

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: P642236

Luminaire Tested: GWS-SA6C-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-740-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

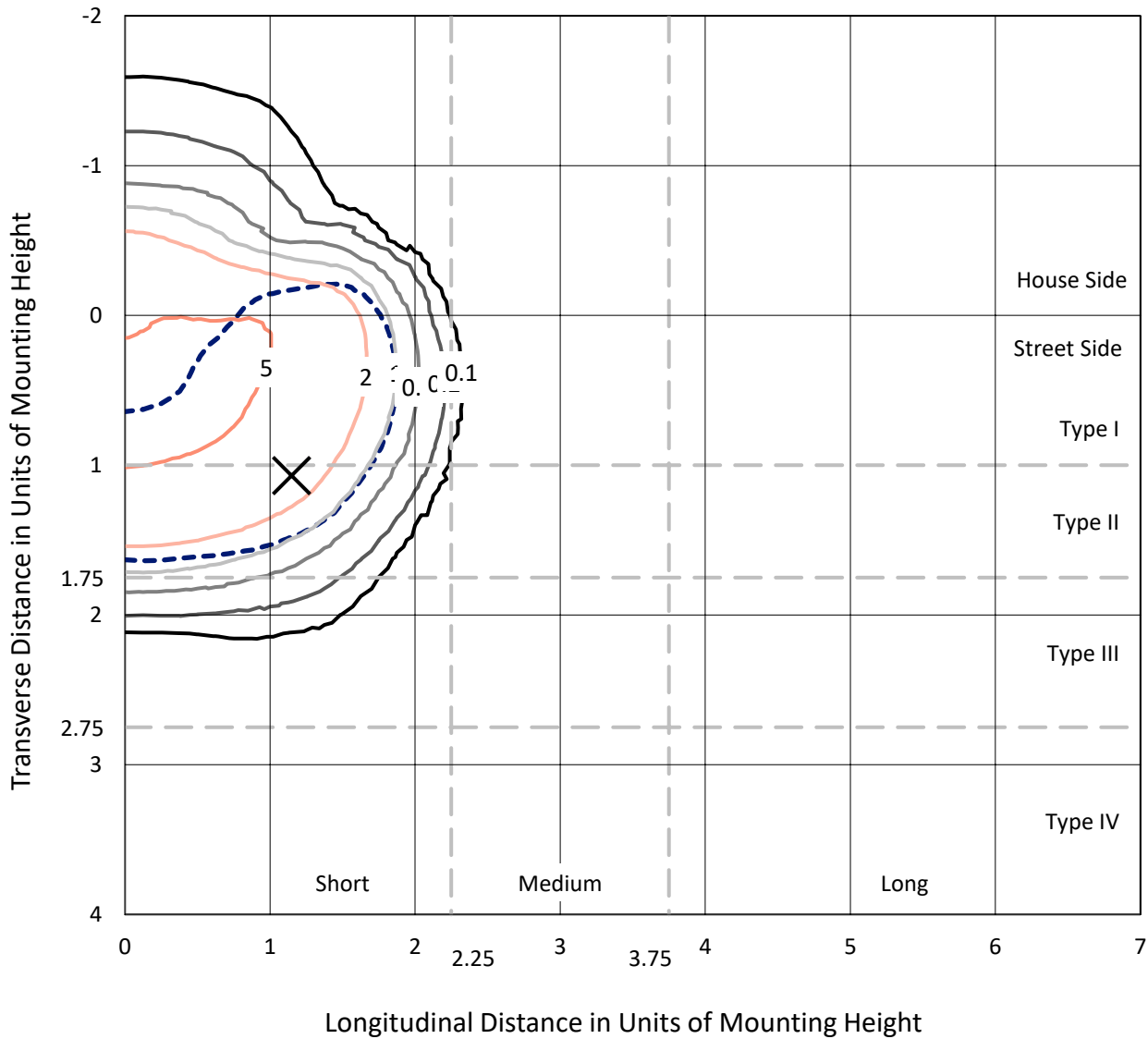
Lumens per Lamp: N/A  
Luminaire Lumens: 17534.1 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

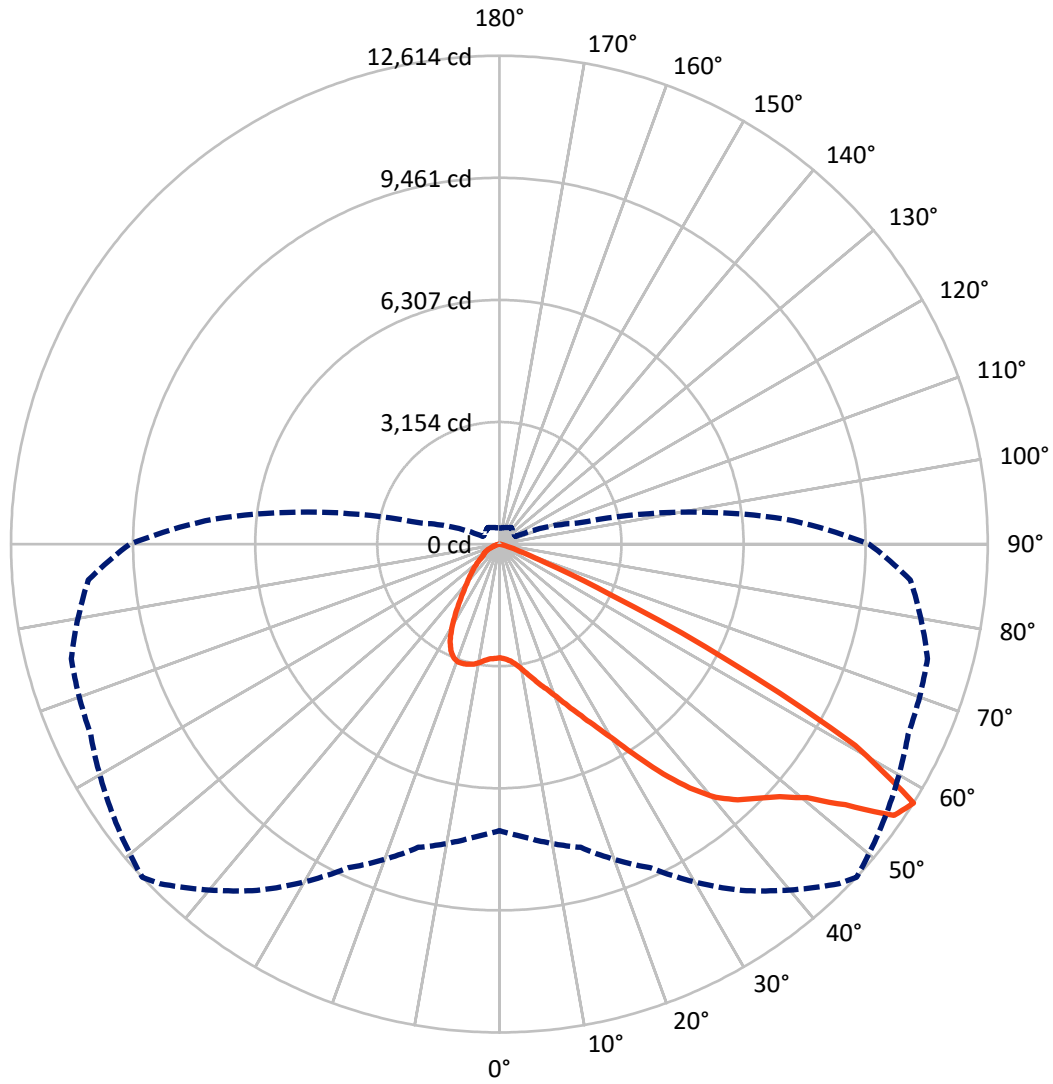
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3804.0	0.0	3804.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	13730.1	0.0	13730.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	17534.1	0.0	17534.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.0	1.7
10°-20°	985.3	5.6
20°-30°	1829.6	10.4
30°-40°	2928.8	16.7
40°-50°	4281.2	24.4
50°-60°	5283.8	30.1
60°-70°	1765.5	10.1
70°-80°	164.5	0.9
80°-90°	3.4	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°	17534.1	100.0
0°-180°	17534.1	100.0

**Coefficient of Utilization**



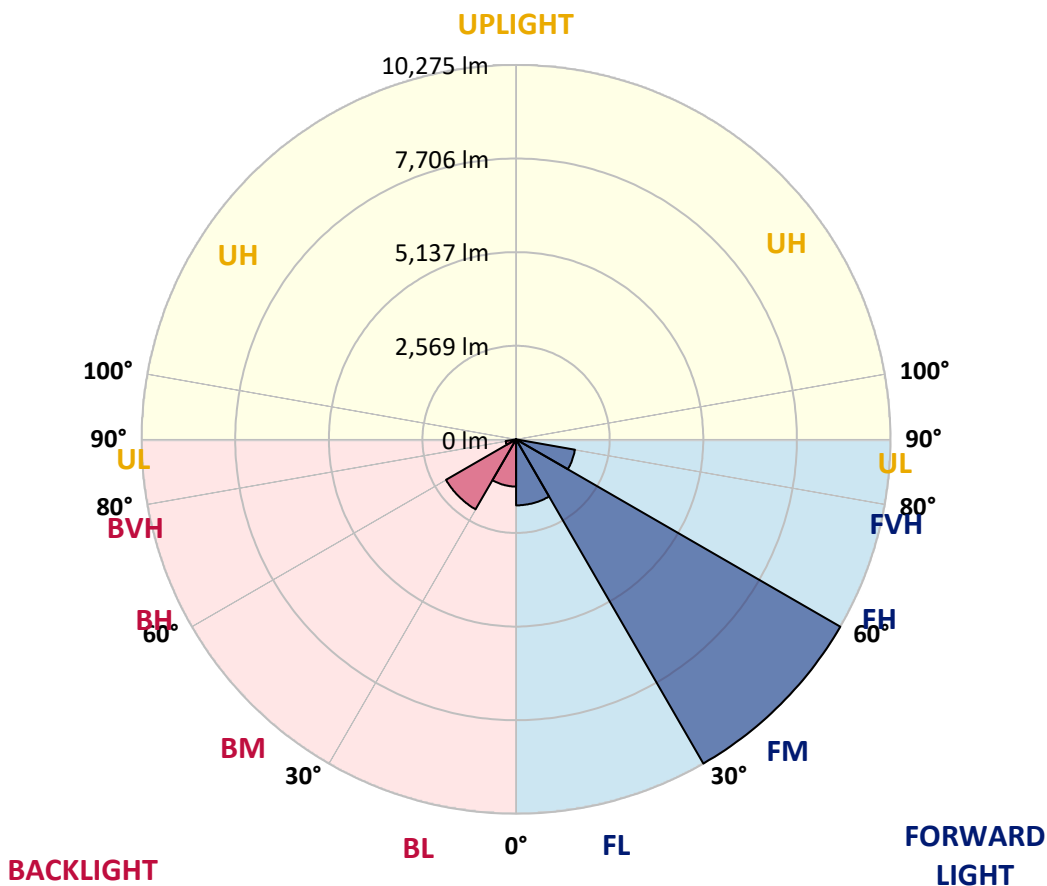
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.1	10.3			
FM (30°-60°)	10274.8	58.6			
FH (60°-80°)	1640.8	9.4			G1/1800
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1294.8	7.4	B3/2500		
BM (30°-60°)	2218.9	12.7	B2/2500		
BH (60°-80°)	289.2	1.6	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2
2.5°	2965.8	2963.7	2961.7	2973.9	2969.8	2967.8	2971.9	2971.9	2971.9	2959.7	2935.2
5°	3037.0	3037.0	3035.0	3047.2	3037.0	3030.9	3032.9	3032.9	3024.8	3002.4	2971.9
7.5°	3149.0	3144.9	3140.8	3153.0	3142.9	3140.8	3144.9	3132.7	3118.4	3081.8	3039.0
10°	3309.8	3309.8	3303.7	3315.9	3307.7	3303.7	3303.7	3295.5	3269.1	3212.1	3149.0
12.5°	3531.6	3521.5	3507.2	3497.0	3493.0	3490.9	3493.0	3480.7	3452.3	3379.0	3291.4
15°	3773.9	3765.7	3743.3	3727.0	3704.7	3700.6	3712.8	3702.6	3674.1	3574.4	3450.2
17.5°	4079.2	4089.4	4032.4	3997.8	3932.6	3928.6	3932.6	3948.9	3928.6	3800.3	3619.2
20°	4339.7	4347.9	4305.1	4280.7	4221.7	4195.2	4203.4	4229.8	4207.4	4056.8	3804.4
22.5°	4618.6	4628.8	4584.0	4533.1	4506.7	4506.7	4537.2	4573.8	4543.3	4345.8	4016.1
25°	4952.4	4960.6	4923.9	4856.8	4809.9	4869.0	4913.8	5011.5	4960.6	4691.9	4266.5
27.5°	5335.1	5337.1	5284.2	5215.0	5190.6	5300.5	5345.3	5495.9	5475.6	5080.7	4531.1
30°	5744.3	5746.3	5734.1	5687.3	5664.9	5809.4	5870.5	6088.3	6074.0	5563.1	4891.4
32.5°	6169.7	6169.7	6192.1	6188.0	6214.5	6450.6	6548.3	6796.6	6782.4	6153.4	5339.2
35°	6597.1	6599.2	6637.8	6735.6	6845.5	7158.9	7287.2	7588.4	7555.9	6859.7	5911.2
37.5°	7083.6	7063.3	7116.2	7262.8	7507.0	7869.3	7991.5	8278.5	8241.8	7582.3	6658.2
40°	7669.9	7633.2	7633.2	7804.2	8081.0	8498.3	8602.1	8744.6	8620.4	8166.5	7391.0
42.5°	8317.2	8282.6	8237.8	8388.4	8620.4	8946.1	9031.6	8992.9	8891.2	8718.2	8225.6
45°	8972.6	8919.7	8950.2	9041.8	9176.1	9330.8	9363.4	9184.3	9137.5	9186.3	8915.6
47.5°	9471.3	9434.7	9510.0	9638.2	9748.1	9770.5	9748.1	9499.8	9495.7	9668.7	9393.9
50°	9638.2	9642.3	9849.9	10130.8	10307.9	10326.2	10295.7	10010.7	9972.0	10022.9	9652.5
52.5°	9654.5	9670.8	9974.1	10509.4	10991.8	11211.7	11187.2	10879.9	10501.3	10446.3	10043.3
55°	9261.6	9357.3	9780.7	10562.3	11588.2	12290.5	12371.9	11783.7	11221.8	11175.0	10884.0
57.5°	7403.2	7598.6	8109.5	9223.0	10922.6	12402.5	12614.1	12190.8	11647.3	11447.8	10658.0
60°	4425.2	4667.5	5158.0	6523.9	8313.1	10193.9	10558.3	10617.3	10366.9	9790.9	8176.7
62.5°	1899.1	1878.8	2483.3	3529.6	4944.3	6479.1	6644.0	6900.4	7118.2	6515.7	4962.6
65°	651.4	708.4	985.2	1591.8	2475.2	3008.5	3155.1	3385.1	3694.5	3049.2	1817.7
67.5°	403.0	427.5	567.9	940.4	1335.3	1314.9	1249.8	1213.2	1180.6	808.1	498.7
70°	293.1	313.5	399.0	647.3	897.7	631.0	547.6	443.7	492.6	453.9	354.2
72.5°	197.4	213.7	274.8	392.9	460.0	307.4	285.0	323.6	390.8	372.5	289.0
75°	118.1	128.2	156.7	191.3	187.3	158.8	160.8	228.0	299.2	278.9	205.6
77.5°	81.4	85.5	103.8	124.2	91.6	48.9	44.8	63.1	101.8	101.8	69.2
80°	20.4	26.5	26.5	16.3	14.2	12.2	12.2	18.3	28.5	20.4	10.2
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1
85°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1	4.1
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	4.1
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°	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2	2935.2
2.5°	2949.5	2925.0	2941.3	2937.3	2949.5	2953.5	2935.2	2931.2	2933.2	2908.8	2900.6
5°	2978.0	2949.5	2957.6	2949.5	2963.7	2975.9	2969.8	2978.0	2988.2	2969.8	2961.7
7.5°	3039.0	3010.5	3008.5	2996.3	3016.6	3024.8	3022.8	3045.1	3065.5	3053.3	3041.1
10°	3144.9	3106.2	3102.1	3092.0	3098.1	3104.2	3081.8	3085.9	3104.2	3089.9	3083.8
12.5°	3275.2	3228.3	3218.2	3193.7	3193.7	3163.2	3114.4	3104.2	3118.4	3108.2	3098.1
15°	3415.6	3352.5	3336.2	3293.5	3252.8	3195.8	3144.9	3132.7	3142.9	3130.6	3122.5
17.5°	3572.3	3501.1	3448.2	3372.9	3283.3	3216.1	3159.1	3132.7	3116.4	3092.0	3089.9
20°	3727.0	3633.4	3543.8	3423.8	3305.7	3203.9	3110.3	3041.1	2982.0	2945.4	2931.2
22.5°	3906.2	3767.8	3623.2	3454.3	3285.3	3130.6	2965.8	2847.7	2745.9	2711.3	2695.0
25°	4097.5	3918.4	3702.6	3482.8	3216.1	2967.8	2743.9	2568.8	2434.5	2389.7	2371.4
27.5°	4309.2	4062.9	3784.0	3476.7	3073.6	2735.7	2438.6	2220.8	2088.4	2047.7	2062.0
30°	4577.9	4250.2	3885.8	3413.6	2859.9	2410.1	2062.0	1878.8	1779.0	1740.4	1742.4
32.5°	4936.1	4518.9	4034.4	3279.2	2585.1	2039.6	1734.3	1599.9	1532.8	1481.9	1477.8
35°	5449.1	4928.0	4172.8	3063.5	2251.3	1709.8	1488.0	1382.1	1288.5	1229.5	1239.6
37.5°	6063.8	5443.0	4248.1	2772.4	1876.8	1453.4	1302.7	1194.9	1089.0	1001.5	1011.7
40°	6792.5	6116.8	4242.0	2389.7	1534.8	1278.3	1148.0	1021.8	889.5	810.1	818.3
42.5°	7604.7	6753.9	4109.7	1984.6	1272.2	1135.8	999.4	840.7	712.4	663.6	665.6
45°	8309.0	7270.9	3877.7	1565.3	1070.7	997.4	844.7	681.9	624.9	590.3	588.3
47.5°	8830.1	7649.5	3545.9	1231.5	907.8	871.2	694.1	610.7	565.9	537.4	533.3
50°	9121.2	7781.8	3179.5	964.8	767.4	738.9	620.8	553.7	523.1	504.8	500.7
52.5°	9512.0	7940.6	2916.9	761.3	643.2	604.6	572.0	515.0	494.6	480.4	474.3
55°	10130.8	8247.9	2688.9	604.6	535.3	527.2	539.4	492.6	480.4	458.0	449.9
57.5°	9548.6	7409.3	2088.4	468.2	451.9	482.4	521.1	470.2	439.7	419.3	411.2
60°	6719.3	4926.0	1050.3	376.6	403.0	451.9	490.6	425.4	394.9	399.0	394.9
62.5°	3704.7	2465.0	472.2	315.5	350.1	399.0	419.3	368.4	348.1	382.7	388.8
65°	1211.1	838.6	272.8	244.3	276.8	325.7	362.3	350.1	346.0	386.7	399.0
67.5°	372.5	276.8	185.2	175.1	191.3	240.2	305.3	378.6	407.1	419.3	425.4
70°	278.9	217.8	158.8	148.6	156.7	183.2	258.5	315.5	297.2	299.2	295.2
72.5°	223.9	173.0	136.4	130.3	130.3	126.2	136.4	171.0	193.4	203.6	203.6
75°	156.7	122.1	103.8	95.7	75.3	61.1	55.0	55.0	48.9	46.8	44.8
77.5°	52.9	44.8	40.7	32.6	22.4	18.3	16.3	14.2	10.2	6.1	4.1
80°	8.1	6.1	4.1	4.1	4.1	2.0	2.0	2.0	0.0	0.0	0.0
82.5°	4.1	4.1	4.1	4.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
85°	4.1	4.1	4.1	4.1	4.1	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	4.1	4.1	2.0	2.0	2.0	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)