

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: P638244

Luminaire Tested: GWS-SA4E-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638244  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

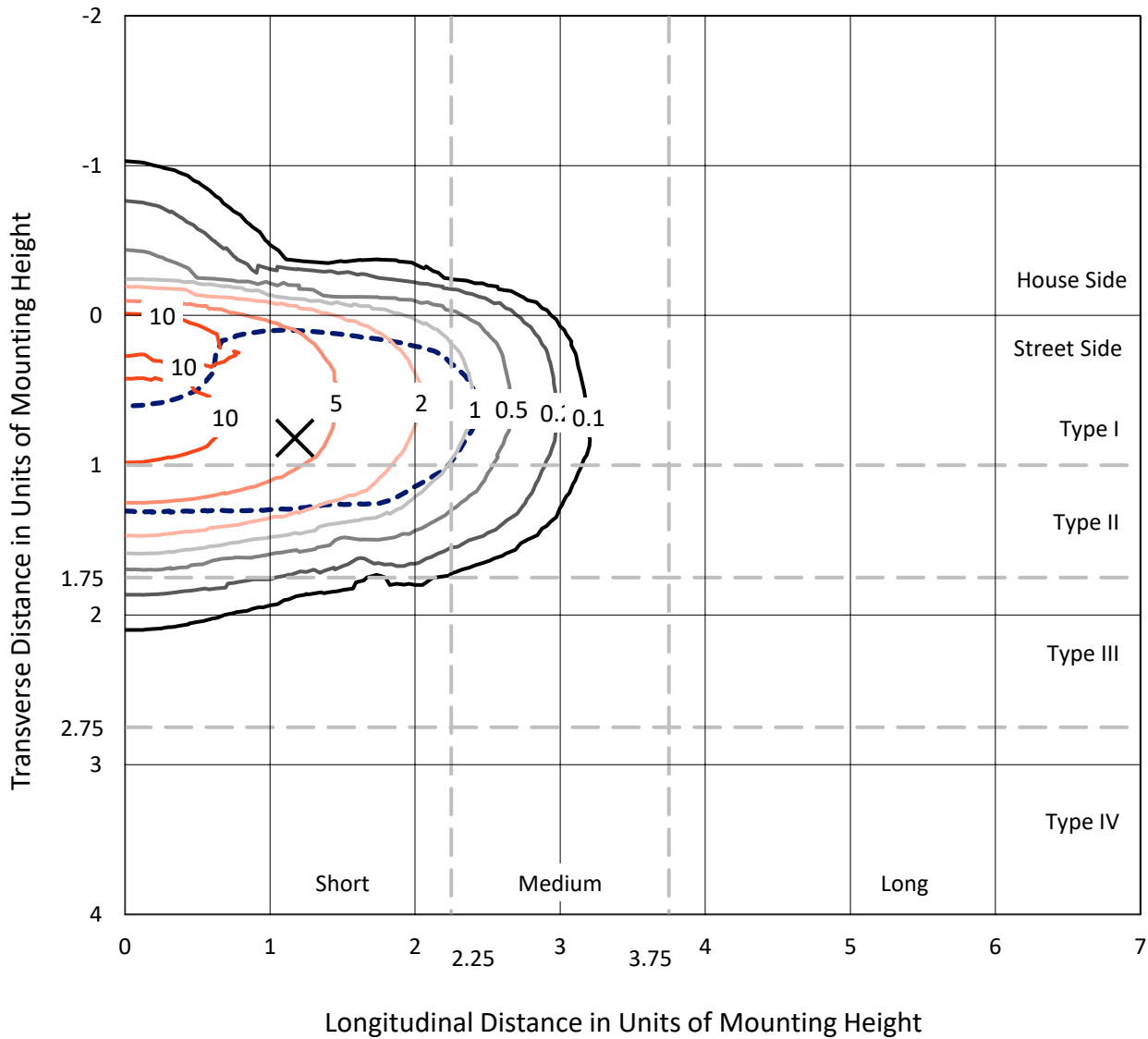
Lumens per Lamp: N/A  
Luminaire Lumens: 25663.2 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

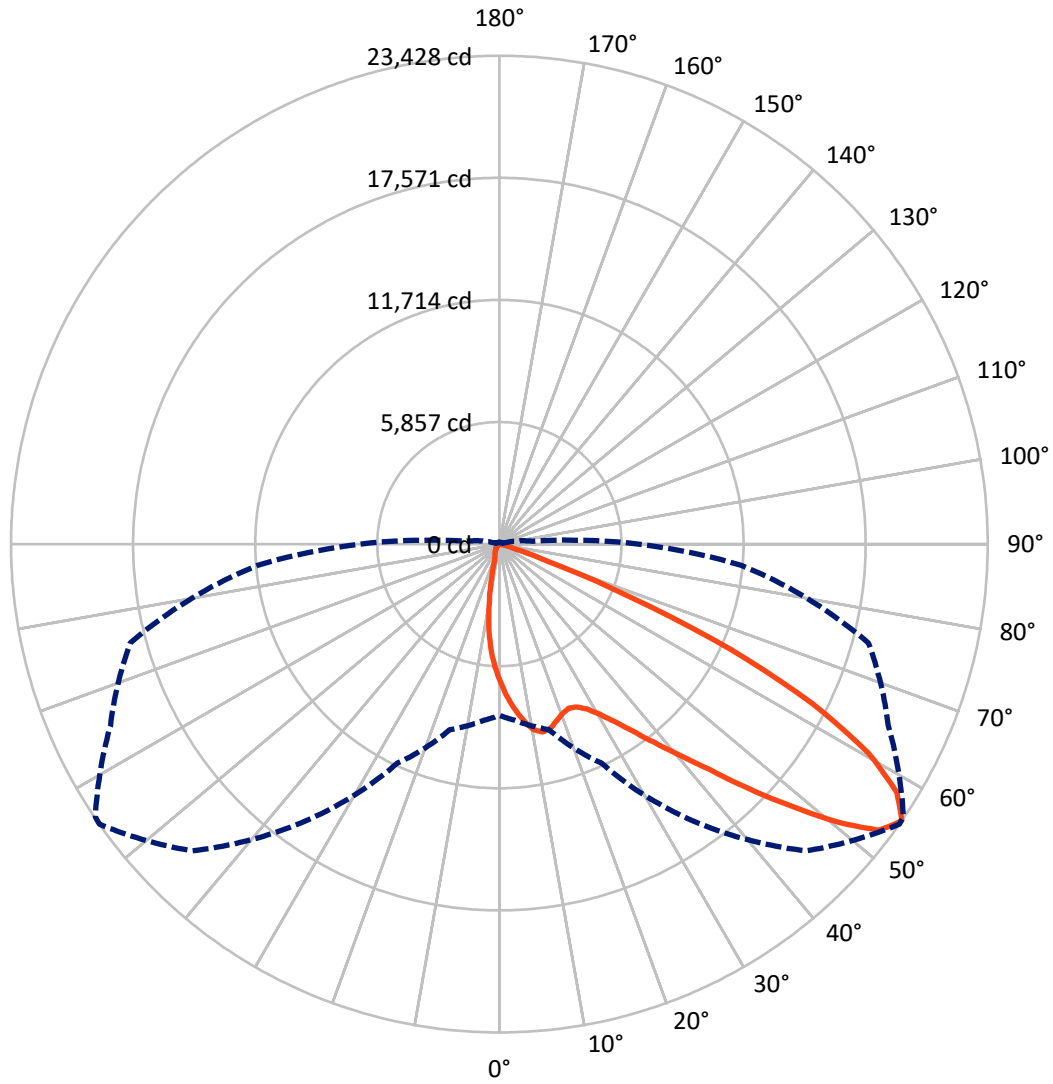
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P638244  
CATALOG NUMBER: GWS-SA4E-740-U-AFL-W-HSS

### 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
<b>House Side</b>	Lumens	1583.5	0.0	1583.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	24079.7	0.0	24079.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	25663.2	0.0	25663.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.9	2.3
10°-20°	1412.6	5.5
20°-30°	2352.5	9.2
30°-40°	4008.8	15.6
40°-50°	6543.8	25.5
50°-60°	6851.0	26.7
60°-70°	3455.5	13.5
70°-80°	436.5	1.7
80°-90°	16.6	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°	25663.2	100.0
0°-180°	25663.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638244

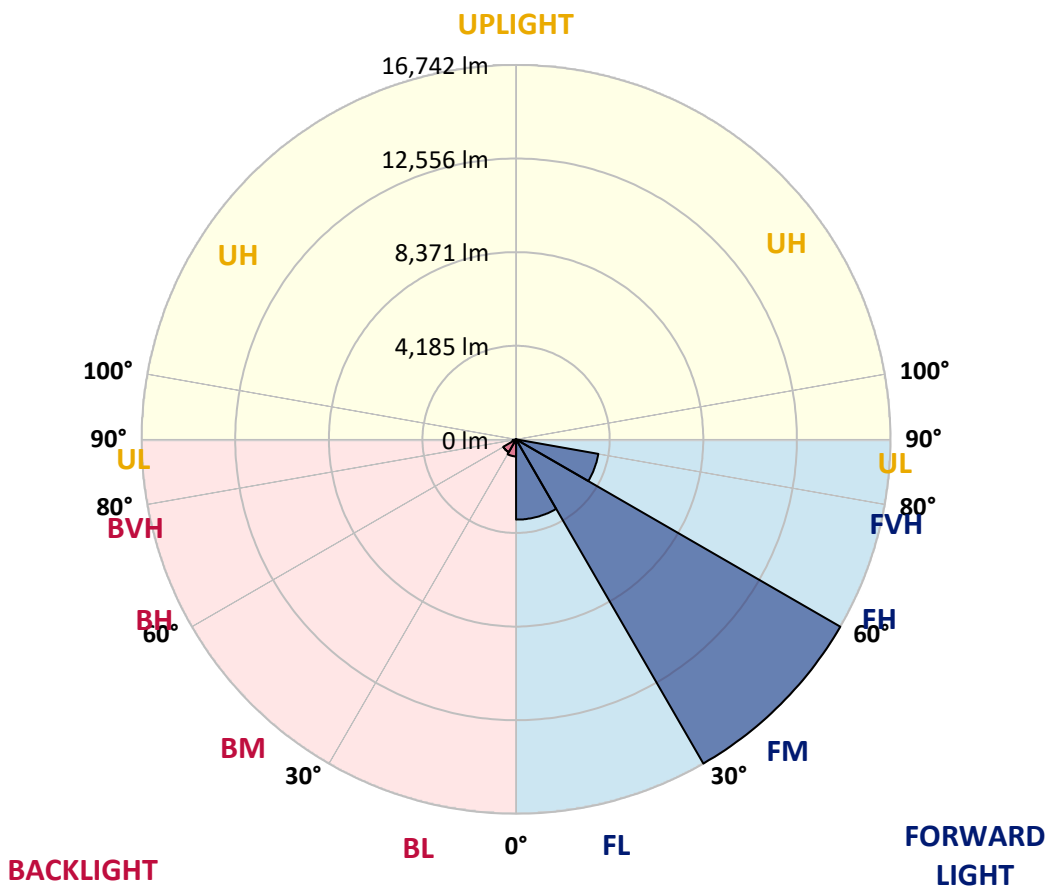
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3589.9	14.0			
FM (30°-60°)	16741.5	65.2			
FH (60°-80°)	3733.2	14.5			G2/5000
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	761.1	3.0	B2/1000		
BM (30°-60°)	662.1	2.6	B1/1000		
BH (60°-80°)	158.8	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	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°	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9
2.5°	7729.0	7691.7	7748.7	7682.9	7571.0	7476.7	7353.8	7310.0	7112.5	6926.0	6746.1
5°	8668.0	8678.9	8661.4	8569.2	8411.3	8235.8	7987.9	7933.0	7588.6	7233.2	6849.3
7.5°	8900.5	8893.9	8931.2	8966.3	8940.0	8852.3	8582.4	8527.6	8099.8	7566.6	7007.2
10°	8183.1	8187.5	8264.3	8501.2	8795.2	9100.2	9058.5	9027.8	8608.7	7944.0	7182.7
12.5°	7169.6	7209.0	7290.2	7628.1	8126.1	8819.3	9249.3	9280.1	9076.0	8358.6	7388.9
15°	6730.8	6739.6	6805.4	7009.4	7380.2	8235.8	9168.2	9253.7	9466.5	8775.5	7612.7
17.5°	6719.8	6730.8	6759.3	6849.3	7090.6	7777.3	8907.1	9056.3	9760.5	9223.0	7880.4
20°	7132.3	7125.7	7105.9	7057.7	7163.0	7625.9	8665.8	8830.3	9920.7	9659.6	8150.2
22.5°	7880.4	7871.6	7783.8	7584.2	7498.6	7764.1	8547.3	8696.5	10017.2	10047.9	8371.8
25°	8742.6	8804.0	8639.5	8336.7	8126.1	8117.3	8652.6	8757.9	10100.6	10392.4	8523.2
27.5°	9688.1	9707.9	9567.5	9227.4	8922.5	8683.3	8957.6	9036.5	10192.7	10699.5	8608.7
30°	10725.8	10719.2	10559.1	10164.2	9793.4	9449.0	9470.9	9501.6	10407.7	11050.5	8703.1
32.5°	12022.4	12050.9	11765.7	11228.2	10782.9	10306.8	10142.2	10146.6	10796.0	11502.4	8845.7
35°	13784.1	13713.9	13336.5	12570.9	11811.8	11298.4	11017.6	10993.5	11394.9	12110.1	9093.6
37.5°	15462.4	15469.0	15074.1	14231.6	13272.9	12463.4	12066.3	12000.5	12237.4	12952.6	9506.0
40°	16627.3	16649.3	16484.7	16043.8	15028.0	13882.8	13299.2	13231.2	13329.9	14018.8	10045.7
42.5°	17243.8	17305.2	17351.3	17454.4	16684.4	15655.4	14758.1	14751.6	14648.5	15234.2	10671.0
45°	17267.9	17360.1	17640.9	18345.1	18432.9	17678.2	16701.9	16554.9	16157.8	16535.2	11230.4
47.5°	16313.6	16526.4	17123.1	18518.4	19439.9	19690.0	18722.5	18632.5	17518.0	17564.1	11649.4
50°	14089.0	14310.6	15409.7	17629.9	19694.3	21287.1	20940.5	20754.0	18654.5	18244.2	11851.3
52.5°	11807.4	12009.2	12755.1	15515.0	18639.1	21789.5	22809.6	22588.1	19674.6	18481.1	11767.9
55°	8216.0	8485.9	9214.2	11596.8	16208.3	20811.0	23428.3	23382.2	20585.1	18332.0	11638.5
57.5°	4027.9	4295.6	5021.8	7149.8	12007.0	18169.6	22482.8	22726.3	21129.1	18171.8	11533.2
60°	1682.7	1792.4	2042.5	3137.2	6717.6	13731.4	20348.1	20686.0	20795.7	17954.6	11522.2
62.5°	976.3	993.8	1020.1	1301.0	2612.9	7871.6	16879.6	17360.1	19042.8	17667.2	11348.9
65°	737.1	743.7	732.8	798.6	1079.4	2985.9	12195.7	12849.5	15894.6	16544.0	10664.4
67.5°	605.5	605.5	577.0	590.2	677.9	1118.9	6733.0	7645.6	11761.3	13597.6	8806.2
70°	482.7	493.6	480.5	462.9	484.8	618.7	2395.7	2970.5	6849.3	8029.6	5135.8
72.5°	366.4	366.4	388.3	375.2	359.8	388.3	835.9	939.0	2748.9	3347.8	1853.8
75°	283.0	291.8	307.1	294.0	272.0	230.4	401.5	425.6	829.3	778.8	414.6
77.5°	144.8	147.0	195.3	215.0	201.8	140.4	175.5	193.1	269.8	241.3	153.6
80°	87.8	92.1	109.7	168.9	133.8	74.6	72.4	76.8	127.2	109.7	63.6
82.5°	37.3	39.5	61.4	61.4	54.8	28.5	28.5	28.5	61.4	57.0	26.3
85°	0.0	0.0	11.0	8.8	8.8	11.0	11.0	11.0	15.4	21.9	13.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	6.6
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°	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9	6629.9
2.5°	6629.9	6489.5	6300.8	6129.7	5899.3	5769.9	5590.0	5443.0	5317.9	5278.4	5260.9
5°	6632.1	6390.7	5987.1	5583.4	5087.6	4697.1	4295.6	3977.5	3716.4	3633.0	3611.1
7.5°	6675.9	6320.5	5666.8	4934.0	4104.7	3420.2	2808.2	2259.7	2005.2	1919.6	1902.1
10°	6735.2	6261.3	5296.0	4155.2	2963.9	2084.2	1476.5	1125.5	958.7	866.6	879.7
12.5°	6812.0	6213.0	4885.7	3312.7	1961.3	1145.2	811.7	680.1	645.0	627.4	618.7
15°	6915.1	6156.0	4376.8	2476.9	1202.2	737.1	625.3	590.2	577.0	568.2	566.0
17.5°	7020.4	6090.2	3859.0	1741.9	798.6	612.1	561.6	544.1	535.3	528.7	526.5
20°	7132.3	5978.3	3251.3	1200.0	629.6	550.7	517.8	498.0	487.0	476.1	473.9
22.5°	7180.5	5798.4	2669.9	840.3	559.4	506.8	465.1	441.0	427.8	419.0	419.0
25°	7134.5	5506.6	2068.8	638.4	509.0	458.5	416.8	390.5	379.5	370.8	370.8
27.5°	7011.6	5131.5	1509.4	528.7	454.1	408.1	368.6	344.4	335.7	331.3	331.3
30°	6875.6	4657.6	1064.0	454.1	392.7	355.4	322.5	307.1	304.9	300.6	300.6
32.5°	6759.3	4214.4	732.8	399.3	346.6	309.3	287.4	280.8	283.0	278.6	280.8
35°	6695.7	3780.0	544.1	355.4	309.3	274.2	263.3	263.3	263.3	261.1	261.1
37.5°	6722.0	3352.2	443.2	324.7	276.4	250.1	239.1	243.5	247.9	247.9	247.9
40°	6853.6	2972.7	392.7	296.2	247.9	228.2	219.4	226.0	232.5	236.9	236.9
42.5°	7020.4	2665.5	355.4	272.0	228.2	206.2	201.8	208.4	215.0	219.4	219.4
45°	7125.7	2356.2	318.1	241.3	208.4	182.1	182.1	190.9	188.7	190.9	190.9
47.5°	7173.9	2110.5	280.8	208.4	177.7	158.0	160.2	164.5	160.2	164.5	164.5
50°	7055.5	1862.6	247.9	173.3	147.0	138.2	142.6	140.4	140.4	149.2	149.2
52.5°	6838.3	1678.3	219.4	147.0	125.1	122.9	127.2	118.5	120.7	120.7	118.5
55°	6678.1	1573.0	195.3	127.2	107.5	109.7	107.5	92.1	83.4	74.6	72.4
57.5°	6599.2	1531.3	177.7	114.1	96.5	96.5	87.8	63.6	48.3	37.3	32.9
60°	6581.6	1480.9	160.2	98.7	85.6	81.2	63.6	37.3	24.1	17.6	15.4
62.5°	6414.9	1358.0	144.8	79.0	74.6	65.8	39.5	21.9	13.2	8.8	6.6
65°	5868.6	1116.7	129.4	61.4	57.0	48.3	24.1	13.2	6.6	2.2	0.0
67.5°	4668.6	792.0	114.1	46.1	39.5	30.7	15.4	8.8	2.2	0.0	0.0
70°	2691.9	427.8	94.3	32.9	26.3	19.7	11.0	4.4	0.0	0.0	0.0
72.5°	899.5	199.6	72.4	21.9	19.7	15.4	6.6	2.2	0.0	0.0	0.0
75°	197.4	118.5	48.3	15.4	13.2	11.0	4.4	0.0	0.0	0.0	0.0
77.5°	74.6	83.4	24.1	11.0	8.8	6.6	2.2	0.0	0.0	0.0	0.0
80°	28.5	54.8	11.0	6.6	6.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.4	21.9	6.6	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	11.0	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	2.2	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)