

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: P637254

Luminaire Tested: GWS-SA4C-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637254  
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-SA4C-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**

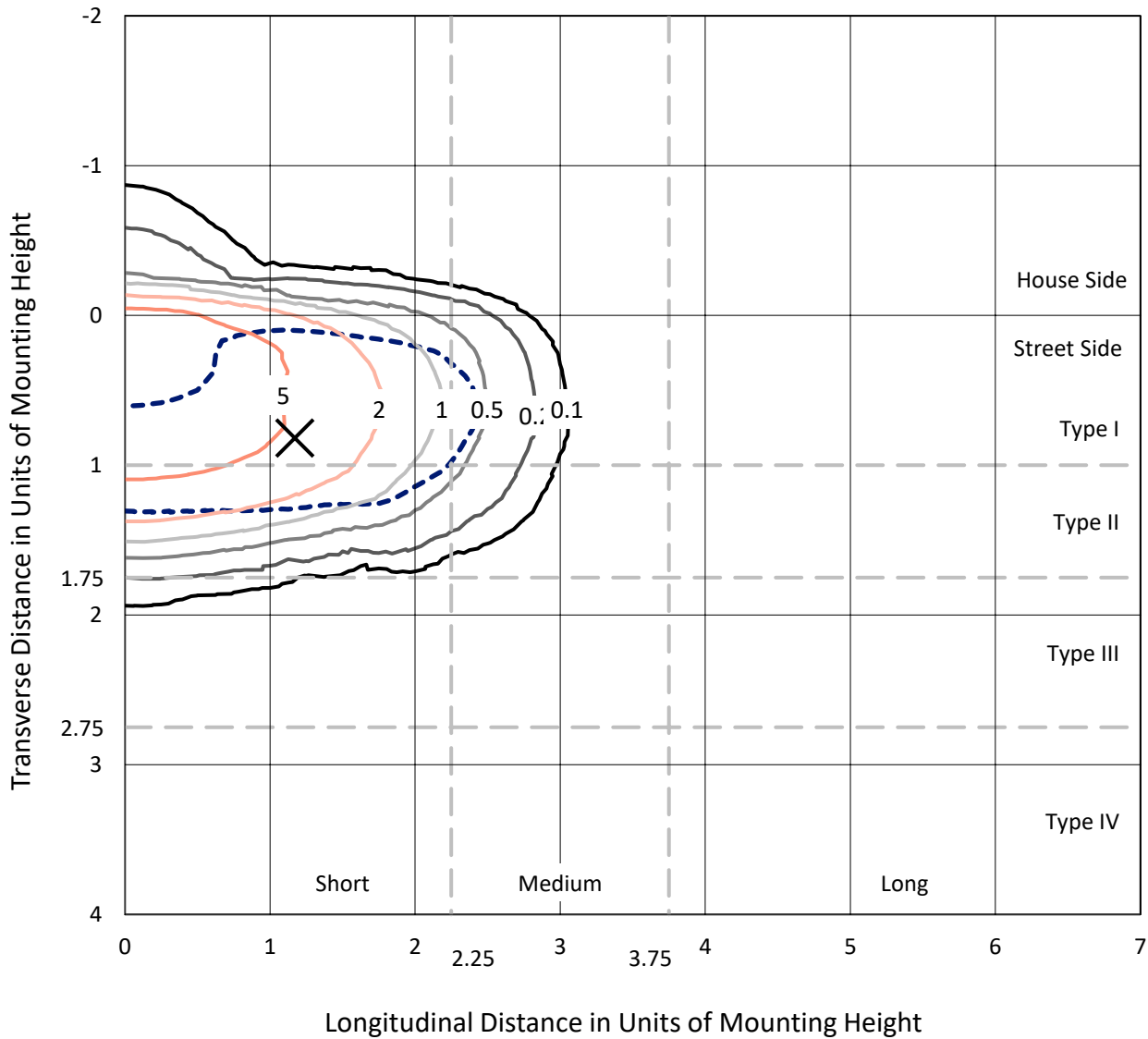
Lumens per Lamp: N/A  
Luminaire Lumens: 16278.5 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

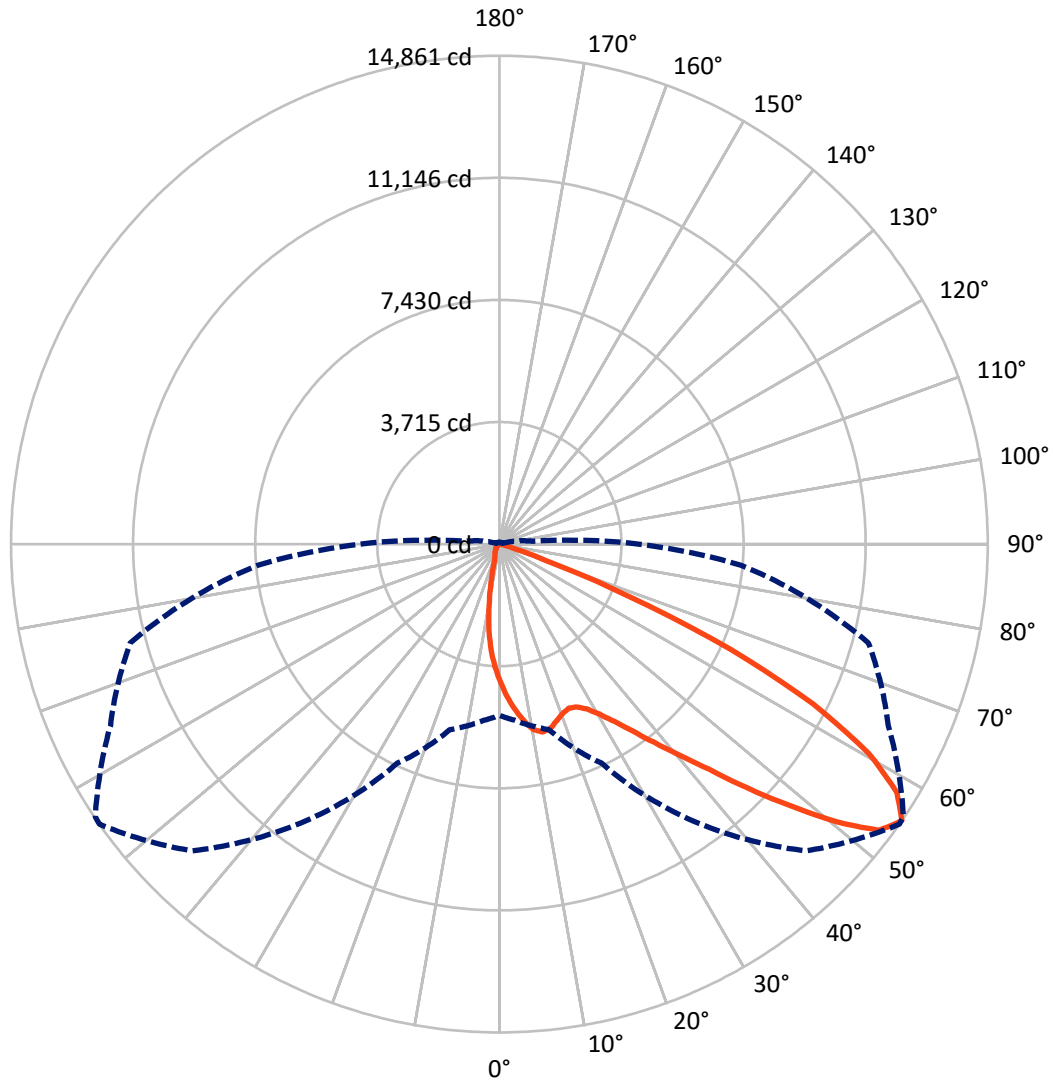
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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
<b>House Side</b>	Lumens	1004.5	0.0	1004.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	15274.1	0.0	15274.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	16278.5	0.0	16278.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	371.7	2.3
10°-20°	896.0	5.5
20°-30°	1492.2	9.2
30°-40°	2542.8	15.6
40°-50°	4150.8	25.5
50°-60°	4345.7	26.7
60°-70°	2191.9	13.5
70°-80°	276.9	1.7
80°-90°	10.5	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°	16278.5	100.0
0°-180°	16278.5	100.0

**Coefficient of Utilization**

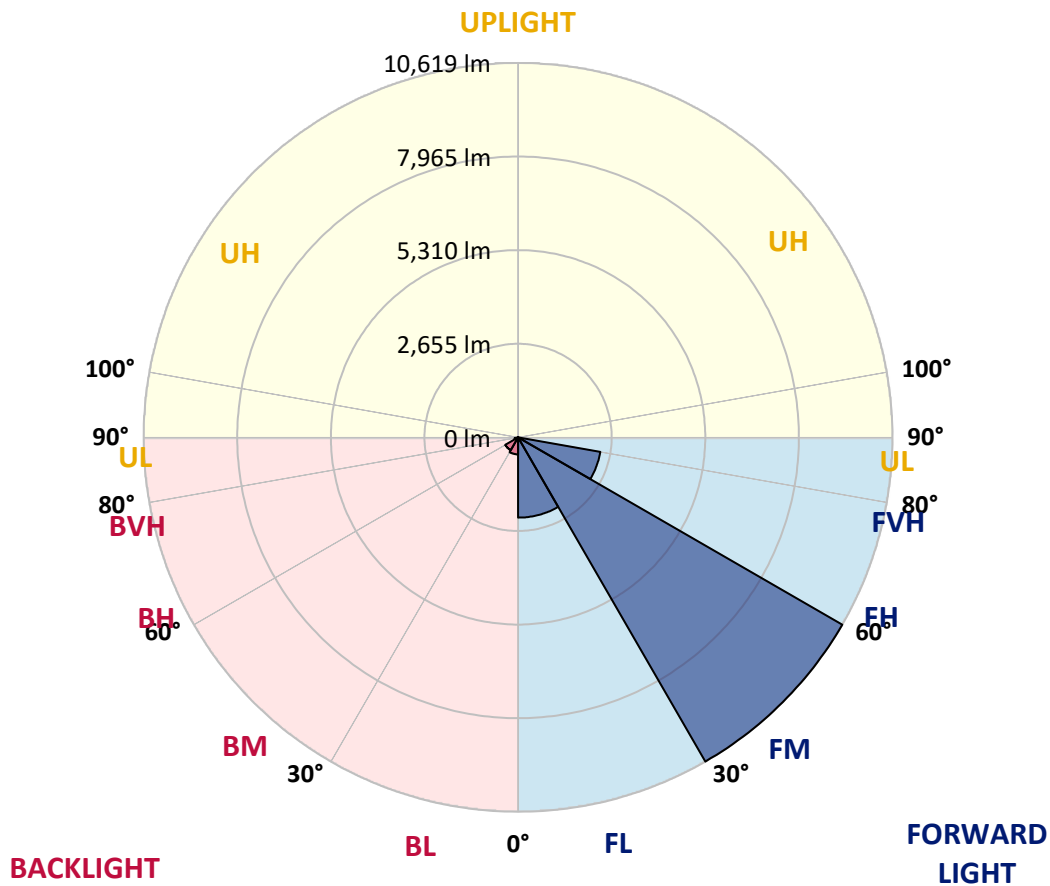


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.1	14.0			
FM (30°-60°)	10619.4	65.2			
FH (60°-80°)	2368.0	14.5			G2/5000
FVH (80°-90°)	9.6	0.1			G0/10
BL (0°-30°)	482.8	3.0	B1/500		
BM (30°-60°)	420.0	2.6	B1/1000		
BH (60°-80°)	100.8	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	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°	56°	65°	75°	85°
0°	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4
2.5°	4902.6	4878.9	4915.1	4873.4	4802.4	4742.6	4664.6	4636.8	4511.6	4393.3	4279.2
5°	5498.2	5505.2	5494.0	5435.6	5335.4	5224.1	5066.8	5032.0	4813.5	4588.1	4344.6
7.5°	5645.7	5641.5	5665.2	5687.5	5670.8	5615.1	5443.9	5409.1	5137.8	4799.6	4444.8
10°	5190.7	5193.4	5242.2	5392.4	5578.9	5772.4	5745.9	5726.4	5460.6	5039.0	4556.1
12.5°	4547.7	4572.8	4624.3	4838.6	5154.5	5594.2	5867.0	5886.5	5757.0	5302.0	4686.9
15°	4269.4	4275.0	4316.7	4446.2	4681.3	5224.1	5815.5	5869.8	6004.7	5566.4	4828.8
17.5°	4262.5	4269.4	4287.5	4344.6	4497.6	4933.2	5649.9	5744.5	6191.2	5850.3	4998.6
20°	4524.1	4519.9	4507.4	4476.8	4543.6	4837.2	5496.8	5601.2	6292.8	6127.2	5169.8
22.5°	4998.6	4993.1	4937.4	4810.8	4756.5	4924.9	5421.7	5516.3	6354.0	6373.5	5310.3
25°	5545.5	5584.5	5480.1	5288.1	5154.5	5148.9	5488.5	5555.3	6406.9	6592.0	5406.4
27.5°	6145.3	6157.8	6068.8	5853.1	5659.6	5507.9	5681.9	5732.0	6465.4	6786.8	5460.6
30°	6803.5	6799.4	6697.8	6447.3	6212.1	5993.6	6007.5	6027.0	6601.7	7009.5	5520.5
32.5°	7626.0	7644.1	7463.1	7122.2	6839.7	6537.7	6433.4	6436.1	6848.1	7296.2	5610.9
35°	8743.4	8698.9	8459.5	7973.9	7492.4	7166.7	6988.6	6973.3	7228.0	7681.6	5768.2
37.5°	9808.0	9812.2	9561.7	9027.3	8419.2	7905.7	7653.8	7612.0	7762.3	8216.0	6029.8
40°	10546.9	10560.8	10456.5	10176.8	9532.5	8806.0	8435.9	8392.7	8455.4	8892.3	6372.1
42.5°	10938.0	10976.9	11006.2	11071.6	10583.1	9930.4	9361.3	9357.1	9291.7	9663.3	6768.7
45°	10953.3	11011.7	11189.8	11636.5	11692.2	11213.5	10594.2	10501.0	10249.1	10488.5	7123.6
47.5°	10347.9	10482.9	10861.4	11746.5	12331.0	12489.6	11875.9	11818.8	11111.9	11141.1	7389.4
50°	8936.8	9077.4	9774.6	11182.9	12492.4	13502.7	13282.8	13164.5	11832.8	11572.5	7517.4
52.5°	7489.6	7617.6	8090.8	9841.4	11823.0	13821.4	14468.5	14327.9	12479.9	11722.8	7464.5
55°	5211.5	5382.7	5844.7	7356.0	10281.1	13200.7	14860.9	14831.7	13057.4	11628.2	7382.4
57.5°	2555.0	2724.8	3185.4	4535.2	7616.2	11525.2	14261.1	14415.6	13402.5	11526.6	7315.6
60°	1067.4	1136.9	1295.6	1990.0	4261.1	8710.0	12907.1	13121.4	13191.0	11388.8	7308.7
62.5°	619.3	630.4	647.1	825.2	1657.4	4993.1	10707.0	11011.7	12079.1	11206.5	7198.7
65°	467.6	471.8	464.8	506.5	684.7	1894.0	7735.9	8150.6	10082.1	10494.0	6764.6
67.5°	384.1	384.1	366.0	374.3	430.0	709.7	4270.8	4849.7	7460.4	8625.1	5585.9
70°	306.2	313.1	304.8	293.6	307.5	392.4	1519.6	1884.2	4344.6	5093.3	3257.7
72.5°	232.4	232.4	246.3	238.0	228.2	246.3	530.2	595.6	1743.7	2123.6	1175.9
75°	179.5	185.1	194.8	186.5	172.6	146.1	254.7	270.0	526.0	494.0	263.0
77.5°	91.8	93.2	123.9	136.4	128.0	89.1	111.3	122.5	171.2	153.1	97.4
80°	55.7	58.4	69.6	107.2	84.9	47.3	45.9	48.7	80.7	69.6	40.4
82.5°	23.7	25.0	39.0	39.0	34.8	18.1	18.1	18.1	39.0	36.2	16.7
85°	0.0	0.0	7.0	5.6	5.6	7.0	7.0	7.0	9.7	13.9	8.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.2	4.2
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°	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4	4205.4
2.5°	4205.4	4116.3	3996.7	3888.1	3742.0	3659.9	3545.8	3452.6	3373.2	3348.2	3337.1
5°	4206.8	4053.7	3797.7	3541.6	3227.1	2979.4	2724.8	2523.0	2357.4	2304.5	2290.6
7.5°	4234.6	4009.2	3594.5	3129.7	2603.7	2169.5	1781.2	1433.3	1271.9	1217.6	1206.5
10°	4272.2	3971.6	3359.3	2635.7	1880.0	1322.0	936.5	713.9	608.1	549.7	558.0
12.5°	4320.9	3941.0	3099.1	2101.3	1244.1	726.4	514.9	431.4	409.1	398.0	392.4
15°	4386.3	3904.8	2776.2	1571.1	762.6	467.6	396.6	374.3	366.0	360.4	359.0
17.5°	4453.1	3863.1	2447.8	1104.9	506.5	388.3	356.2	345.1	339.6	335.4	334.0
20°	4524.1	3792.1	2062.3	761.2	399.4	349.3	328.4	315.9	308.9	302.0	300.6
22.5°	4554.7	3678.0	1693.6	533.0	354.9	321.5	295.0	279.7	271.4	265.8	265.8
25°	4525.5	3492.9	1312.3	405.0	322.9	290.8	264.4	247.7	240.7	235.2	235.2
27.5°	4447.5	3254.9	957.4	335.4	288.1	258.8	233.8	218.5	212.9	210.1	210.1
30°	4361.3	2954.4	674.9	288.1	249.1	225.4	204.6	194.8	193.4	190.6	190.6
32.5°	4287.5	2673.3	464.8	253.3	219.9	196.2	182.3	178.1	179.5	176.7	178.1
35°	4247.2	2397.7	345.1	225.4	196.2	173.9	167.0	167.0	167.0	165.6	165.6
37.5°	4263.9	2126.4	281.1	206.0	175.3	158.6	151.7	154.5	157.3	157.3	157.3
40°	4347.4	1885.6	249.1	187.9	157.3	144.7	139.2	143.3	147.5	150.3	150.3
42.5°	4453.1	1690.8	225.4	172.6	144.7	130.8	128.0	132.2	136.4	139.2	139.2
45°	4519.9	1494.6	201.8	153.1	132.2	115.5	115.5	121.1	119.7	121.1	121.1
47.5°	4550.5	1338.7	178.1	132.2	112.7	100.2	101.6	104.4	101.6	104.4	104.4
50°	4475.4	1181.5	157.3	109.9	93.2	87.7	90.5	89.1	89.1	94.6	94.6
52.5°	4337.6	1064.6	139.2	93.2	79.3	77.9	80.7	75.1	76.5	76.5	75.1
55°	4236.0	997.8	123.9	80.7	68.2	69.6	68.2	58.4	52.9	47.3	45.9
57.5°	4185.9	971.3	112.7	72.4	61.2	61.2	55.7	40.4	30.6	23.7	20.9
60°	4174.8	939.3	101.6	62.6	54.3	51.5	40.4	23.7	15.3	11.1	9.7
62.5°	4069.0	861.4	91.8	50.1	47.3	41.7	25.0	13.9	8.3	5.6	4.2
65°	3722.5	708.3	82.1	39.0	36.2	30.6	15.3	8.3	4.2	1.4	0.0
67.5°	2961.3	502.4	72.4	29.2	25.0	19.5	9.7	5.6	1.4	0.0	0.0
70°	1707.5	271.4	59.8	20.9	16.7	12.5	7.0	2.8	0.0	0.0	0.0
72.5°	570.6	126.6	45.9	13.9	12.5	9.7	4.2	1.4	0.0	0.0	0.0
75°	125.2	75.1	30.6	9.7	8.3	7.0	2.8	0.0	0.0	0.0	0.0
77.5°	47.3	52.9	15.3	7.0	5.6	4.2	1.4	0.0	0.0	0.0	0.0
80°	18.1	34.8	7.0	4.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	9.7	13.9	4.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	7.0	2.8	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.4	1.4	1.4	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)