

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: P640336

Luminaire Tested: GWS-SA5D-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640336
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19643.4 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

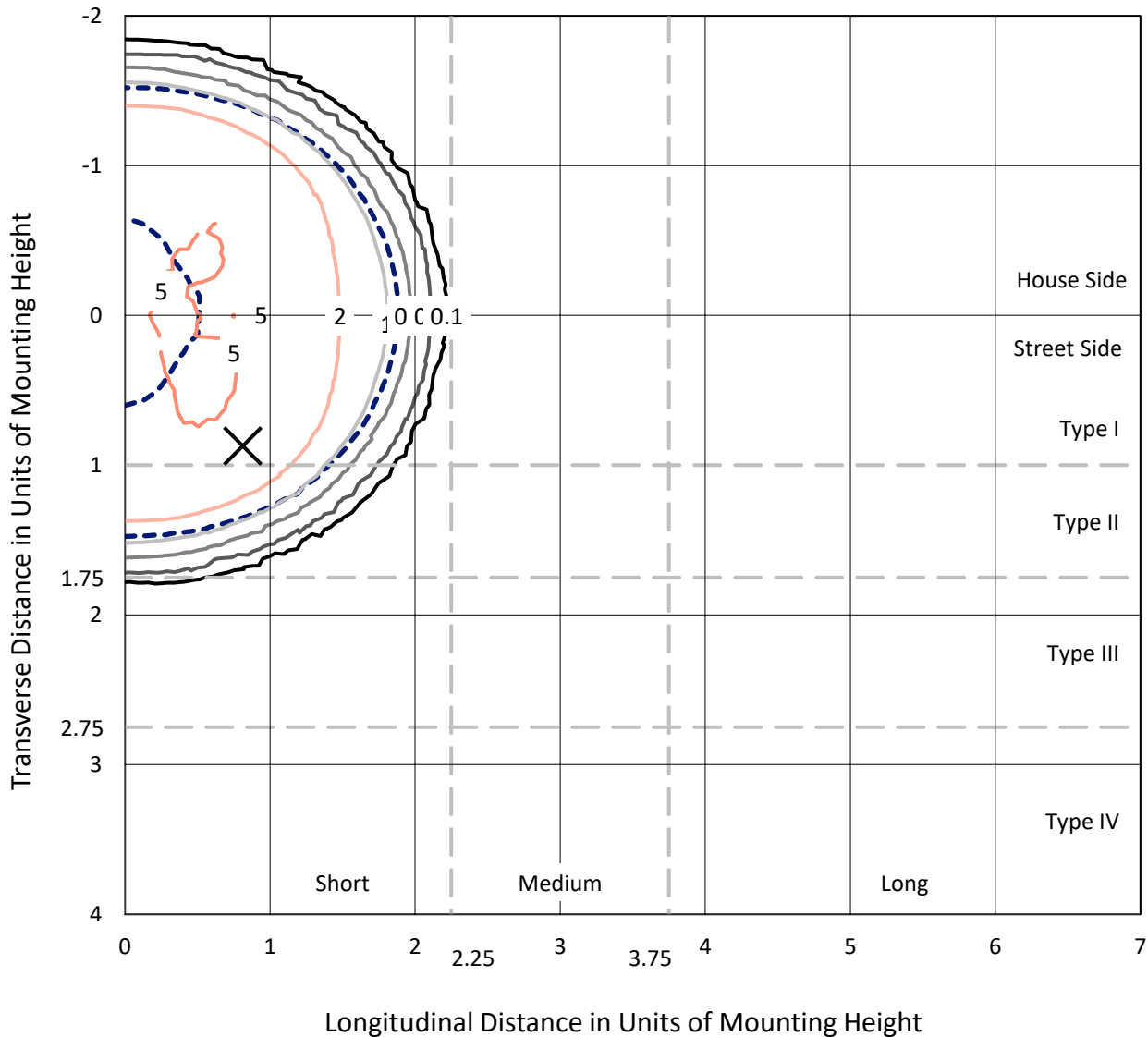
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

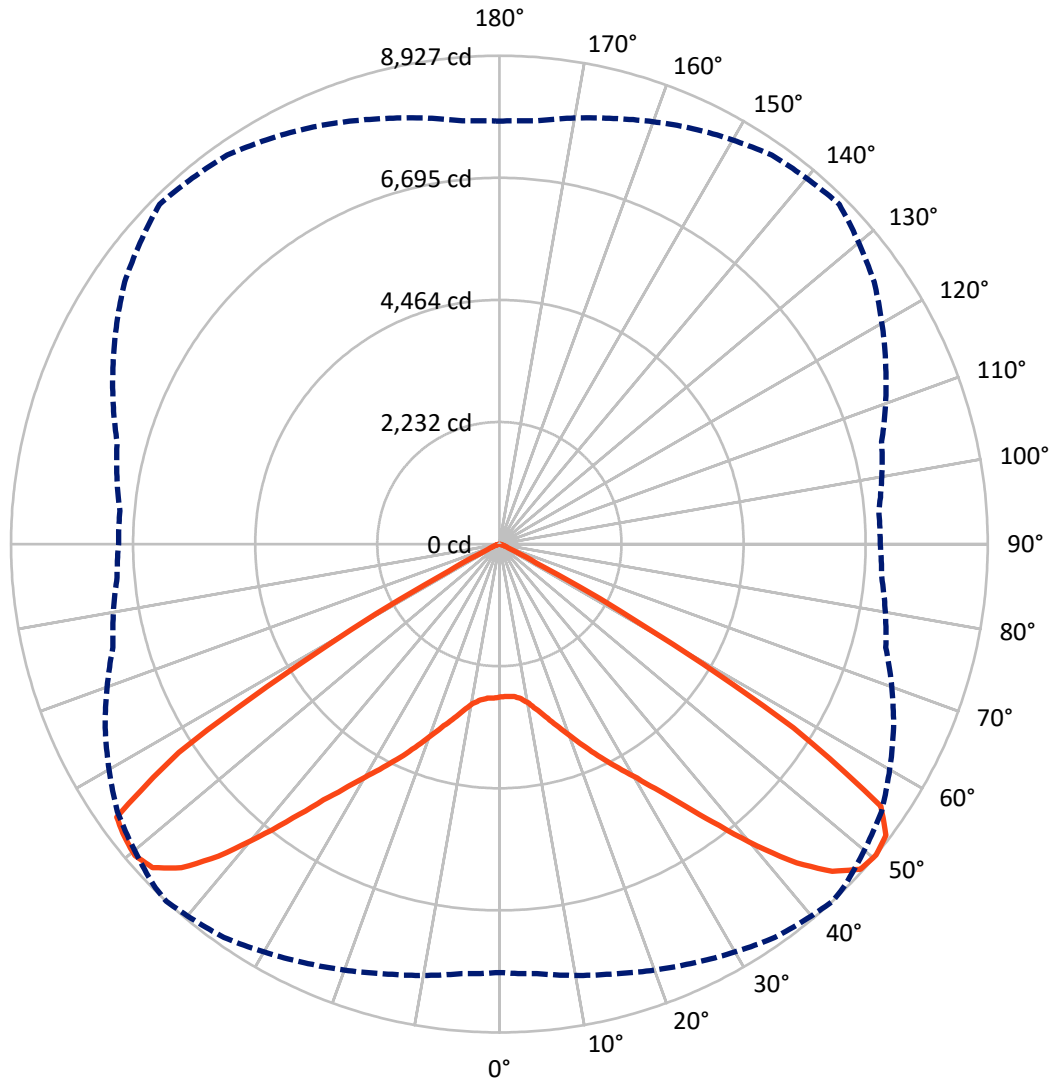
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9821.5	0.0	9821.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9821.9	0.0	9821.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	19643.4	0.0	19643.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	1.4
10°-20°	946.8	4.8
20°-30°	1915.6	9.8
30°-40°	3554.1	18.1
40°-50°	5899.7	30.0
50°-60°	6020.8	30.7
60°-70°	987.3	5.0
70°-80°	43.2	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°	19643.4	100.0
0°-180°	19643.4	100.0

Coefficient of Utilization



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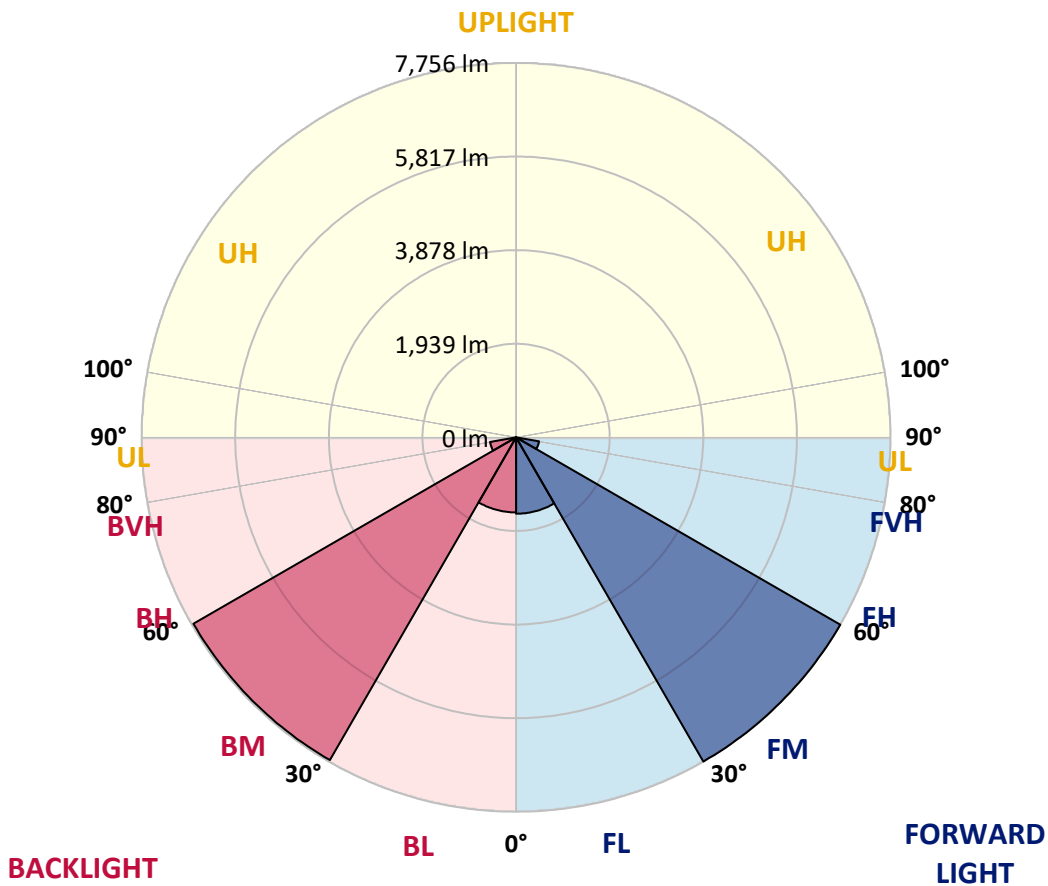
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.6	8.1			
FM (30°-60°)	7756.2	39.5			
FH (60°-80°)	483.0	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1555.0	7.9	B3/2500		
BM (30°-60°)	7718.5	39.3	B4/8500		
BH (60°-80°)	547.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2741.8	2748.3	2757.0	2765.7	2776.6	2787.4	2794.0	2813.5	2809.2	2826.6	2826.6
5°	2711.4	2717.9	2728.8	2748.3	2772.2	2796.1	2813.5	2852.6	2874.3	2909.1	2922.1
7.5°	2726.6	2735.3	2748.3	2778.8	2815.7	2852.6	2872.2	2935.2	2978.6	3043.8	3080.7
10°	2776.6	2785.3	2807.0	2859.1	2906.9	2959.1	2983.0	3063.4	3132.9	3222.0	3274.1
12.5°	2833.1	2843.9	2887.4	2965.6	3048.2	3117.7	3150.3	3239.3	3311.0	3411.0	3493.5
15°	2891.7	2909.1	2976.5	3091.6	3208.9	3302.4	3337.1	3432.7	3504.4	3610.9	3704.3
17.5°	3028.6	3048.2	3124.2	3248.0	3408.8	3517.4	3547.9	3647.8	3702.1	3773.8	3871.6
20°	3200.2	3237.2	3330.6	3480.5	3656.5	3760.8	3782.5	3880.3	3875.9	3906.3	3991.1
22.5°	3413.2	3439.2	3541.3	3719.5	3917.2	4032.3	4082.3	4123.6	4069.3	4043.2	4097.5
25°	3634.8	3665.2	3776.0	3971.5	4193.1	4325.6	4366.9	4399.5	4312.6	4214.8	4221.4
27.5°	3921.5	3943.3	4051.9	4260.5	4482.1	4632.0	4668.9	4725.4	4610.3	4453.8	4410.4
30°	4262.6	4284.4	4399.5	4618.9	4838.4	4966.6	5023.1	5092.6	4966.6	4771.0	4721.1
32.5°	4662.4	4684.1	4831.9	5057.8	5238.1	5377.2	5431.5	5505.4	5405.4	5186.0	5129.5
35°	5140.4	5153.4	5327.2	5572.7	5763.9	5898.6	5935.5	6022.4	5911.6	5692.2	5661.8
37.5°	5694.4	5709.6	5898.6	6183.2	6378.8	6528.7	6587.3	6611.2	6476.5	6231.0	6207.1
40°	6302.7	6352.7	6537.4	6843.7	7063.1	7252.1	7304.3	7223.9	7034.9	6700.3	6656.8
42.5°	6937.1	6980.6	7187.0	7519.4	7773.6	7966.9	7969.1	7795.3	7473.7	7011.0	6945.8
45°	7465.1	7482.4	7749.7	8084.2	8397.1	8534.0	8547.0	8232.0	7747.5	7191.3	7052.3
47.5°	7827.9	7856.1	8088.6	8410.1	8755.6	8879.4	8853.3	8460.1	7877.8	7308.6	7078.3
50°	7832.2	7880.0	8132.0	8442.7	8777.3	8927.2	8890.3	8525.3	7951.7	7313.0	7015.3
52.5°	7139.2	7217.4	7628.0	8077.7	8590.5	8846.8	8855.5	8610.0	7923.5	7243.4	6958.8
55°	5385.9	5470.6	5987.7	6754.6	7745.3	8460.1	8583.9	8510.1	7890.9	7273.9	7058.8
57.5°	2850.5	2785.3	3072.1	3832.5	5077.4	6341.8	6704.6	7295.6	7528.1	7310.8	7243.4
60°	621.4	662.6	882.1	1188.4	1981.4	2983.0	3337.1	4349.5	5553.2	6087.6	6474.3
62.5°	267.2	262.9	273.7	310.7	454.1	756.1	923.4	1507.8	2379.0	3267.6	3869.4
65°	219.4	221.6	230.3	230.3	215.1	217.3	228.1	345.4	556.2	780.0	1047.2
67.5°	165.1	167.3	182.5	186.8	176.0	156.4	154.3	130.4	136.9	171.6	178.2
70°	104.3	104.3	113.0	117.3	117.3	108.6	106.5	93.4	91.2	104.3	117.3
72.5°	56.5	56.5	60.8	63.0	60.8	58.7	58.7	56.5	54.3	63.0	80.4
75°	23.9	23.9	26.1	26.1	23.9	23.9	23.9	23.9	23.9	28.2	43.5
77.5°	4.3	6.5	8.7	6.5	4.3	4.3	4.3	6.5	6.5	8.7	13.0
80°	2.2	2.2	4.3	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2
82.5°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0	2794.0
2.5°	2841.8	2817.9	2826.6	2830.9	2824.4	2820.0	2796.1	2789.6	2778.8	2761.4	2757.0
5°	2937.4	2917.8	2915.6	2902.6	2872.2	2835.2	2789.6	2770.1	2748.3	2726.6	2722.3
7.5°	3098.1	3074.2	3059.0	3015.6	2946.0	2887.4	2811.3	2770.1	2741.8	2713.6	2707.1
10°	3304.5	3276.3	3232.8	3152.4	3059.0	2974.3	2885.2	2830.9	2787.4	2748.3	2746.2
12.5°	3524.0	3493.5	3415.3	3313.2	3200.2	3122.0	3009.1	2933.0	2867.8	2809.2	2802.7
15°	3754.3	3717.3	3610.9	3489.2	3384.9	3304.5	3180.7	3059.0	2959.1	2874.3	2865.7
17.5°	3930.2	3884.6	3758.6	3667.3	3582.6	3500.1	3361.0	3200.2	3067.7	2965.6	2941.7
20°	4041.0	3997.6	3878.1	3828.1	3789.0	3730.4	3565.2	3397.9	3250.2	3124.2	3102.5
22.5°	4147.5	4095.4	3991.1	3991.1	4021.5	3997.6	3819.4	3628.2	3454.4	3308.9	3276.3
25°	4267.0	4225.7	4151.8	4212.7	4288.7	4286.5	4104.0	3865.1	3665.2	3502.2	3469.6
27.5°	4440.8	4399.5	4373.4	4488.6	4584.2	4577.7	4377.8	4119.2	3908.5	3747.7	3717.3
30°	4747.1	4708.0	4679.8	4818.8	4940.5	4894.9	4675.4	4425.6	4212.7	4030.2	4008.4
32.5°	5155.6	5114.3	5077.4	5216.4	5325.0	5266.4	5057.8	4823.2	4577.7	4399.5	4356.1
35°	5692.2	5605.3	5568.4	5733.5	5779.1	5713.9	5514.1	5307.7	5046.9	4842.7	4814.5
37.5°	6246.2	6144.1	6118.0	6261.4	6335.3	6311.4	6076.8	5861.7	5579.2	5353.3	5320.7
40°	6719.9	6626.4	6580.8	6804.6	6971.9	6987.1	6776.3	6513.5	6181.0	5946.4	5887.7
42.5°	6997.9	6917.6	6906.7	7254.3	7528.1	7723.6	7471.6	7200.0	6850.2	6585.1	6537.4
45°	7060.9	7008.8	7100.1	7556.3	7982.1	8338.4	8123.3	7836.6	7458.5	7178.3	7132.6
47.5°	7054.4	7037.0	7200.0	7712.7	8251.5	8690.4	8583.9	8260.2	7895.2	7601.9	7558.5
50°	6961.0	6963.2	7234.8	7790.9	8360.2	8786.0	8679.5	8379.7	8053.8	7764.9	7730.1
52.5°	6924.1	6911.0	7169.6	7767.0	8471.0	8742.5	8503.6	8166.8	7804.0	7447.7	7395.5
55°	7054.4	7021.8	7178.3	7747.5	8484.0	8718.6	8088.6	7358.6	6615.6	6194.1	6159.3
57.5°	7250.0	7215.2	7289.1	7604.1	7804.0	7250.0	5952.9	4775.4	4010.6	3686.9	3545.7
60°	6474.3	6450.4	6394.0	6013.8	5157.8	3891.1	2650.6	1690.3	1214.5	982.0	982.0
62.5°	4017.1	3984.5	3678.2	2733.1	1985.8	1149.3	632.2	395.4	299.8	280.3	278.1
65°	1127.6	1121.1	927.7	656.1	417.1	258.5	228.1	232.5	228.1	221.6	219.4
67.5°	169.5	186.8	186.8	152.1	145.6	162.9	191.2	204.2	193.4	182.5	178.2
70°	108.6	117.3	113.0	97.8	104.3	121.7	136.9	139.0	132.5	121.7	119.5
72.5°	76.0	84.7	69.5	63.0	65.2	71.7	78.2	78.2	76.0	71.7	67.4
75°	45.6	45.6	32.6	30.4	30.4	32.6	32.6	36.9	36.9	34.8	32.6
77.5°	15.2	17.4	10.9	8.7	8.7	8.7	10.9	13.0	13.0	10.9	8.7
80°	2.2	4.3	2.2	2.2	2.2	2.2	2.2	2.2	4.3	4.3	2.2
82.5°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2
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)