

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: P637751

Luminaire Tested: GWS-SA4D-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637751
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-SA4D-740-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 15871.9 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

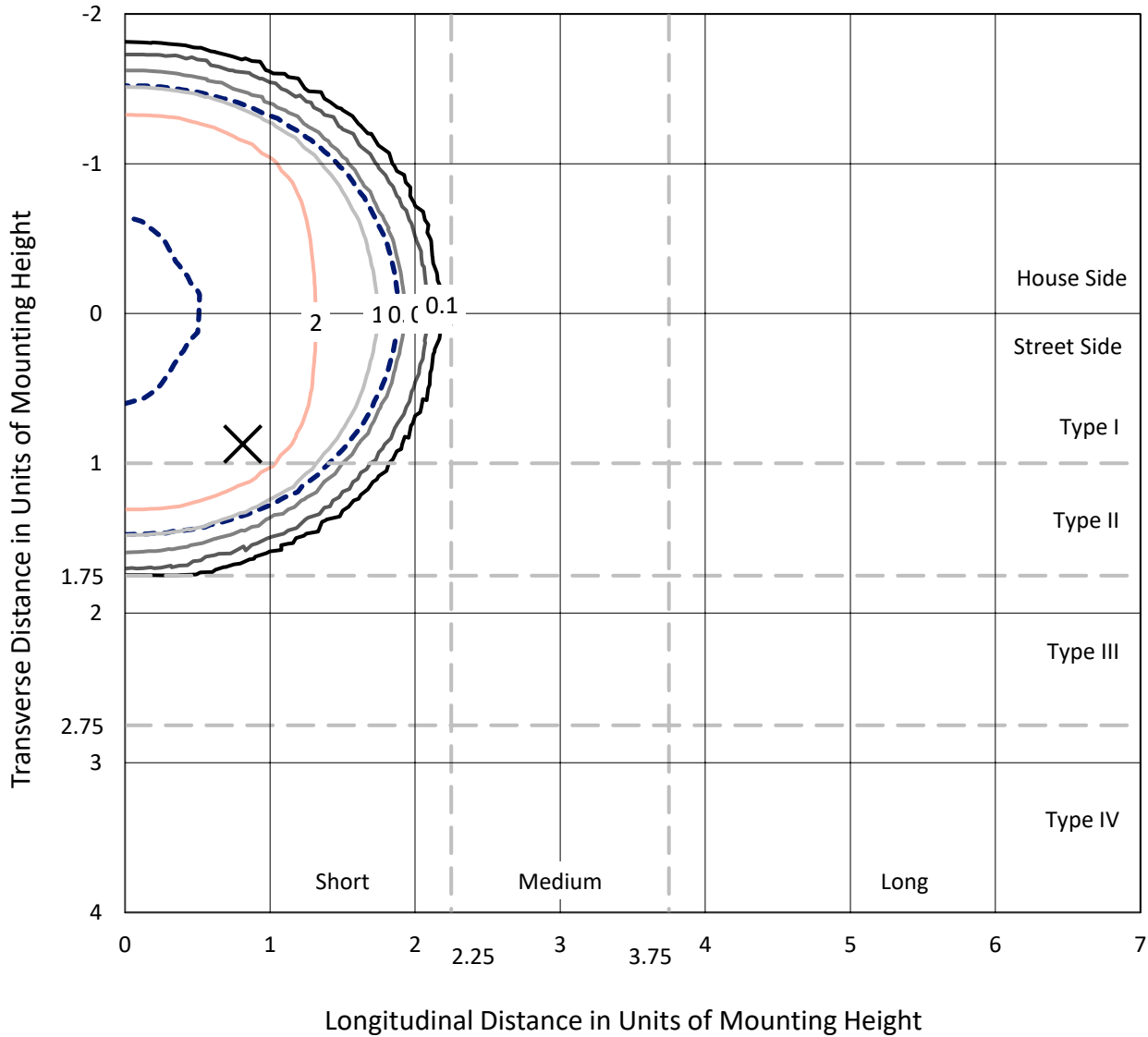
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

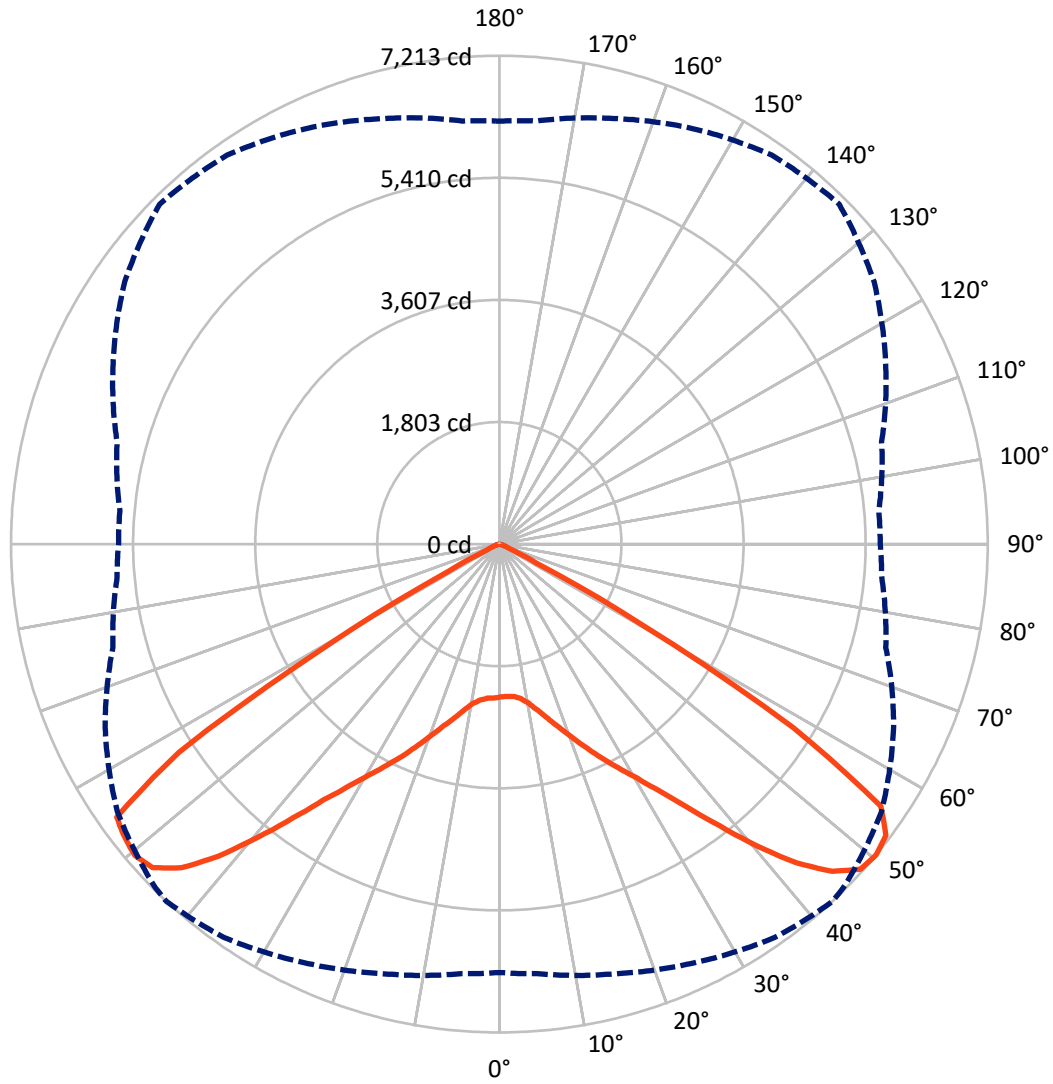
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	7935.8	0.0	7935.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7936.2	0.0	7936.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15871.9	0.0	15871.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.4
10°-20°	765.0	4.8
20°-30°	1547.8	9.8
30°-40°	2871.7	18.1
40°-50°	4766.9	30.0
50°-60°	4864.9	30.7
60°-70°	797.8	5.0
70°-80°	34.9	0.2
80°-90°	0.5	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°	15871.9	100.0
0°-180°	15871.9	100.0

Coefficient of Utilization



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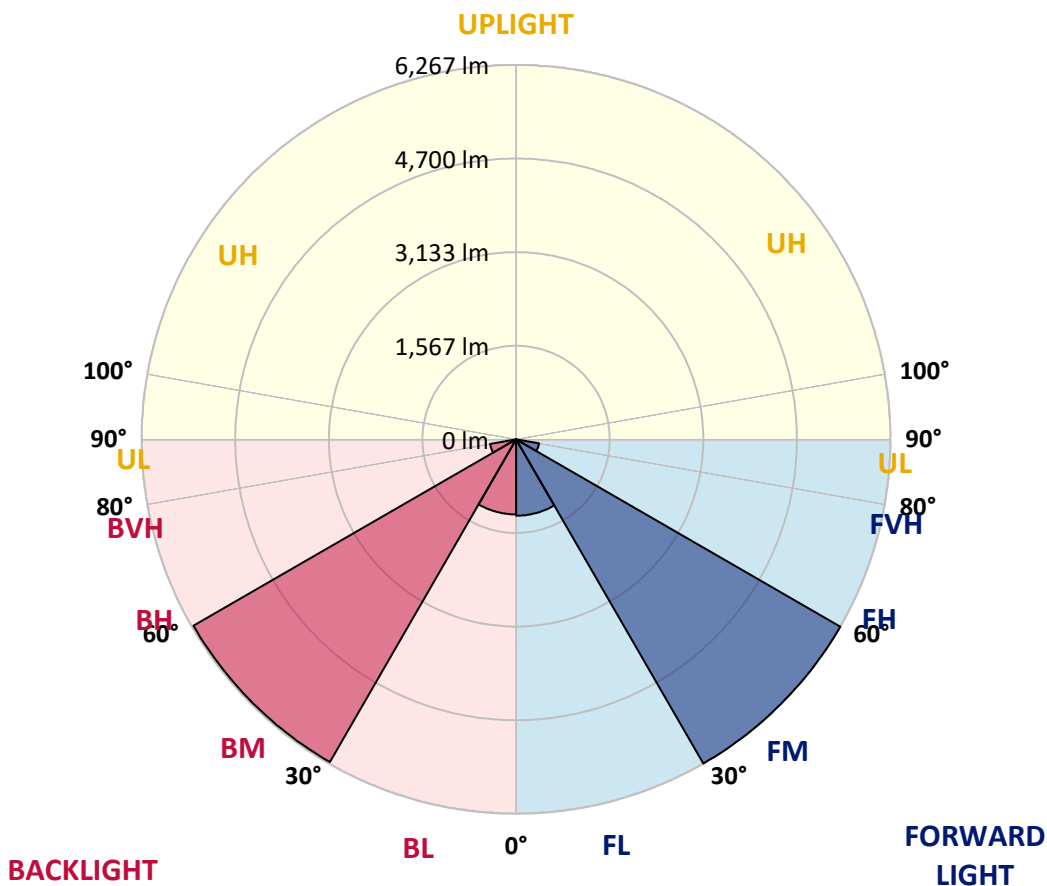
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.7	8.1			
FM (30°-60°)	6267.0	39.5			
FH (60°-80°)	390.3	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1256.5	7.9	B3/2500		
BM (30°-60°)	6236.5	39.3	B4/8500		
BH (60°-80°)	442.4	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	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°	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5
2.5°	2215.4	2220.7	2227.7	2234.7	2243.5	2252.3	2257.5	2273.3	2269.8	2283.9	2283.9
5°	2190.8	2196.1	2204.9	2220.7	2240.0	2259.3	2273.3	2304.9	2322.5	2350.6	2361.1
7.5°	2203.1	2210.1	2220.7	2245.2	2275.1	2304.9	2320.7	2371.6	2406.7	2459.4	2489.2
10°	2243.5	2250.5	2268.1	2310.2	2348.8	2390.9	2410.3	2475.2	2531.4	2603.4	2645.5
12.5°	2289.1	2297.9	2333.0	2396.2	2462.9	2519.1	2545.4	2617.4	2675.3	2756.1	2822.8
15°	2336.5	2350.6	2405.0	2498.0	2592.8	2668.3	2696.4	2773.6	2831.6	2917.6	2993.1
17.5°	2447.1	2462.9	2524.4	2624.4	2754.3	2842.1	2866.7	2947.4	2991.3	3049.2	3128.2
20°	2585.8	2615.6	2691.1	2812.3	2954.4	3038.7	3056.3	3135.3	3131.7	3156.3	3224.8
22.5°	2757.8	2778.9	2861.4	3005.4	3165.1	3258.1	3298.5	3331.9	3288.0	3266.9	3310.8
25°	2936.9	2961.5	3051.0	3209.0	3388.0	3495.1	3528.5	3554.8	3484.6	3405.6	3410.9
27.5°	3168.6	3186.2	3273.9	3442.5	3621.5	3742.6	3772.5	3818.1	3725.1	3598.7	3563.6
30°	3444.2	3461.8	3554.8	3732.1	3909.4	4013.0	4058.6	4114.8	4013.0	3855.0	3814.6
32.5°	3767.2	3784.8	3904.2	4086.7	4232.4	4344.8	4388.7	4448.3	4367.6	4190.3	4144.7
35°	4153.4	4164.0	4304.4	4502.8	4657.2	4766.1	4795.9	4866.1	4776.6	4599.3	4574.7
37.5°	4601.1	4613.4	4766.1	4996.1	5154.0	5275.2	5322.6	5341.9	5233.0	5034.7	5015.4
40°	5092.6	5133.0	5282.2	5529.7	5707.0	5859.7	5901.9	5836.9	5684.2	5413.9	5378.7
42.5°	5605.2	5640.3	5807.1	6075.7	6281.1	6437.3	6439.0	6298.6	6038.8	5664.9	5612.2
45°	6031.8	6045.8	6261.7	6532.1	6784.9	6895.5	6906.0	6651.5	6260.0	5810.6	5698.2
47.5°	6324.9	6347.8	6535.6	6795.4	7074.5	7174.6	7153.5	6835.8	6365.3	5905.4	5719.3
50°	6328.4	6367.1	6570.7	6821.7	7092.1	7213.2	7183.4	6888.4	6425.0	5908.9	5668.4
52.5°	5768.5	5831.7	6163.4	6526.8	6941.1	7148.2	7155.3	6956.9	6402.2	5852.7	5622.8
55°	4351.8	4420.3	4838.1	5457.7	6258.2	6835.8	6935.8	6876.2	6375.8	5877.3	5703.5
57.5°	2303.2	2250.5	2482.2	3096.6	4102.5	5124.2	5417.4	5894.8	6082.7	5907.1	5852.7
60°	502.1	535.4	712.7	960.2	1601.0	2410.3	2696.4	3514.4	4487.0	4918.8	5231.3
62.5°	215.9	212.4	221.2	251.0	366.9	610.9	746.1	1218.3	1922.2	2640.2	3126.5
65°	177.3	179.1	186.1	186.1	173.8	175.5	184.3	279.1	449.4	630.2	846.1
67.5°	133.4	135.2	147.5	151.0	142.2	126.4	124.6	105.3	110.6	138.7	143.9
70°	84.3	84.3	91.3	94.8	94.8	87.8	86.0	75.5	73.7	84.3	94.8
72.5°	45.6	45.6	49.2	50.9	49.2	47.4	47.4	45.6	43.9	50.9	65.0
75°	19.3	19.3	21.1	21.1	19.3	19.3	19.3	19.3	19.3	22.8	35.1
77.5°	3.5	5.3	7.0	5.3	3.5	3.5	3.5	5.3	5.3	7.0	10.5
80°	1.8	1.8	3.5	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5	2257.5
2.5°	2296.1	2276.8	2283.9	2287.4	2282.1	2278.6	2259.3	2254.0	2245.2	2231.2	2227.7
5°	2373.4	2357.6	2355.8	2345.3	2320.7	2290.9	2254.0	2238.2	2220.7	2203.1	2199.6
7.5°	2503.3	2484.0	2471.7	2436.6	2380.4	2333.0	2271.6	2238.2	2215.4	2192.6	2187.3
10°	2670.1	2647.2	2612.1	2547.2	2471.7	2403.2	2331.3	2287.4	2252.3	2220.7	2218.9
12.5°	2847.4	2822.8	2759.6	2677.1	2585.8	2522.6	2431.3	2369.9	2317.2	2269.8	2264.5
15°	3033.4	3003.6	2917.6	2819.3	2735.0	2670.1	2570.0	2471.7	2390.9	2322.5	2315.5
17.5°	3175.6	3138.8	3037.0	2963.2	2894.8	2828.1	2715.7	2585.8	2478.7	2396.2	2376.9
20°	3265.2	3230.1	3133.5	3093.1	3061.5	3014.1	2880.7	2745.5	2626.2	2524.4	2506.8
22.5°	3351.2	3309.0	3224.8	3224.8	3249.4	3230.1	3086.1	2931.6	2791.2	2673.6	2647.2
25°	3447.7	3414.4	3354.7	3403.8	3465.3	3463.5	3316.1	3123.0	2961.5	2829.8	2803.5
27.5°	3588.2	3554.8	3533.7	3626.8	3704.0	3698.8	3537.3	3328.4	3158.1	3028.2	3003.6
30°	3835.7	3804.1	3781.3	3893.6	3991.9	3955.1	3777.8	3575.9	3403.8	3256.4	3238.8
32.5°	4165.7	4132.4	4102.5	4214.9	4302.6	4255.2	4086.7	3897.1	3698.8	3554.8	3519.7
35°	4599.3	4529.1	4499.3	4632.7	4669.5	4616.9	4455.4	4288.6	4077.9	3912.9	3890.1
37.5°	5047.0	4964.5	4943.4	5059.2	5118.9	5099.6	4910.0	4736.2	4508.0	4325.5	4299.1
40°	5429.7	5354.2	5317.3	5498.1	5633.3	5645.6	5475.3	5262.9	4994.3	4804.7	4757.3
42.5°	5654.3	5589.4	5580.6	5861.5	6082.7	6240.7	6037.0	5817.6	5535.0	5320.8	5282.2
45°	5705.3	5663.1	5736.9	6105.5	6449.6	6737.5	6563.7	6332.0	6026.5	5800.1	5763.2
47.5°	5700.0	5685.9	5817.6	6231.9	6667.3	7021.9	6935.8	6674.3	6379.4	6142.4	6107.3
50°	5624.5	5626.3	5845.7	6295.1	6755.0	7099.1	7013.1	6770.8	6507.5	6274.0	6245.9
52.5°	5594.7	5584.1	5793.0	6275.8	6844.6	7064.0	6870.9	6598.8	6305.6	6017.7	5975.6
55°	5700.0	5673.7	5800.1	6260.0	6855.1	7044.7	6535.6	5945.8	5345.4	5004.8	4976.7
57.5°	5858.0	5829.9	5889.6	6144.1	6305.6	5858.0	4810.0	3858.5	3240.6	2979.0	2864.9
60°	5231.3	5212.0	5166.3	4859.1	4167.5	3144.0	2141.7	1365.8	981.3	793.5	793.5
62.5°	3245.9	3219.5	2972.0	2208.4	1604.5	928.6	510.8	319.5	242.3	226.5	224.7
65°	911.1	905.8	749.6	530.2	337.0	208.9	184.3	187.8	184.3	179.1	177.3
67.5°	136.9	151.0	151.0	122.9	117.6	131.7	154.5	165.0	156.2	147.5	143.9
70°	87.8	94.8	91.3	79.0	84.3	98.3	110.6	112.3	107.1	98.3	96.6
72.5°	61.4	68.5	56.2	50.9	52.7	57.9	63.2	63.2	61.4	57.9	54.4
75°	36.9	36.9	26.3	24.6	24.6	26.3	26.3	29.8	29.8	28.1	26.3
77.5°	12.3	14.0	8.8	7.0	7.0	7.0	8.8	10.5	10.5	8.8	7.0
80°	1.8	3.5	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	1.8
82.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
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)