

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: P636019

Luminaire Tested: GWS-SA3E-830-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636019
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-SA3E-830-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14089.1 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

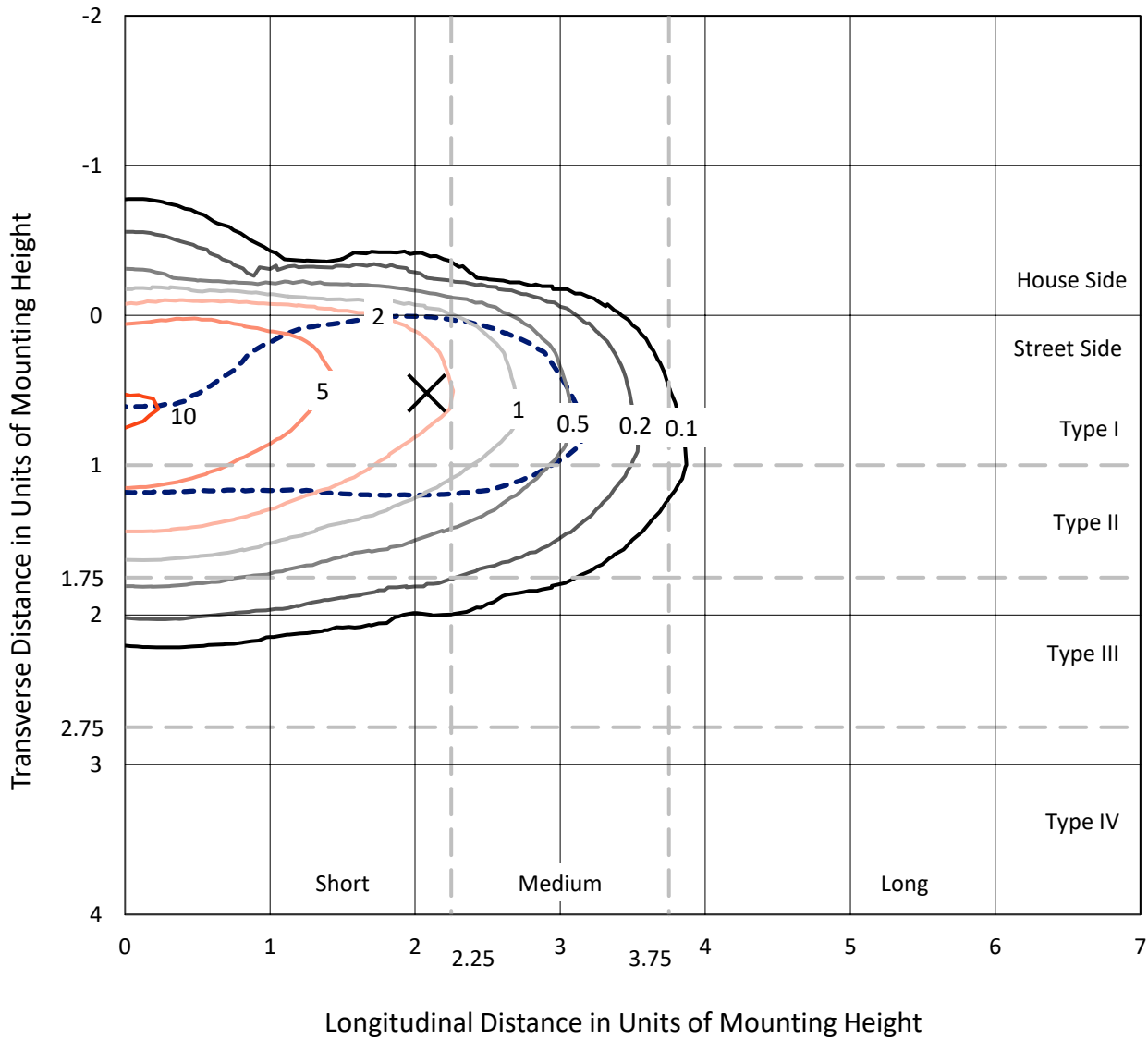
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

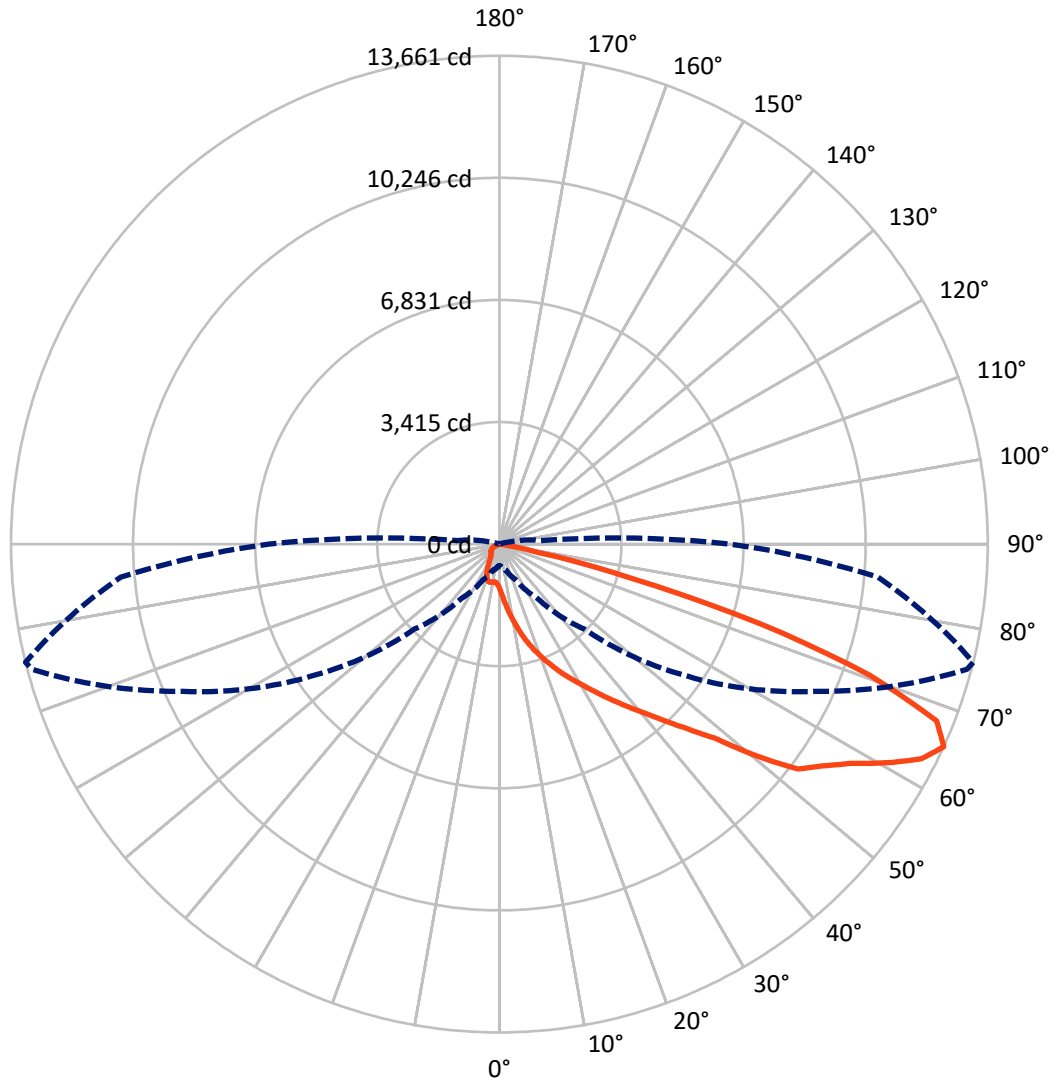
✕ Max cd
 - - - 1/2 Max cd



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	779.1	0.0	779.1
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	13310.1	0.0	13310.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	14089.1	0.0	14089.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.1
10°-20°	575.8	4.1
20°-30°	1174.8	8.3
30°-40°	2089.4	14.8
40°-50°	3088.6	21.9
50°-60°	3536.2	25.1
60°-70°	2697.9	19.1
70°-80°	755.7	5.4
80°-90°	19.0	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°	14089.1	100.0
0°-180°	14089.1	100.0

Coefficient of Utilization



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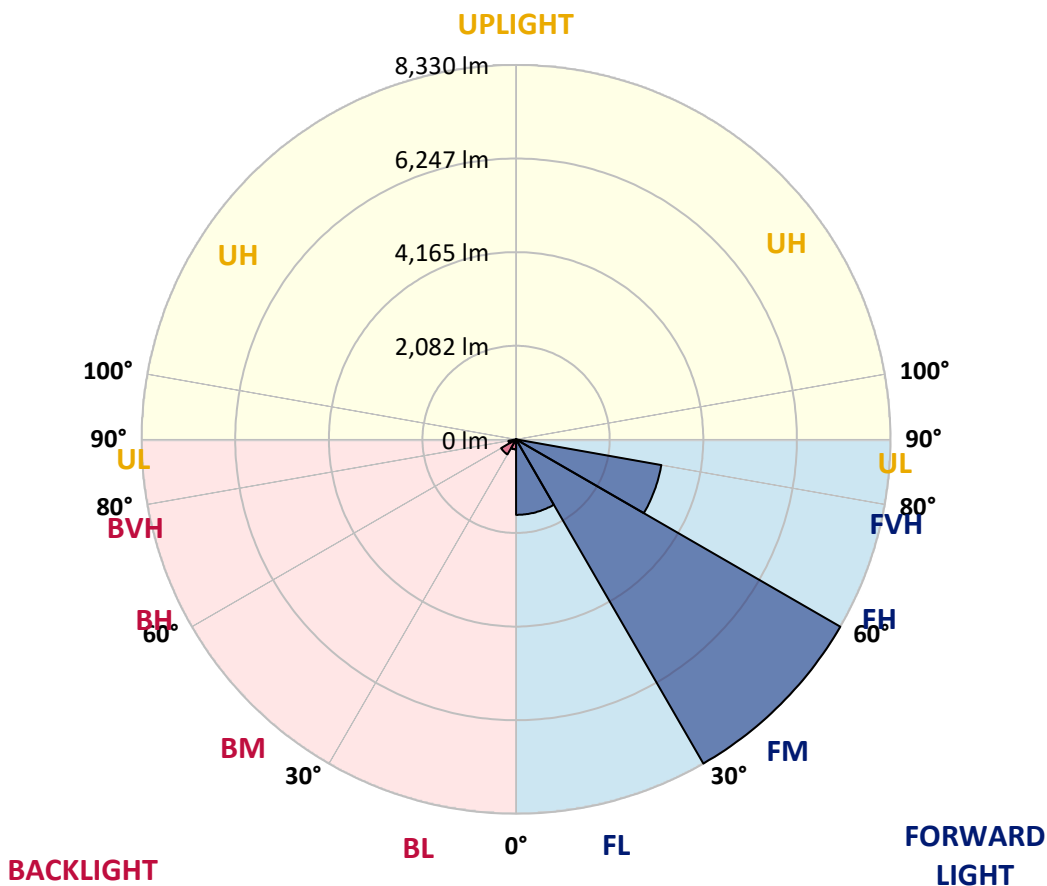
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.0	11.9			
FM (30°-60°)	8329.7	59.1			
FH (60°-80°)	3282.4	23.3			G2/5000
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	222.3	1.6	B1/500		
BM (30°-60°)	384.4	2.7	B1/1000		
BH (60°-80°)	171.3	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°	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1922.4	1951.3	1928.7	1891.1	1818.5	1748.4	1658.2	1534.2	1435.3	1422.7	1330.1
5°	2596.2	2593.7	2544.9	2496.1	2419.7	2299.4	2117.8	1887.4	1665.7	1646.9	1439.0
7.5°	2997.0	3000.8	2973.2	2935.6	2860.5	2736.5	2547.4	2269.4	1945.0	1907.4	1588.1
10°	3333.9	3332.7	3312.6	3295.1	3227.5	3144.8	2941.9	2636.3	2245.6	2186.7	1754.6
12.5°	3586.9	3595.7	3605.7	3623.2	3594.4	3513.0	3321.4	2988.2	2549.9	2484.8	1945.0
15°	3787.3	3789.8	3827.4	3895.0	3918.8	3876.2	3702.1	3328.9	2850.5	2794.1	2164.2
17.5°	3847.4	3852.4	3916.3	4040.3	4165.5	4189.3	4057.8	3672.1	3146.1	3085.9	2377.1
20°	3973.9	3985.2	4032.8	4141.7	4299.5	4427.3	4375.9	4019.0	3441.6	3362.7	2595.0
22.5°	4372.2	4378.4	4362.1	4375.9	4457.3	4605.1	4636.4	4354.6	3744.7	3660.8	2830.4
25°	5057.2	5059.7	4945.8	4838.1	4776.7	4804.2	4873.1	4664.0	4045.3	3962.6	3049.6
27.5°	5768.6	5777.4	5640.8	5458.0	5238.8	5113.6	5093.5	4947.0	4348.4	4256.9	3266.3
30°	6438.6	6438.6	6294.6	6071.7	5778.6	5534.4	5390.4	5232.6	4672.7	4572.5	3488.0
32.5°	7041.0	7036.0	6851.9	6610.2	6320.9	6052.9	5749.8	5530.6	5033.4	4922.0	3743.5
35°	7538.2	7525.7	7316.6	7084.9	6775.5	6576.4	6238.2	5851.3	5424.2	5312.7	4006.5
37.5°	7914.0	7900.2	7708.6	7463.1	7176.3	7047.3	6764.3	6235.7	5836.2	5734.8	4298.3
40°	8118.1	8090.6	7957.8	7775.0	7534.5	7421.8	7304.0	6712.9	6320.9	6194.4	4642.7
42.5°	8178.2	8145.7	8058.0	7972.8	7827.6	7738.6	7865.1	7251.4	6853.2	6744.2	5035.9
45°	8000.4	7981.6	7974.1	8035.5	8061.8	8086.8	8398.7	7847.6	7440.6	7357.9	5530.6
47.5°	7572.1	7567.1	7633.4	7888.9	8167.0	8431.2	8978.5	8582.8	8202.0	8113.1	6222.0
50°	6780.5	6831.9	7017.2	7465.6	8021.7	8626.6	9520.8	9602.2	9434.4	9304.1	7123.7
52.5°	5543.2	5642.1	6057.9	6739.2	7538.2	8571.5	9771.3	10418.8	10590.4	10455.1	7769.9
55°	4349.6	4442.3	4813.0	5677.2	6743.0	8151.9	9782.6	10700.6	11075.1	10949.8	8207.0
57.5°	3240.0	3325.1	3662.0	4488.6	5660.9	7326.6	9514.6	10857.1	11649.9	11569.8	8897.1
60°	2117.8	2201.7	2506.1	3228.7	4390.9	6124.3	8854.5	10824.6	12432.7	12425.1	9745.0
62.5°	1174.8	1241.1	1461.6	2025.1	3064.6	4742.9	7817.5	10497.7	13190.4	13238.0	10443.8
65°	601.2	643.7	777.7	1113.4	1854.8	3362.7	6453.7	9748.8	13541.0	13661.3	10627.9
67.5°	393.3	407.0	439.6	578.6	993.2	2115.3	4856.8	8547.7	13047.6	13187.9	10010.5
70°	319.4	330.6	349.4	385.7	512.2	1123.4	3189.9	6826.9	10902.2	10997.4	7971.6
72.5°	234.2	249.2	285.5	309.3	369.5	616.2	1659.4	4481.1	7486.9	7654.7	5009.6
75°	172.8	181.6	211.7	244.2	301.8	389.5	635.0	2355.8	3866.2	3768.5	2104.0
77.5°	103.9	110.2	135.3	156.6	215.4	243.0	221.7	870.4	1176.0	1105.9	508.5
80°	51.3	57.6	88.9	117.7	137.8	97.7	92.7	243.0	261.8	261.8	127.7
82.5°	17.5	22.5	47.6	77.6	67.6	37.6	43.8	62.6	70.1	73.9	37.6
85°	0.0	0.0	11.3	22.5	10.0	5.0	11.3	13.8	17.5	18.8	12.5
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°	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4	1247.4
2.5°	1280.0	1221.1	1132.2	1052.0	990.7	933.0	889.2	854.1	847.9	827.8	830.3
5°	1337.6	1231.1	1067.1	940.6	851.6	791.5	741.4	703.9	687.6	671.3	658.8
7.5°	1426.5	1272.4	1042.0	888.0	784.0	691.3	613.7	551.1	521.0	502.2	489.7
10°	1535.5	1330.1	1043.3	856.6	702.6	561.1	454.6	385.7	353.2	343.2	341.9
12.5°	1665.7	1402.7	1053.3	805.3	584.9	417.1	336.9	305.6	295.6	286.8	286.8
15°	1803.5	1484.1	1053.3	711.4	445.9	325.6	291.8	271.8	259.2	254.2	251.7
17.5°	1948.7	1560.5	1028.2	582.4	341.9	286.8	259.2	240.5	230.4	222.9	220.4
20°	2104.0	1633.1	965.6	445.9	293.1	256.7	230.4	211.7	201.6	194.1	194.1
22.5°	2261.9	1700.8	864.2	343.2	259.2	227.9	202.9	185.4	175.3	167.8	167.8
25°	2408.4	1745.9	733.9	283.0	234.2	202.9	180.3	162.8	151.5	146.5	144.0
27.5°	2544.9	1774.7	589.9	249.2	210.4	181.6	157.8	141.5	132.8	129.0	126.5
30°	2686.4	1782.2	450.9	226.7	190.4	160.3	137.8	125.2	117.7	112.7	112.7
32.5°	2824.2	1773.4	344.4	207.9	172.8	141.5	122.7	111.5	105.2	101.4	100.2
35°	2964.5	1733.3	279.3	191.6	155.3	124.0	109.0	100.2	96.4	91.4	91.4
37.5°	3117.2	1679.5	243.0	175.3	137.8	111.5	97.7	91.4	86.4	82.7	81.4
40°	3307.6	1616.9	222.9	161.6	121.5	100.2	87.7	81.4	77.6	73.9	72.6
42.5°	3533.0	1555.5	212.9	146.5	109.0	88.9	78.9	71.4	67.6	62.6	61.4
45°	3852.4	1541.7	201.6	130.3	97.7	80.2	68.9	61.4	56.4	52.6	51.3
47.5°	4365.9	1580.5	182.9	112.7	86.4	70.1	58.9	52.6	46.3	42.6	40.1
50°	4875.6	1570.5	164.1	97.7	76.4	60.1	50.1	43.8	37.6	33.8	32.6
52.5°	5153.7	1522.9	146.5	86.4	66.4	51.3	42.6	35.1	31.3	27.6	26.3
55°	5405.4	1504.1	129.0	75.1	56.4	45.1	35.1	28.8	26.3	22.5	21.3
57.5°	5898.8	1548.0	114.0	65.1	48.8	38.8	30.1	23.8	21.3	17.5	16.3
60°	6414.8	1553.0	97.7	56.4	42.6	32.6	23.8	18.8	16.3	12.5	11.3
62.5°	6684.1	1426.5	80.2	47.6	35.1	27.6	20.0	15.0	12.5	7.5	7.5
65°	6458.7	1153.5	67.6	38.8	27.6	21.3	15.0	11.3	7.5	3.8	1.3
67.5°	5716.0	820.3	56.4	31.3	20.0	15.0	11.3	7.5	1.3	0.0	0.0
70°	4185.6	468.4	43.8	22.5	15.0	10.0	7.5	3.8	0.0	0.0	0.0
72.5°	2572.4	250.5	32.6	15.0	11.3	7.5	6.3	2.5	0.0	0.0	0.0
75°	975.6	120.2	20.0	10.0	8.8	6.3	3.8	1.3	0.0	0.0	0.0
77.5°	264.3	58.9	11.3	7.5	6.3	3.8	2.5	0.0	0.0	0.0	0.0
80°	68.9	27.6	7.5	5.0	3.8	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	23.8	12.5	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
85°	10.0	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)