

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: P636814

Luminaire Tested: GWS-SA4B-750-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636814  
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-SA4B-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**

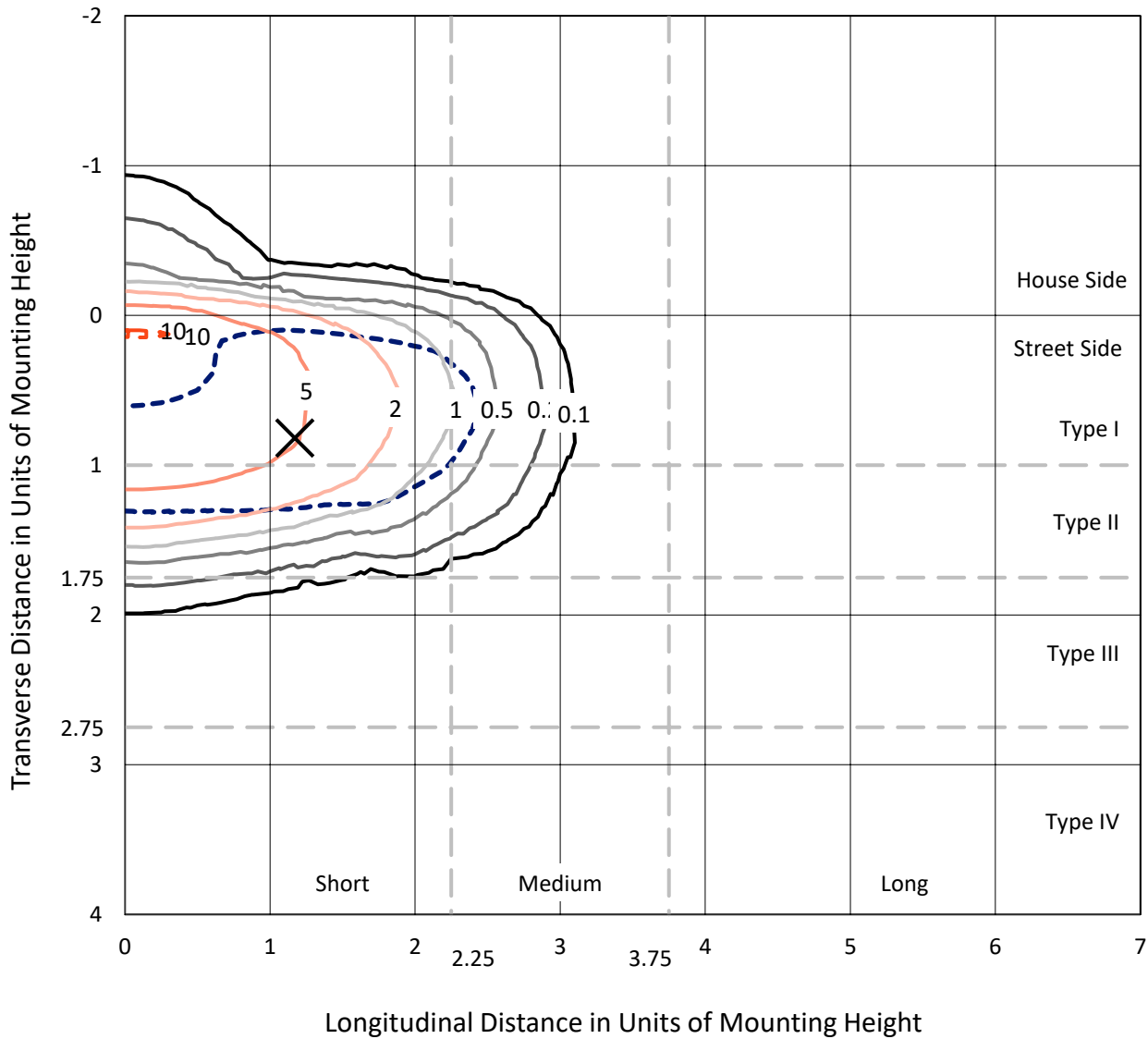
Lumens per Lamp: N/A  
Luminaire Lumens: 12416.2 lumens  
Efficiency: N/A  
Efficacy: 131.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

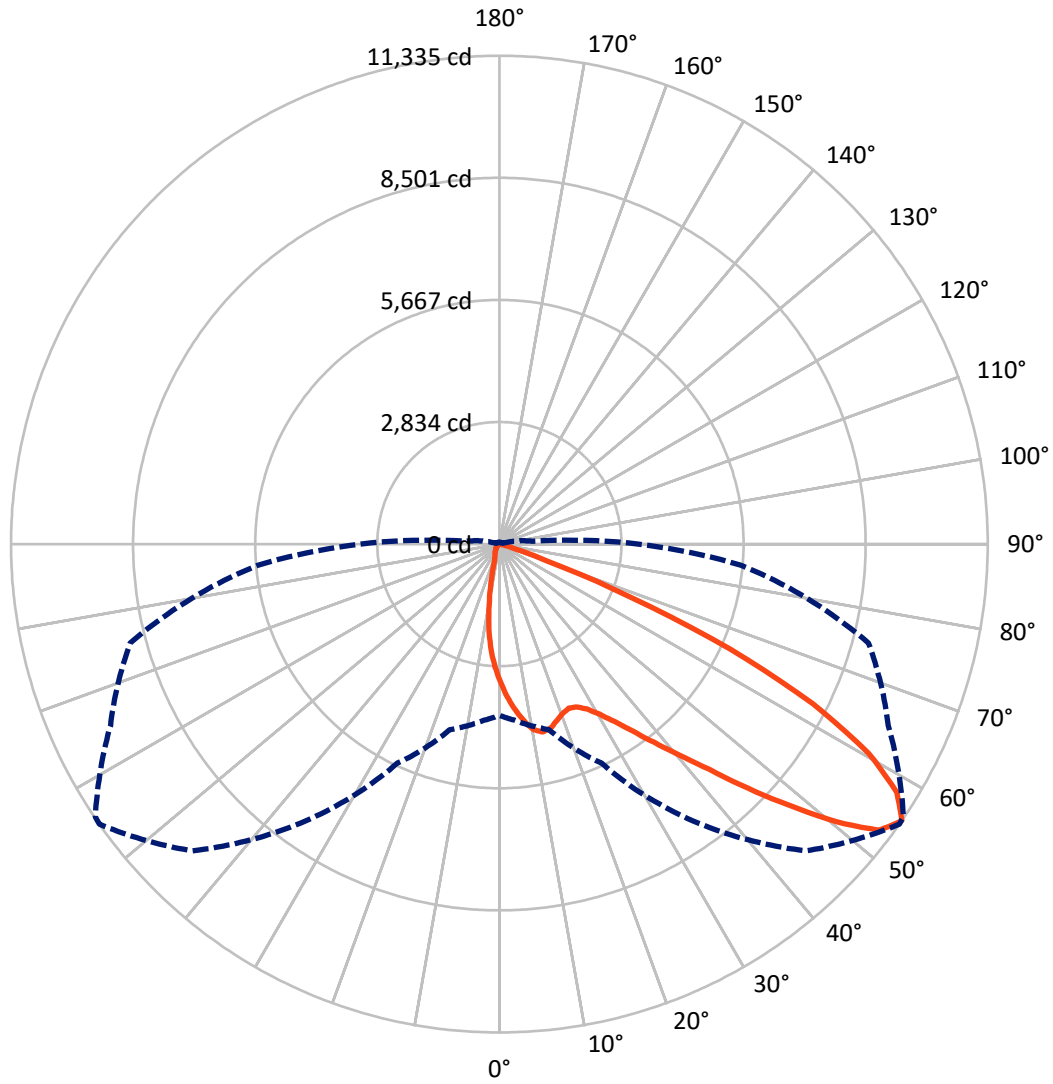
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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	766.1	0.0	766.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11650.1	0.0	11650.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	12416.2	0.0	12416.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.5	2.3
10°-20°	683.4	5.5
20°-30°	1138.2	9.2
30°-40°	1939.5	15.6
40°-50°	3166.0	25.5
50°-60°	3314.6	26.7
60°-70°	1671.8	13.5
70°-80°	211.2	1.7
80°-90°	8.0	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°	12416.2	100.0
0°-180°	12416.2	100.0

**Coefficient of Utilization**



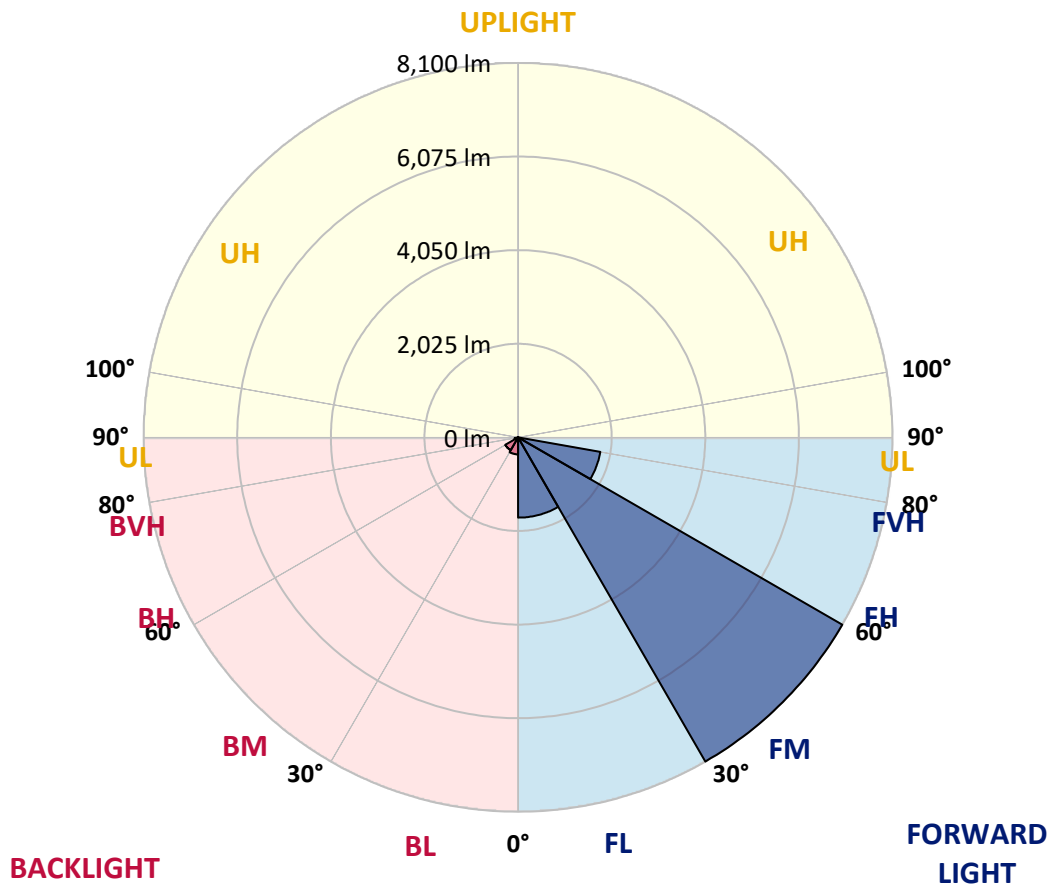
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.9	14.0			
FM (30°-60°)	8099.8	65.2			
FH (60°-80°)	1806.2	14.5			G2/5000
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	368.2	3.0	B1/500		
BM (30°-60°)	320.3	2.6	B1/1000		
BH (60°-80°)	76.9	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°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	3739.4	3721.3	3748.9	3717.1	3663.0	3617.3	3557.9	3536.7	3441.1	3350.9	3263.9
5°	4193.7	4199.0	4190.5	4145.9	4069.5	3984.6	3864.6	3838.1	3671.5	3499.5	3313.8
7.5°	4306.2	4303.0	4321.1	4338.0	4325.3	4282.8	4152.3	4125.7	3918.8	3660.8	3390.2
10°	3959.1	3961.2	3998.4	4113.0	4255.2	4402.8	4382.6	4367.8	4165.0	3843.4	3475.1
12.5°	3468.7	3487.8	3527.1	3690.6	3931.5	4266.9	4475.0	4489.8	4391.1	4044.0	3574.9
15°	3256.4	3260.7	3292.5	3391.2	3570.6	3984.6	4435.7	4477.1	4580.0	4245.7	3683.1
17.5°	3251.1	3256.4	3270.2	3313.8	3430.5	3762.7	4309.4	4381.6	4722.3	4462.2	3812.6
20°	3450.7	3447.5	3437.9	3414.6	3465.5	3689.5	4192.6	4272.2	4799.8	4673.4	3943.2
22.5°	3812.6	3808.4	3765.9	3669.3	3627.9	3756.4	4135.3	4207.5	4846.5	4861.3	4050.4
25°	4229.8	4259.5	4179.9	4033.4	3931.5	3927.3	4186.3	4237.2	4886.8	5028.0	4123.6
27.5°	4687.2	4696.8	4628.9	4464.3	4316.8	4201.1	4333.8	4372.0	4931.4	5176.6	4165.0
30°	5189.3	5186.1	5108.6	4917.6	4738.2	4571.5	4582.2	4597.0	5035.4	5346.4	4210.7
32.5°	5816.6	5830.4	5692.4	5432.4	5216.9	4986.6	4907.0	4909.1	5223.3	5565.0	4279.7
35°	6668.9	6635.0	6452.4	6082.0	5714.7	5466.3	5330.5	5318.8	5513.0	5859.1	4399.6
37.5°	7480.9	7484.1	7293.0	6885.4	6421.6	6029.9	5837.8	5806.0	5920.6	6266.6	4599.1
40°	8044.5	8055.1	7975.5	7762.2	7270.7	6716.7	6434.3	6401.4	6449.2	6782.5	4860.3
42.5°	8342.8	8372.5	8394.8	8444.7	8072.1	7574.3	7140.2	7137.0	7087.1	7370.5	5162.8
45°	8354.5	8399.0	8534.9	8875.6	8918.1	8552.9	8080.6	8009.5	7817.4	7999.9	5433.4
47.5°	7892.7	7995.7	8284.4	8959.5	9405.3	9526.3	9058.2	9014.7	8475.5	8497.7	5636.2
50°	6816.5	6923.7	7455.4	8529.6	9528.4	10299.0	10131.3	10041.1	9025.3	8826.8	5733.8
52.5°	5712.6	5810.2	6171.1	7506.4	9017.8	10542.0	11035.6	10928.4	9518.8	8941.4	5693.5
55°	3975.0	4105.6	4458.0	5610.7	7841.8	10068.7	11334.9	11312.6	9959.3	8869.2	5630.8
57.5°	1948.8	2078.3	2429.6	3459.2	5809.2	8790.7	10877.5	10995.3	10222.6	8791.8	5579.9
60°	814.1	867.2	988.2	1517.8	3250.1	6643.4	9844.7	10008.2	10061.2	8686.7	5574.6
62.5°	472.3	480.8	493.6	629.4	1264.2	3808.4	8166.6	8399.0	9213.1	8547.6	5490.7
65°	356.6	359.8	354.5	386.4	522.2	1444.6	5900.4	6216.8	7690.0	8004.2	5159.6
67.5°	293.0	293.0	279.2	285.5	328.0	541.3	3257.5	3699.1	5690.3	6578.7	4260.5
70°	233.5	238.8	232.5	224.0	234.6	299.3	1159.1	1437.2	3313.8	3884.8	2484.8
72.5°	177.3	177.3	187.9	181.5	174.1	187.9	404.4	454.3	1330.0	1619.7	896.9
75°	136.9	141.2	148.6	142.2	131.6	111.4	194.2	205.9	401.2	376.8	200.6
77.5°	70.1	71.1	94.5	104.0	97.7	67.9	84.9	93.4	130.6	116.8	74.3
80°	42.5	44.6	53.1	81.7	64.7	36.1	35.0	37.1	61.6	53.1	30.8
82.5°	18.0	19.1	29.7	29.7	26.5	13.8	13.8	13.8	29.7	27.6	12.7
85°	0.0	0.0	5.3	4.2	4.2	5.3	5.3	5.3	7.4	10.6	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°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	3207.6	3139.7	3048.4	2965.6	2854.2	2791.5	2704.5	2633.4	2572.9	2553.8	2545.3
5°	3208.7	3091.9	2896.6	2701.3	2461.4	2272.5	2078.3	1924.4	1798.0	1757.7	1747.1
7.5°	3229.9	3058.0	2741.7	2387.1	1985.9	1654.8	1358.6	1093.3	970.1	928.7	920.3
10°	3258.6	3029.3	2562.3	2010.3	1434.0	1008.4	714.3	544.5	463.8	419.3	425.6
12.5°	3295.7	3005.9	2363.8	1602.7	948.9	554.1	392.7	329.0	312.1	303.6	299.3
15°	3345.6	2978.4	2117.5	1198.3	581.7	356.6	302.5	285.5	279.2	274.9	273.8
17.5°	3396.6	2946.5	1867.0	842.8	386.4	296.1	271.7	263.2	259.0	255.8	254.7
20°	3450.7	2892.4	1573.0	580.6	304.6	266.4	250.5	240.9	235.6	230.3	229.3
22.5°	3474.0	2805.3	1291.8	406.5	270.7	245.2	225.0	213.3	207.0	202.7	202.7
25°	3451.7	2664.2	1000.9	308.9	246.3	221.8	201.7	188.9	183.6	179.4	179.4
27.5°	3392.3	2482.7	730.3	255.8	219.7	197.4	178.3	166.6	162.4	160.3	160.3
30°	3326.5	2253.4	514.8	219.7	190.0	172.0	156.0	148.6	147.5	145.4	145.4
32.5°	3270.2	2039.0	354.5	193.2	167.7	149.7	139.0	135.9	136.9	134.8	135.9
35°	3239.5	1828.8	263.2	172.0	149.7	132.7	127.4	127.4	127.4	126.3	126.3
37.5°	3252.2	1621.9	214.4	157.1	133.7	121.0	115.7	117.8	119.9	119.9	119.9
40°	3315.9	1438.2	190.0	143.3	119.9	110.4	106.1	109.3	112.5	114.6	114.6
42.5°	3396.6	1289.6	172.0	131.6	110.4	99.8	97.7	100.8	104.0	106.1	106.1
45°	3447.5	1140.0	153.9	116.8	100.8	88.1	88.1	92.3	91.3	92.3	92.3
47.5°	3470.9	1021.1	135.9	100.8	86.0	76.4	77.5	79.6	77.5	79.6	79.6
50°	3413.5	901.1	119.9	83.9	71.1	66.9	69.0	67.9	67.9	72.2	72.2
52.5°	3308.5	812.0	106.1	71.1	60.5	59.4	61.6	57.3	58.4	58.4	57.3
55°	3231.0	761.0	94.5	61.6	52.0	53.1	52.0	44.6	40.3	36.1	35.0
57.5°	3192.8	740.9	86.0	55.2	46.7	46.7	42.5	30.8	23.4	18.0	15.9
60°	3184.3	716.5	77.5	47.8	41.4	39.3	30.8	18.0	11.7	8.5	7.4
62.5°	3103.6	657.0	70.1	38.2	36.1	31.8	19.1	10.6	6.4	4.2	3.2
65°	2839.3	540.3	62.6	29.7	27.6	23.4	11.7	6.4	3.2	1.1	0.0
67.5°	2258.7	383.2	55.2	22.3	19.1	14.9	7.4	4.2	1.1	0.0	0.0
70°	1302.4	207.0	45.6	15.9	12.7	9.6	5.3	2.1	0.0	0.0	0.0
72.5°	435.2	96.6	35.0	10.6	9.6	7.4	3.2	1.1	0.0	0.0	0.0
75°	95.5	57.3	23.4	7.4	6.4	5.3	2.1	0.0	0.0	0.0	0.0
77.5°	36.1	40.3	11.7	5.3	4.2	3.2	1.1	0.0	0.0	0.0	0.0
80°	13.8	26.5	5.3	3.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	7.4	10.6	3.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	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)