

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: P640171

Luminaire Tested: GWS-SA5D-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640171  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-735-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

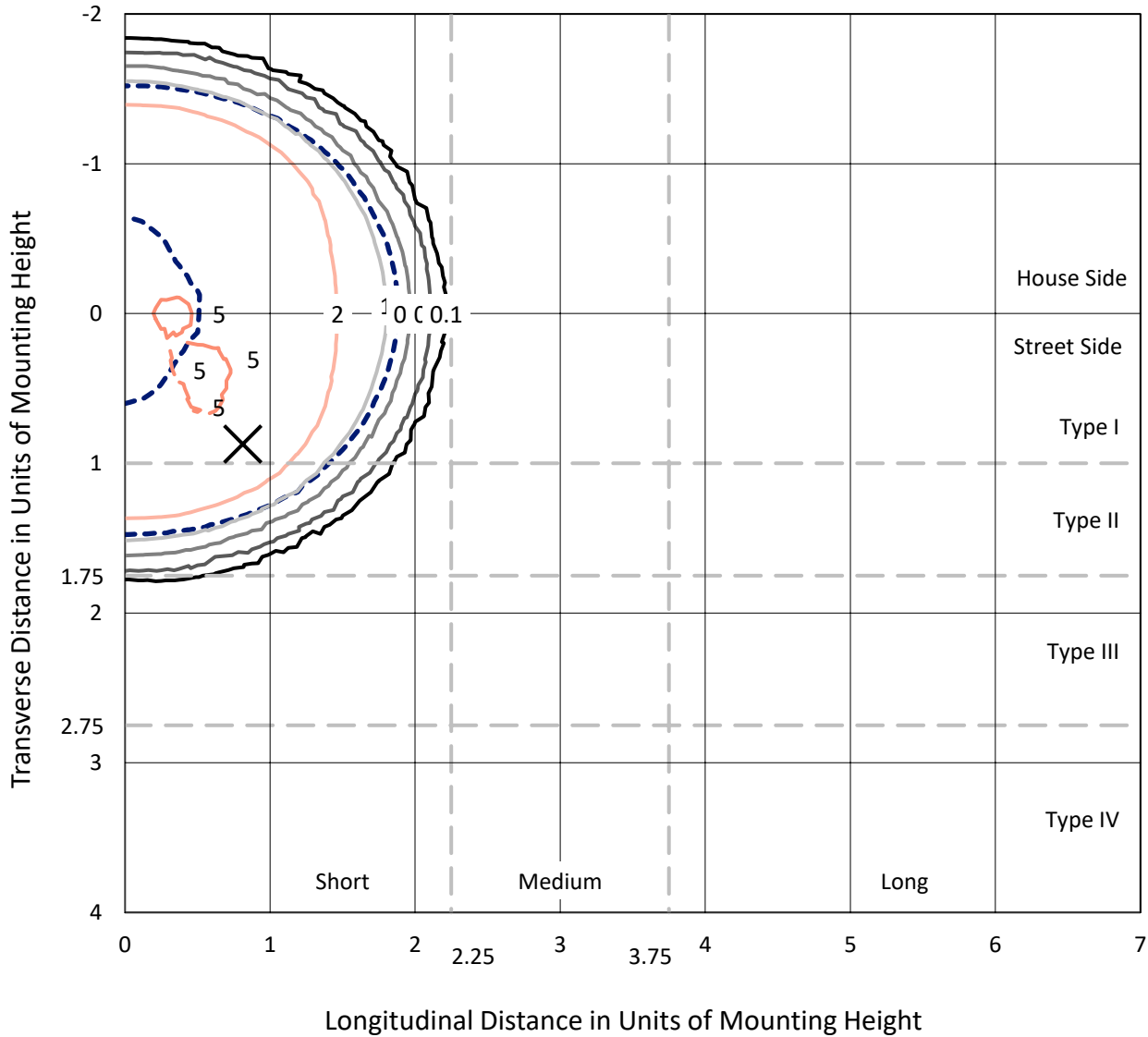
Lumens per Lamp: N/A  
Luminaire Lumens: 19203.4 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P640171  
 CATALOG NUMBER: GWS-SA5D-735-U-RW-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

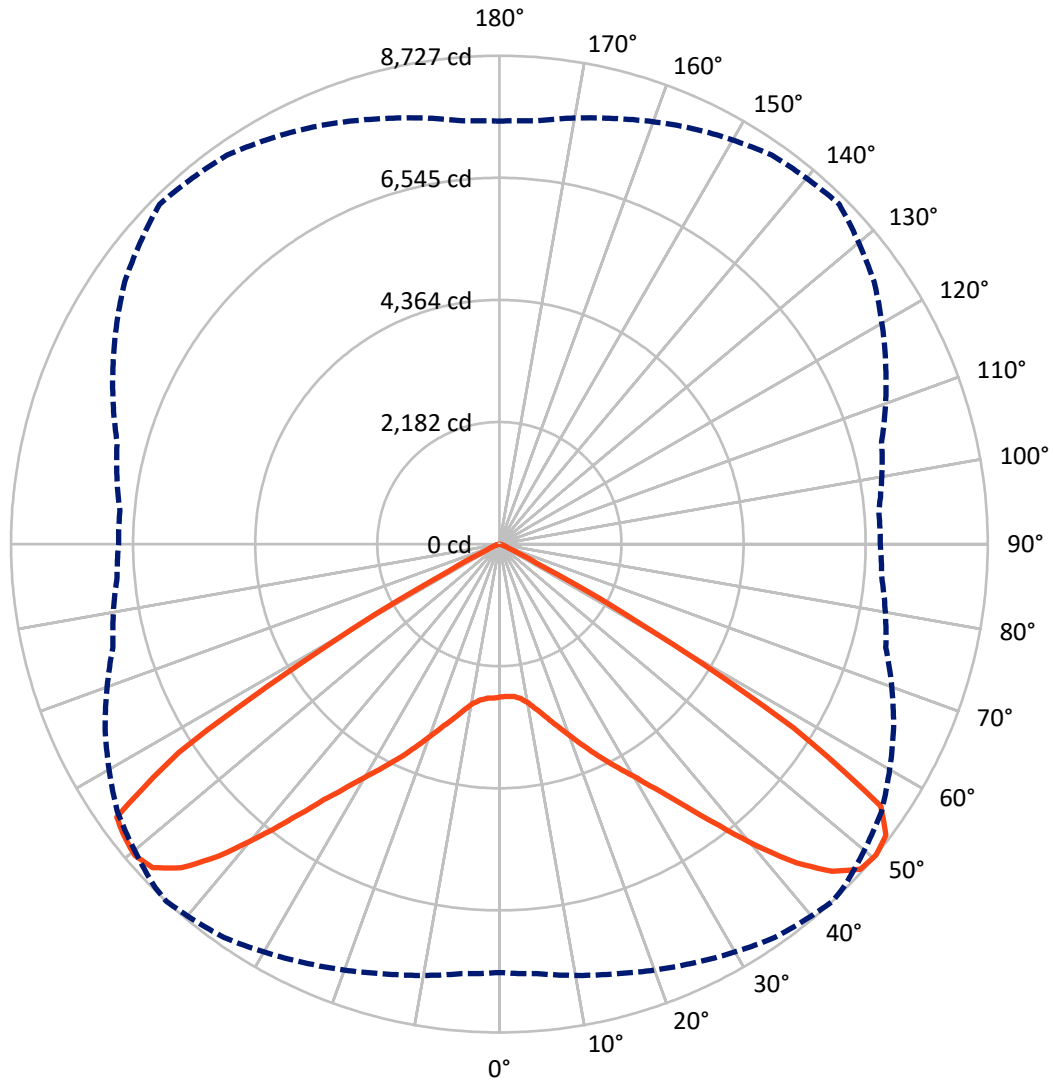
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P640171  
CATALOG NUMBER: GWS-SA5D-735-U-RW-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P640171  
 CATALOG NUMBER: GWS-SA5D-735-U-RW-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9601.5	0.0	9601.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9601.9	0.0	9601.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19203.4	0.0	19203.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.0	1.4
10°-20°	925.6	4.8
20°-30°	1872.7	9.8
30°-40°	3474.5	18.1
40°-50°	5767.5	30.0
50°-60°	5886.0	30.7
60°-70°	965.2	5.0
70°-80°	42.3	0.2
80°-90°	0.6	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°	19203.4	100.0
0°-180°	19203.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640171

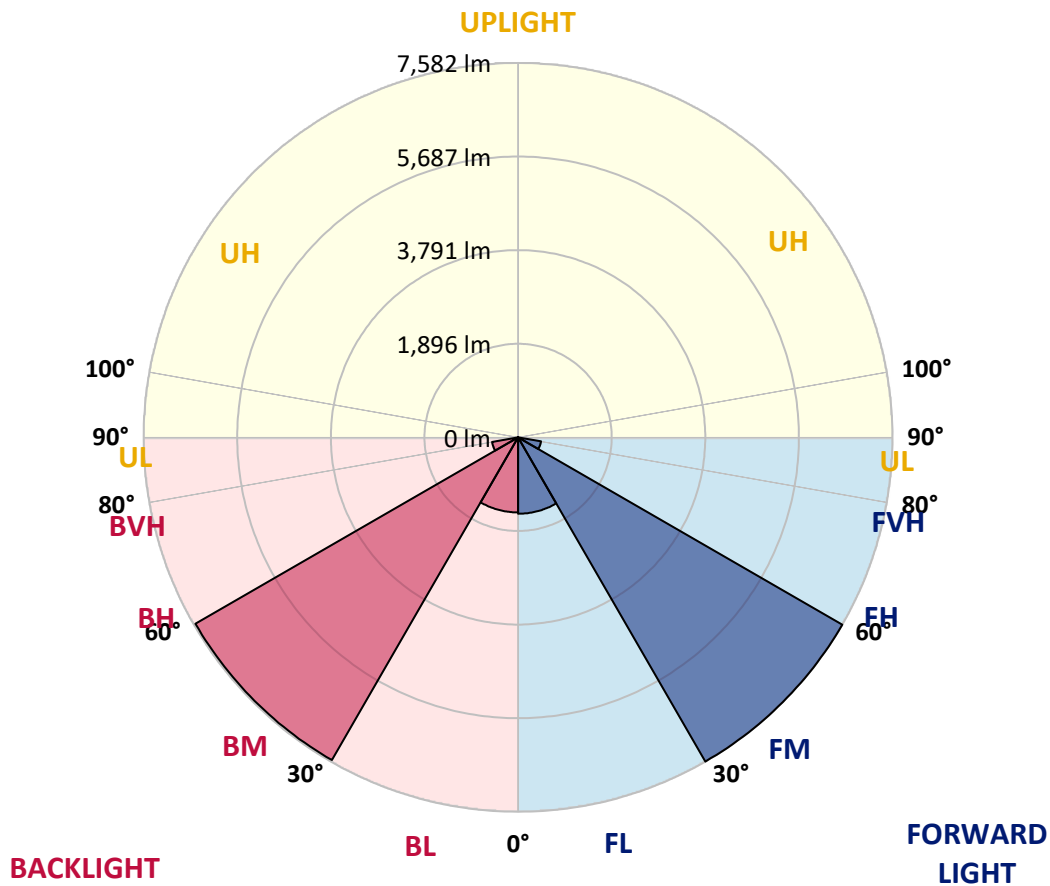
CATALOG NUMBER: GWS-SA5D-735-U-RW-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.1	8.1			
FM (30°-60°)	7582.4	39.5			
FH (60°-80°)	472.2	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1520.2	7.9	B3/2500		
BM (30°-60°)	7545.6	39.3	B4/8500		
BH (60°-80°)	535.3	2.8	B2/1000		G0/660
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





REPORT NUMBER: P640171

CATALOG NUMBER: GWS-SA5D-735-U-RW-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4
2.5°	2680.4	2686.8	2695.3	2703.8	2714.4	2725.0	2731.4	2750.5	2746.2	2763.2	2763.2
5°	2650.7	2657.0	2667.7	2686.8	2710.1	2733.5	2750.5	2788.7	2810.0	2843.9	2856.7
7.5°	2665.5	2674.0	2686.8	2716.5	2752.6	2788.7	2807.8	2869.4	2911.9	2975.6	3011.7
10°	2714.4	2722.9	2744.1	2795.1	2841.8	2892.8	2916.2	2994.7	3062.7	3149.8	3200.8
12.5°	2769.6	2780.2	2822.7	2899.2	2979.9	3047.8	3079.7	3166.8	3236.9	3334.6	3415.3
15°	2827.0	2843.9	2909.8	3022.4	3137.1	3228.4	3262.4	3355.8	3425.9	3530.0	3621.3
17.5°	2960.8	2979.9	3054.2	3175.3	3332.5	3438.7	3468.4	3566.1	3619.2	3689.3	3784.9
20°	3128.6	3164.7	3256.0	3402.5	3574.6	3676.5	3697.8	3793.3	3789.1	3818.8	3901.7
22.5°	3336.7	3362.2	3462.0	3636.2	3829.5	3942.0	3990.9	4031.2	3978.1	3952.6	4005.7
25°	3553.3	3583.1	3691.4	3882.6	4099.2	4228.8	4269.1	4301.0	4216.0	4120.4	4126.8
27.5°	3833.7	3854.9	3961.1	4165.0	4381.7	4528.2	4564.3	4619.6	4507.0	4354.1	4311.6
30°	4167.2	4188.4	4301.0	4515.5	4730.0	4855.3	4910.5	4978.5	4855.3	4664.2	4615.3
32.5°	4558.0	4579.2	4723.6	4944.5	5120.8	5256.7	5309.8	5382.1	5284.3	5069.8	5014.6
35°	5025.2	5038.0	5207.9	5447.9	5634.8	5766.5	5802.6	5887.5	5779.2	5564.7	5535.0
37.5°	5566.8	5581.7	5766.5	6044.7	6235.9	6382.4	6439.8	6463.1	6331.4	6091.4	6068.1
40°	6161.5	6210.4	6390.9	6690.4	6904.9	7089.7	7140.7	7062.1	6877.3	6550.2	6507.7
42.5°	6781.7	6824.2	7026.0	7350.9	7599.4	7788.5	7790.6	7620.7	7306.3	6853.9	6790.2
45°	7297.8	7314.8	7576.1	7903.2	8209.0	8342.8	8355.6	8047.6	7574.0	7030.2	6894.3
47.5°	7652.5	7680.1	7907.4	8221.8	8559.5	8680.5	8655.0	8270.6	7701.4	7144.9	6919.8
50°	7656.8	7703.5	7949.9	8253.6	8580.7	8727.2	8691.1	8334.3	7773.6	7149.2	6858.2
52.5°	6979.2	7055.7	7457.1	7896.8	8398.0	8648.7	8657.2	8417.2	7746.0	7081.2	6803.0
55°	5265.2	5348.1	5853.6	6603.3	7571.8	8270.6	8391.7	8319.5	7714.1	7110.9	6900.7
57.5°	2786.6	2722.9	3003.2	3746.6	4963.6	6199.8	6554.5	7132.2	7359.4	7147.0	7081.2
60°	607.4	647.8	862.3	1161.8	1937.0	2916.2	3262.4	4252.1	5428.8	5951.3	6329.3
62.5°	261.2	257.0	267.6	303.7	443.9	739.1	902.7	1474.0	2325.7	3194.4	3782.7
65°	214.5	216.6	225.1	225.1	210.3	212.4	223.0	337.7	543.7	762.5	1023.7
67.5°	161.4	163.5	178.4	182.7	172.0	152.9	150.8	127.4	133.8	167.8	174.2
70°	101.9	101.9	110.4	114.7	114.7	106.2	104.1	91.3	89.2	101.9	114.7
72.5°	55.2	55.2	59.5	61.6	59.5	57.3	57.3	55.2	53.1	61.6	78.6
75°	23.4	23.4	25.5	25.5	23.4	23.4	23.4	23.4	23.4	27.6	42.5
77.5°	4.2	6.4	8.5	6.4	4.2	4.2	4.2	6.4	6.4	8.5	12.7
80°	2.1	2.1	4.2	2.1	0.0	0.0	0.0	0.0	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1
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



REPORT NUMBER: P640171

CATALOG NUMBER: GWS-SA5D-735-U-RW-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4	2731.4
2.5°	2778.1	2754.7	2763.2	2767.5	2761.1	2756.9	2733.5	2727.1	2716.5	2699.5	2695.3
5°	2871.6	2852.4	2850.3	2837.6	2807.8	2771.7	2727.1	2708.0	2686.8	2665.5	2661.3
7.5°	3028.7	3005.4	2990.5	2948.0	2880.1	2822.7	2748.4	2708.0	2680.4	2652.8	2646.4
10°	3230.5	3202.9	3160.4	3081.8	2990.5	2907.7	2820.6	2767.5	2725.0	2686.8	2684.7
12.5°	3445.0	3415.3	3338.8	3239.0	3128.6	3052.1	2941.6	2867.3	2803.6	2746.2	2739.9
15°	3670.2	3634.1	3530.0	3411.0	3309.1	3230.5	3109.4	2990.5	2892.8	2810.0	2801.5
17.5°	3842.2	3797.6	3674.4	3585.2	3502.4	3421.7	3285.7	3128.6	2999.0	2899.2	2875.8
20°	3950.5	3908.0	3791.2	3742.4	3704.1	3646.8	3485.4	3321.8	3177.4	3054.2	3033.0
22.5°	4054.6	4003.6	3901.7	3901.7	3931.4	3908.0	3733.9	3547.0	3377.1	3234.8	3202.9
25°	4171.4	4131.1	4058.8	4118.3	4192.6	4190.5	4012.1	3778.5	3583.1	3423.8	3391.9
27.5°	4341.3	4301.0	4275.5	4388.0	4481.5	4475.1	4279.7	4027.0	3821.0	3663.8	3634.1
30°	4640.8	4602.6	4575.0	4710.9	4829.8	4785.2	4570.7	4326.5	4118.3	3939.9	3918.7
32.5°	5040.1	4999.7	4963.6	5099.6	5205.8	5148.4	4944.5	4715.1	4475.1	4301.0	4258.5
35°	5564.7	5479.8	5443.6	5605.1	5649.7	5585.9	5390.5	5188.8	4933.9	4734.3	4706.6
37.5°	6106.3	6006.5	5981.0	6121.2	6193.4	6170.0	5940.6	5730.4	5454.3	5233.4	5201.5
40°	6569.3	6478.0	6433.4	6652.2	6815.7	6830.6	6624.6	6367.6	6042.6	5813.2	5755.9
42.5°	6841.2	6762.6	6752.0	7091.8	7359.4	7550.6	7304.2	7038.7	6696.8	6437.6	6390.9
45°	6902.8	6851.8	6941.0	7387.0	7803.3	8151.7	7941.4	7661.0	7291.5	7017.5	6972.9
47.5°	6896.4	6879.4	7038.7	7540.0	8066.7	8495.7	8391.7	8075.2	7718.4	7431.6	7389.2
50°	6805.1	6807.2	7072.7	7616.4	8172.9	8589.2	8485.1	8192.0	7873.4	7590.9	7557.0
52.5°	6769.0	6756.2	7009.0	7593.1	8281.2	8546.7	8313.1	7983.9	7629.2	7280.8	7229.9
55°	6896.4	6864.6	7017.5	7574.0	8294.0	8523.3	7907.4	7193.8	6467.4	6055.3	6021.4
57.5°	7087.6	7053.6	7125.8	7433.8	7629.2	7087.6	5819.6	4668.4	3920.8	3604.3	3466.3
60°	6329.3	6306.0	6250.7	5879.1	5042.2	3804.0	2591.2	1652.4	1187.3	960.0	960.0
62.5°	3927.2	3895.3	3595.8	2671.9	1941.3	1123.6	618.1	386.6	293.1	274.0	271.9
65°	1102.3	1096.0	906.9	641.4	407.8	252.7	223.0	227.3	223.0	216.6	214.5
67.5°	165.7	182.7	182.7	148.7	142.3	159.3	186.9	199.6	189.0	178.4	174.2
70°	106.2	114.7	110.4	95.6	101.9	118.9	133.8	135.9	129.6	118.9	116.8
72.5°	74.3	82.8	68.0	61.6	63.7	70.1	76.5	76.5	74.3	70.1	65.8
75°	44.6	44.6	31.9	29.7	29.7	31.9	31.9	36.1	36.1	34.0	31.9
77.5°	14.9	17.0	10.6	8.5	8.5	8.5	10.6	12.7	12.7	10.6	8.5
80°	2.1	4.2	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	2.1
82.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
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)