

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: P636768

Luminaire Tested: GWS-SA4B-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-740-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

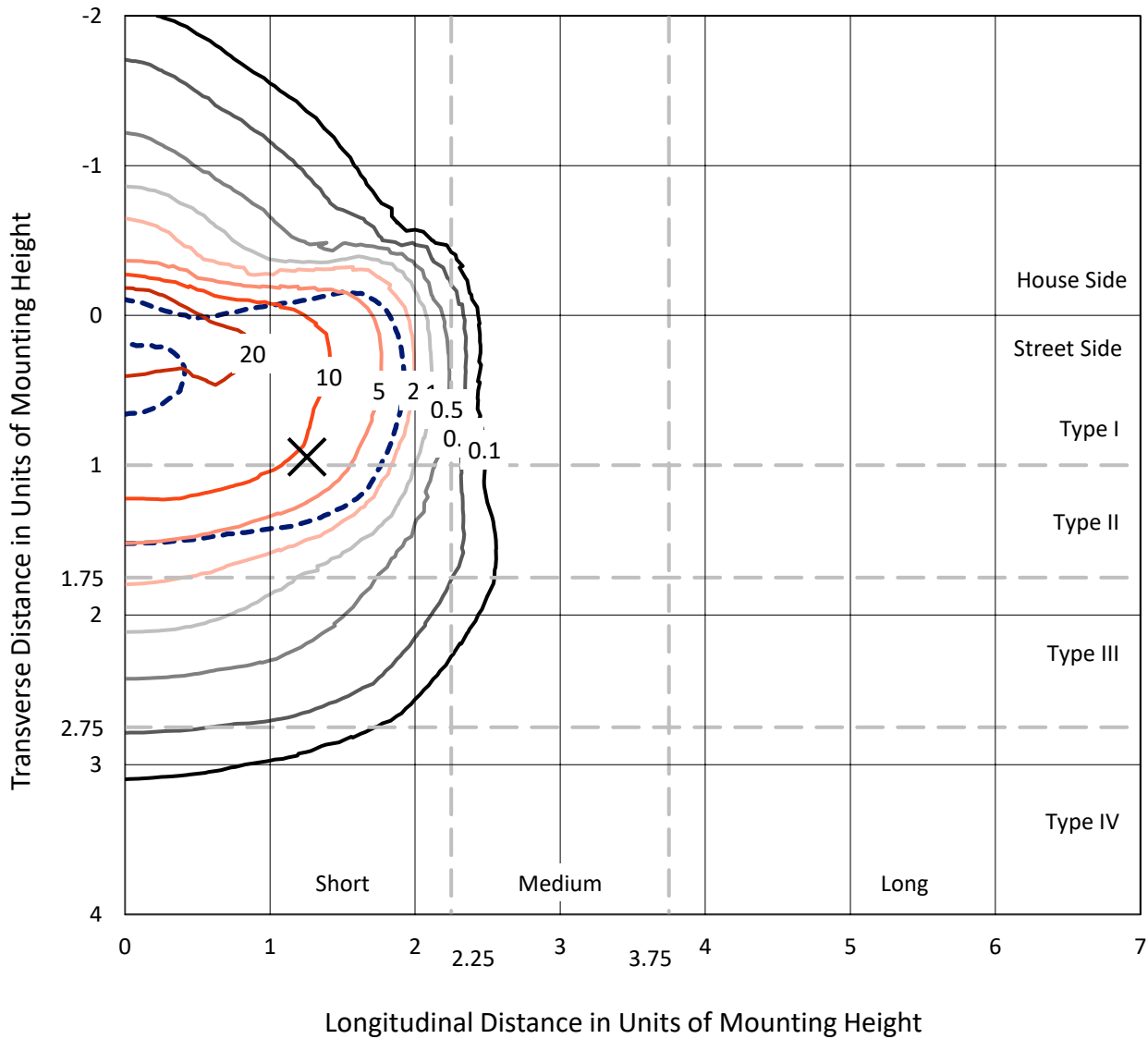
Lumens per Lamp: N/A  
Luminaire Lumens: 8466 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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

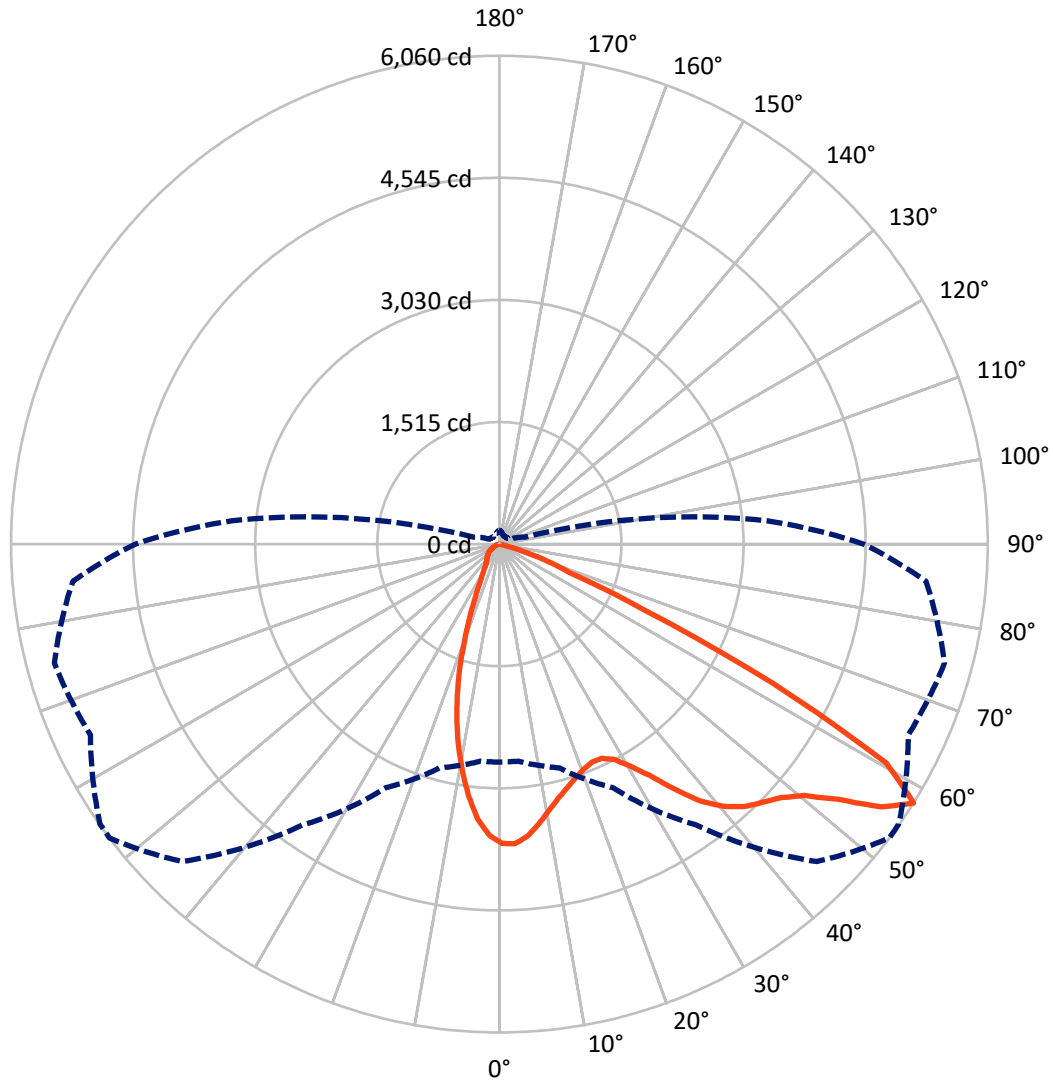
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1398.5	0.0	1398.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7067.5	0.0	7067.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8466.0	0.0	8466.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.7	3.8
10°-20°	697.5	8.2
20°-30°	908.7	10.7
30°-40°	1318.1	15.6
40°-50°	1901.9	22.5
50°-60°	2300.2	27.2
60°-70°	937.5	11.1
70°-80°	84.2	1.0
80°-90°	0.0	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°	8466.0	100.0
0°-180°	8466.0	100.0

**Coefficient of Utilization**



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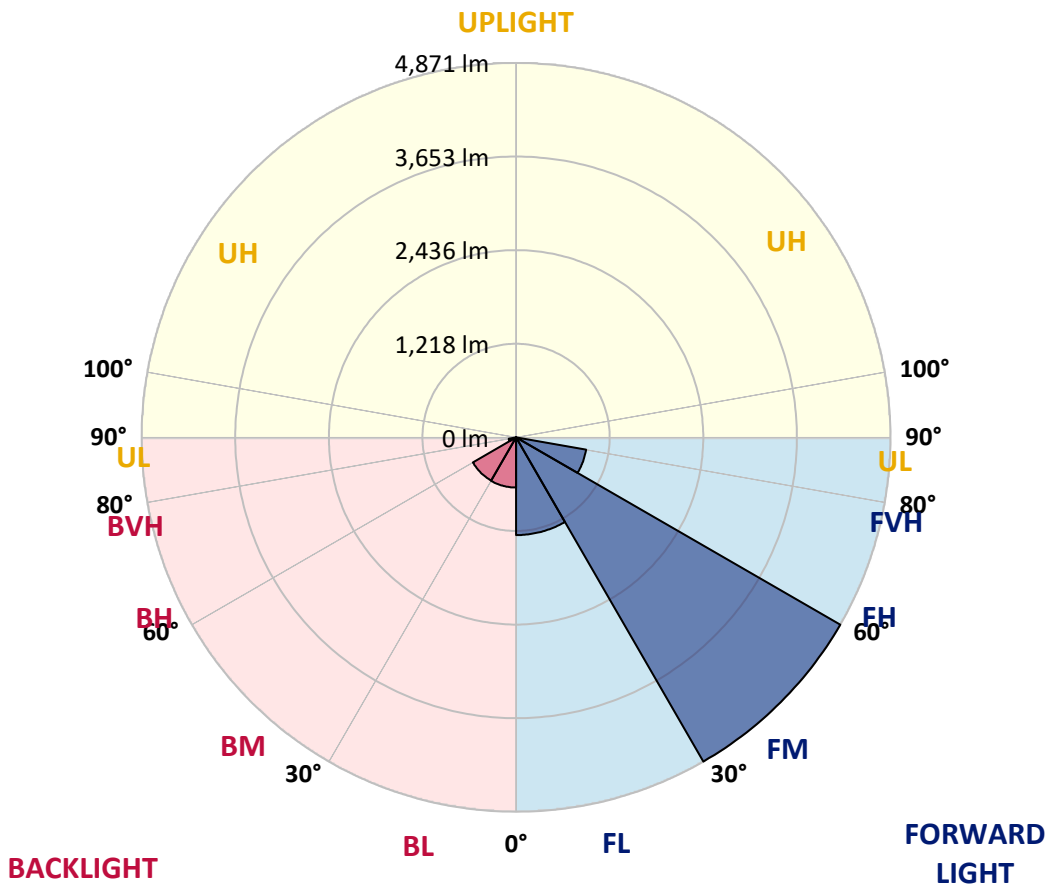
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.3	15.0			
FM (30°-60°)	4871.2	57.5			
FH (60°-80°)	925.0	10.9			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	652.7	7.7	B2/1000		
BM (30°-60°)	649.1	7.7	B1/1000		
BH (60°-80°)	96.7	1.1	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7
2.5°	3661.8	3670.1	3684.6	3703.3	3715.7	3722.0	3722.0	3739.6	3728.2	3718.9	3708.5
5°	3505.1	3513.4	3533.1	3563.2	3593.3	3615.1	3640.0	3658.7	3665.9	3665.9	3648.3
7.5°	3284.1	3295.5	3308.0	3349.5	3414.8	3463.6	3506.1	3533.1	3572.6	3585.0	3560.1
10°	3046.5	3057.9	3085.9	3143.0	3217.7	3290.3	3363.0	3397.2	3464.6	3499.9	3471.9
12.5°	2845.2	2850.4	2887.7	2956.2	3051.7	3151.3	3239.5	3274.8	3370.2	3423.1	3389.9
15°	2679.2	2682.3	2719.6	2795.4	2905.4	3027.8	3138.8	3175.1	3292.4	3372.3	3322.5
17.5°	2553.6	2554.6	2586.8	2668.8	2784.0	2919.9	3051.7	3096.3	3247.8	3344.3	3269.6
20°	2490.3	2487.2	2510.0	2581.6	2690.6	2826.5	2982.1	3037.1	3222.9	3340.1	3229.1
22.5°	2491.3	2484.1	2493.4	2544.3	2636.6	2764.2	2938.6	3000.8	3224.9	3357.8	3194.9
25°	2550.5	2540.1	2542.2	2569.2	2634.5	2750.8	2944.8	3011.2	3266.5	3416.9	3182.4
27.5°	2650.1	2638.7	2638.7	2652.2	2687.5	2793.3	3022.6	3098.4	3377.5	3532.1	3208.3
30°	2778.8	2767.4	2763.2	2776.7	2805.7	2903.3	3195.9	3274.8	3567.4	3720.9	3291.4
32.5°	2926.1	2912.6	2919.9	2938.6	2966.6	3101.5	3419.0	3523.8	3805.0	3975.2	3440.8
35°	3081.8	3070.3	3103.5	3144.0	3187.6	3376.4	3727.2	3818.5	4096.6	4291.6	3669.1
37.5°	3230.1	3224.9	3294.5	3379.6	3469.8	3706.4	4040.5	4111.1	4346.6	4636.1	3948.2
40°	3378.5	3377.5	3496.8	3646.2	3790.5	4035.3	4278.1	4336.2	4499.2	4903.8	4215.9
42.5°	3544.5	3544.5	3709.5	3908.7	4100.7	4313.4	4452.5	4478.4	4567.6	5058.4	4417.2
45°	3703.3	3712.6	3903.6	4134.9	4362.2	4530.3	4572.8	4574.9	4595.7	5149.7	4584.2
47.5°	3828.8	3837.1	4065.4	4332.1	4577.0	4695.3	4701.5	4692.2	4669.3	5236.9	4712.9
50°	3930.5	3943.0	4181.6	4463.9	4724.3	4854.0	4901.8	4892.4	4834.3	5330.3	4803.2
52.5°	3980.3	3998.0	4222.1	4529.2	4888.3	5125.9	5258.7	5280.5	5081.3	5382.2	4889.3
55°	3581.9	3607.8	3814.3	4234.6	4979.6	5546.1	5754.7	5750.5	5349.0	5536.8	5098.9
57.5°	2705.1	2703.0	2874.2	3333.9	4253.2	5570.0	6059.7	6051.4	5599.0	5716.3	5313.7
60°	1841.8	1829.3	1875.0	2097.0	2973.8	4537.5	5515.0	5627.1	5421.6	5280.5	4511.6
62.5°	1516.0	1504.6	1490.0	1428.8	1707.9	2826.5	3810.2	3980.3	3953.4	3670.1	2829.6
65°	1241.0	1250.3	1290.8	1264.9	1188.1	1449.6	1977.7	2078.4	1899.9	1599.0	988.9
67.5°	915.2	919.3	972.3	1109.2	1067.7	965.0	930.8	947.4	555.1	255.3	165.0
70°	540.6	543.7	592.5	776.1	866.4	740.9	628.8	619.5	220.0	68.5	74.7
72.5°	306.1	299.9	309.2	369.4	472.1	393.3	323.7	294.7	66.4	38.4	38.4
75°	145.3	141.1	121.4	114.1	103.8	66.4	41.5	35.3	16.6	15.6	15.6
77.5°	1.0	3.1	2.1	3.1	3.1	2.1	1.0	1.0	3.1	3.1	4.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7	3713.7
2.5°	3689.8	3658.7	3651.4	3649.3	3620.3	3589.2	3557.0	3544.5	3525.9	3514.4	3523.8
5°	3620.3	3575.7	3536.2	3499.9	3435.6	3365.0	3303.8	3264.4	3227.0	3202.1	3208.3
7.5°	3521.7	3463.6	3373.3	3281.0	3162.7	3056.9	2938.6	2865.9	2798.5	2761.1	2778.8
10°	3416.9	3340.1	3195.9	3039.2	2853.5	2687.5	2518.3	2380.3	2300.4	2224.7	2233.0
12.5°	3314.2	3212.5	2996.7	2759.1	2524.5	2279.7	2024.4	1833.5	1702.7	1608.3	1593.8
15°	3218.7	3088.0	2802.6	2489.3	2169.7	1843.9	1518.0	1245.2	1093.7	1000.3	994.0
17.5°	3133.6	2971.8	2601.3	2207.0	1806.5	1389.4	1014.8	810.4	723.2	682.8	678.6
20°	3051.7	2854.5	2395.9	1920.6	1410.1	975.4	700.4	606.0	578.0	561.4	563.4
22.5°	2972.8	2726.9	2180.1	1603.1	1057.3	684.8	542.7	506.4	503.2	505.3	506.4
25°	2906.4	2609.6	1958.0	1297.0	754.4	521.9	453.4	443.1	452.4	465.9	468.0
27.5°	2872.2	2514.2	1741.1	988.9	545.8	424.4	393.3	397.4	414.0	428.5	430.6
30°	2881.5	2442.6	1517.0	717.0	420.2	358.0	347.6	355.9	372.5	386.0	388.1
32.5°	2947.9	2406.3	1287.7	521.9	345.5	312.3	308.2	314.4	328.9	339.3	340.3
35°	3079.7	2414.6	1069.8	399.5	296.8	278.1	277.0	281.2	288.5	295.7	296.8
37.5°	3273.7	2482.0	855.0	332.0	268.7	255.3	251.1	251.1	256.3	259.4	261.5
40°	3482.3	2583.7	684.8	293.6	249.0	234.5	226.2	223.1	227.2	231.4	232.4
42.5°	3654.5	2685.4	556.2	266.7	233.5	213.8	203.4	201.3	206.5	213.8	215.8
45°	3786.3	2764.2	463.8	244.9	215.8	194.0	182.6	182.6	192.0	204.4	206.5
47.5°	3906.7	2827.5	395.3	225.2	199.2	176.4	165.0	167.1	182.6	199.2	202.3
50°	3988.6	2878.4	344.5	207.5	185.7	161.9	151.5	155.6	174.3	194.0	197.1
52.5°	4076.8	2940.6	311.3	192.0	173.3	150.5	141.1	144.2	165.0	186.8	190.9
55°	4320.7	3149.2	310.3	171.2	151.5	134.9	130.7	131.8	152.5	177.4	182.6
57.5°	4519.9	3332.9	331.0	144.2	126.6	118.3	116.2	117.3	135.9	163.9	170.2
60°	3739.6	2589.9	273.9	119.3	105.8	103.8	100.6	102.7	120.4	145.3	150.5
62.5°	2213.3	1480.7	130.7	91.3	90.3	88.2	85.1	89.2	105.8	127.6	130.7
65°	756.4	438.9	83.0	74.7	76.8	73.7	70.6	74.7	89.2	101.7	102.7
67.5°	145.3	116.2	66.4	62.3	63.3	57.1	56.0	60.2	68.5	70.6	69.5
70°	75.7	67.4	50.8	50.8	48.8	40.5	40.5	44.6	44.6	41.5	40.5
72.5°	39.4	37.4	33.2	37.4	31.1	24.9	24.9	27.0	24.9	20.8	20.8
75°	15.6	15.6	14.5	18.7	13.5	11.4	10.4	12.5	9.3	7.3	7.3
77.5°	4.2	4.2	4.2	5.2	3.1	3.1	2.1	2.1	1.0	0.0	0.0
80°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)