

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: P635492

Luminaire Tested: GWS-SA3D-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-830-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

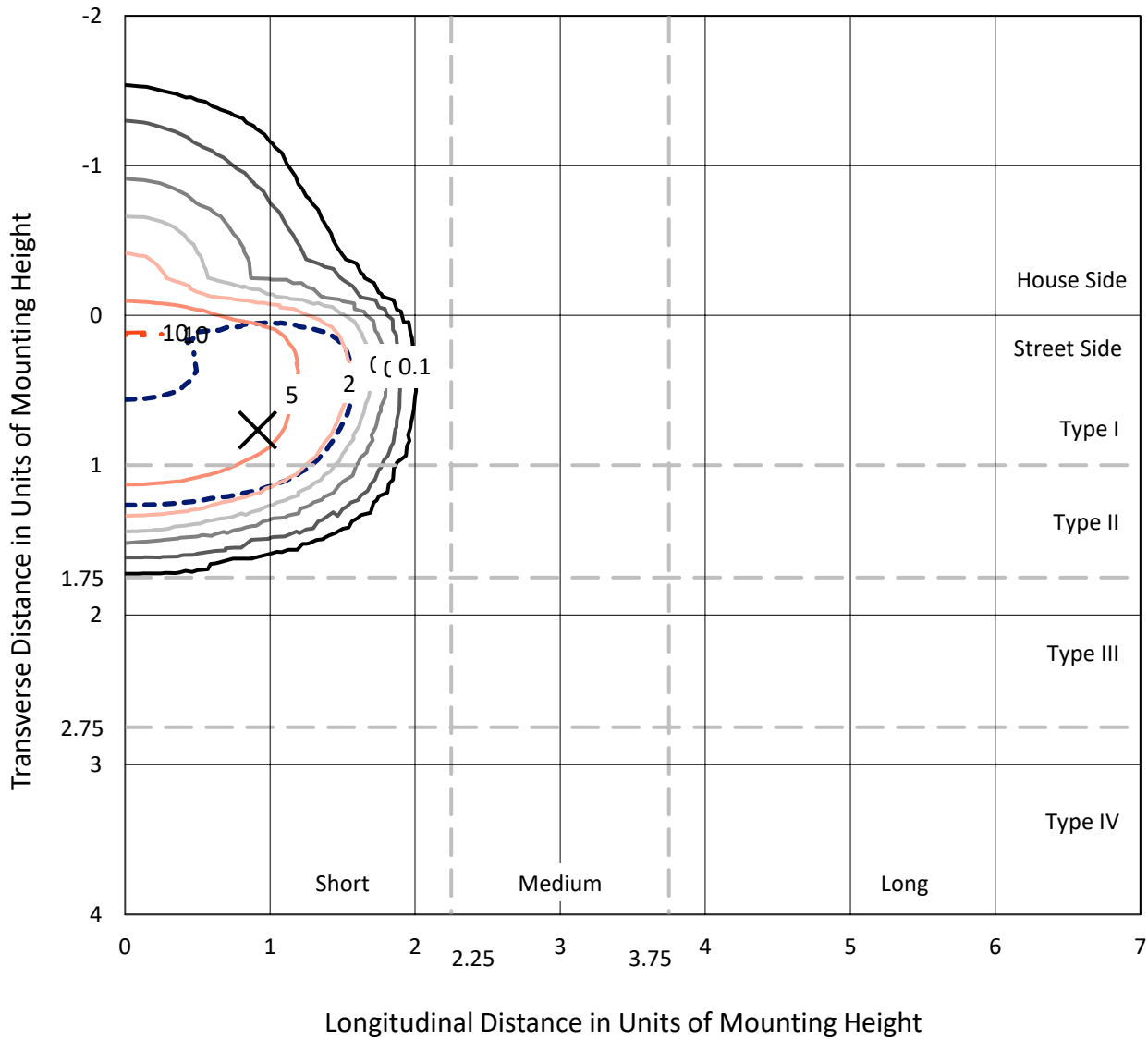
Lumens per Lamp: N/A  
Luminaire Lumens: 10528.8 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

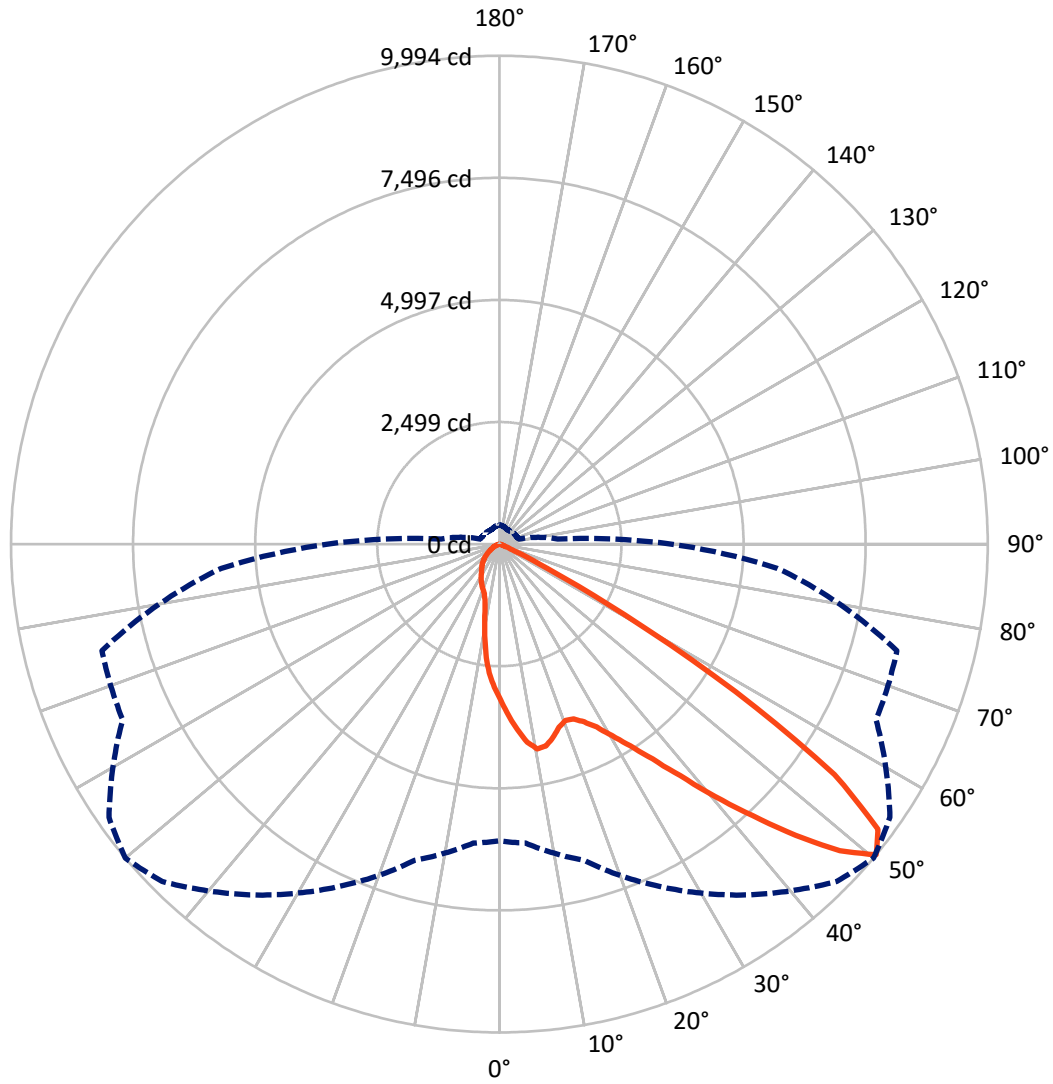
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1352.8	0.0	1352.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	9176.0	0.0	9176.0
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	10528.8	0.0	10528.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.9	2.8
10°-20°	763.5	7.3
20°-30°	1260.0	12.0
30°-40°	2079.2	19.7
40°-50°	3289.8	31.2
50°-60°	2490.8	23.7
60°-70°	311.7	3.0
70°-80°	35.3	0.3
80°-90°	2.7	0.0
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°	10528.8	100.0
0°-180°	10528.8	100.0

**Coefficient of Utilization**



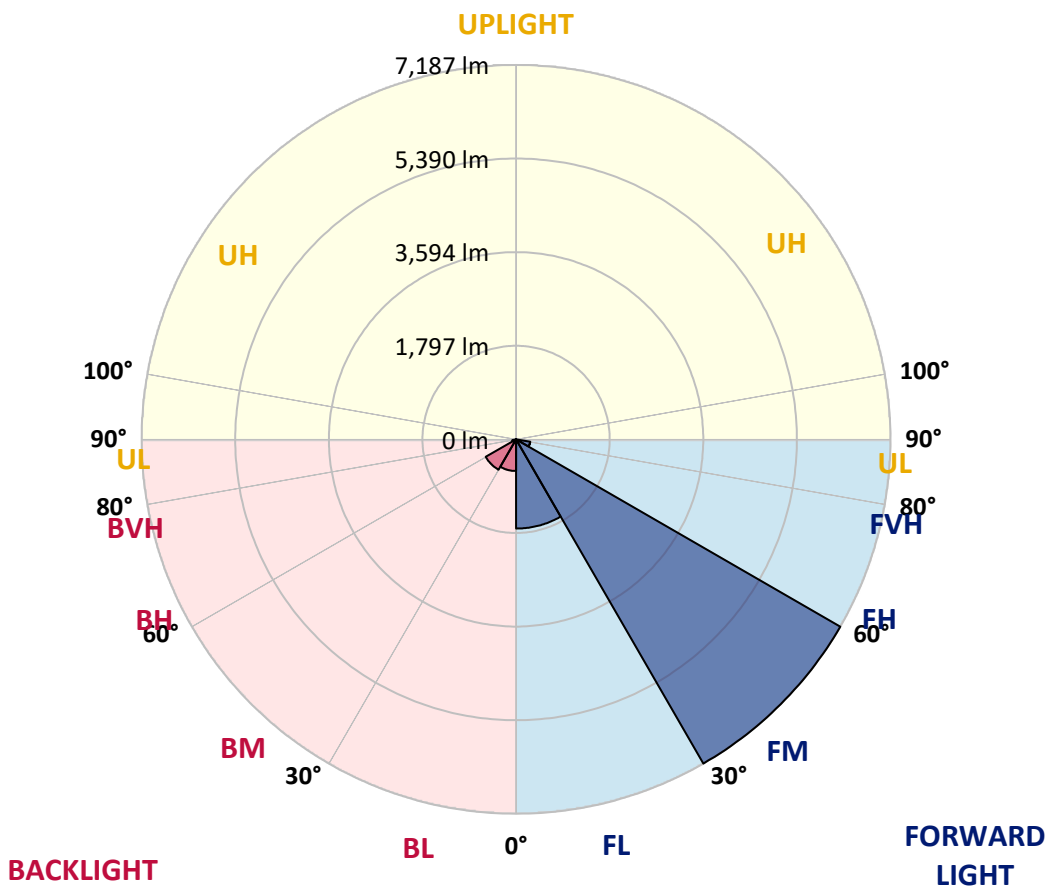
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1712.1	16.3			
FM (30°-60°)	7187.0	68.3			
FH (60°-80°)	275.6	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	607.2	5.8	B2/1000		
BM (30°-60°)	672.8	6.4	B1/1000		
BH (60°-80°)	71.4	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8
2.5°	3634.8	3663.8	3655.8	3617.7	3576.6	3547.6	3502.5	3488.4	3386.2	3315.1	3239.9
5°	4073.7	4082.7	4072.7	4026.6	3954.4	3885.3	3811.1	3768.0	3596.7	3442.3	3285.0
7.5°	4178.9	4167.9	4186.9	4210.0	4200.0	4169.9	4091.7	4044.6	3840.2	3588.7	3350.2
10°	3850.2	3825.2	3896.3	4015.6	4140.8	4282.1	4262.1	4266.1	4077.7	3773.1	3435.3
12.5°	3414.3	3404.3	3457.4	3595.7	3841.2	4161.9	4239.0	4368.3	4295.2	3972.5	3532.5
15°	3222.9	3227.9	3260.0	3347.1	3523.5	3922.4	4107.8	4341.3	4489.6	4165.9	3639.8
17.5°	3251.9	3270.0	3269.0	3298.0	3405.3	3724.9	3941.4	4256.1	4639.9	4388.4	3763.0
20°	3449.4	3467.4	3440.3	3418.3	3454.4	3674.8	3854.2	4169.9	4741.1	4612.8	3893.3
22.5°	3745.0	3766.0	3701.9	3638.8	3615.7	3757.0	3887.3	4134.8	4818.3	4818.3	4009.6
25°	4102.8	4131.8	4032.6	3920.4	3856.2	3930.4	4028.6	4214.0	4897.5	5002.7	4088.7
27.5°	4502.6	4503.6	4418.4	4292.2	4171.9	4180.9	4240.0	4392.4	4984.6	5201.1	4150.9
30°	4952.6	4955.6	4842.3	4691.0	4539.7	4498.6	4548.7	4664.0	5166.0	5450.6	4237.0
32.5°	5533.8	5547.8	5385.5	5163.0	4966.6	4889.4	4918.5	5039.8	5454.6	5763.3	4366.3
35°	6319.5	6334.5	6095.0	5801.4	5488.7	5372.5	5401.5	5523.8	5872.5	6207.2	4572.8
37.5°	7095.1	7115.2	6872.7	6599.1	6170.2	5977.8	6007.8	6124.1	6499.9	6820.6	4903.5
40°	7631.3	7658.3	7583.2	7398.8	7000.9	6748.4	6784.5	6826.6	7190.3	7554.1	5332.4
42.5°	7913.9	7952.0	7984.0	8078.2	7868.8	7657.3	7596.2	7599.2	7892.8	8301.7	5778.3
45°	7930.9	7968.0	8132.4	8496.1	8655.5	8611.4	8500.1	8425.0	8429.0	8799.8	6056.9
47.5°	7379.8	7448.9	7756.6	8469.1	9068.4	9434.1	9378.0	9199.6	8654.5	8832.9	6026.9
50°	6074.0	6142.1	6701.3	7726.5	8767.7	9762.8	9994.3	9754.8	8507.2	8421.0	5717.2
52.5°	4411.4	4418.4	4781.2	5978.8	7549.1	9156.5	9701.7	9678.7	8282.7	7921.9	5294.3
55°	2095.5	2070.4	2478.3	3374.2	5221.1	7405.8	8324.8	8585.3	7964.0	7561.1	4966.6
57.5°	610.3	622.3	803.7	1316.8	2611.6	4733.1	5701.2	6186.2	6537.0	6216.3	3852.2
60°	273.6	274.6	305.7	400.9	869.9	2201.7	2947.3	3547.6	3908.3	3621.7	1911.1
62.5°	198.4	199.4	211.5	226.5	295.6	745.6	1105.4	1473.1	1500.2	982.1	484.0
65°	165.4	165.4	167.4	167.4	177.4	266.6	335.7	432.9	364.8	270.6	189.4
67.5°	133.3	134.3	136.3	136.3	133.3	133.3	144.3	158.3	169.4	209.4	174.4
70°	104.2	103.2	103.2	104.2	101.2	86.2	93.2	106.2	116.2	163.3	151.3
72.5°	81.2	82.2	81.2	77.2	70.1	51.1	55.1	69.1	74.2	102.2	102.2
75°	61.1	62.1	58.1	44.1	29.1	16.0	21.0	34.1	43.1	50.1	37.1
77.5°	8.0	8.0	6.0	6.0	5.0	6.0	6.0	8.0	12.0	12.0	9.0
80°	1.0	1.0	1.0	2.0	3.0	4.0	4.0	4.0	4.0	5.0	5.0
82.5°	1.0	1.0	1.0	1.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0
87.5°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
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°	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8	3189.8
2.5°	3194.8	3136.7	3066.5	3018.4	2950.3	2905.2	2841.1	2798.0	2760.9	2731.8	2747.9
5°	3195.8	3103.6	2960.3	2838.1	2704.8	2582.5	2451.2	2348.0	2254.8	2212.7	2235.8
7.5°	3215.9	3083.6	2864.1	2646.6	2391.1	2138.6	1902.1	1709.6	1614.4	1569.3	1583.4
10°	3254.9	3074.6	2756.9	2396.1	1981.2	1636.5	1407.0	1276.7	1223.6	1195.6	1200.6
12.5°	3291.0	3068.5	2617.6	2066.4	1563.3	1269.7	1150.5	1132.4	1143.4	1144.4	1143.4
15°	3340.1	3057.5	2445.2	1727.7	1250.7	1097.3	1100.3	1126.4	1152.5	1160.5	1158.5
17.5°	3392.2	3040.5	2222.7	1403.0	1061.3	1047.2	1082.3	1117.4	1143.4	1147.4	1148.5
20°	3446.4	3005.4	1969.2	1145.4	973.1	1009.2	1048.2	1074.3	1093.3	1099.3	1101.4
22.5°	3471.4	2931.3	1676.6	961.1	914.0	962.1	991.1	1025.2	1031.2	1009.2	1013.2
25°	3458.4	2806.0	1391.0	836.8	854.8	902.9	946.0	929.0	903.9	887.9	892.9
27.5°	3417.3	2639.6	1111.4	745.6	791.7	852.8	857.8	838.8	834.8	821.8	825.8
30°	3373.2	2448.2	893.9	672.4	727.6	791.7	776.7	783.7	784.7	769.6	774.7
32.5°	3346.1	2247.8	711.5	623.3	686.5	698.5	728.6	742.6	743.6	708.5	714.5
35°	3355.2	2050.4	602.3	583.2	648.4	645.4	687.5	695.5	637.4	589.3	594.3
37.5°	3428.3	1868.0	540.2	552.2	582.2	605.3	637.4	584.2	571.2	549.2	552.2
40°	3564.6	1712.7	503.1	533.1	537.1	574.2	525.1	532.1	533.1	519.1	522.1
42.5°	3723.9	1583.4	481.0	522.1	512.1	518.1	469.0	483.0	498.1	492.1	493.1
45°	3804.1	1457.1	462.0	484.0	487.0	429.9	418.9	433.9	453.0	456.0	457.0
47.5°	3733.0	1336.9	441.9	428.9	449.0	391.8	378.8	383.8	405.9	417.9	419.9
50°	3515.5	1198.6	411.9	379.8	368.8	351.8	339.7	340.7	365.8	386.8	390.8
52.5°	3209.9	1054.3	362.8	321.7	296.6	309.7	312.7	306.7	329.7	350.7	354.8
55°	2913.2	873.9	287.6	261.6	238.5	266.6	274.6	266.6	273.6	287.6	288.6
57.5°	2051.4	494.1	220.5	216.5	197.4	228.5	241.5	229.5	217.5	226.5	228.5
60°	951.0	258.6	169.4	169.4	164.4	196.4	218.5	201.4	178.4	182.4	185.4
62.5°	297.6	163.3	124.3	117.3	134.3	167.4	185.4	168.4	141.3	141.3	145.3
65°	168.4	140.3	98.2	90.2	109.2	134.3	145.3	127.3	103.2	101.2	101.2
67.5°	156.3	133.3	87.2	73.2	77.2	86.2	90.2	78.2	71.2	70.1	71.2
70°	129.3	111.2	70.1	50.1	47.1	46.1	48.1	45.1	43.1	44.1	47.1
72.5°	80.2	67.1	44.1	30.1	26.1	25.1	25.1	25.1	24.1	24.1	24.1
75°	29.1	25.1	20.0	15.0	13.0	12.0	12.0	13.0	12.0	11.0	10.0
77.5°	9.0	8.0	8.0	8.0	7.0	6.0	5.0	5.0	4.0	3.0	3.0
80°	5.0	5.0	5.0	5.0	4.0	4.0	3.0	2.0	1.0	1.0	0.0
82.5°	5.0	5.0	5.0	4.0	4.0	4.0	3.0	2.0	1.0	0.0	0.0
85°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0	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)