

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: P631894

Luminaire Tested: GWS-SA2B-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631894
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5693.2 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

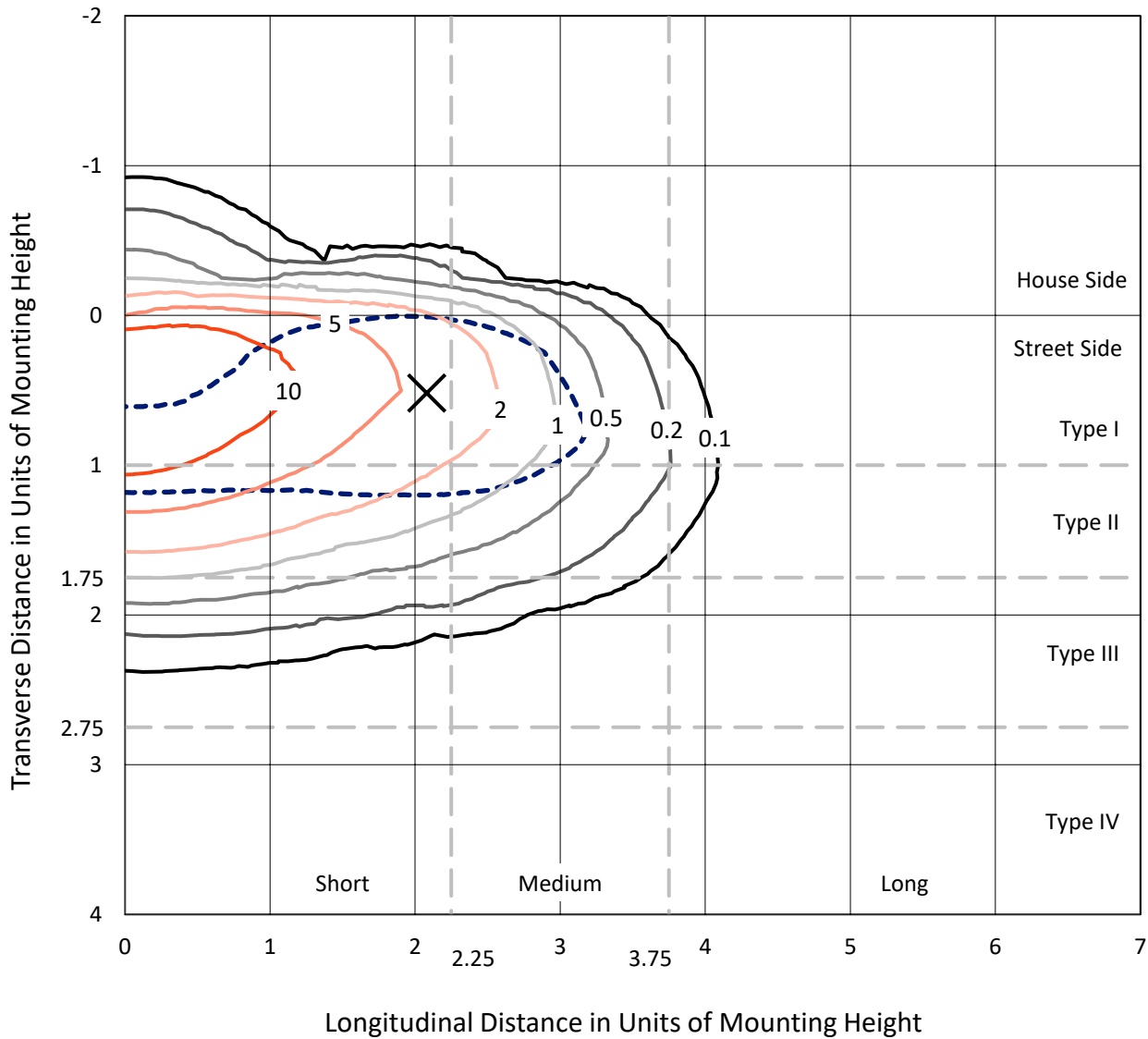
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

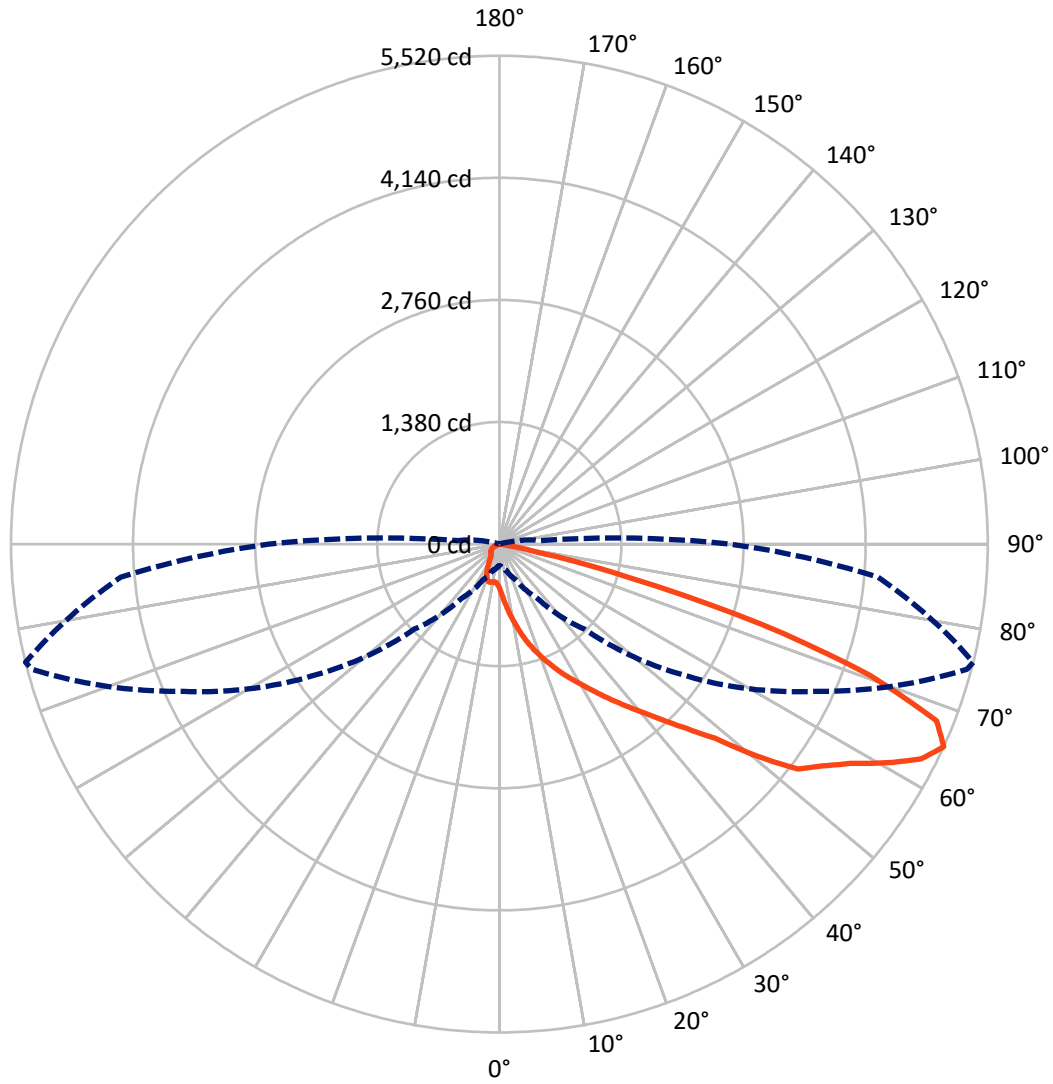
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	314.8	0.0	314.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	5378.4	0.0	5378.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	5693.2	0.0	5693.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.1
10°-20°	232.7	4.1
20°-30°	474.7	8.3
30°-40°	844.3	14.8
40°-50°	1248.0	21.9
50°-60°	1428.9	25.1
60°-70°	1090.2	19.1
70°-80°	305.4	5.4
80°-90°	7.7	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°	5693.2	100.0
0°-180°	5693.2	100.0

Coefficient of Utilization



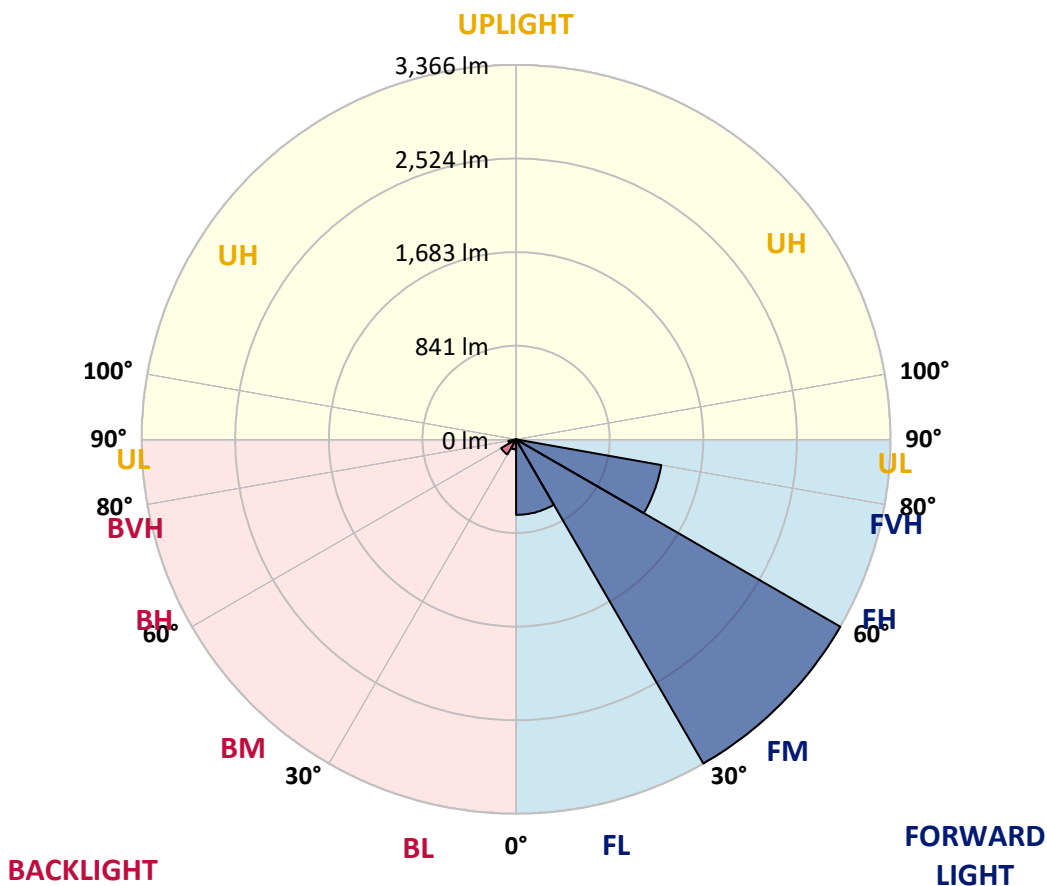
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.9	11.9			
FM (30°-60°)	3365.9	59.1			
FH (60°-80°)	1326.4	23.3			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	89.8	1.6	B0/110		
BM (30°-60°)	155.3	2.7	B0/220		
BH (60°-80°)	69.2	1.2	B0/110		G0/110
BVH (80°-90°)	0.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1
2.5°	776.8	788.5	779.4	764.2	734.8	706.5	670.1	619.9	580.0	574.9	537.5
5°	1049.1	1048.1	1028.4	1008.6	977.7	929.2	855.8	762.7	673.1	665.5	581.5
7.5°	1211.0	1212.6	1201.4	1186.3	1155.9	1105.8	1029.4	917.0	785.9	770.8	641.7
10°	1347.2	1346.7	1338.6	1331.5	1304.2	1270.8	1188.8	1065.3	907.4	883.6	709.0
12.5°	1449.4	1453.0	1457.0	1464.1	1452.5	1419.6	1342.1	1207.5	1030.4	1004.1	785.9
15°	1530.4	1531.4	1546.6	1573.9	1583.5	1566.3	1496.0	1345.2	1151.8	1129.1	874.5
17.5°	1554.7	1556.7	1582.5	1632.6	1683.2	1692.8	1639.7	1483.8	1271.3	1247.0	960.5
20°	1605.8	1610.3	1629.6	1673.6	1737.4	1789.0	1768.2	1624.0	1390.7	1358.8	1048.6
22.5°	1766.7	1769.3	1762.7	1768.2	1801.1	1860.9	1873.5	1759.6	1513.2	1479.3	1143.7
25°	2043.6	2044.6	1998.5	1955.0	1930.2	1941.3	1969.2	1884.6	1634.6	1601.2	1232.3
27.5°	2331.0	2334.5	2279.4	2205.5	2116.9	2066.3	2058.2	1999.0	1757.1	1720.2	1319.9
30°	2601.8	2601.8	2543.6	2453.5	2335.1	2236.4	2178.2	2114.4	1888.2	1847.7	1409.4
32.5°	2845.2	2843.2	2768.8	2671.1	2554.2	2445.9	2323.4	2234.9	2033.9	1988.9	1512.7
35°	3046.1	3041.0	2956.5	2862.9	2737.9	2657.4	2520.8	2364.4	2191.8	2146.8	1619.0
37.5°	3197.9	3192.4	3114.9	3015.7	2899.8	2847.7	2733.3	2519.8	2358.3	2317.3	1736.9
40°	3280.4	3269.3	3215.6	3141.7	3044.6	2999.0	2951.5	2712.6	2554.2	2503.1	1876.0
42.5°	3304.7	3291.5	3256.1	3221.7	3163.0	3127.1	3178.2	2930.2	2769.3	2725.2	2034.9
45°	3232.8	3225.2	3222.2	3247.0	3257.6	3267.8	3393.8	3171.1	3006.6	2973.2	2234.9
47.5°	3059.8	3057.7	3084.6	3187.8	3300.1	3406.9	3628.1	3468.2	3314.3	3278.4	2514.2
50°	2739.9	2760.7	2835.6	3016.7	3241.4	3485.9	3847.2	3880.1	3812.3	3759.7	2878.6
52.5°	2239.9	2279.9	2447.9	2723.2	3046.1	3463.6	3948.4	4210.1	4279.4	4224.8	3139.7
55°	1757.6	1795.1	1944.9	2294.1	2724.7	3294.1	3953.0	4323.9	4475.3	4424.7	3316.3
57.5°	1309.2	1343.6	1479.8	1813.8	2287.5	2960.6	3844.7	4387.2	4707.6	4675.2	3595.2
60°	855.8	889.7	1012.7	1304.7	1774.3	2474.7	3578.0	4374.1	5023.9	5020.8	3937.8
62.5°	474.7	501.5	590.6	818.3	1238.4	1916.5	3159.0	4242.0	5330.0	5349.3	4220.2
65°	242.9	260.1	314.3	449.9	749.5	1358.8	2607.8	3939.3	5471.7	5520.3	4294.6
67.5°	158.9	164.5	177.6	233.8	401.3	854.8	1962.6	3454.0	5272.3	5329.0	4045.1
70°	129.1	133.6	141.2	155.9	207.0	454.0	1289.0	2758.6	4405.4	4443.9	3221.2
72.5°	94.6	100.7	115.4	125.0	149.3	249.0	670.6	1810.8	3025.3	3093.2	2024.3
75°	69.8	73.4	85.5	98.7	122.0	157.4	256.6	951.9	1562.3	1522.8	850.2
77.5°	42.0	44.5	54.7	63.3	87.0	98.2	89.6	351.7	475.2	446.9	205.5
80°	20.7	23.3	35.9	47.6	55.7	39.5	37.4	98.2	105.8	105.8	51.6
82.5°	7.1	9.1	19.2	31.4	27.3	15.2	17.7	25.3	28.3	29.9	15.2
85°	0.0	0.0	4.6	9.1	4.0	2.0	4.6	5.6	7.1	7.6	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.0
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°	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1	504.1
2.5°	517.2	493.4	457.5	425.1	400.3	377.0	359.3	345.1	342.6	334.5	335.5
5°	540.5	497.5	431.2	380.1	344.1	319.8	299.6	284.4	277.8	271.3	266.2
7.5°	576.4	514.2	421.1	358.8	316.8	279.4	248.0	222.7	210.5	202.9	197.9
10°	620.5	537.5	421.6	346.2	283.9	226.7	183.7	155.9	142.7	138.7	138.2
12.5°	673.1	566.8	425.6	325.4	236.3	168.5	136.1	123.5	119.4	115.9	115.9
15°	728.8	599.7	425.6	287.5	180.2	131.6	117.9	109.8	104.8	102.7	101.7
17.5°	787.5	630.6	415.5	235.3	138.2	115.9	104.8	97.2	93.1	90.1	89.1
20°	850.2	659.9	390.2	180.2	118.4	103.7	93.1	85.5	81.5	78.4	78.4
22.5°	914.0	687.3	349.2	138.7	104.8	92.1	82.0	74.9	70.9	67.8	67.8
25°	973.2	705.5	296.6	114.4	94.6	82.0	72.9	65.8	61.2	59.2	58.2
27.5°	1028.4	717.1	238.4	100.7	85.0	73.4	63.8	57.2	53.6	52.1	51.1
30°	1085.5	720.2	182.2	91.6	76.9	64.8	55.7	50.6	47.6	45.5	45.5
32.5°	1141.2	716.6	139.2	84.0	69.8	57.2	49.6	45.0	42.5	41.0	40.5
35°	1197.9	700.4	112.9	77.4	62.8	50.1	44.0	40.5	39.0	36.9	36.9
37.5°	1259.6	678.7	98.2	70.9	55.7	45.0	39.5	36.9	34.9	33.4	32.9
40°	1336.6	653.3	90.1	65.3	49.1	40.5	35.4	32.9	31.4	29.9	29.4
42.5°	1427.7	628.6	86.0	59.2	44.0	35.9	31.9	28.8	27.3	25.3	24.8
45°	1556.7	623.0	81.5	52.6	39.5	32.4	27.8	24.8	22.8	21.3	20.7
47.5°	1764.2	638.7	73.9	45.5	34.9	28.3	23.8	21.3	18.7	17.2	16.2
50°	1970.2	634.6	66.3	39.5	30.9	24.3	20.2	17.7	15.2	13.7	13.2
52.5°	2082.5	615.4	59.2	34.9	26.8	20.7	17.2	14.2	12.7	11.1	10.6
55°	2184.2	607.8	52.1	30.4	22.8	18.2	14.2	11.6	10.6	9.1	8.6
57.5°	2383.6	625.5	46.1	26.3	19.7	15.7	12.1	9.6	8.6	7.1	6.6
60°	2592.1	627.5	39.5	22.8	17.2	13.2	9.6	7.6	6.6	5.1	4.6
62.5°	2700.9	576.4	32.4	19.2	14.2	11.1	8.1	6.1	5.1	3.0	3.0
65°	2609.9	466.1	27.3	15.7	11.1	8.6	6.1	4.6	3.0	1.5	0.5
67.5°	2309.7	331.5	22.8	12.7	8.1	6.1	4.6	3.0	0.5	0.0	0.0
70°	1691.3	189.3	17.7	9.1	6.1	4.0	3.0	1.5	0.0	0.0	0.0
72.5°	1039.5	101.2	13.2	6.1	4.6	3.0	2.5	1.0	0.0	0.0	0.0
75°	394.2	48.6	8.1	4.0	3.5	2.5	1.5	0.5	0.0	0.0	0.0
77.5°	106.8	23.8	4.6	3.0	2.5	1.5	1.0	0.0	0.0	0.0	0.0
80°	27.8	11.1	3.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	5.1	1.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
85°	4.0	2.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.5	0.5	0.5	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)