

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: P633542

Luminaire Tested: GWS-SA2E-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7770 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

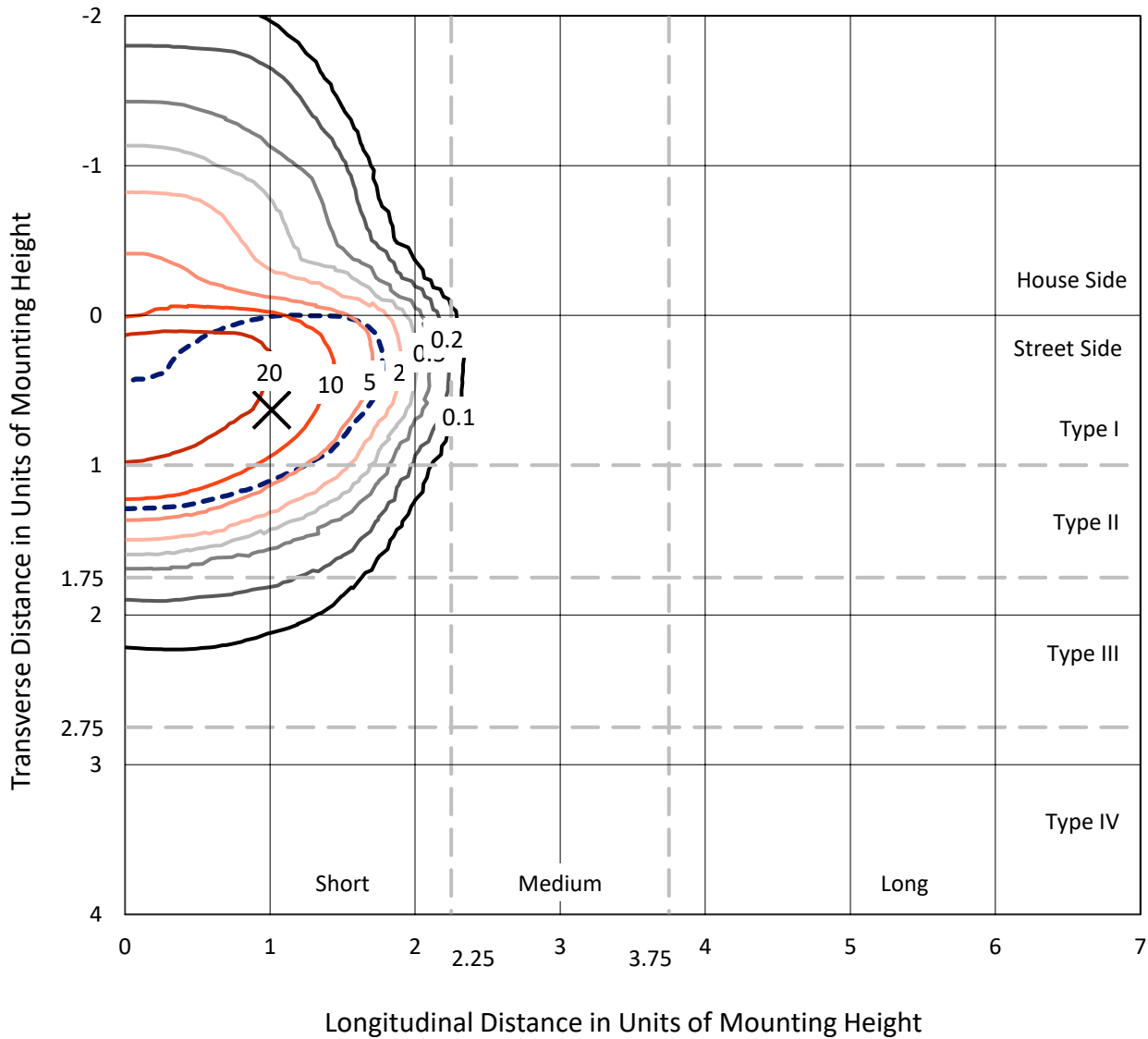
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633542
 CATALOG NUMBER: GWS-SA2E-830-U-T2R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

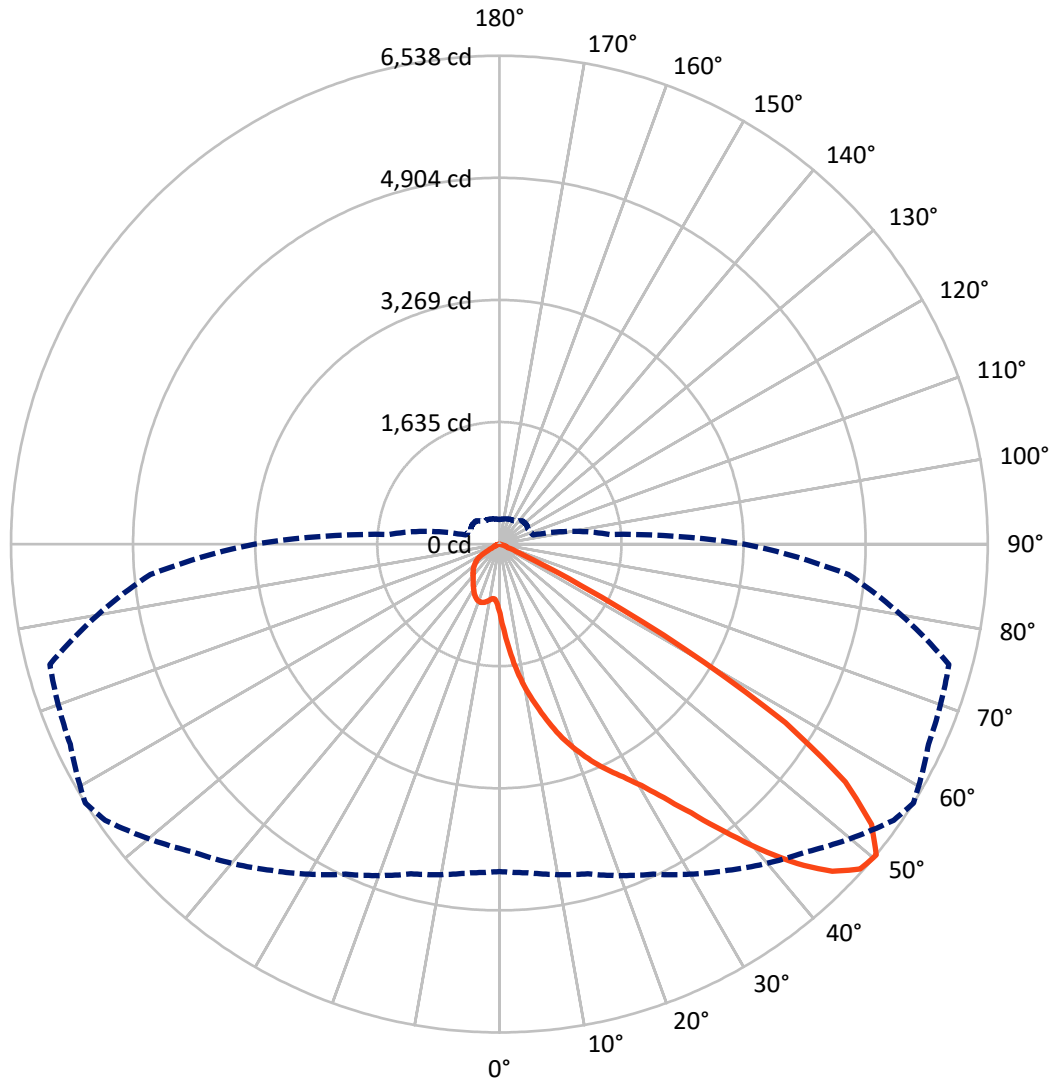
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.5 fc
 Type II - Short - N/A

REPORT NUMBER: P633542
CATALOG NUMBER: GWS-SA2E-830-U-T2R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P633542
 CATALOG NUMBER: GWS-SA2E-830-U-T2R-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.3	0.0	1088.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6681.7	0.0	6681.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	7770.0	0.0	7770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.5
10°-20°	455.2	5.9
20°-30°	921.0	11.9
30°-40°	1629.4	21.0
40°-50°	2375.4	30.6
50°-60°	1903.9	24.5
60°-70°	343.0	4.4
70°-80°	27.0	0.3
80°-90°	0.0	0.0
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°	7770.0	100.0
0°-180°	7770.0	100.0

Coefficient of Utilization



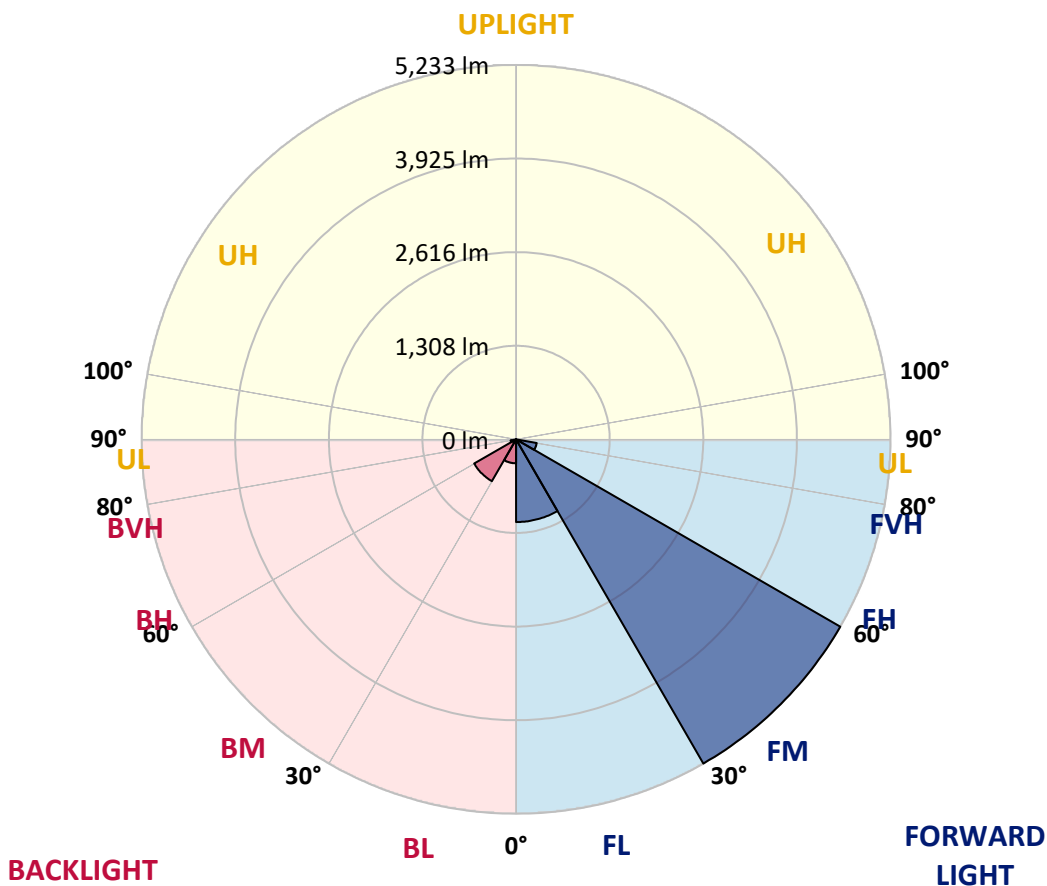
REPORT NUMBER: P633542

CATALOG NUMBER: GWS-SA2E-830-U-T2R-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.2	14.9			
FM (30°-60°)	5232.9	67.3			
FH (60°-80°)	292.7	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	335.0	4.3	B1/500		
BM (30°-60°)	675.9	8.7	B1/1000		
BH (60°-80°)	77.3	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P633542

CATALOG NUMBER: GWS-SA2E-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1
2.5°	1373.5	1351.9	1339.4	1329.4	1285.4	1215.6	1169.9	1145.8	1105.9	1038.6	980.5
5°	1792.2	1776.5	1747.4	1727.4	1670.9	1572.1	1469.9	1429.1	1338.6	1186.5	1050.3
7.5°	2069.8	2058.1	2047.3	2020.7	1967.6	1877.8	1764.8	1722.5	1582.9	1366.8	1143.3
10°	2283.3	2274.2	2261.7	2260.9	2219.3	2138.7	2028.2	1984.2	1833.0	1562.9	1253.0
12.5°	2471.1	2463.6	2461.1	2484.4	2457.8	2398.0	2278.3	2223.5	2063.1	1763.2	1374.3
15°	2599.9	2598.2	2609.0	2654.7	2669.7	2642.3	2541.7	2482.7	2298.3	1964.2	1508.1
17.5°	2658.9	2663.9	2684.6	2763.6	2830.0	2853.3	2776.0	2726.2	2531.7	2167.8	1651.0
20°	2759.4	2757.8	2770.2	2845.0	2926.4	3009.5	2986.2	2943.9	2767.7	2383.0	1809.7
22.5°	3042.7	3018.7	2992.1	3003.7	3032.8	3130.0	3173.2	3151.6	3011.2	2604.0	1973.4
25°	3478.1	3453.2	3367.6	3284.5	3229.7	3273.7	3332.7	3343.5	3253.0	2830.9	2144.5
27.5°	3940.1	3917.7	3821.3	3696.7	3539.6	3463.2	3507.2	3528.8	3490.6	3100.9	2326.5
30°	4373.0	4343.1	4237.6	4083.0	3901.1	3783.9	3734.1	3749.0	3771.4	3420.8	2540.1
32.5°	4748.6	4726.1	4599.9	4437.0	4261.7	4139.5	4023.2	4048.1	4103.0	3812.2	2813.4
35°	5066.8	5055.2	4921.4	4759.4	4574.1	4511.8	4412.1	4417.1	4471.9	4284.9	3146.6
37.5°	5343.5	5323.6	5202.3	5051.9	4904.8	4894.8	4867.4	4869.9	4898.1	4835.8	3529.7
40°	5518.0	5499.7	5413.3	5320.2	5215.5	5217.2	5359.3	5370.1	5337.7	5376.7	3934.3
42.5°	5583.6	5570.3	5523.8	5524.6	5513.8	5562.9	5829.6	5849.5	5733.2	5801.3	4280.0
45°	5469.8	5464.0	5467.3	5587.0	5716.6	5867.8	6214.3	6249.2	6084.7	6083.0	4550.0
47.5°	5102.5	5090.9	5188.1	5391.7	5691.7	5985.8	6446.9	6500.9	6330.6	6244.2	4719.5
50°	4383.0	4416.2	4569.9	4875.7	5331.9	5823.8	6444.4	6538.3	6339.8	6230.1	4691.3
52.5°	3174.9	3168.2	3504.7	3925.2	4480.2	5305.3	6102.1	6239.2	6117.9	6091.3	4628.1
55°	1727.4	1788.1	2014.9	2571.6	3264.6	4324.0	5320.2	5619.4	5759.8	6040.6	4741.9
57.5°	634.8	661.4	803.5	1197.3	1728.3	2688.8	4063.9	4515.1	4948.8	5899.4	4722.8
60°	255.9	260.9	317.4	440.4	726.2	1368.5	2437.9	2838.3	3247.1	4515.9	3624.4
62.5°	186.1	192.8	215.2	257.6	367.3	598.2	1051.1	1222.3	1336.1	2236.8	1785.6
65°	150.4	155.4	173.7	192.8	242.6	321.6	339.0	326.5	324.9	578.3	409.6
67.5°	124.6	129.6	142.9	156.2	174.5	160.4	116.3	122.1	99.7	98.9	80.6
70°	91.4	97.2	110.5	124.6	104.7	43.2	67.3	99.7	75.6	63.1	61.5
72.5°	69.0	73.1	85.6	81.4	30.7	16.6	44.9	72.3	58.2	46.5	45.7
75°	51.5	54.0	43.2	13.3	3.3	4.2	16.6	29.9	32.4	26.6	26.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.5	3.3	4.2	5.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P633542
 CATALOG NUMBER: GWS-SA2E-830-U-T2R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1	928.1
2.5°	947.2	912.3	862.5	820.9	789.4	758.6	735.3	712.1	711.2	699.6	697.1
5°	987.1	924.0	832.6	766.9	727.0	702.9	686.3	678.0	673.9	669.7	668.0
7.5°	1044.4	953.9	827.6	757.8	724.5	708.8	697.1	692.1	689.6	686.3	685.5
10°	1115.1	997.1	845.9	775.2	746.1	731.2	718.7	711.2	707.1	701.3	699.6
12.5°	1199.8	1050.3	874.9	804.3	773.6	753.6	737.0	726.2	720.4	712.9	711.2
15°	1291.2	1107.6	907.3	830.9	794.3	768.6	747.8	731.2	720.4	711.2	708.8
17.5°	1385.9	1165.8	936.4	849.2	804.3	773.6	743.7	721.2	707.9	696.3	693.0
20°	1492.3	1225.6	955.5	852.5	801.0	760.3	725.4	697.1	683.8	668.0	664.7
22.5°	1603.6	1281.2	963.8	845.0	782.7	735.3	698.0	668.9	649.8	633.1	628.2
25°	1711.7	1331.1	959.7	824.3	755.3	700.4	662.2	632.3	611.5	594.9	590.8
27.5°	1826.3	1372.6	944.7	793.5	717.9	662.2	625.7	599.9	580.8	562.5	558.4
30°	1955.1	1410.9	920.6	756.1	673.9	623.2	594.9	577.5	556.7	537.6	531.8
32.5°	2110.5	1444.9	885.7	711.2	634.8	589.1	573.3	560.0	535.9	516.0	511.8
35°	2288.3	1473.2	841.7	664.7	596.6	567.5	564.2	546.7	515.2	491.9	486.9
37.5°	2494.4	1500.6	789.4	619.0	568.3	557.5	558.4	528.5	490.2	462.0	458.7
40°	2716.2	1528.0	731.2	579.1	542.6	551.7	544.2	501.9	439.5	412.1	408.8
42.5°	2947.2	1557.9	672.2	541.7	521.0	529.3	518.5	448.7	403.8	389.7	388.0
45°	3155.8	1593.7	608.2	504.4	499.4	496.9	478.6	406.3	387.2	377.2	376.4
47.5°	3306.1	1587.8	540.1	468.6	476.1	467.8	412.1	386.4	370.6	357.3	354.0
50°	3278.7	1486.5	469.5	428.7	446.2	438.7	370.6	363.1	349.0	334.9	329.9
52.5°	3208.9	1348.5	408.0	386.4	413.8	396.3	342.3	334.9	322.4	304.1	298.3
55°	3246.3	1218.9	359.8	352.3	380.6	328.2	310.8	299.1	285.8	265.9	263.4
57.5°	3125.8	994.6	289.2	294.1	336.5	280.0	272.5	254.3	231.8	218.5	216.9
60°	2163.7	534.3	181.1	187.0	243.5	235.1	244.3	227.7	200.2	187.8	185.3
62.5°	993.8	214.4	98.9	94.7	128.0	159.5	209.4	207.7	173.7	153.7	152.1
65°	241.0	98.0	70.6	66.5	72.3	95.6	136.3	163.7	140.4	117.2	114.7
67.5°	78.1	79.8	64.8	60.7	64.0	71.5	81.4	90.6	89.7	82.3	80.6
70°	62.3	72.3	59.8	54.8	54.8	57.3	54.8	44.0	38.2	41.5	43.2
72.5°	46.5	54.8	47.4	42.4	40.7	39.9	34.1	24.9	17.4	15.8	15.0
75°	27.4	30.7	29.1	24.9	23.3	20.8	16.6	10.8	5.8	4.2	2.5
77.5°	5.0	5.8	6.6	5.0	4.2	3.3	2.5	0.8	0.0	0.0	0.0
80°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)