

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: P632059

Luminaire Tested: GWS-SA2B-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

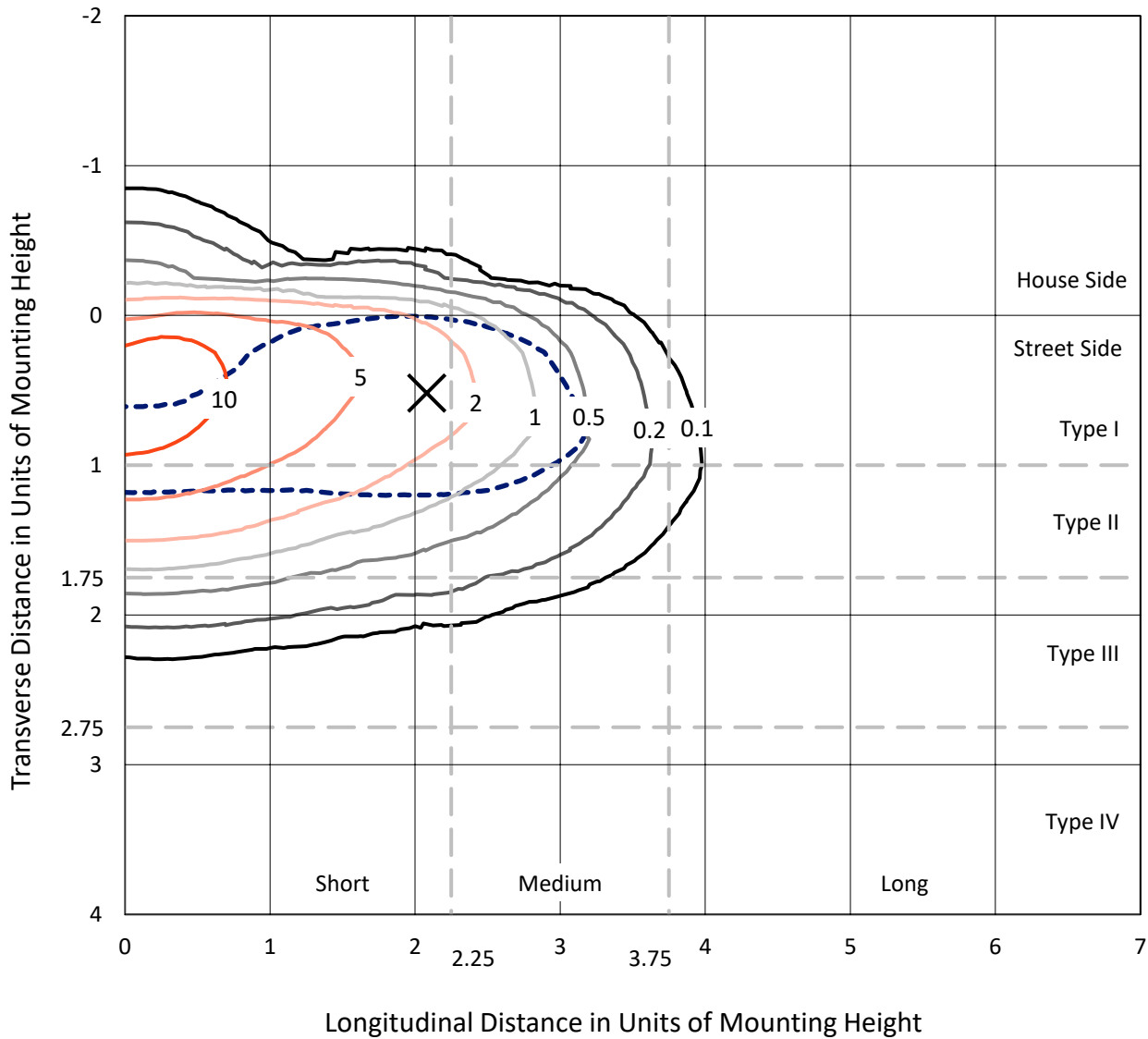
Lumens per Lamp: N/A  
Luminaire Lumens: 4421.3 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P632059  
 CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

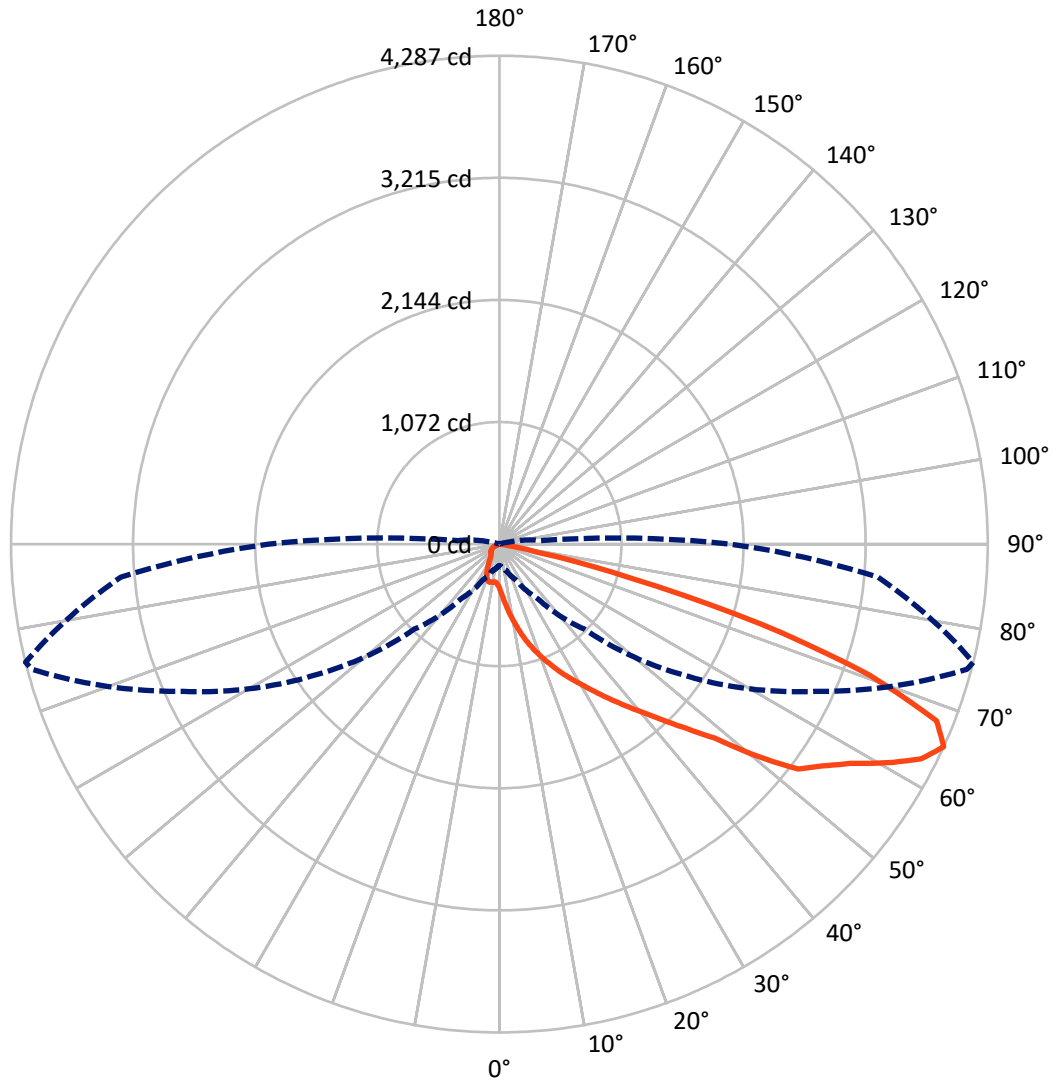
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P632059  
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P632059  
 CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	244.5	0.0	244.5
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	4176.8	0.0	4176.8
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	4421.3	0.0	4421.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.6	1.1
10°-20°	180.7	4.1
20°-30°	368.7	8.3
30°-40°	655.7	14.8
40°-50°	969.2	21.9
50°-60°	1109.7	25.1
60°-70°	846.6	19.1
70°-80°	237.2	5.4
80°-90°	6.0	0.1
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°	4421.3	100.0
0°-180°	4421.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632059

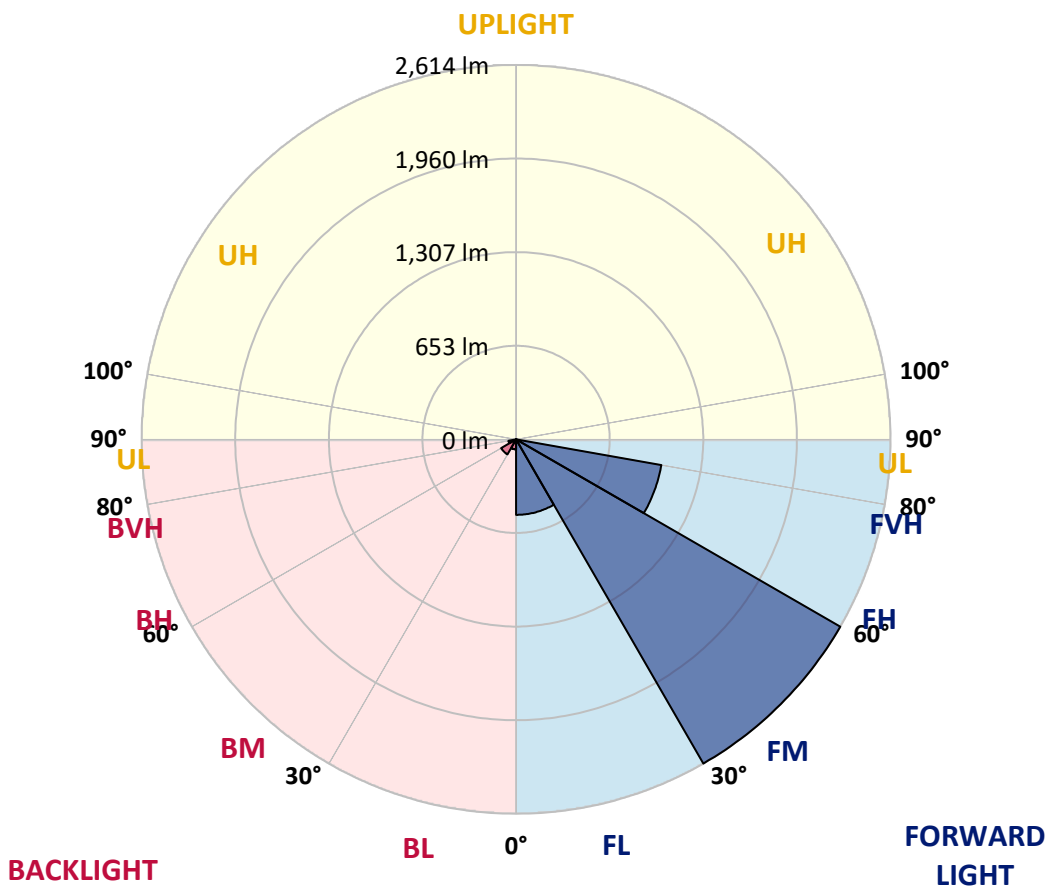
CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.2	11.9			
FM (30°-60°)	2613.9	59.1			
FH (60°-80°)	1030.1	23.3			G1/1800
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	69.8	1.6	B0/110		
BM (30°-60°)	120.6	2.7	B0/220		
BH (60°-80°)	53.7	1.2	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Short





REPORT NUMBER: P632059

CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4
2.5°	603.3	612.3	605.2	593.5	570.7	548.7	520.4	481.4	450.4	446.5	417.4
5°	814.7	813.9	798.6	783.3	759.3	721.6	664.6	592.3	522.7	516.8	451.6
7.5°	940.5	941.7	933.0	921.2	897.7	858.7	799.4	712.1	610.4	598.6	498.3
10°	1046.2	1045.8	1039.5	1034.0	1012.8	986.9	923.2	827.3	704.7	686.2	550.6
12.5°	1125.6	1128.4	1131.5	1137.0	1128.0	1102.4	1042.3	937.7	800.2	779.7	610.4
15°	1188.5	1189.3	1201.1	1222.3	1229.8	1216.4	1161.8	1044.6	894.5	876.8	679.1
17.5°	1207.4	1208.9	1229.0	1267.9	1307.2	1314.6	1273.4	1152.3	987.3	968.4	745.9
20°	1247.0	1250.6	1265.5	1299.7	1349.2	1389.3	1373.2	1261.2	1080.0	1055.3	814.3
22.5°	1372.0	1374.0	1368.9	1373.2	1398.8	1445.1	1455.0	1366.5	1175.1	1148.8	888.2
25°	1587.0	1587.8	1552.0	1518.2	1499.0	1507.6	1529.2	1463.6	1269.4	1243.5	957.0
27.5°	1810.2	1813.0	1770.2	1712.8	1644.0	1604.7	1598.4	1552.4	1364.6	1335.9	1025.0
30°	2020.5	2020.5	1975.3	1905.4	1813.4	1736.7	1691.6	1642.0	1466.4	1434.9	1094.6
32.5°	2209.5	2208.0	2150.2	2074.4	1983.6	1899.5	1804.3	1735.6	1579.5	1544.6	1174.7
35°	2365.6	2361.6	2296.0	2223.3	2126.2	2063.7	1957.6	1836.2	1702.2	1667.2	1257.3
37.5°	2483.5	2479.2	2419.0	2342.0	2252.0	2211.5	2122.7	1956.8	1831.5	1799.6	1348.8
40°	2547.5	2538.9	2497.2	2439.9	2364.4	2329.0	2292.1	2106.6	1983.6	1943.9	1456.9
42.5°	2566.4	2556.2	2528.7	2502.0	2456.4	2428.5	2468.2	2275.6	2150.6	2116.4	1580.3
45°	2510.6	2504.7	2502.3	2521.6	2529.9	2537.7	2635.6	2462.7	2334.9	2309.0	1735.6
47.5°	2376.2	2374.6	2395.4	2475.6	2562.9	2645.8	2817.5	2693.4	2573.9	2546.0	1952.5
50°	2127.8	2143.9	2202.1	2342.8	2517.3	2707.1	2987.7	3013.3	2960.6	2919.7	2235.5
52.5°	1739.5	1770.5	1901.0	2114.8	2365.6	2689.8	3066.3	3269.5	3323.4	3280.9	2438.3
55°	1365.0	1394.0	1510.4	1781.6	2116.0	2558.2	3069.9	3357.9	3475.5	3436.2	2575.4
57.5°	1016.7	1043.5	1149.2	1408.6	1776.4	2299.2	2985.8	3407.1	3655.9	3630.7	2792.0
60°	664.6	690.9	786.4	1013.2	1377.9	1921.9	2778.6	3396.9	3901.5	3899.1	3058.1
62.5°	368.7	389.5	458.7	635.5	961.7	1488.4	2453.2	3294.3	4139.3	4154.2	3277.4
65°	188.6	202.0	244.1	349.4	582.1	1055.3	2025.2	3059.3	4249.3	4287.0	3335.2
67.5°	123.4	127.7	137.9	181.6	311.7	663.8	1524.1	2682.4	4094.5	4138.5	3141.4
70°	100.2	103.8	109.7	121.0	160.7	352.5	1001.0	2142.3	3421.2	3451.1	2501.6
72.5°	73.5	78.2	89.6	97.1	115.9	193.4	520.7	1406.2	2349.5	2402.1	1572.1
75°	54.2	57.0	66.4	76.6	94.7	122.2	199.3	739.3	1213.2	1182.6	660.3
77.5°	32.6	34.6	42.4	49.1	67.6	76.2	69.6	273.1	369.0	347.0	159.6
80°	16.1	18.1	27.9	36.9	43.2	30.7	29.1	76.2	82.1	82.1	40.1
82.5°	5.5	7.1	14.9	24.4	21.2	11.8	13.8	19.7	22.0	23.2	11.8
85°	0.0	0.0	3.5	7.1	3.1	1.6	3.5	4.3	5.5	5.9	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	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



REPORT NUMBER: P632059  
 CATALOG NUMBER: GWS-SA2B-830-U-T2R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4	391.4
2.5°	401.7	383.2	355.3	330.1	310.9	292.8	279.0	268.0	266.1	259.8	260.6
5°	419.7	386.3	334.9	295.2	267.3	248.4	232.7	220.9	215.8	210.7	206.7
7.5°	447.6	399.3	327.0	278.7	246.0	216.9	192.6	172.9	163.5	157.6	153.7
10°	481.8	417.4	327.4	268.8	220.5	176.1	142.7	121.0	110.8	107.7	107.3
12.5°	522.7	440.2	330.5	252.7	183.5	130.9	105.7	95.9	92.8	90.0	90.0
15°	565.9	465.7	330.5	223.2	139.9	102.2	91.6	85.3	81.4	79.8	79.0
17.5°	611.5	489.7	322.7	182.8	107.3	90.0	81.4	75.5	72.3	70.0	69.2
20°	660.3	512.5	303.0	139.9	92.0	80.6	72.3	66.4	63.3	60.9	60.9
22.5°	709.8	533.7	271.2	107.7	81.4	71.5	63.7	58.2	55.0	52.7	52.7
25°	755.8	547.9	230.3	88.8	73.5	63.7	56.6	51.1	47.6	46.0	45.2
27.5°	798.6	556.9	185.1	78.2	66.0	57.0	49.5	44.4	41.7	40.5	39.7
30°	843.0	559.3	141.5	71.1	59.7	50.3	43.2	39.3	36.9	35.4	35.4
32.5°	886.3	556.5	108.1	65.2	54.2	44.4	38.5	35.0	33.0	31.8	31.4
35°	930.3	543.9	87.6	60.1	48.7	38.9	34.2	31.4	30.3	28.7	28.7
37.5°	978.2	527.0	76.2	55.0	43.2	35.0	30.7	28.7	27.1	25.9	25.5
40°	1038.0	507.4	70.0	50.7	38.1	31.4	27.5	25.5	24.4	23.2	22.8
42.5°	1108.7	488.1	66.8	46.0	34.2	27.9	24.8	22.4	21.2	19.7	19.3
45°	1208.9	483.8	63.3	40.9	30.7	25.2	21.6	19.3	17.7	16.5	16.1
47.5°	1370.1	496.0	57.4	35.4	27.1	22.0	18.5	16.5	14.5	13.4	12.6
50°	1530.0	492.8	51.5	30.7	24.0	18.9	15.7	13.8	11.8	10.6	10.2
52.5°	1617.3	477.9	46.0	27.1	20.8	16.1	13.4	11.0	9.8	8.6	8.3
55°	1696.3	472.0	40.5	23.6	17.7	14.1	11.0	9.0	8.3	7.1	6.7
57.5°	1851.1	485.8	35.8	20.4	15.3	12.2	9.4	7.5	6.7	5.5	5.1
60°	2013.0	487.3	30.7	17.7	13.4	10.2	7.5	5.9	5.1	3.9	3.5
62.5°	2097.5	447.6	25.2	14.9	11.0	8.6	6.3	4.7	3.9	2.4	2.4
65°	2026.8	362.0	21.2	12.2	8.6	6.7	4.7	3.5	2.4	1.2	0.4
67.5°	1793.7	257.4	17.7	9.8	6.3	4.7	3.5	2.4	0.4	0.0	0.0
70°	1313.5	147.0	13.8	7.1	4.7	3.1	2.4	1.2	0.0	0.0	0.0
72.5°	807.3	78.6	10.2	4.7	3.5	2.4	2.0	0.8	0.0	0.0	0.0
75°	306.2	37.7	6.3	3.1	2.8	2.0	1.2	0.4	0.0	0.0	0.0
77.5°	82.9	18.5	3.5	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
80°	21.6	8.6	2.4	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	3.9	1.2	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.6	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	0.4	0.4	0.4	0.0	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)