

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: P638794

Luminaire Tested: GWS-SA4F-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638794
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-SA4F-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29186.7 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

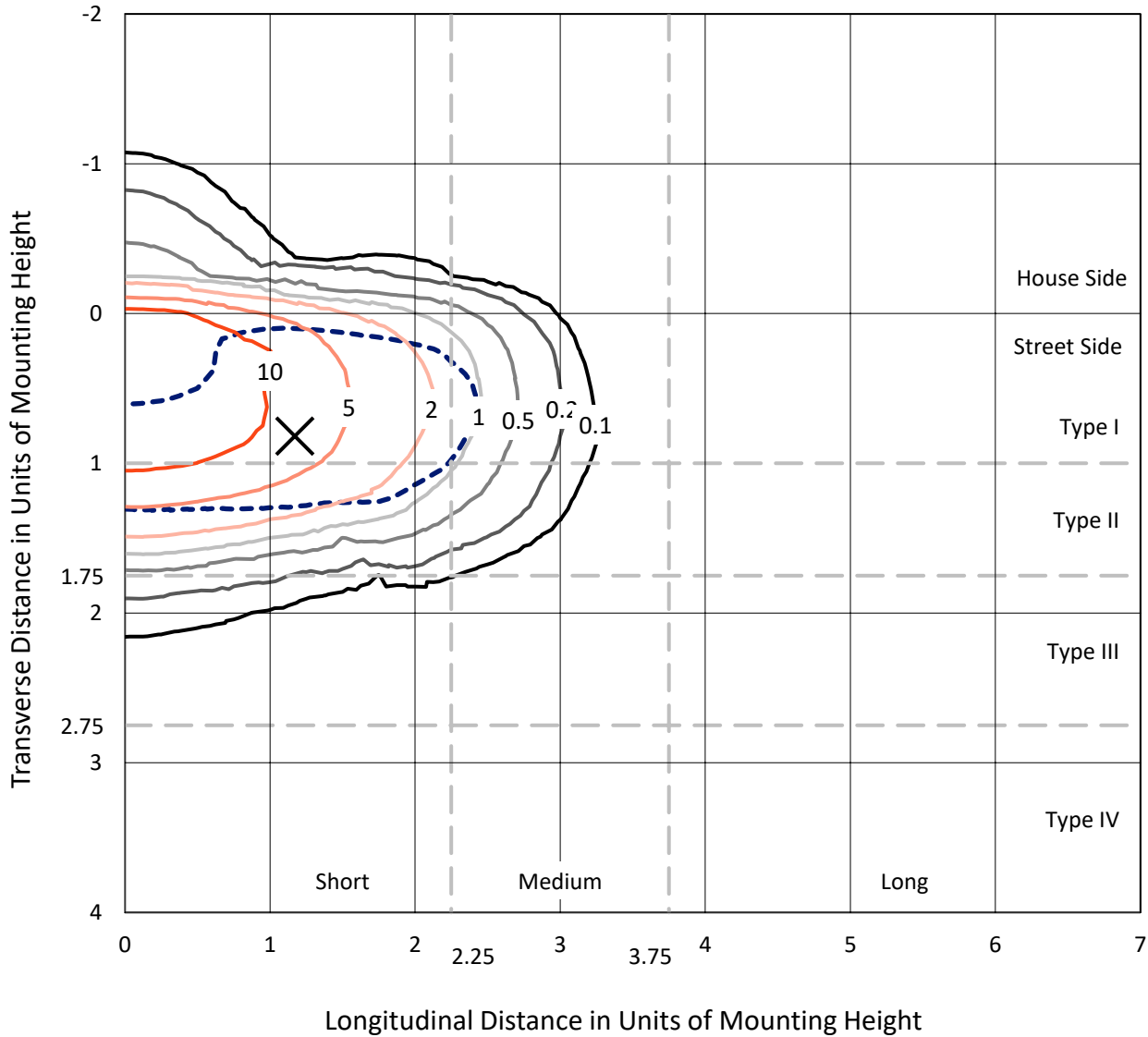
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

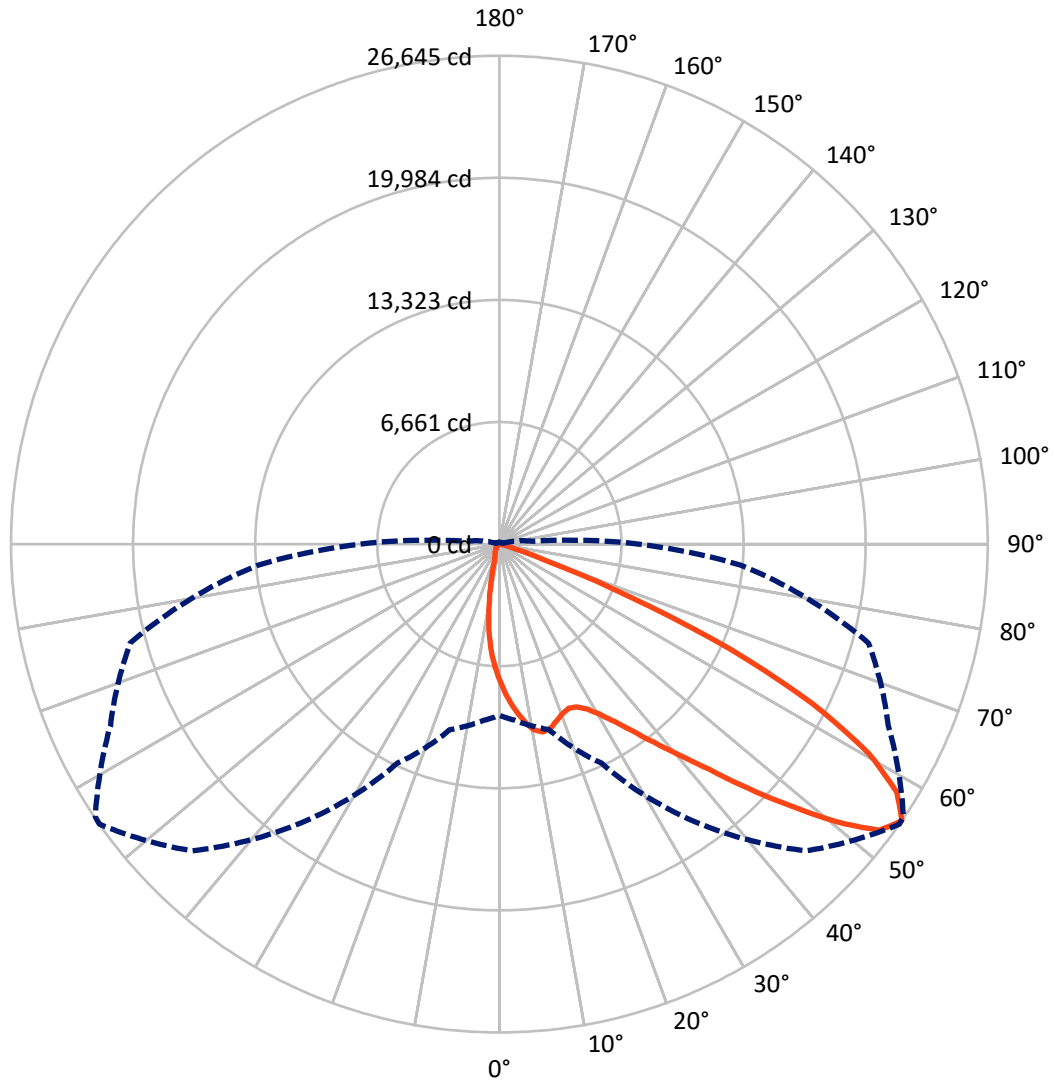
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	1801.0	0.0	1801.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	27385.8	0.0	27385.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	29186.7	0.0	29186.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.4	2.3
10°-20°	1606.5	5.5
20°-30°	2675.5	9.2
30°-40°	4559.2	15.6
40°-50°	7442.2	25.5
50°-60°	7791.7	26.7
60°-70°	3929.9	13.5
70°-80°	496.4	1.7
80°-90°	18.9	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°	29186.7	100.0
0°-180°	29186.7	100.0

Coefficient of Utilization



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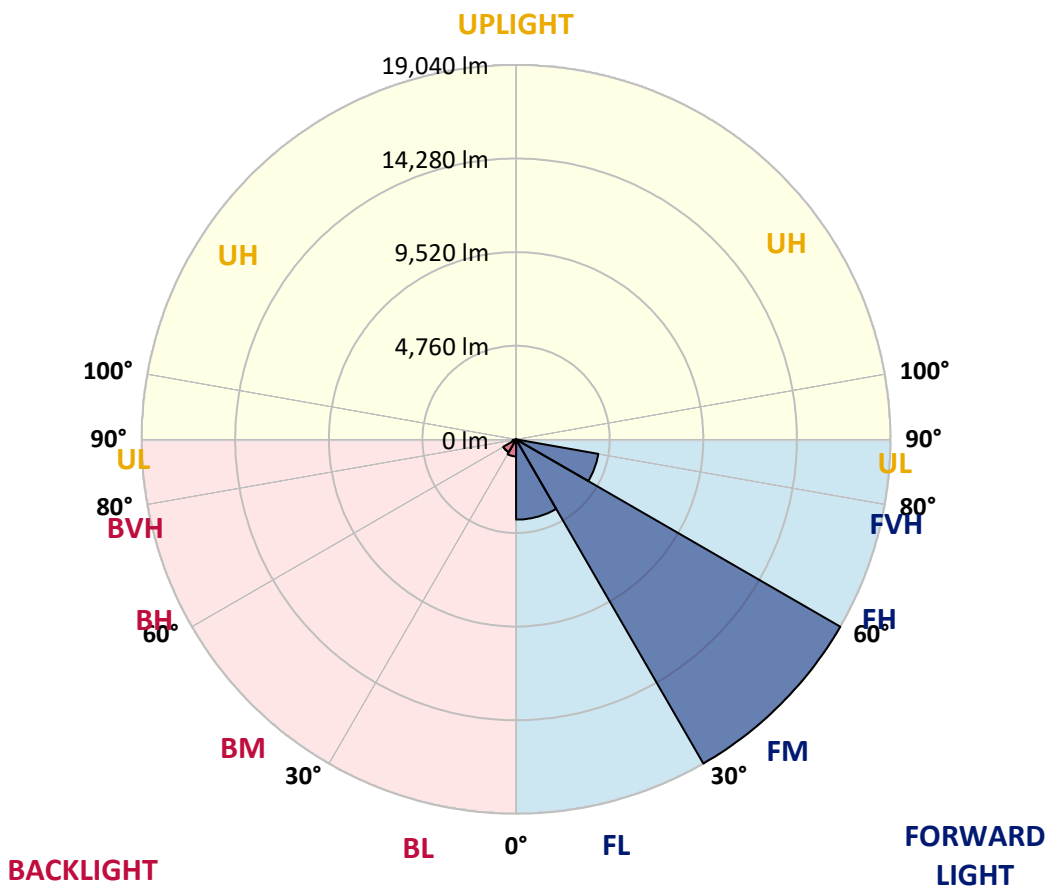
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4082.8	14.0			
FM (30°-60°)	19040.1	65.2			
FH (60°-80°)	4245.7	14.5			G2/5000
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	865.6	3.0	B2/1000		
BM (30°-60°)	753.0	2.6	B1/1000		
BH (60°-80°)	180.7	0.6	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1
2.5°	8790.2	8747.8	8812.6	8737.8	8610.5	8503.2	8363.5	8313.6	8089.1	7877.0	7672.4
5°	9858.1	9870.5	9850.6	9745.8	9566.1	9366.5	9084.6	9022.2	8630.5	8226.3	7789.6
7.5°	10122.5	10115.1	10157.5	10197.4	10167.5	10067.7	9760.8	9698.4	9211.8	8605.5	7969.3
10°	9306.7	9311.6	9399.0	9668.4	10002.8	10349.6	10302.2	10267.3	9790.7	9034.7	8168.9
12.5°	8153.9	8198.8	8291.2	8675.4	9241.8	10030.2	10519.3	10554.2	10322.1	9506.3	8403.4
15°	7654.9	7664.9	7739.7	7971.8	8393.5	9366.5	10426.9	10524.3	10766.3	9980.3	8657.9
17.5°	7642.4	7654.9	7687.3	7789.6	8064.1	8845.1	10130.0	10299.7	11100.6	10489.3	8962.3
20°	8111.5	8104.0	8081.6	8026.7	8146.4	8672.9	9855.6	10042.7	11282.8	10985.8	9269.2
22.5°	8962.3	8952.3	8852.5	8625.5	8528.2	8830.1	9720.8	9890.5	11392.5	11427.5	9521.2
25°	9942.9	10012.8	9825.6	9481.3	9241.8	9231.8	9840.6	9960.4	11487.4	11819.2	9693.4
27.5°	11018.3	11040.7	10881.0	10494.3	10147.5	9875.5	10187.4	10277.2	11592.1	12168.5	9790.7
30°	12198.4	12191.0	12008.8	11559.7	11138.0	10746.3	10771.3	10806.2	11836.7	12567.7	9898.0
32.5°	13673.0	13705.5	13381.1	12769.8	12263.3	11721.9	11534.8	11539.7	12278.3	13081.7	10060.2
35°	15676.6	15596.7	15167.6	14296.8	13433.5	12849.7	12530.3	12502.8	12959.4	13772.8	10342.1
37.5°	17585.3	17592.8	17143.7	16185.6	15095.2	14174.6	13722.9	13648.1	13917.6	14731.0	10811.2
40°	18910.2	18935.2	18748.0	18246.5	17091.3	15788.9	15125.2	15047.8	15160.1	15943.6	11425.0
42.5°	19611.3	19681.2	19733.6	19850.9	18975.1	17804.9	16784.4	16776.9	16659.7	17325.8	12136.1
45°	19638.8	19743.6	20062.9	20863.9	20963.7	20105.4	18995.0	18827.9	18376.3	18805.4	12772.3
47.5°	18553.4	18795.4	19474.1	21061.0	22108.9	22393.3	21293.0	21190.7	19923.2	19975.6	13248.9
50°	16023.4	16275.4	17525.4	20050.5	22398.3	24209.8	23815.5	23603.5	21215.7	20749.1	13478.4
52.5°	13428.5	13658.1	14506.4	17645.2	21198.2	24781.1	25941.4	25689.4	22375.9	21018.6	13383.6
55°	9344.1	9651.0	10479.3	13189.0	18433.7	23668.3	26645.0	26592.6	23411.3	20848.9	13236.4
57.5°	4581.0	4885.4	5711.2	8131.5	13655.6	20664.3	25569.6	25846.5	24030.1	20666.8	13116.6
60°	1913.7	2038.5	2322.9	3568.0	7639.9	15616.7	23141.9	23526.1	23650.9	20419.7	13104.2
62.5°	1110.3	1130.3	1160.2	1479.6	2971.6	8952.3	19197.2	19743.6	21657.3	20092.9	12907.1
65°	838.3	845.8	833.4	908.2	1227.6	3395.8	13870.2	14613.7	18076.9	18815.4	12128.6
67.5°	688.6	688.6	656.2	671.2	771.0	1272.5	7657.4	8695.4	13376.1	15464.5	10015.3
70°	548.9	561.4	546.4	526.5	551.4	703.6	2724.6	3378.3	7789.6	9132.0	5841.0
72.5°	416.7	416.7	441.6	426.7	409.2	441.6	950.6	1067.9	3126.3	3807.5	2108.3
75°	321.9	331.8	349.3	334.3	309.4	262.0	456.6	484.0	943.1	885.8	471.6
77.5°	164.7	167.2	222.1	244.5	229.5	159.7	199.6	219.6	306.9	274.5	174.7
80°	99.8	104.8	124.8	192.1	152.2	84.8	82.3	87.3	144.7	124.8	72.4
82.5°	42.4	44.9	69.9	69.9	62.4	32.4	32.4	32.4	69.9	64.9	29.9
85°	0.0	0.0	12.5	10.0	10.0	12.5	12.5	12.5	17.5	25.0	15.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.5	7.5
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°	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1	7540.1
2.5°	7540.1	7380.4	7165.9	6971.3	6709.3	6562.1	6357.5	6190.3	6048.1	6003.2	5983.2
5°	7542.6	7268.2	6809.1	6350.0	5786.1	5342.0	4885.4	4523.6	4226.7	4131.9	4106.9
7.5°	7592.5	7188.3	6444.8	5611.4	4668.3	3889.8	3193.7	2569.9	2280.5	2183.2	2163.2
10°	7659.9	7121.0	6023.1	4725.7	3370.9	2370.3	1679.2	1280.0	1090.4	985.6	1000.5
12.5°	7747.2	7066.1	5556.5	3767.6	2230.6	1302.4	923.2	773.5	733.6	713.6	703.6
15°	7864.5	7001.2	4977.7	2816.9	1367.3	838.3	711.1	671.2	656.2	646.2	643.7
17.5°	7984.3	6926.3	4388.8	1981.1	908.2	696.1	638.7	618.8	608.8	601.3	598.8
20°	8111.5	6799.1	3697.7	1364.8	716.1	626.3	588.8	566.4	553.9	541.4	538.9
22.5°	8166.4	6594.5	3036.5	955.6	636.2	576.4	529.0	501.5	486.5	476.6	476.6
25°	8114.0	6262.7	2352.9	726.1	578.9	521.5	474.1	444.1	431.6	421.7	421.7
27.5°	7974.3	5836.0	1716.6	601.3	516.5	464.1	419.2	391.7	381.7	376.8	376.8
30°	7819.6	5297.1	1210.1	516.5	446.6	404.2	366.8	349.3	346.8	341.8	341.8
32.5°	7687.3	4793.0	833.4	454.1	394.2	351.8	326.9	319.4	321.9	316.9	319.4
35°	7615.0	4299.0	618.8	404.2	351.8	311.9	299.4	299.4	299.4	296.9	296.9
37.5°	7644.9	3812.5	504.0	369.3	314.4	284.4	272.0	277.0	281.9	281.9	281.9
40°	7794.6	3380.8	446.6	336.8	281.9	259.5	249.5	257.0	264.5	269.5	269.5
42.5°	7984.3	3031.5	404.2	309.4	259.5	234.5	229.5	237.0	244.5	249.5	249.5
45°	8104.0	2679.7	361.8	274.5	237.0	207.1	207.1	217.1	214.6	217.1	217.1
47.5°	8158.9	2400.3	319.4	237.0	202.1	179.6	182.1	187.1	182.1	187.1	187.1
50°	8024.2	2118.3	281.9	197.1	167.2	157.2	162.2	159.7	159.7	169.7	169.7
52.5°	7777.2	1908.7	249.5	167.2	142.2	139.7	144.7	134.7	137.2	137.2	134.7
55°	7595.0	1789.0	222.1	144.7	122.3	124.8	122.3	104.8	94.8	84.8	82.3
57.5°	7505.2	1741.6	202.1	129.7	109.8	109.8	99.8	72.4	54.9	42.4	37.4
60°	7485.2	1684.2	182.1	112.3	97.3	92.3	72.4	42.4	27.4	20.0	17.5
62.5°	7295.6	1544.5	164.7	89.8	84.8	74.9	44.9	25.0	15.0	10.0	7.5
65°	6674.3	1270.0	147.2	69.9	64.9	54.9	27.4	15.0	7.5	2.5	0.0
67.5°	5309.5	900.7	129.7	52.4	44.9	34.9	17.5	10.0	2.5	0.0	0.0
70°	3061.5	486.5	107.3	37.4	29.9	22.5	12.5	5.0	0.0	0.0	0.0
72.5°	1023.0	227.1	82.3	25.0	22.5	17.5	7.5	2.5	0.0	0.0	0.0
75°	224.6	134.7	54.9	17.5	15.0	12.5	5.0	0.0	0.0	0.0	0.0
77.5°	84.8	94.8	27.4	12.5	10.0	7.5	2.5	0.0	0.0	0.0	0.0
80°	32.4	62.4	12.5	7.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.5	25.0	7.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	12.5	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	2.5	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)