8	2284.8	2171.7	2008.1	1891.8	1811.2	1806.1	1862.0	2048.7	1575.4
40°	2511.1	2522.9	2491.6	2420.6	2264.4	2107.5	1998.2	1980.6	2015.4	2209.4	1668.4
42.5°	2597.3	2602.4	2601.8	2611.1	2518.1	2362.1	2209.1	2173.9	2197.2	2382.9	1762.3
45°	2598.0	2610.8	2644.9	2734.1	2738.3	2641.1	2475.6	2420.6	2399.2	2557.7	1860.4
47.5°	2481.7	2495.4	2589.3	2764.8	2894.2	2916.2	2794.8	2684.6	2594.5	2708.2	1941.0
50°	2129.5	2164.0	2343.0	2653.3	2924.9	3136.7	3099.3	2949.8	2768.0	2824.5	1991.5
52.5°	1823.7	1822.4	1932.7	2338.2	2796.7	3233.9	3394.0	3222.7	2939.6	2898.3	2004.2
55°	1335.4	1342.8	1455.6	1788.2	2454.8	3139.9	3556.0	3473.9	3136.4	2937.7	1999.1
57.5°	692.5	728.9	844.6	1141.1	1865.2	2816.5	3512.9	3567.5	3336.5	2965.5	2005.8
60°	349.9	342.9	384.4	544.8	1080.7	2199.8	3247.0	3421.1	3372.6	2987.2	2010.0
62.5°	233.6	231.7	220.2	252.4	441.6	1302.8	2768.0	3012.1	3121.7	2936.1	1956.9
65°	202.3	198.4	177.4	176.1	214.4	540.4	2028.8	2367.9	2580.1	2708.9	1830.1
67.5°	182.1	176.4	155.0	144.4	154.0	237.4	1143.4	1588.2	1905.2	2290.9	1552.1
70°	162.7	159.8	138.4	123.0	122.1	144.8	421.2	819.7	1165.7	1562.9	1134.7
72.5°	145.7	140.6	122.4	107.7	100.3	102.6	182.8	315.7	603.3	975.0	678.7
75°	126.2	122.4	106.4	91.7	82.8	75.1	111.5	146.0	275.1	463.4	320.5
77.5°	97.5	94.9	84.0	72.9	67.7	55.9	67.7	92.0	127.2	195.2	166.8
80°	56.6	58.2	62.6	56.9	49.9	39.9	44.1	53.0	76.4	105.8	94.6
82.5°	28.4	30.4	40.6	32.9	29.7	23.3	26.2	31.3	39.9	58.5	37.1
85°	2.2	2.2	7.3	8.3	10.2	8.3	10.5	12.8	18.2	23.3	12.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.6	2.9	5.4	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P630490
 CATALOG NUMBER: GWS-SA1D-827-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1116.2	1099.9	1080.4	1064.4	1039.8	1026.7	1010.1	989.7	981.3	977.5	975.3
5°	1118.4	1089.7	1048.1	1009.8	967.3	933.7	896.3	857.4	835.0	829.6	825.7
7.5°	1126.7	1086.5	1020.3	957.1	878.1	805.0	733.7	663.1	627.0	613.2	611.9
10°	1138.2	1085.2	992.2	887.1	753.8	638.1	554.7	499.5	476.1	468.5	465.9
12.5°	1152.6	1084.2	955.1	789.9	610.3	501.1	453.4	444.5	447.7	447.1	447.1
15°	1170.8	1085.5	910.4	680.0	493.7	434.9	435.9	446.4	456.3	457.9	457.9
17.5°	1190.7	1084.2	845.5	569.8	423.7	419.3	434.0	448.7	457.6	458.9	458.9
20°	1212.1	1078.2	763.7	465.9	393.1	409.3	425.3	436.8	442.3	443.5	443.5
22.5°	1224.8	1060.9	674.9	394.3	373.6	393.7	404.2	416.1	416.7	406.5	406.2
25°	1222.9	1028.6	573.6	348.3	352.8	370.4	383.8	375.5	365.2	359.5	358.5
27.5°	1210.8	980.1	470.4	313.5	328.2	348.0	343.8	336.8	334.3	327.9	327.2
30°	1195.4	920.3	377.7	286.3	302.6	320.8	314.4	313.8	311.2	304.2	304.2
32.5°	1180.7	858.6	307.7	266.2	286.3	287.6	296.5	297.2	295.9	283.8	282.5
35°	1176.6	797.0	260.4	250.2	270.3	269.7	282.5	282.2	260.1	243.2	242.9
37.5°	1189.1	734.3	232.3	237.1	248.3	256.6	266.8	248.3	240.9	230.7	230.1
40°	1215.6	676.5	217.9	229.4	234.2	246.4	230.4	231.7	229.8	222.1	221.1
42.5°	1250.7	627.3	209.9	226.9	226.2	229.4	211.9	217.0	219.9	214.1	213.1
45°	1284.6	584.5	205.8	217.3	220.5	202.0	198.4	203.2	207.7	205.5	204.5
47.5°	1309.5	547.4	203.6	204.2	213.1	192.7	186.9	189.2	194.6	195.6	195.2
50°	1317.2	515.8	201.0	193.3	191.4	183.4	178.9	178.3	184.7	189.2	189.8
52.5°	1302.5	487.6	194.3	183.7	174.5	175.8	174.2	171.0	177.4	183.4	184.1
55°	1280.8	471.7	183.7	174.5	163.6	168.7	169.4	166.5	170.6	174.8	174.8
57.5°	1282.4	480.9	173.5	165.8	154.0	160.7	164.3	163.0	163.0	166.2	166.5
60°	1292.9	494.3	166.8	155.0	144.4	151.5	159.5	158.2	155.3	159.5	159.5
62.5°	1262.6	476.5	162.3	144.4	134.2	142.5	152.1	151.5	148.3	155.0	155.6
65°	1173.1	428.5	157.2	131.3	124.0	133.6	141.9	144.1	141.2	150.2	151.8
67.5°	983.3	360.5	147.3	118.9	113.8	122.7	130.7	133.9	131.7	142.2	143.5
70°	733.1	291.8	131.7	105.1	101.3	109.3	116.6	117.9	118.2	130.7	132.0
72.5°	467.5	226.9	110.9	89.8	86.9	93.0	98.4	103.5	105.8	117.6	117.3
75°	260.8	168.7	89.2	76.1	70.9	75.7	82.1	88.2	94.6	111.8	113.8
77.5°	150.2	118.6	70.6	61.0	55.0	60.1	65.5	74.1	93.3	108.3	106.4
80°	84.7	77.0	53.4	44.7	40.9	44.7	48.9	65.2	73.5	79.9	80.8
82.5°	39.6	43.1	36.4	27.5	27.5	30.0	33.9	50.5	55.6	45.4	39.6
85°	14.4	19.5	17.9	14.1	12.5	12.1	21.1	28.8	17.9	16.0	13.7
87.5°	3.8	5.4	5.1	3.5	1.9	1.6	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)