

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: P636869

Luminaire Tested: GWS-SA4B-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636869  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

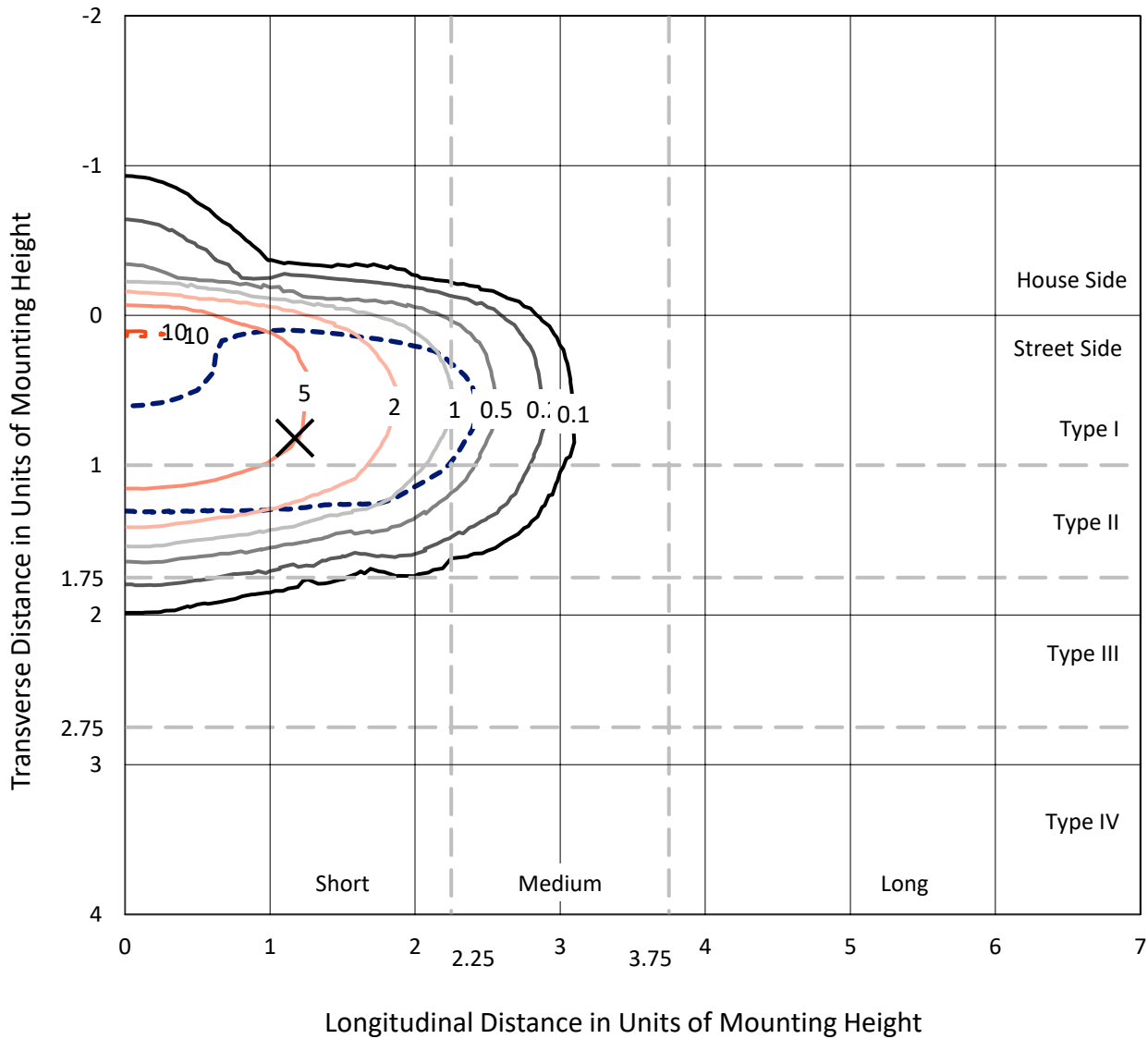
Lumens per Lamp: N/A  
Luminaire Lumens: 12246.1 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

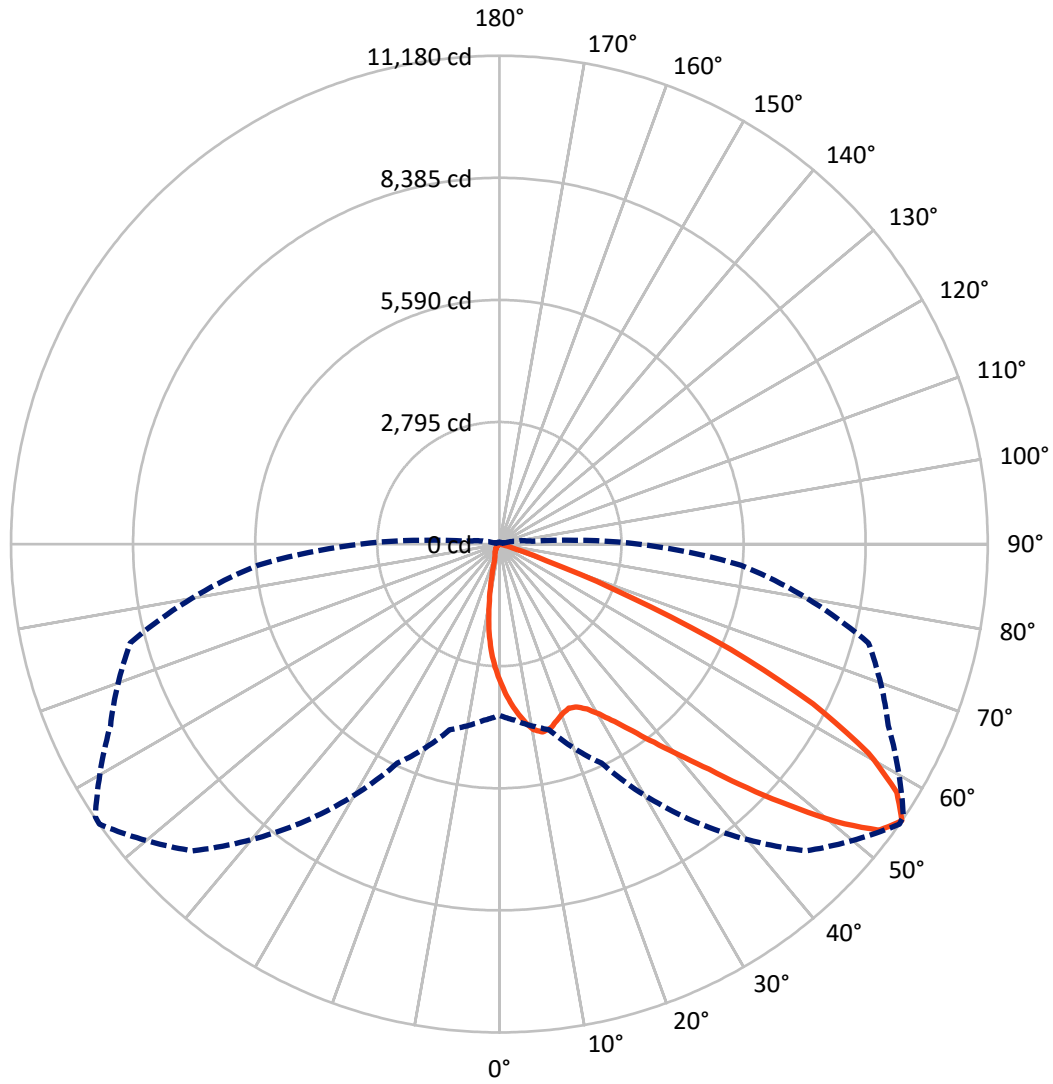
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 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	755.6	0.0	755.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11490.5	0.0	11490.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	12246.1	0.0	12246.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.6	2.3
10°-20°	674.1	5.5
20°-30°	1122.6	9.2
30°-40°	1912.9	15.6
40°-50°	3122.6	25.5
50°-60°	3269.2	26.7
60°-70°	1648.9	13.5
70°-80°	208.3	1.7
80°-90°	7.9	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°	12246.1	100.0
0°-180°	12246.1	100.0

**Coefficient of Utilization**

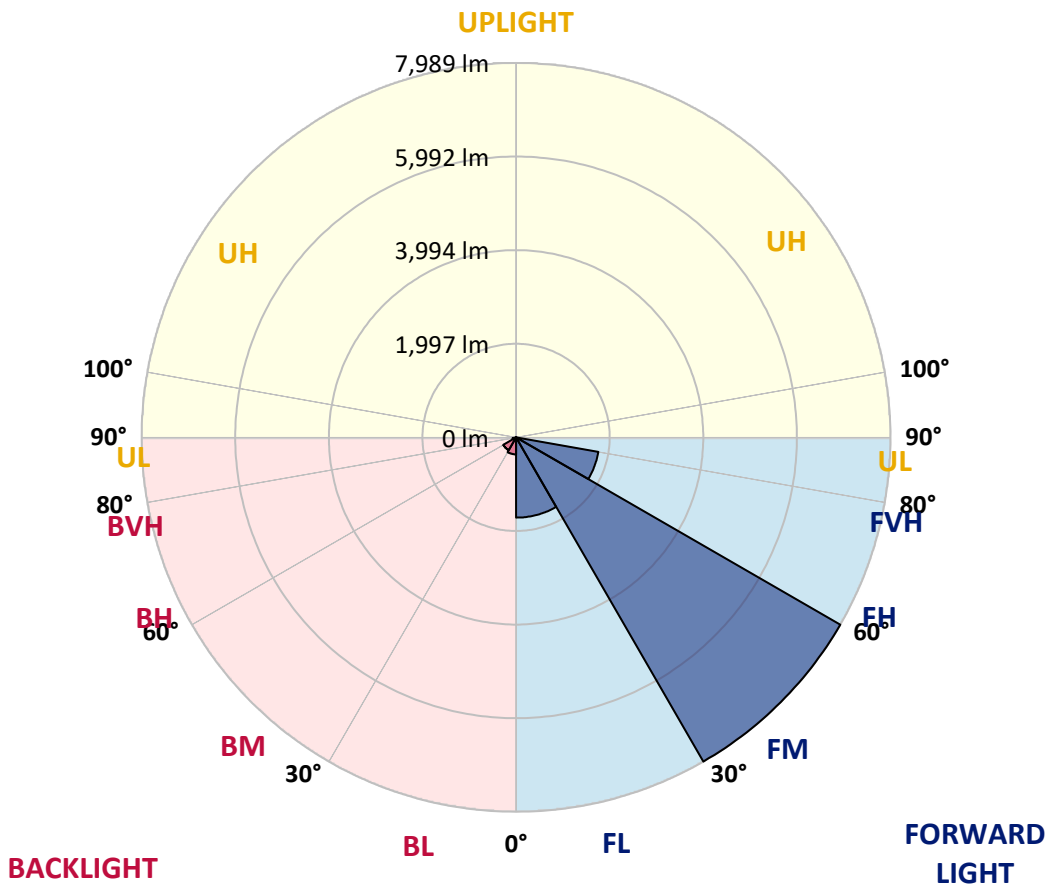


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1713.1	14.0			
FM (30°-60°)	7988.8	65.2			
FH (60°-80°)	1781.4	14.5			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	363.2	3.0	B1/500		
BM (30°-60°)	315.9	2.6	B1/1000		
BH (60°-80°)	75.8	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3688.2	3670.4	3697.6	3666.2	3612.8	3567.8	3509.1	3488.2	3394.0	3305.0	3219.2
5°	4136.2	4141.5	4133.1	4089.1	4013.7	3930.0	3811.7	3785.5	3621.2	3451.6	3268.4
7.5°	4247.2	4244.1	4261.9	4278.6	4266.0	4224.2	4095.4	4069.2	3865.1	3610.7	3343.7
10°	3904.9	3907.0	3943.6	4056.7	4196.9	4342.5	4322.6	4307.9	4108.0	3790.8	3427.5
12.5°	3421.2	3440.1	3478.8	3640.0	3877.6	4208.5	4413.7	4428.3	4330.9	3988.6	3525.9
15°	3211.8	3216.0	3247.4	3344.8	3521.7	3930.0	4374.9	4415.7	4517.3	4187.5	3632.7
17.5°	3206.6	3211.8	3225.4	3268.4	3383.5	3711.2	4250.3	4321.5	4657.6	4401.1	3760.4
20°	3403.4	3400.3	3390.8	3367.8	3418.1	3639.0	4135.2	4213.7	4734.0	4609.4	3889.2
22.5°	3760.4	3756.2	3714.3	3619.1	3578.2	3704.9	4078.6	4149.8	4780.1	4794.7	3994.9
25°	4171.8	4201.1	4122.6	3978.1	3877.6	3873.5	4128.9	4179.1	4819.8	4959.1	4067.1
27.5°	4623.0	4632.4	4565.4	4403.2	4257.7	4143.6	4274.4	4312.1	4863.8	5105.6	4108.0
30°	5118.2	5115.1	5038.6	4850.2	4673.3	4508.9	4519.4	4534.0	4966.4	5273.1	4153.0
32.5°	5736.9	5750.5	5614.4	5357.9	5145.4	4918.2	4839.7	4841.8	5151.7	5488.8	4221.0
35°	6577.6	6544.1	6364.0	5998.6	5636.4	5391.4	5257.4	5245.9	5437.5	5778.8	4339.3
37.5°	7378.4	7381.6	7193.1	6791.1	6333.6	5947.3	5757.8	5726.4	5839.5	6180.8	4536.1
40°	7934.3	7944.8	7866.3	7655.8	7171.1	6624.7	6346.2	6313.7	6360.9	6689.6	4793.7
42.5°	8228.5	8257.8	8279.8	8329.0	7961.5	7470.5	7042.4	7039.2	6990.0	7269.5	5092.0
45°	8240.0	8284.0	8418.0	8754.0	8795.9	8435.8	7969.9	7899.8	7710.3	7890.3	5359.0
47.5°	7784.6	7886.2	8170.9	8836.7	9276.4	9395.8	8934.1	8891.2	8359.3	8381.3	5558.9
50°	6723.1	6828.8	7353.3	8412.7	9397.9	10157.9	9992.5	9903.5	8901.6	8705.9	5655.3
52.5°	5634.3	5730.6	6086.6	7403.5	8894.3	10397.6	10884.4	10778.7	9388.4	8818.9	5615.5
55°	3920.6	4049.3	4396.9	5533.8	7734.4	9930.7	11179.6	11157.7	9822.9	8747.7	5553.7
57.5°	1922.1	2049.8	2396.3	3411.8	5729.6	8670.3	10728.4	10844.6	10082.5	8671.3	5503.5
60°	803.0	855.3	974.6	1497.0	3205.6	6552.4	9709.8	9871.0	9923.4	8567.7	5498.2
62.5°	465.9	474.2	486.8	620.8	1246.8	3756.2	8054.7	8284.0	9086.9	8430.5	5415.5
65°	351.8	354.9	349.7	381.1	515.1	1424.8	5819.6	6131.6	7584.7	7894.5	5088.9
67.5°	288.9	288.9	275.3	281.6	323.5	533.9	3212.9	3648.4	5612.3	6488.6	4202.2
70°	230.3	235.5	229.3	220.9	231.4	295.2	1143.2	1417.5	3268.4	3831.6	2450.7
72.5°	174.8	174.8	185.3	179.0	171.7	185.3	398.9	448.1	1311.7	1597.5	884.6
75°	135.0	139.2	146.6	140.3	129.8	109.9	191.6	203.1	395.7	371.6	197.9
77.5°	69.1	70.1	93.2	102.6	96.3	67.0	83.8	92.1	128.8	115.2	73.3
80°	41.9	44.0	52.3	80.6	63.9	35.6	34.5	36.6	60.7	52.3	30.4
82.5°	17.8	18.8	29.3	29.3	26.2	13.6	13.6	13.6	29.3	27.2	12.6
85°	0.0	0.0	5.2	4.2	4.2	5.2	5.2	5.2	7.3	10.5	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	3.1
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°	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3163.7	3096.7	3006.6	2925.0	2815.1	2753.3	2667.5	2597.3	2537.6	2518.8	2510.4
5°	3164.7	3049.6	2856.9	2664.3	2427.7	2241.4	2049.8	1898.0	1773.4	1733.6	1723.2
7.5°	3185.7	3016.1	2704.1	2354.4	1958.7	1632.1	1340.0	1078.3	956.8	916.0	907.6
10°	3213.9	2987.8	2527.2	1982.8	1414.3	994.5	704.6	537.1	457.5	413.5	419.8
12.5°	3250.6	2964.8	2331.4	1580.8	935.9	546.5	387.3	324.5	307.8	299.4	295.2
15°	3299.8	2937.5	2088.5	1181.9	573.7	351.8	298.4	281.6	275.3	271.1	270.1
17.5°	3350.0	2906.1	1841.5	831.2	381.1	292.1	268.0	259.6	255.4	252.3	251.3
20°	3403.4	2852.8	1551.5	572.6	300.5	262.8	247.1	237.6	232.4	227.2	226.1
22.5°	3426.4	2766.9	1274.1	401.0	267.0	241.8	221.9	210.4	204.1	200.0	200.0
25°	3404.5	2627.7	987.2	304.6	242.9	218.8	198.9	186.3	181.1	176.9	176.9
27.5°	3345.8	2448.7	720.3	252.3	216.7	194.7	175.9	164.4	160.2	158.1	158.1
30°	3280.9	2222.5	507.7	216.7	187.4	169.6	153.9	146.6	145.5	143.4	143.4
32.5°	3225.4	2011.1	349.7	190.5	165.4	147.6	137.1	134.0	135.0	133.0	134.0
35°	3195.1	1803.8	259.6	169.6	147.6	130.9	125.6	125.6	125.6	124.6	124.6
37.5°	3207.6	1599.6	211.5	154.9	131.9	119.3	114.1	116.2	118.3	118.3	118.3
40°	3270.5	1418.5	187.4	141.3	118.3	108.9	104.7	107.8	111.0	113.1	113.1
42.5°	3350.0	1272.0	169.6	129.8	108.9	98.4	96.3	99.5	102.6	104.7	104.7
45°	3400.3	1124.4	151.8	115.2	99.5	86.9	86.9	91.1	90.0	91.1	91.1
47.5°	3423.3	1007.1	134.0	99.5	84.8	75.4	76.4	78.5	76.4	78.5	78.5
50°	3366.8	888.8	118.3	82.7	70.1	66.0	68.0	67.0	67.0	71.2	71.2
52.5°	3263.1	800.9	104.7	70.1	59.7	58.6	60.7	56.5	57.6	57.6	56.5
55°	3186.7	750.6	93.2	60.7	51.3	52.3	51.3	44.0	39.8	35.6	34.5
57.5°	3149.0	730.7	84.8	54.4	46.1	46.1	41.9	30.4	23.0	17.8	15.7
60°	3140.6	706.6	76.4	47.1	40.8	38.7	30.4	17.8	11.5	8.4	7.3
62.5°	3061.1	648.0	69.1	37.7	35.6	31.4	18.8	10.5	6.3	4.2	3.1
65°	2800.4	532.9	61.8	29.3	27.2	23.0	11.5	6.3	3.1	1.0	0.0
67.5°	2227.8	377.9	54.4	22.0	18.8	14.7	7.3	4.2	1.0	0.0	0.0
70°	1284.5	204.1	45.0	15.7	12.6	9.4	5.2	2.1	0.0	0.0	0.0
72.5°	429.2	95.3	34.5	10.5	9.4	7.3	3.1	1.0	0.0	0.0	0.0
75°	94.2	56.5	23.0	7.3	6.3	5.2	2.1	0.0	0.0	0.0	0.0
77.5°	35.6	39.8	11.5	5.2	4.2	3.1	1.0	0.0	0.0	0.0	0.0
80°	13.6	26.2	5.2	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	10.5	3.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	5.2	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	1.0	1.0	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)