

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: P639539

Luminaire Tested: GWS-SA5C-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639539
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-SA5C-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14145.8 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

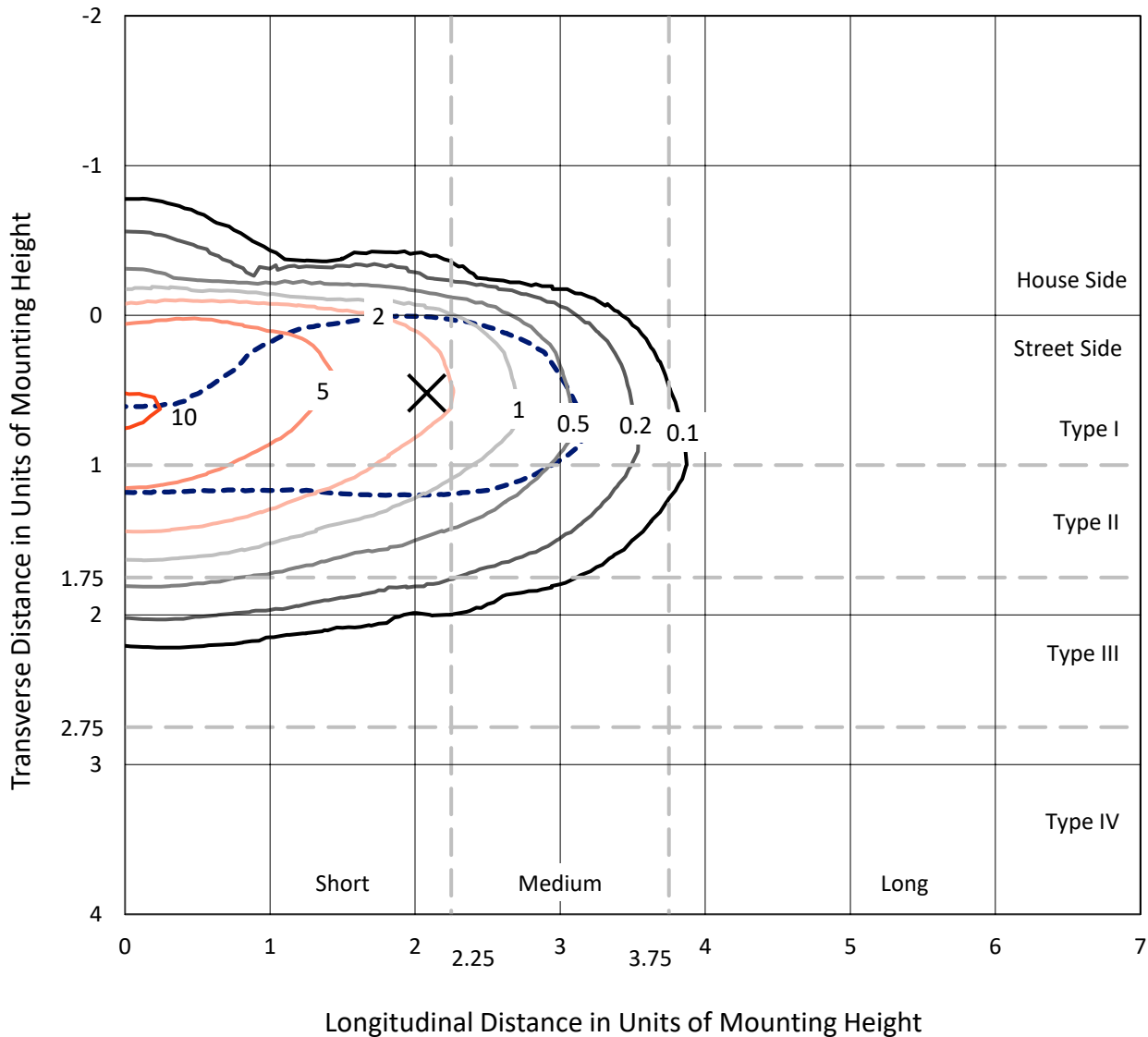
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

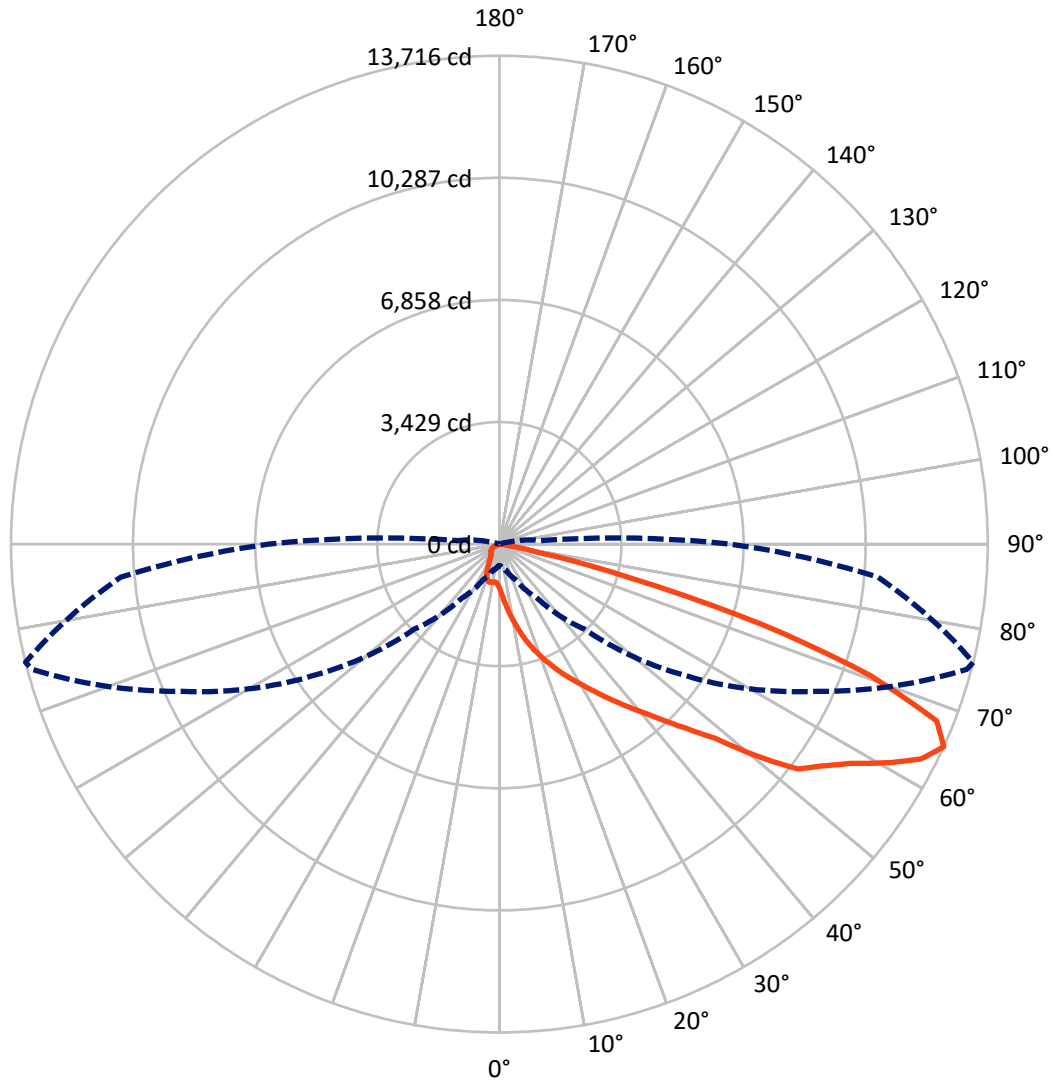
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 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	782.2	0.0	782.2
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	13363.6	0.0	13363.6
	% Fixture	94.5	0.0	94.5
Total	Lumens	14145.8	0.0	14145.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	1.1
10°-20°	578.1	4.1
20°-30°	1179.5	8.3
30°-40°	2097.8	14.8
40°-50°	3101.0	21.9
50°-60°	3550.4	25.1
60°-70°	2708.8	19.1
70°-80°	758.8	5.4
80°-90°	19.1	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°	14145.8	100.0
0°-180°	14145.8	100.0

Coefficient of Utilization



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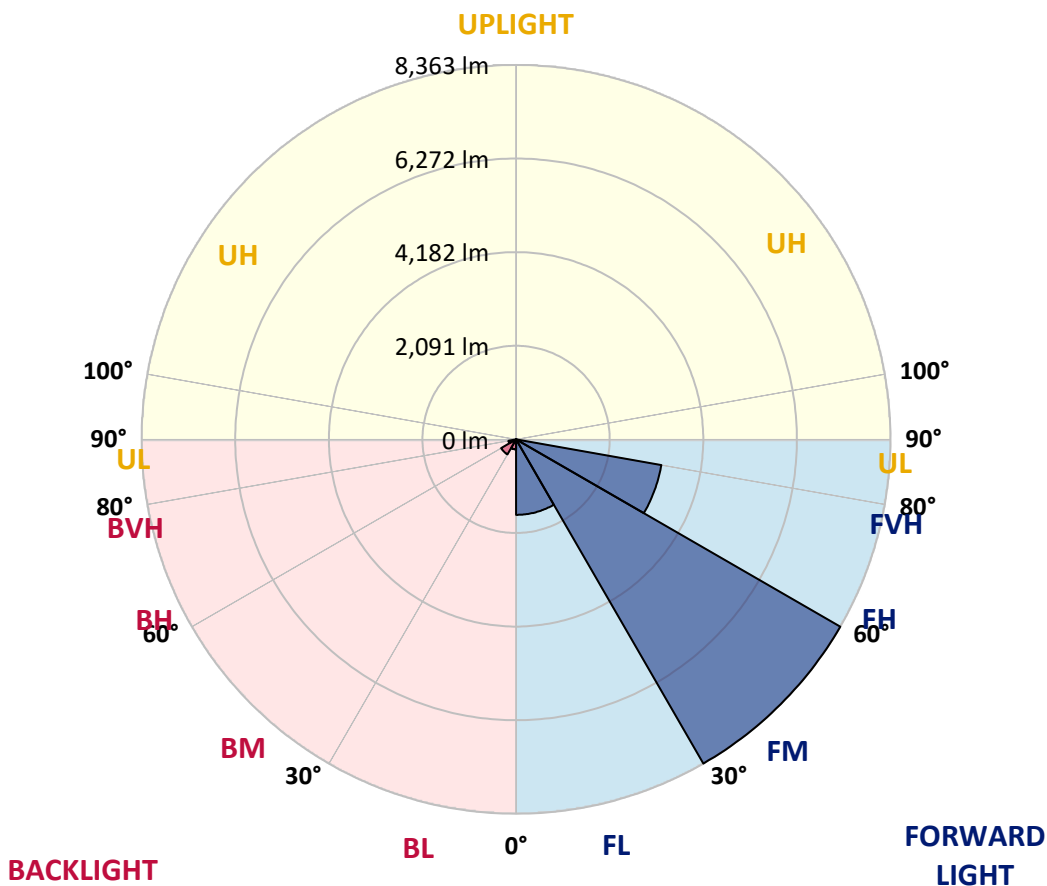
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1686.8	11.9			
FM (30°-60°)	8363.2	59.1			
FH (60°-80°)	3295.6	23.3			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	223.2	1.6	B1/500		
BM (30°-60°)	385.9	2.7	B1/1000		
BH (60°-80°)	171.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1930.2	1959.1	1936.5	1898.7	1825.8	1755.4	1664.9	1540.4	1441.0	1428.5	1335.4
5°	2606.7	2604.2	2555.1	2506.1	2429.4	2308.7	2126.3	1895.0	1672.4	1653.5	1444.8
7.5°	3009.1	3012.8	2985.2	2947.5	2872.0	2747.5	2557.7	2278.5	1952.8	1915.1	1594.4
10°	3347.3	3346.1	3326.0	3308.3	3240.4	3157.5	2953.7	2646.9	2254.6	2195.5	1761.7
12.5°	3601.3	3610.1	3620.2	3637.8	3608.9	3527.1	3334.8	3000.3	2560.2	2494.8	1952.8
15°	3802.5	3805.0	3842.8	3910.7	3934.6	3891.8	3717.0	3342.3	2862.0	2805.4	2172.9
17.5°	3862.9	3867.9	3932.0	4056.5	4182.3	4206.2	4074.1	3686.8	3158.7	3098.4	2386.6
20°	3989.9	4001.2	4049.0	4158.4	4316.8	4445.1	4393.5	4035.2	3455.5	3376.3	2605.4
22.5°	4389.8	4396.0	4379.7	4393.5	4475.3	4623.6	4655.1	4372.2	3759.8	3675.5	2841.8
25°	5077.6	5080.1	4965.7	4857.5	4795.9	4823.6	4892.7	4682.7	4061.6	3978.6	3061.9
27.5°	5791.8	5800.6	5663.6	5480.0	5259.9	5134.2	5114.0	4966.9	4365.9	4274.1	3279.4
30°	6464.5	6464.5	6319.9	6096.1	5801.9	5556.7	5412.1	5253.6	4691.5	4590.9	3502.0
32.5°	7069.4	7064.3	6879.5	6636.8	6346.3	6077.3	5772.9	5552.9	5053.7	4941.8	3758.5
35°	7568.6	7556.0	7346.0	7113.4	6802.8	6602.9	6263.4	5874.8	5446.0	5334.1	4022.6
37.5°	7945.8	7932.0	7739.6	7493.1	7205.2	7075.7	6791.5	6260.8	5859.7	5757.9	4315.6
40°	8150.8	8123.1	7989.8	7806.2	7564.8	7451.6	7333.4	6739.9	6346.3	6219.3	4661.4
42.5°	8211.1	8178.4	8090.4	8004.9	7859.1	7769.8	7896.8	7280.6	6880.8	6771.4	5056.2
45°	8032.6	8013.7	8006.2	8067.8	8094.2	8119.3	8432.5	7879.2	7470.5	7387.5	5552.9
47.5°	7602.5	7597.5	7664.2	7920.7	8199.8	8465.1	9014.7	8617.3	8235.0	8145.8	6247.0
50°	6807.8	6859.4	7045.5	7495.7	8054.0	8661.3	9559.1	9640.9	9472.4	9341.6	7152.4
52.5°	5565.5	5664.8	6082.3	6766.3	7568.6	8606.0	9810.6	10460.7	10633.0	10497.2	7801.2
55°	4367.1	4460.2	4832.4	5700.0	6770.1	8184.7	9821.9	10743.6	11119.6	10993.9	8240.1
57.5°	3253.0	3338.5	3676.8	4506.7	5683.7	7356.1	9552.8	10900.8	11696.8	11616.3	8932.9
60°	2126.3	2210.6	2516.2	3241.7	4408.6	6148.9	8890.2	10868.1	12482.7	12475.2	9784.2
62.5°	1179.5	1246.1	1467.4	2033.3	3077.0	4762.0	7849.0	10539.9	13243.5	13291.2	10485.9
65°	603.6	646.3	780.9	1117.9	1862.3	3376.3	6479.6	9788.0	13595.5	13716.3	10670.7
67.5°	394.8	408.7	441.4	580.9	997.2	2123.8	4876.4	8582.1	13100.1	13240.9	10050.8
70°	320.6	332.0	350.8	387.3	514.3	1127.9	3202.7	6854.4	10946.1	11041.7	8003.7
72.5°	235.1	250.2	286.7	310.6	370.9	618.7	1666.1	4499.2	7517.0	7685.5	5029.8
75°	173.5	182.3	212.5	245.2	303.0	391.1	637.5	2365.3	3881.7	3783.7	2112.5
77.5°	104.4	110.7	135.8	157.2	216.3	243.9	222.6	873.9	1180.7	1110.3	510.5
80°	51.6	57.8	89.3	118.2	138.3	98.1	93.1	243.9	262.8	262.8	128.3
82.5°	17.6	22.6	47.8	78.0	67.9	37.7	44.0	62.9	70.4	74.2	37.7
85°	0.0	0.0	11.3	22.6	10.1	5.0	11.3	13.8	17.6	18.9	12.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	5.0	5.0
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°	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4	1252.4
2.5°	1285.1	1226.0	1136.7	1056.3	994.6	936.8	892.8	857.6	851.3	831.2	833.7
5°	1343.0	1236.1	1071.3	944.3	855.1	794.7	744.4	706.7	690.3	674.0	661.4
7.5°	1432.2	1277.6	1046.2	891.5	787.2	694.1	616.2	553.3	523.1	504.2	491.7
10°	1541.6	1335.4	1047.5	860.1	705.4	563.3	456.5	387.3	354.6	344.5	343.3
12.5°	1672.4	1408.3	1057.5	808.5	587.2	418.7	338.3	306.8	296.8	288.0	288.0
15°	1810.7	1490.1	1057.5	714.2	447.7	326.9	293.0	272.9	260.3	255.3	252.7
17.5°	1956.6	1566.8	1032.4	584.7	343.3	288.0	260.3	241.4	231.4	223.8	221.3
20°	2112.5	1639.7	969.5	447.7	294.2	257.8	231.4	212.5	202.4	194.9	194.9
22.5°	2271.0	1707.6	867.6	344.5	260.3	228.9	203.7	186.1	176.0	168.5	168.5
25°	2418.1	1752.9	736.9	284.2	235.1	203.7	181.1	163.5	152.2	147.1	144.6
27.5°	2555.1	1781.8	592.3	250.2	211.3	182.3	158.4	142.1	133.3	129.5	127.0
30°	2697.2	1789.4	452.7	227.6	191.1	161.0	138.3	125.7	118.2	113.2	113.2
32.5°	2835.5	1780.5	345.8	208.7	173.5	142.1	123.2	111.9	105.6	101.9	100.6
35°	2976.4	1740.3	280.4	192.4	155.9	124.5	109.4	100.6	96.8	91.8	91.8
37.5°	3129.8	1686.2	243.9	176.0	138.3	111.9	98.1	91.8	86.8	83.0	81.7
40°	3320.9	1623.4	223.8	162.2	122.0	100.6	88.0	81.7	78.0	74.2	72.9
42.5°	3547.3	1561.8	213.8	147.1	109.4	89.3	79.2	71.7	67.9	62.9	61.6
45°	3867.9	1547.9	202.4	130.8	98.1	80.5	69.2	61.6	56.6	52.8	51.6
47.5°	4383.5	1586.9	183.6	113.2	86.8	70.4	59.1	52.8	46.5	42.8	40.2
50°	4895.2	1576.8	164.7	98.1	76.7	60.4	50.3	44.0	37.7	34.0	32.7
52.5°	5174.4	1529.1	147.1	86.8	66.6	51.6	42.8	35.2	31.4	27.7	26.4
55°	5427.2	1510.2	129.5	75.4	56.6	45.3	35.2	28.9	26.4	22.6	21.4
57.5°	5922.6	1554.2	114.4	65.4	49.0	39.0	30.2	23.9	21.4	17.6	16.3
60°	6440.7	1559.2	98.1	56.6	42.8	32.7	23.9	18.9	16.3	12.6	11.3
62.5°	6711.0	1432.2	80.5	47.8	35.2	27.7	20.1	15.1	12.6	7.5	7.5
65°	6484.7	1158.1	67.9	39.0	27.7	21.4	15.1	11.3	7.5	3.8	1.3
67.5°	5739.0	823.6	56.6	31.4	20.1	15.1	11.3	7.5	1.3	0.0	0.0
70°	4202.4	470.3	44.0	22.6	15.1	10.1	7.5	3.8	0.0	0.0	0.0
72.5°	2582.8	251.5	32.7	15.1	11.3	7.5	6.3	2.5	0.0	0.0	0.0
75°	979.6	120.7	20.1	10.1	8.8	6.3	3.8	1.3	0.0	0.0	0.0
77.5°	265.3	59.1	11.3	7.5	6.3	3.8	2.5	0.0	0.0	0.0	0.0
80°	69.2	27.7	7.5	5.0	3.8	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	12.6	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
85°	10.1	5.0	2.5	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.3	1.3	1.3	1.3	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)