

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: P636539

Luminaire Tested: GWS-SA4B-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8940.9 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

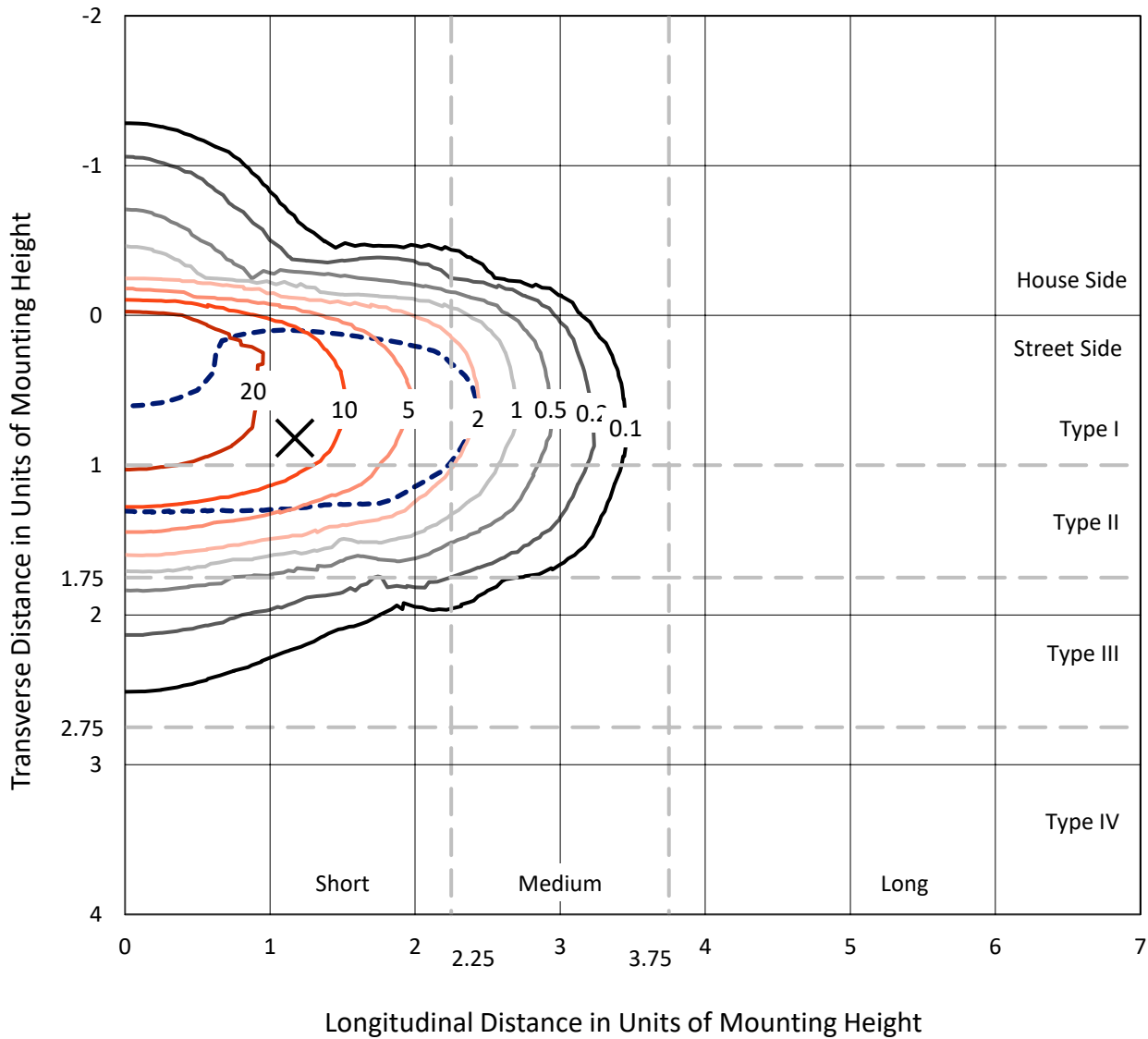
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

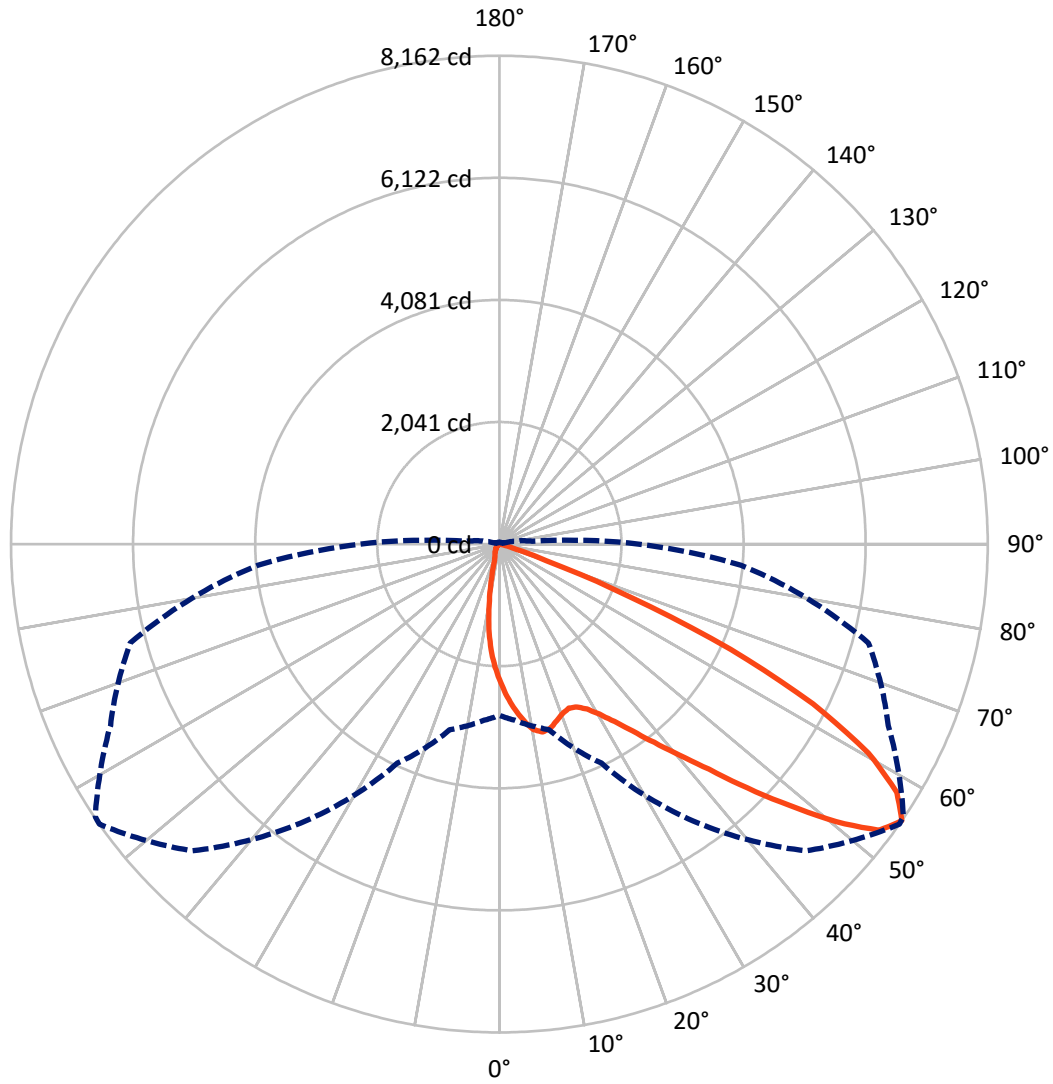
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	551.7	0.0	551.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8389.2	0.0	8389.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	8940.9	0.0	8940.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	2.3
10°-20°	492.1	5.5
20°-30°	819.6	9.2
30°-40°	1396.6	15.6
40°-50°	2279.8	25.5
50°-60°	2386.9	26.7
60°-70°	1203.9	13.5
70°-80°	152.1	1.7
80°-90°	5.8	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°	8940.9	100.0
0°-180°	8940.9	100.0

Coefficient of Utilization



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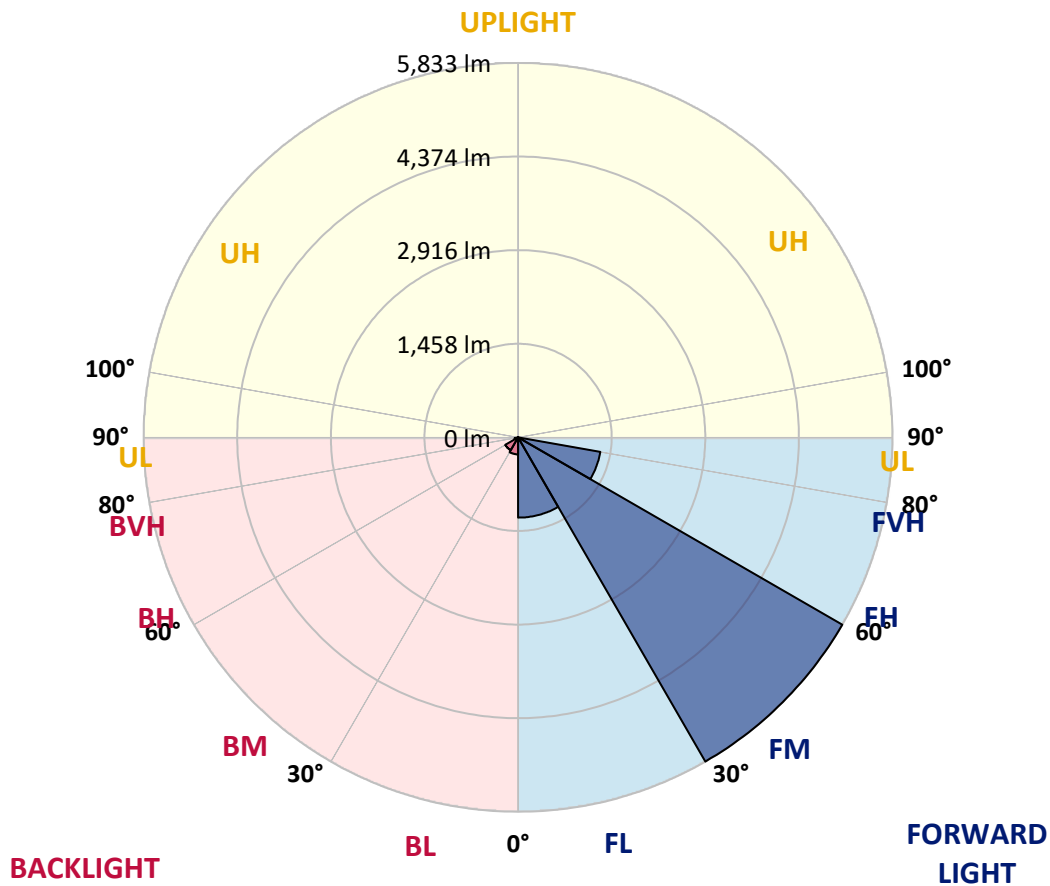
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.7	14.0			
FM (30°-60°)	5832.6	65.2			
FH (60°-80°)	1300.6	14.5			G1/1800
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	265.2	3.0	B1/500		
BM (30°-60°)	230.7	2.6	B1/1000		
BH (60°-80°)	55.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8
2.5°	2692.7	2679.7	2699.6	2676.7	2637.7	2604.8	2562.0	2546.7	2478.0	2413.0	2350.3
5°	3019.9	3023.7	3017.6	2985.5	2930.4	2869.3	2782.9	2763.8	2643.8	2520.0	2386.2
7.5°	3100.9	3098.6	3111.6	3123.8	3114.6	3084.1	2990.1	2971.0	2821.9	2636.2	2441.3
10°	2851.0	2852.5	2879.2	2961.8	3064.2	3170.4	3155.9	3145.2	2999.2	2767.6	2502.4
12.5°	2497.8	2511.6	2539.9	2657.6	2831.1	3072.6	3222.4	3233.1	3162.0	2912.1	2574.3
15°	2345.0	2348.0	2371.0	2442.0	2571.2	2869.3	3194.1	3223.9	3298.1	3057.3	2652.2
17.5°	2341.1	2345.0	2354.9	2386.2	2470.3	2709.5	3103.2	3155.2	3400.5	3213.2	2745.5
20°	2484.8	2482.5	2475.7	2458.8	2495.5	2656.8	3019.1	3076.4	3456.3	3365.3	2839.5
22.5°	2745.5	2742.4	2711.8	2642.3	2612.5	2705.0	2977.8	3029.8	3489.9	3500.6	2916.7
25°	3045.9	3067.3	3009.9	2904.5	2831.1	2828.0	3014.5	3051.2	3519.0	3620.6	2969.4
27.5°	3375.3	3382.2	3333.2	3214.8	3108.5	3025.2	3120.8	3148.3	3551.1	3727.6	2999.2
30°	3736.8	3734.5	3678.7	3541.1	3412.0	3292.0	3299.6	3310.3	3626.0	3849.9	3032.1
32.5°	4188.5	4198.5	4099.1	3911.8	3756.7	3590.8	3533.5	3535.0	3761.3	4007.4	3081.8
35°	4802.3	4777.8	4646.4	4379.6	4115.2	3936.3	3838.5	3830.1	3969.9	4219.1	3168.1
37.5°	5387.0	5389.3	5251.7	4958.2	4624.2	4342.2	4203.8	4180.9	4263.4	4512.6	3311.8
40°	5792.9	5800.5	5743.2	5589.5	5235.7	4836.7	4633.4	4609.7	4644.1	4884.1	3499.9
42.5°	6007.6	6029.0	6045.1	6081.0	5812.7	5454.3	5141.6	5139.4	5103.4	5307.5	3717.7
45°	6016.0	6048.1	6146.0	6391.3	6421.9	6159.0	5818.8	5767.6	5629.3	5760.8	3912.6
47.5°	5683.6	5757.7	5965.6	6451.7	6772.7	6859.9	6522.8	6491.5	6103.2	6119.2	4058.6
50°	4908.5	4985.7	5368.7	6142.2	6861.4	7416.3	7295.5	7230.6	6499.1	6356.2	4128.9
52.5°	4113.6	4183.9	4443.8	5405.3	6493.7	7591.3	7946.7	7869.5	6854.5	6438.7	4099.9
55°	2862.4	2956.4	3210.2	4040.2	5646.9	7250.4	8162.3	8146.2	7171.7	6386.7	4054.8
57.5°	1403.3	1496.6	1749.6	2491.0	4183.2	6330.2	7832.9	7917.7	7361.3	6330.9	4018.1
60°	586.2	624.5	711.6	1093.0	2340.4	4783.9	7089.2	7206.9	7245.1	6255.3	4014.3
62.5°	340.1	346.2	355.4	453.2	910.3	2742.4	5880.8	6048.1	6634.4	6155.1	3953.9
65°	256.8	259.1	255.3	278.2	376.1	1040.3	4248.9	4476.7	5537.6	5763.8	3715.4
67.5°	211.0	211.0	201.0	205.6	236.2	389.8	2345.7	2663.7	4097.6	4737.3	3068.0
70°	168.2	172.0	167.4	161.3	168.9	215.5	834.6	1034.9	2386.2	2797.4	1789.3
72.5°	127.6	127.6	135.3	130.7	125.4	135.3	291.2	327.1	957.7	1166.4	645.9
75°	98.6	101.7	107.0	102.4	94.8	80.3	139.9	148.3	288.9	271.3	144.5
77.5°	50.4	51.2	68.0	74.9	70.3	48.9	61.1	67.3	94.0	84.1	53.5
80°	30.6	32.1	38.2	58.9	46.6	26.0	25.2	26.8	44.3	38.2	22.2
82.5°	13.0	13.8	21.4	21.4	19.1	9.9	9.9	9.9	21.4	19.9	9.2
85°	0.0	0.0	3.8	3.1	3.1	3.8	3.8	3.8	5.4	7.6	4.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.3	2.3
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°	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8	2309.8
2.5°	2309.8	2260.9	2195.2	2135.5	2055.3	2010.2	1947.5	1896.3	1852.7	1839.0	1832.9
5°	2310.6	2226.5	2085.9	1945.2	1772.5	1636.4	1496.6	1385.7	1294.8	1265.7	1258.1
7.5°	2325.9	2202.0	1974.3	1719.0	1430.1	1191.6	978.3	787.3	698.6	668.8	662.7
10°	2346.5	2181.4	1845.1	1447.6	1032.6	726.1	514.4	392.1	334.0	301.9	306.5
12.5°	2373.2	2164.6	1702.2	1154.1	683.3	399.0	282.8	236.9	224.7	218.6	215.5
15°	2409.2	2144.7	1524.8	862.9	418.9	256.8	217.8	205.6	201.0	198.0	197.2
17.5°	2445.9	2121.8	1344.5	606.9	278.2	213.2	195.7	189.6	186.5	184.2	183.4
20°	2484.8	2082.8	1132.7	418.1	219.4	191.8	180.4	173.5	169.7	165.9	165.1
22.5°	2501.7	2020.1	930.2	292.7	194.9	176.6	162.0	153.6	149.0	146.0	146.0
25°	2485.6	1918.5	720.8	222.4	177.3	159.7	145.2	136.1	132.2	129.2	129.2
27.5°	2442.8	1787.8	525.9	184.2	158.2	142.2	128.4	120.0	116.9	115.4	115.4
30°	2395.4	1622.7	370.7	158.2	136.8	123.8	112.4	107.0	106.2	104.7	104.7
32.5°	2354.9	1468.3	255.3	139.1	120.8	107.8	100.1	97.8	98.6	97.1	97.8
35°	2332.7	1316.9	189.6	123.8	107.8	95.5	91.7	91.7	91.7	91.0	91.0
37.5°	2341.9	1167.9	154.4	113.1	96.3	87.1	83.3	84.8	86.4	86.4	86.4
40°	2387.8	1035.7	136.8	103.2	86.4	79.5	76.4	78.7	81.0	82.5	82.5
42.5°	2445.9	928.7	123.8	94.8	79.5	71.8	70.3	72.6	74.9	76.4	76.4
45°	2482.5	820.9	110.8	84.1	72.6	63.4	63.4	66.5	65.7	66.5	66.5
47.5°	2499.4	735.3	97.8	72.6	61.9	55.0	55.8	57.3	55.8	57.3	57.3
50°	2458.1	648.9	86.4	60.4	51.2	48.2	49.7	48.9	48.9	52.0	52.0
52.5°	2382.4	584.7	76.4	51.2	43.6	42.8	44.3	41.3	42.0	42.0	41.3
55°	2326.6	548.0	68.0	44.3	37.5	38.2	37.5	32.1	29.0	26.0	25.2
57.5°	2299.1	533.5	61.9	39.7	33.6	33.6	30.6	22.2	16.8	13.0	11.5
60°	2293.0	515.9	55.8	34.4	29.8	28.3	22.2	13.0	8.4	6.1	5.4
62.5°	2234.9	473.1	50.4	27.5	26.0	22.9	13.8	7.6	4.6	3.1	2.3
65°	2044.6	389.0	45.1	21.4	19.9	16.8	8.4	4.6	2.3	0.8	0.0
67.5°	1626.5	275.9	39.7	16.1	13.8	10.7	5.4	3.1	0.8	0.0	0.0
70°	937.8	149.0	32.9	11.5	9.2	6.9	3.8	1.5	0.0	0.0	0.0
72.5°	313.4	69.6	25.2	7.6	6.9	5.4	2.3	0.8	0.0	0.0	0.0
75°	68.8	41.3	16.8	5.4	4.6	3.8	1.5	0.0	0.0	0.0	0.0
77.5°	26.0	29.0	8.4	3.8	3.1	2.3	0.8	0.0	0.0	0.0	0.0
80°	9.9	19.1	3.8	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	7.6	2.3	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	3.8	1.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.8	0.8	0.8	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)