

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: P633349

Luminaire Tested: GWS-SA2E-750-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633349  
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-SA2E-750-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

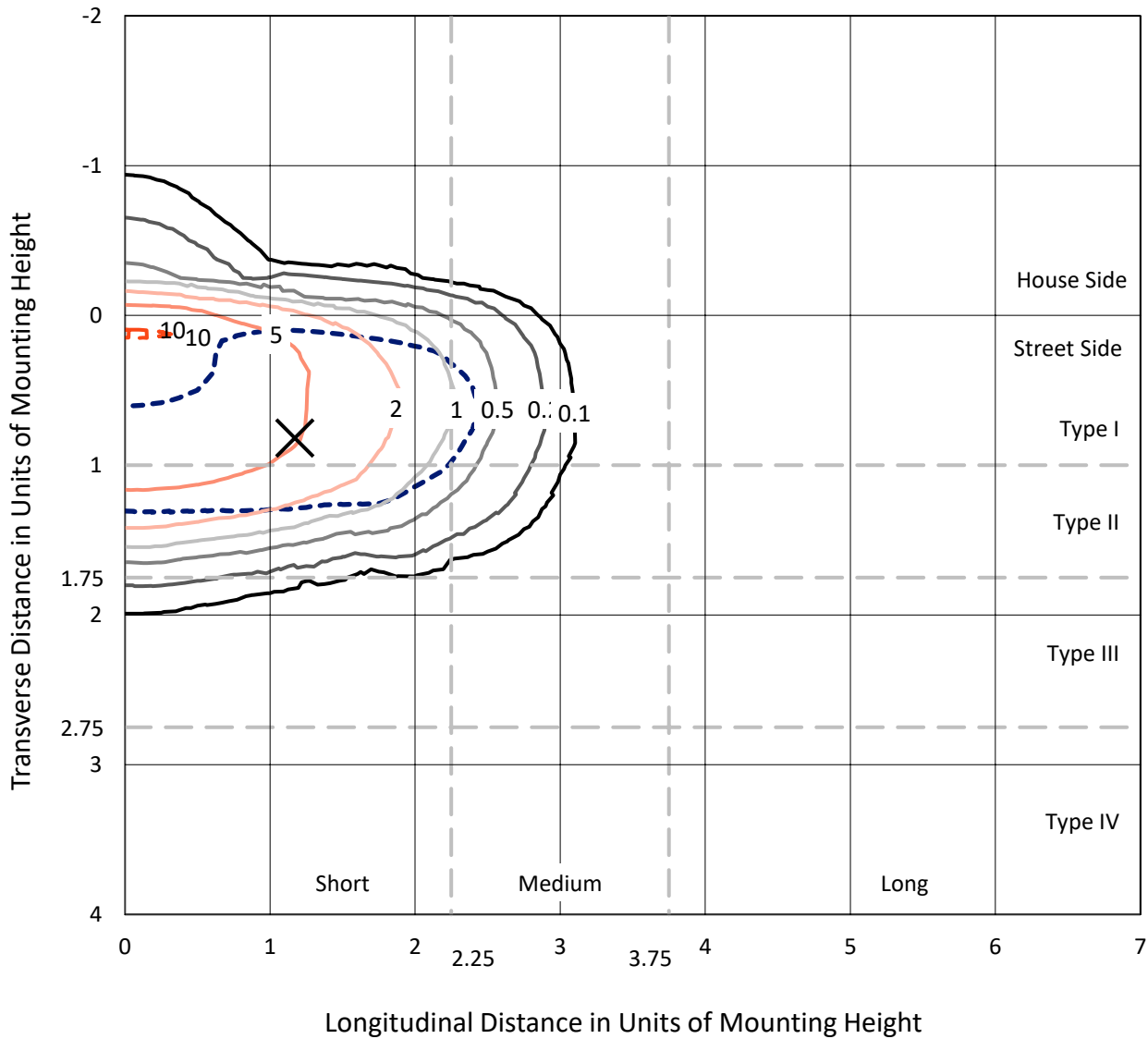
Lumens per Lamp: N/A  
Luminaire Lumens: 12516.4 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

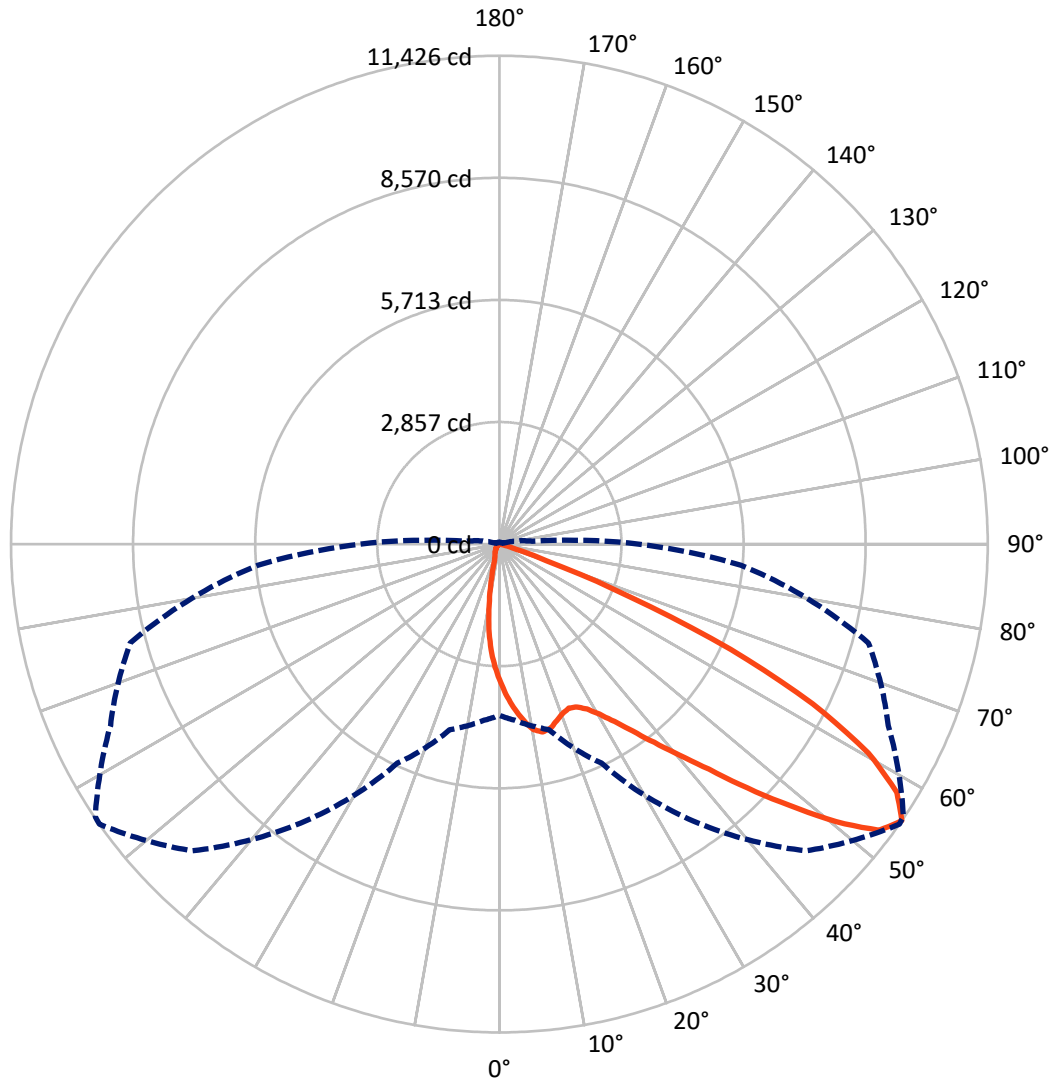
✕ Max cd  
 - - - 1/2 Max cd



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 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	772.3	0.0	772.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11744.1	0.0	11744.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	12516.4	0.0	12516.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.8	2.3
10°-20°	688.9	5.5
20°-30°	1147.4	9.2
30°-40°	1955.2	15.6
40°-50°	3191.5	25.5
50°-60°	3341.4	26.7
60°-70°	1685.3	13.5
70°-80°	212.9	1.7
80°-90°	8.1	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°	12516.4	100.0
0°-180°	12516.4	100.0

**Coefficient of Utilization**



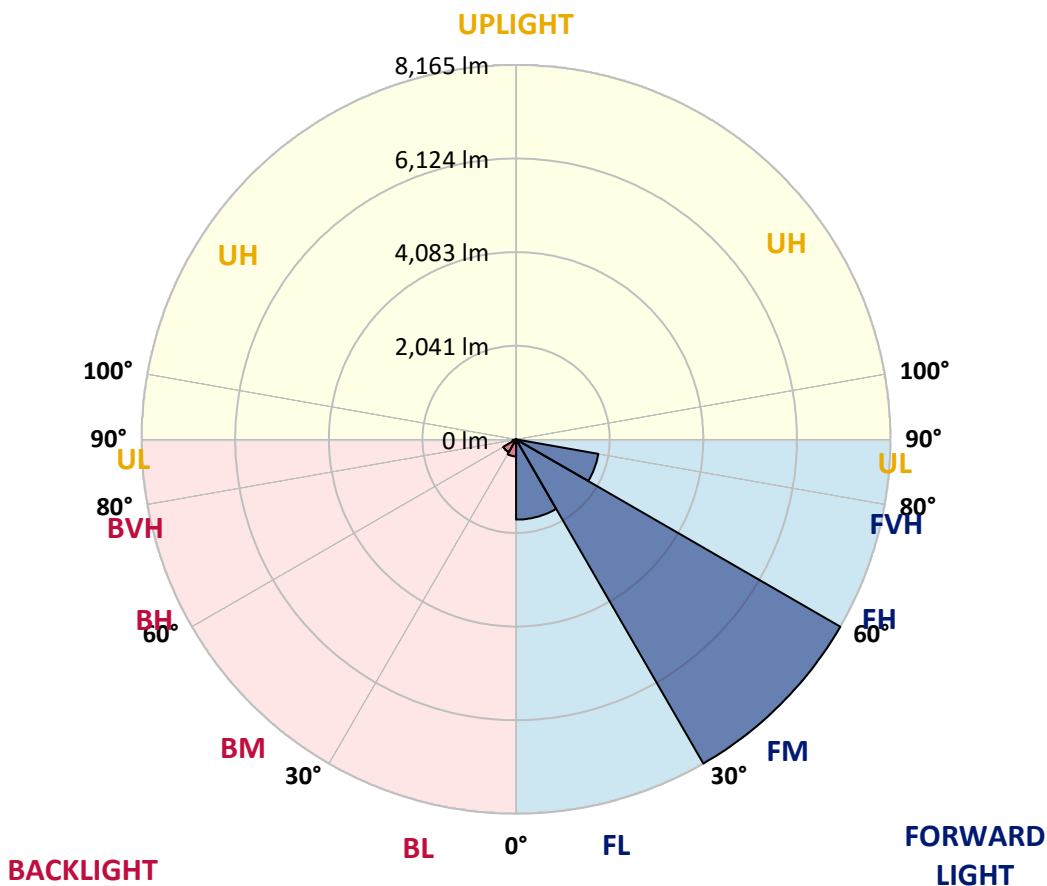
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1750.9	14.0			
FM (30°-60°)	8165.1	65.2			
FH (60°-80°)	1820.7	14.5			G2/5000
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	371.2	3.0	B1/500		
BM (30°-60°)	322.9	2.6	B1/1000		
BH (60°-80°)	77.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5
2.5°	3769.6	3751.4	3779.2	3747.1	3692.5	3646.5	3586.6	3565.2	3468.9	3378.0	3290.2
5°	4227.5	4232.9	4224.3	4179.4	4102.3	4016.7	3895.8	3869.1	3701.1	3527.8	3340.5
7.5°	4340.9	4337.7	4355.9	4373.0	4360.2	4317.4	4185.8	4159.0	3950.4	3690.4	3417.5
10°	3991.1	3993.2	4030.6	4146.2	4289.6	4438.3	4418.0	4403.0	4198.6	3874.4	3503.1
12.5°	3496.7	3516.0	3555.6	3720.3	3963.2	4301.4	4511.1	4526.1	4426.5	4076.7	3603.7
15°	3282.7	3287.0	3319.1	3418.6	3599.4	4016.7	4471.5	4513.2	4617.0	4280.0	3712.9
17.5°	3277.4	3282.7	3296.6	3340.5	3458.2	3793.1	4344.2	4416.9	4760.4	4498.2	3843.4
20°	3478.5	3475.3	3465.7	3442.2	3493.5	3719.3	4226.5	4306.7	4838.5	4711.2	3975.0
22.5°	3843.4	3839.1	3796.3	3698.9	3657.2	3786.7	4168.7	4241.4	4885.6	4900.5	4083.1
25°	4263.9	4293.9	4213.6	4066.0	3963.2	3959.0	4220.0	4271.4	4926.2	5068.5	4156.9
27.5°	4725.1	4734.7	4666.2	4500.4	4351.6	4235.0	4368.8	4407.3	4971.2	5218.3	4198.6
30°	5231.2	5228.0	5149.9	4957.3	4776.4	4608.4	4619.1	4634.1	5076.0	5389.5	4244.6
32.5°	5863.5	5877.4	5738.3	5476.2	5259.0	5026.8	4946.6	4948.7	5265.4	5609.9	4314.2
35°	6722.7	6688.5	6504.5	6131.0	5760.8	5510.4	5373.5	5361.7	5557.5	5906.3	4435.1
37.5°	7541.3	7544.5	7351.9	6941.0	6473.4	6078.6	5884.9	5852.8	5968.4	6317.2	4636.3
40°	8109.4	8120.1	8039.9	7824.8	7329.4	6770.9	6486.3	6453.1	6501.2	6837.2	4899.5
42.5°	8410.1	8440.1	8462.5	8512.8	8137.3	7635.4	7197.8	7194.6	7144.3	7430.0	5204.4
45°	8421.9	8466.8	8603.8	8947.2	8990.0	8622.0	8145.8	8074.1	7880.5	8064.5	5477.3
47.5°	7956.4	8060.2	8351.3	9031.8	9481.2	9603.1	9131.3	9087.4	8543.9	8566.3	5681.6
50°	6871.5	6979.5	7515.6	8598.4	9605.3	10382.1	10213.0	10122.1	9098.1	8898.0	5780.1
52.5°	5758.7	5857.1	6220.9	7567.0	9090.6	10627.1	11124.7	11016.6	9595.7	9013.6	5739.4
55°	4007.1	4138.7	4494.0	5656.0	7905.1	10149.9	11426.4	11403.9	10039.7	8940.8	5676.3
57.5°	1964.5	2095.0	2449.2	3487.1	5856.0	8861.6	10965.2	11084.0	10305.1	8862.7	5624.9
60°	820.7	874.2	996.2	1530.1	3276.3	6697.1	9924.1	10088.9	10142.4	8756.8	5619.6
62.5°	476.1	484.7	497.5	634.5	1274.4	3839.1	8232.5	8466.8	9287.5	8616.6	5535.0
65°	359.5	362.7	357.4	389.5	526.4	1456.3	5948.1	6266.9	7752.1	8068.8	5201.2
67.5°	295.3	295.3	281.4	287.8	330.6	545.7	3283.8	3728.9	5736.2	6631.8	4294.9
70°	235.4	240.7	234.3	225.8	236.5	301.7	1168.4	1448.8	3340.5	3916.2	2504.8
72.5°	178.7	178.7	189.4	183.0	175.5	189.4	407.7	458.0	1340.7	1632.8	904.1
75°	138.0	142.3	149.8	143.4	132.7	112.3	195.8	207.6	404.5	379.8	202.2
77.5°	70.6	71.7	95.2	104.9	98.4	68.5	85.6	94.2	131.6	117.7	74.9
80°	42.8	44.9	53.5	82.4	65.3	36.4	35.3	37.4	62.1	53.5	31.0
82.5°	18.2	19.3	30.0	30.0	26.7	13.9	13.9	13.9	30.0	27.8	12.8
85°	0.0	0.0	5.3	4.3	4.3	5.3	5.3	5.3	7.5	10.7	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.2	3.2
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°	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5	3233.5
2.5°	3233.5	3165.0	3073.0	2989.5	2877.2	2814.1	2726.3	2654.6	2593.7	2574.4	2565.8
5°	3234.6	3116.9	2920.0	2723.1	2481.3	2290.8	2095.0	1939.9	1812.6	1771.9	1761.2
7.5°	3256.0	3082.6	2763.8	2406.4	2001.9	1668.1	1369.6	1102.1	978.0	936.2	927.7
10°	3284.9	3053.7	2583.0	2026.6	1445.6	1016.5	720.1	548.9	467.6	422.6	429.1
12.5°	3322.3	3030.2	2382.9	1615.7	956.6	558.5	395.9	331.7	314.6	306.0	301.7
15°	3372.6	3002.4	2134.6	1208.0	586.4	359.5	304.9	287.8	281.4	277.1	276.1
17.5°	3424.0	2970.3	1882.1	849.6	389.5	298.5	273.9	265.4	261.1	257.9	256.8
20°	3478.5	2915.7	1585.7	585.3	307.1	268.6	252.5	242.9	237.5	232.2	231.1
22.5°	3502.1	2828.0	1302.2	409.8	272.8	247.2	226.8	215.1	208.6	204.4	204.4
25°	3479.6	2685.7	1009.0	311.4	248.2	223.6	203.3	190.5	185.1	180.8	180.8
27.5°	3419.7	2502.7	736.2	257.9	221.5	199.0	179.8	168.0	163.7	161.6	161.6
30°	3353.3	2271.6	518.9	221.5	191.5	173.3	157.3	149.8	148.7	146.6	146.6
32.5°	3296.6	2055.4	357.4	194.7	169.1	150.9	140.2	137.0	138.0	135.9	137.0
35°	3265.6	1843.6	265.4	173.3	150.9	133.7	128.4	128.4	128.4	127.3	127.3
37.5°	3278.4	1634.9	216.1	158.4	134.8	122.0	116.6	118.8	120.9	120.9	120.9
40°	3342.6	1449.8	191.5	144.4	120.9	111.3	107.0	110.2	113.4	115.6	115.6
42.5°	3424.0	1300.0	173.3	132.7	111.3	100.6	98.4	101.6	104.9	107.0	107.0
45°	3475.3	1149.2	155.1	117.7	101.6	88.8	88.8	93.1	92.0	93.1	93.1
47.5°	3498.9	1029.3	137.0	101.6	86.7	77.0	78.1	80.2	78.1	80.2	80.2
50°	3441.1	908.4	120.9	84.5	71.7	67.4	69.5	68.5	68.5	72.8	72.8
52.5°	3335.2	818.5	107.0	71.7	61.0	59.9	62.1	57.8	58.8	58.8	57.8
55°	3257.0	767.2	95.2	62.1	52.4	53.5	52.4	44.9	40.7	36.4	35.3
57.5°	3218.5	746.9	86.7	55.6	47.1	47.1	42.8	31.0	23.5	18.2	16.0
60°	3210.0	722.2	78.1	48.1	41.7	39.6	31.0	18.2	11.8	8.6	7.5
62.5°	3128.6	662.3	70.6	38.5	36.4	32.1	19.3	10.7	6.4	4.3	3.2
65°	2862.2	544.6	63.1	30.0	27.8	23.5	11.8	6.4	3.2	1.1	0.0
67.5°	2276.9	386.3	55.6	22.5	19.3	15.0	7.5	4.3	1.1	0.0	0.0
70°	1312.9	208.6	46.0	16.0	12.8	9.6	5.3	2.1	0.0	0.0	0.0
72.5°	438.7	97.4	35.3	10.7	9.6	7.5	3.2	1.1	0.0	0.0	0.0
75°	96.3	57.8	23.5	7.5	6.4	5.3	2.1	0.0	0.0	0.0	0.0
77.5°	36.4	40.7	11.8	5.3	4.3	3.2	1.1	0.0	0.0	0.0	0.0
80°	13.9	26.7	5.3	3.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	10.7	3.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	5.3	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	1.1	1.1	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)