

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: P638024

Luminaire Tested: GWS-SA4E-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638024
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-SA4E-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: 18903.4 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

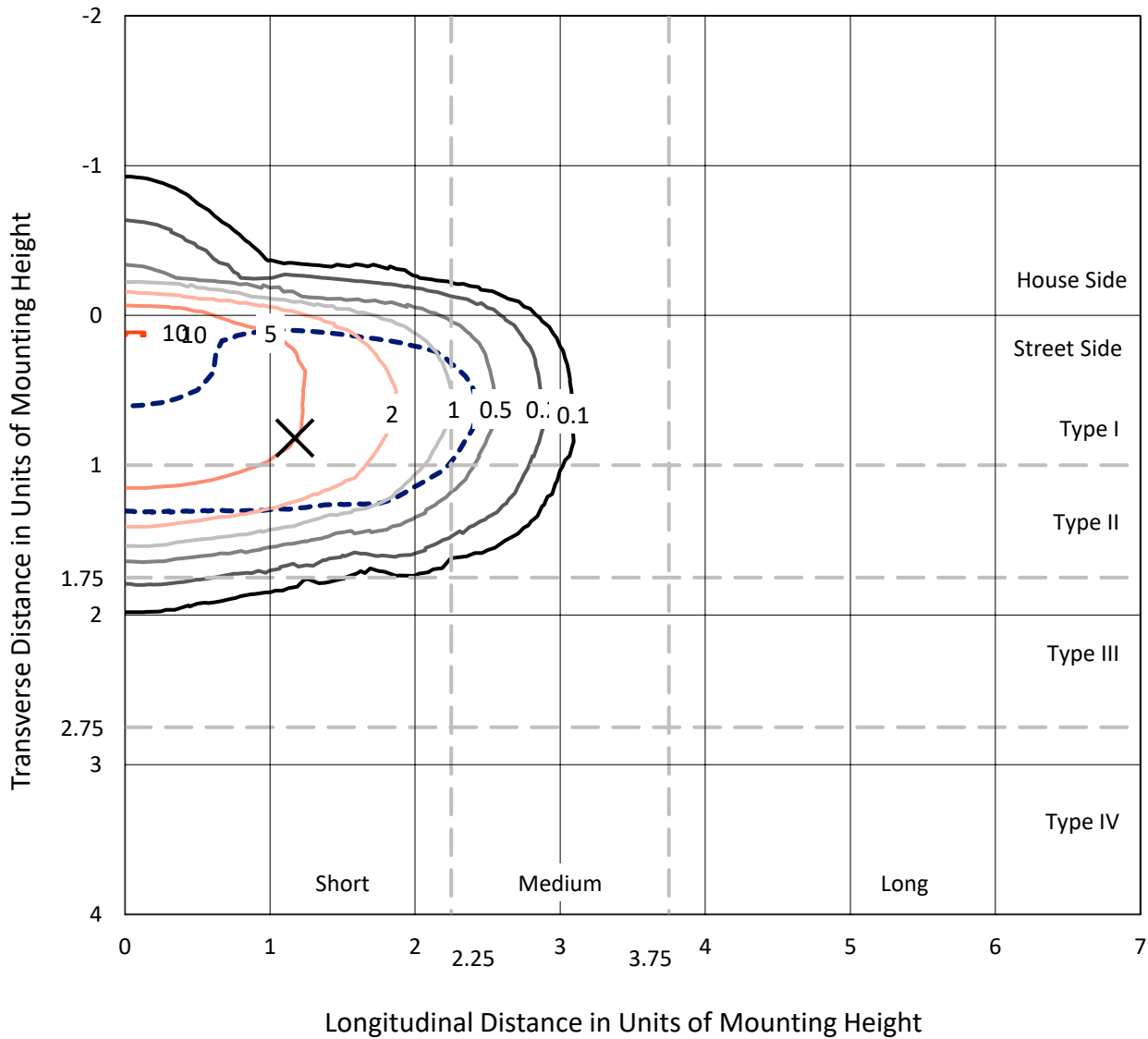
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

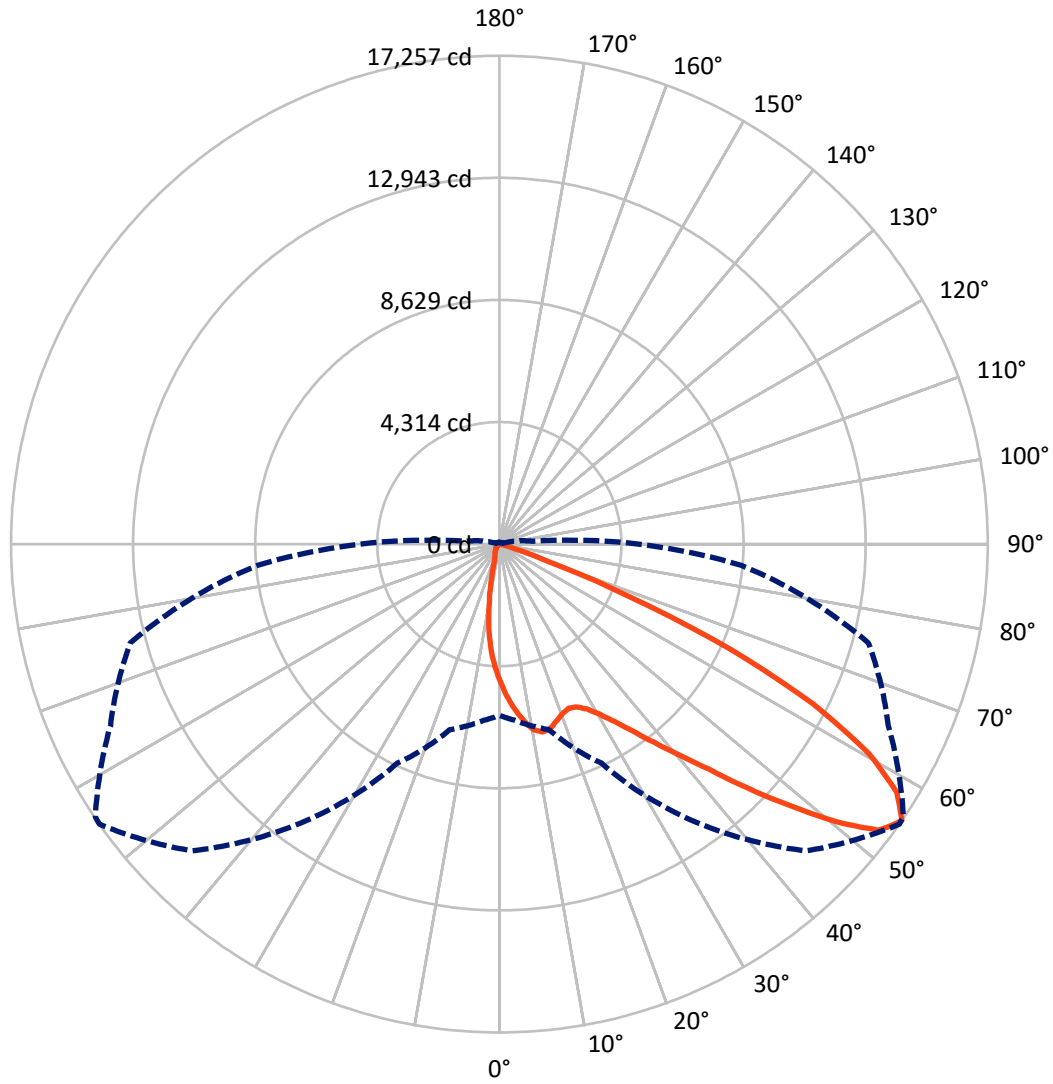
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	1166.4	0.0	1166.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	17737.0	0.0	17737.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	18903.4	0.0	18903.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	2.3
10°-20°	1040.5	5.5
20°-30°	1732.8	9.2
30°-40°	2952.9	15.6
40°-50°	4820.1	25.5
50°-60°	5046.4	26.7
60°-70°	2545.3	13.5
70°-80°	321.5	1.7
80°-90°	12.2	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°	18903.4	100.0
0°-180°	18903.4	100.0

Coefficient of Utilization



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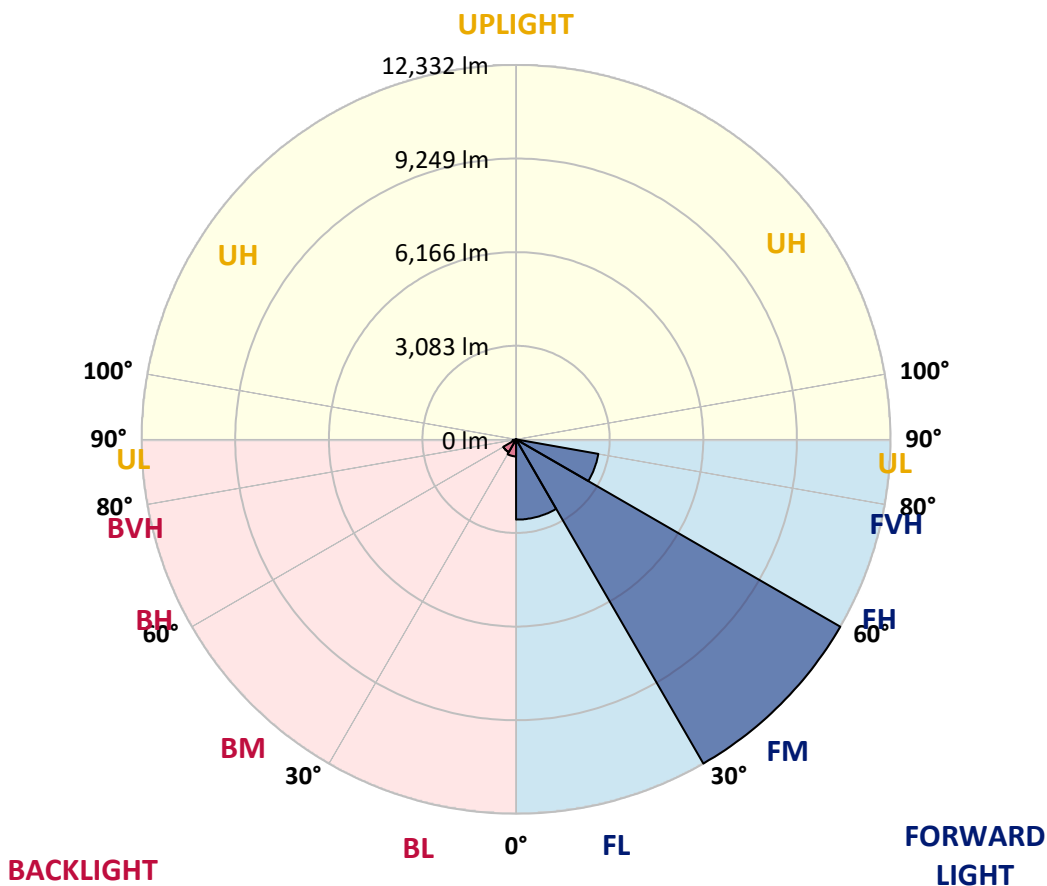
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2644.3	14.0			
FM (30°-60°)	12331.7	65.2			
FH (60°-80°)	2749.8	14.5			G2/5000
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	560.6	3.0	B2/1000		
BM (30°-60°)	487.7	2.6	B1/1000		
BH (60°-80°)	117.0	0.6	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: 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°	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5
2.5°	5693.1	5665.7	5707.7	5659.2	5576.8	5507.3	5416.8	5384.5	5239.0	5101.7	4969.2
5°	6384.8	6392.9	6379.9	6312.1	6195.7	6066.4	5883.8	5843.4	5589.7	5327.9	5045.1
7.5°	6556.1	6551.2	6578.7	6604.6	6585.2	6520.5	6321.8	6281.4	5966.2	5573.6	5161.5
10°	6027.7	6030.9	6087.4	6262.0	6478.5	6703.1	6672.4	6649.8	6341.2	5851.5	5290.8
12.5°	5281.1	5310.2	5369.9	5618.8	5985.6	6496.3	6813.0	6835.7	6685.4	6156.9	5442.7
15°	4957.9	4964.3	5012.8	5163.1	5436.2	6066.4	6753.2	6816.3	6973.0	6464.0	5607.5
17.5°	4949.8	4957.9	4978.9	5045.1	5222.9	5728.7	6560.9	6670.8	7189.6	6793.6	5804.6
20°	5253.6	5248.7	5234.2	5198.7	5276.2	5617.2	6383.2	6504.4	7307.5	7115.2	6003.4
22.5°	5804.6	5798.2	5733.5	5586.5	5523.5	5719.0	6295.9	6405.8	7378.6	7401.2	6166.6
25°	6439.7	6485.0	6363.8	6140.8	5985.6	5979.2	6373.5	6451.0	7440.0	7655.0	6278.1
27.5°	7136.2	7150.8	7047.3	6796.9	6572.2	6396.1	6598.1	6656.3	7507.9	7881.2	6341.2
30°	7900.6	7895.7	7777.8	7486.9	7213.8	6960.1	6976.2	6998.9	7666.3	8139.8	6410.6
32.5°	8855.6	8876.7	8666.6	8270.7	7942.6	7591.9	7470.7	7474.0	7952.3	8472.7	6515.7
35°	10153.3	10101.6	9823.6	9259.6	8700.5	8322.4	8115.5	8097.7	8393.5	8920.3	6698.3
37.5°	11389.5	11394.4	11103.5	10482.9	9776.8	9180.5	8888.0	8839.5	9014.0	9540.8	7002.1
40°	12247.6	12263.8	12142.6	11817.8	11069.6	10226.0	9796.2	9746.1	9818.8	10326.2	7399.6
42.5°	12701.7	12747.0	12780.9	12856.8	12289.6	11531.7	10870.8	10865.9	10790.0	11221.5	7860.2
45°	12719.5	12787.4	12994.2	13512.9	13577.6	13021.7	12302.6	12194.3	11901.8	12179.7	8272.3
47.5°	12016.5	12173.3	12612.8	13640.6	14319.3	14503.5	13790.9	13724.6	12903.7	12937.6	8580.9
50°	10377.9	10541.1	11350.7	12986.1	14506.8	15680.0	15424.7	15287.3	13740.8	13438.6	8729.6
52.5°	8697.3	8845.9	9395.4	11428.3	13729.5	16050.0	16801.5	16638.3	14492.2	13613.1	8668.2
55°	6051.9	6250.7	6787.2	8542.1	11939.0	15329.3	17257.2	17223.3	15162.9	13503.2	8572.8
57.5°	2967.0	3164.1	3699.0	5266.5	8844.3	13383.7	16560.7	16740.1	15563.6	13385.3	8495.3
60°	1239.5	1320.3	1504.5	2310.9	4948.2	10114.5	14988.3	15237.2	15318.0	13225.3	8487.2
62.5°	719.1	732.0	751.4	958.3	1924.6	5798.2	12433.5	12787.4	14026.8	13013.6	8359.5
65°	543.0	547.8	539.7	588.2	795.1	2199.4	8983.3	9464.9	11707.9	12186.2	7855.3
67.5°	446.0	446.0	425.0	434.7	499.3	824.2	4959.5	5631.7	8663.3	10015.9	6486.6
70°	355.5	363.6	353.9	341.0	357.1	455.7	1764.7	2188.1	5045.1	5914.5	3783.0
72.5°	269.9	269.9	286.0	276.3	265.0	286.0	615.7	691.6	2024.8	2466.0	1365.5
75°	208.5	214.9	226.2	216.5	200.4	169.7	295.7	313.5	610.8	573.7	305.4
77.5°	106.7	108.3	143.8	158.4	148.7	103.4	129.3	142.2	198.8	177.8	113.1
80°	64.6	67.9	80.8	124.4	98.6	54.9	53.3	56.6	93.7	80.8	46.9
82.5°	27.5	29.1	45.2	45.2	40.4	21.0	21.0	21.0	45.2	42.0	19.4
85°	0.0	0.0	8.1	6.5	6.5	8.1	8.1	8.1	11.3	16.2	9.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	4.8
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°	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5	4883.5
2.5°	4883.5	4780.1	4641.1	4515.1	4345.4	4250.1	4117.6	4009.3	3917.2	3888.1	3875.2
5°	4885.1	4707.4	4410.0	4112.7	3747.5	3459.8	3164.1	2929.8	2737.5	2676.1	2659.9
7.5°	4917.5	4655.7	4174.1	3634.4	3023.5	2519.3	2068.5	1664.5	1477.0	1414.0	1401.1
10°	4961.1	4612.0	3901.0	3060.7	2183.2	1535.2	1087.6	829.0	706.2	638.3	648.0
12.5°	5017.7	4576.5	3598.8	2440.1	1444.7	843.5	597.9	501.0	475.1	462.2	455.7
15°	5093.6	4534.5	3223.9	1824.5	885.6	543.0	460.6	434.7	425.0	418.5	416.9
17.5°	5171.2	4486.0	2842.5	1283.1	588.2	450.9	413.7	400.8	394.3	389.5	387.8
20°	5253.6	4403.6	2394.9	883.9	463.8	405.6	381.4	366.8	358.8	350.7	349.1
22.5°	5289.1	4271.1	1966.7	618.9	412.1	373.3	342.6	324.8	315.1	308.7	308.7
25°	5255.2	4056.1	1523.9	470.3	374.9	337.7	307.0	287.6	279.6	273.1	273.1
27.5°	5164.7	3779.8	1111.8	389.5	334.5	300.6	271.5	253.7	247.2	244.0	244.0
30°	5064.5	3430.8	783.8	334.5	289.3	261.8	237.6	226.2	224.6	221.4	221.4
32.5°	4978.9	3104.3	539.7	294.1	255.3	227.9	211.7	206.8	208.5	205.2	206.8
35°	4932.0	2784.4	400.8	261.8	227.9	202.0	193.9	193.9	193.9	192.3	192.3
37.5°	4951.4	2469.2	326.4	239.2	203.6	184.2	176.1	179.4	182.6	182.6	182.6
40°	5048.4	2189.7	289.3	218.2	182.6	168.1	161.6	166.4	171.3	174.5	174.5
42.5°	5171.2	1963.4	261.8	200.4	168.1	151.9	148.7	153.5	158.4	161.6	161.6
45°	5248.7	1735.6	234.3	177.8	153.5	134.1	134.1	140.6	139.0	140.6	140.6
47.5°	5284.3	1554.6	206.8	153.5	130.9	116.4	118.0	121.2	118.0	121.2	121.2
50°	5197.0	1372.0	182.6	127.7	108.3	101.8	105.0	103.4	103.4	109.9	109.9
52.5°	5037.1	1236.2	161.6	108.3	92.1	90.5	93.7	87.3	88.9	88.9	87.3
55°	4919.1	1158.7	143.8	93.7	79.2	80.8	79.2	67.9	61.4	54.9	53.3
57.5°	4860.9	1128.0	130.9	84.0	71.1	71.1	64.6	46.9	35.6	27.5	24.2
60°	4848.0	1090.8	118.0	72.7	63.0	59.8	46.9	27.5	17.8	12.9	11.3
62.5°	4725.2	1000.3	106.7	58.2	54.9	48.5	29.1	16.2	9.7	6.5	4.8
65°	4322.8	822.5	95.3	45.2	42.0	35.6	17.8	9.7	4.8	1.6	0.0
67.5°	3438.8	583.4	84.0	33.9	29.1	22.6	11.3	6.5	1.6	0.0	0.0
70°	1982.8	315.1	69.5	24.2	19.4	14.5	8.1	3.2	0.0	0.0	0.0
72.5°	662.6	147.1	53.3	16.2	14.5	11.3	4.8	1.6	0.0	0.0	0.0
75°	145.4	87.3	35.6	11.3	9.7	8.1	3.2	0.0	0.0	0.0	0.0
77.5°	54.9	61.4	17.8	8.1	6.5	4.8	1.6	0.0	0.0	0.0	0.0
80°	21.0	40.4	8.1	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	11.3	16.2	4.8	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	8.1	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	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)