

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: P637559

Luminaire Tested: GWS-SA4D-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637559
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-SA4D-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14547.7 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

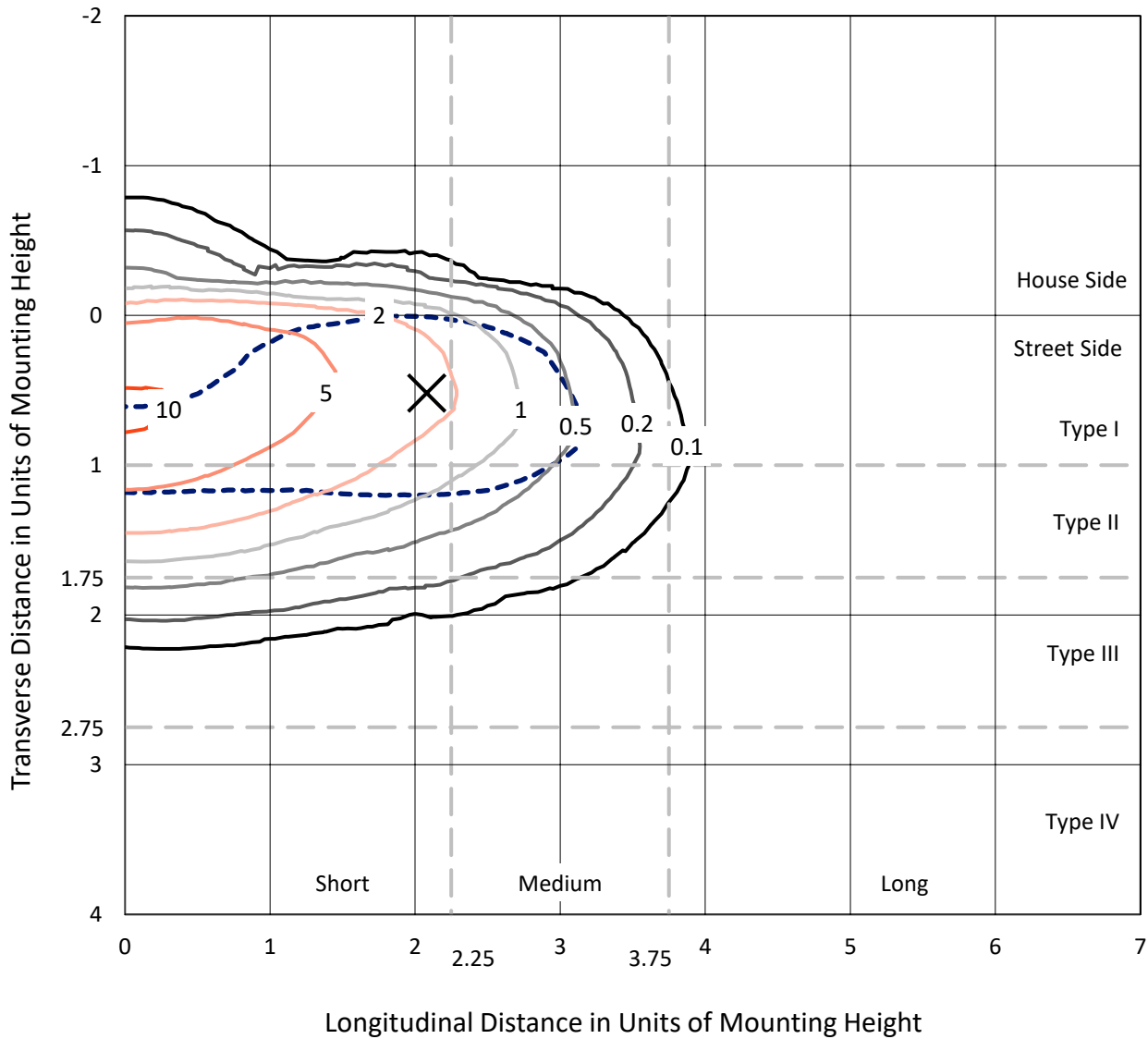
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

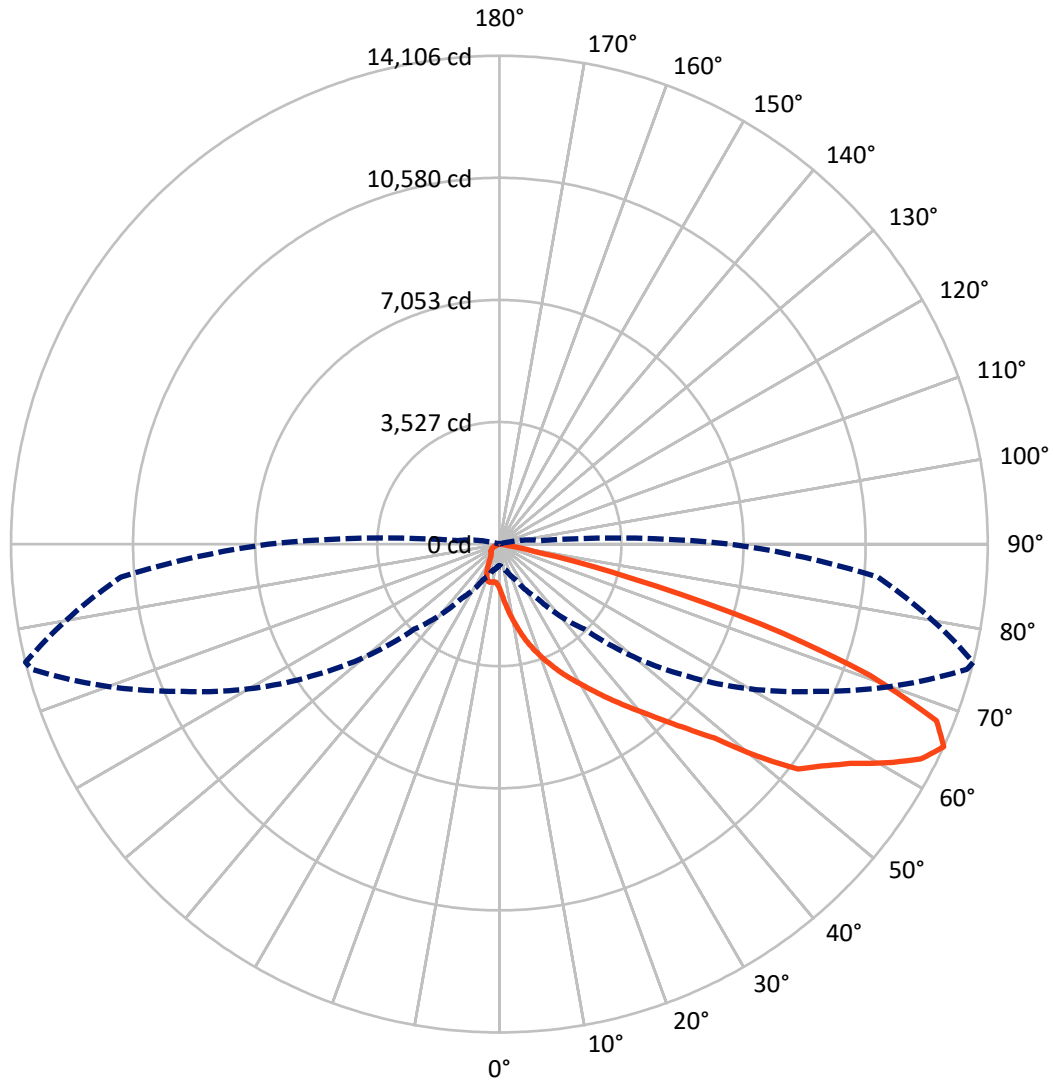
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 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	804.4	0.0	804.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	13743.3	0.0	13743.3
	% Fixture	94.5	0.0	94.5
Total	Lumens	14547.7	0.0	14547.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	1.1
10°-20°	594.6	4.1
20°-30°	1213.0	8.3
30°-40°	2157.4	14.8
40°-50°	3189.1	21.9
50°-60°	3651.3	25.1
60°-70°	2785.7	19.1
70°-80°	780.3	5.4
80°-90°	19.6	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°	14547.7	100.0
0°-180°	14547.7	100.0

Coefficient of Utilization



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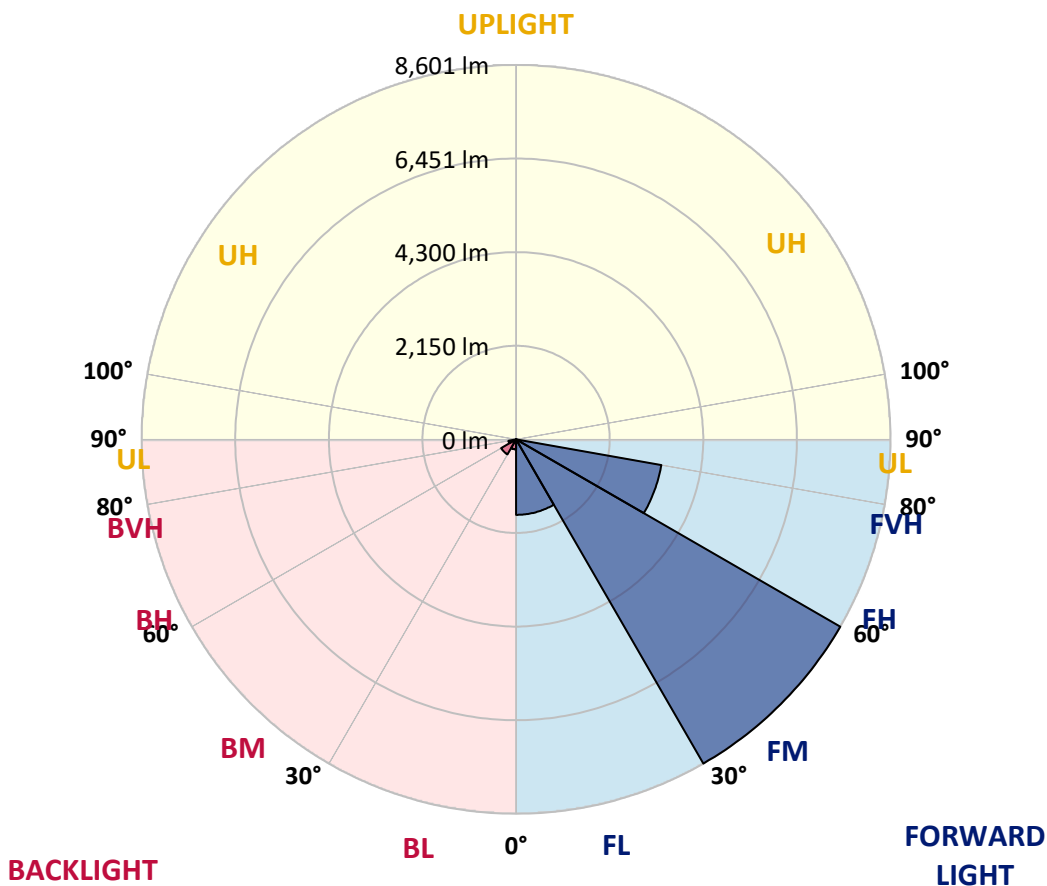
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.7	11.9			
FM (30°-60°)	8600.8	59.1			
FH (60°-80°)	3389.3	23.3			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	229.5	1.6	B1/500		
BM (30°-60°)	396.9	2.7	B1/1000		
BH (60°-80°)	176.8	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°	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0
2.5°	1985.0	2014.8	1991.5	1952.7	1877.7	1805.3	1712.2	1584.1	1482.0	1469.0	1373.4
5°	2680.8	2678.2	2627.7	2577.3	2498.4	2374.3	2186.8	1948.8	1719.9	1700.5	1485.9
7.5°	3094.6	3098.4	3070.0	3031.2	2953.6	2825.6	2630.3	2343.2	2008.3	1969.5	1639.7
10°	3442.4	3441.1	3420.4	3402.3	3332.5	3247.2	3037.7	2722.1	2318.7	2257.9	1811.7
12.5°	3703.7	3712.7	3723.1	3741.2	3711.4	3627.4	3429.5	3085.5	2632.9	2565.7	2008.3
15°	3910.6	3913.1	3951.9	4021.8	4046.3	4002.4	3822.6	3437.3	2943.3	2885.1	2234.6
17.5°	3972.6	3977.8	4043.8	4171.8	4301.1	4325.7	4189.9	3791.6	3248.5	3186.4	2454.4
20°	4103.2	4114.9	4164.0	4276.5	4439.5	4571.4	4518.4	4149.8	3553.6	3472.2	2679.5
22.5°	4514.5	4520.9	4504.1	4518.4	4602.4	4755.0	4787.3	4496.4	3866.6	3779.9	2922.6
25°	5221.8	5224.4	5106.7	4995.5	4932.2	4960.6	5031.7	4815.8	4177.0	4091.6	3148.9
27.5°	5956.4	5965.4	5824.5	5635.7	5409.4	5280.0	5259.3	5108.0	4489.9	4395.5	3372.6
30°	6648.2	6648.2	6499.5	6269.3	5966.7	5714.5	5565.8	5402.9	4824.8	4721.4	3601.5
32.5°	7270.2	7265.1	7075.0	6825.4	6526.7	6249.9	5937.0	5710.7	5197.3	5082.2	3865.3
35°	7783.6	7770.7	7554.7	7315.5	6996.1	6790.5	6441.3	6041.7	5600.7	5485.6	4136.9
37.5°	8171.6	8157.3	7959.5	7706.0	7409.9	7276.7	6984.4	6438.7	6026.2	5921.4	4438.2
40°	8382.4	8353.9	8216.8	8028.0	7779.7	7663.4	7541.8	6931.4	6526.7	6396.0	4793.8
42.5°	8444.4	8410.8	8320.3	8232.4	8082.3	7990.5	8121.1	7487.5	7076.3	6963.7	5199.9
45°	8260.8	8241.4	8233.6	8297.0	8324.2	8350.0	8672.0	8103.0	7682.8	7597.4	5710.7
47.5°	7818.5	7813.4	7881.9	8145.7	8432.8	8705.7	9270.8	8862.1	8469.0	8377.2	6424.5
50°	7001.2	7054.3	7245.7	7708.6	8282.8	8907.4	9830.7	9914.8	9741.5	9607.0	7355.6
52.5°	5723.6	5825.8	6255.1	6958.6	7783.6	8850.5	10089.3	10757.9	10935.1	10795.4	8022.9
55°	4491.2	4586.9	4969.7	5862.0	6962.5	8417.3	10101.0	11048.9	11435.5	11306.2	8474.2
57.5°	3345.4	3433.4	3781.2	4634.7	5845.1	7565.1	9824.2	11210.5	12029.1	11946.3	9186.7
60°	2186.8	2273.4	2587.6	3333.8	4533.9	6323.6	9142.7	11176.9	12837.3	12829.6	10062.2
62.5°	1213.0	1281.5	1509.1	2091.1	3164.4	4897.3	8072.0	10839.4	13619.7	13668.9	10783.8
65°	620.7	664.7	803.1	1149.6	1915.2	3472.2	6663.7	10066.1	13981.8	14106.0	10973.9
67.5°	406.1	420.3	453.9	597.4	1025.5	2184.2	5014.9	8825.9	13472.3	13617.1	10336.3
70°	329.8	341.4	360.8	398.3	528.9	1160.0	3293.7	7049.1	11257.1	11355.4	8231.1
72.5°	241.8	257.3	294.8	319.4	381.5	636.2	1713.5	4627.0	7730.6	7903.9	5172.7
75°	178.5	187.5	218.5	252.2	311.7	402.2	655.6	2432.5	3992.0	3891.2	2172.5
77.5°	107.3	113.8	139.7	161.6	222.4	250.9	228.9	898.8	1214.3	1141.9	525.0
80°	53.0	59.5	91.8	121.6	142.2	100.9	95.7	250.9	270.3	270.3	131.9
82.5°	18.1	23.3	49.1	80.2	69.8	38.8	45.3	64.7	72.4	76.3	38.8
85°	0.0	0.0	11.6	23.3	10.3	5.2	11.6	14.2	18.1	19.4	12.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	5.2	5.2
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°	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0	1288.0
2.5°	1321.6	1260.8	1169.0	1086.3	1022.9	963.4	918.2	881.9	875.5	854.8	857.4
5°	1381.1	1271.2	1101.8	971.2	879.4	817.3	765.6	726.8	710.0	693.1	680.2
7.5°	1472.9	1313.9	1075.9	916.9	809.5	713.8	633.7	569.0	538.0	518.6	505.6
10°	1585.4	1373.4	1077.2	884.5	725.5	579.3	469.4	398.3	364.7	354.3	353.0
12.5°	1719.9	1448.4	1087.6	831.5	603.9	430.6	347.9	315.5	305.2	296.1	296.1
15°	1862.2	1532.4	1087.6	734.5	460.4	336.2	301.3	280.6	267.7	262.5	259.9
17.5°	2012.2	1611.3	1061.7	601.3	353.0	296.1	267.7	248.3	237.9	230.2	227.6
20°	2172.5	1686.3	997.0	460.4	302.6	265.1	237.9	218.5	208.2	200.4	200.4
22.5°	2335.5	1756.1	892.3	354.3	267.7	235.4	209.5	191.4	181.0	173.3	173.3
25°	2486.8	1802.7	757.8	292.3	241.8	209.5	186.2	168.1	156.5	151.3	148.7
27.5°	2627.7	1832.4	609.1	257.3	217.3	187.5	162.9	146.1	137.1	133.2	130.6
30°	2773.9	1840.2	465.5	234.1	196.6	165.5	142.2	129.3	121.6	116.4	116.4
32.5°	2916.1	1831.1	355.6	214.7	178.5	146.1	126.7	115.1	108.6	104.7	103.5
35°	3060.9	1789.8	288.4	197.9	160.4	128.0	112.5	103.5	99.6	94.4	94.4
37.5°	3218.7	1734.1	250.9	181.0	142.2	115.1	100.9	94.4	89.2	85.3	84.1
40°	3415.3	1669.5	230.2	166.8	125.4	103.5	90.5	84.1	80.2	76.3	75.0
42.5°	3648.0	1606.1	219.8	151.3	112.5	91.8	81.5	73.7	69.8	64.7	63.4
45°	3977.8	1591.9	208.2	134.5	100.9	82.8	71.1	63.4	58.2	54.3	53.0
47.5°	4508.0	1632.0	188.8	116.4	89.2	72.4	60.8	54.3	47.8	44.0	41.4
50°	5034.3	1621.6	169.4	100.9	78.9	62.1	51.7	45.3	38.8	34.9	33.6
52.5°	5321.4	1572.5	151.3	89.2	68.5	53.0	44.0	36.2	32.3	28.4	27.2
55°	5581.3	1553.1	133.2	77.6	58.2	46.6	36.2	29.7	27.2	23.3	22.0
57.5°	6090.9	1598.4	117.7	67.2	50.4	40.1	31.0	24.6	22.0	18.1	16.8
60°	6623.6	1603.5	100.9	58.2	44.0	33.6	24.6	19.4	16.8	12.9	11.6
62.5°	6901.7	1472.9	82.8	49.1	36.2	28.4	20.7	15.5	12.9	7.8	7.8
65°	6668.9	1191.0	69.8	40.1	28.4	22.0	15.5	11.6	7.8	3.9	1.3
67.5°	5902.0	847.0	58.2	32.3	20.7	15.5	11.6	7.8	1.3	0.0	0.0
70°	4321.8	483.6	45.3	23.3	15.5	10.3	7.8	3.9	0.0	0.0	0.0
72.5°	2656.2	258.6	33.6	15.5	11.6	7.8	6.5	2.6	0.0	0.0	0.0
75°	1007.4	124.1	20.7	10.3	9.1	6.5	3.9	1.3	0.0	0.0	0.0
77.5°	272.9	60.8	11.6	7.8	6.5	3.9	2.6	0.0	0.0	0.0	0.0
80°	71.1	28.4	7.8	5.2	3.9	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	24.6	12.9	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	10.3	5.2	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	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)