

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: P640226

Luminaire Tested: GWS-SA5D-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640226  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

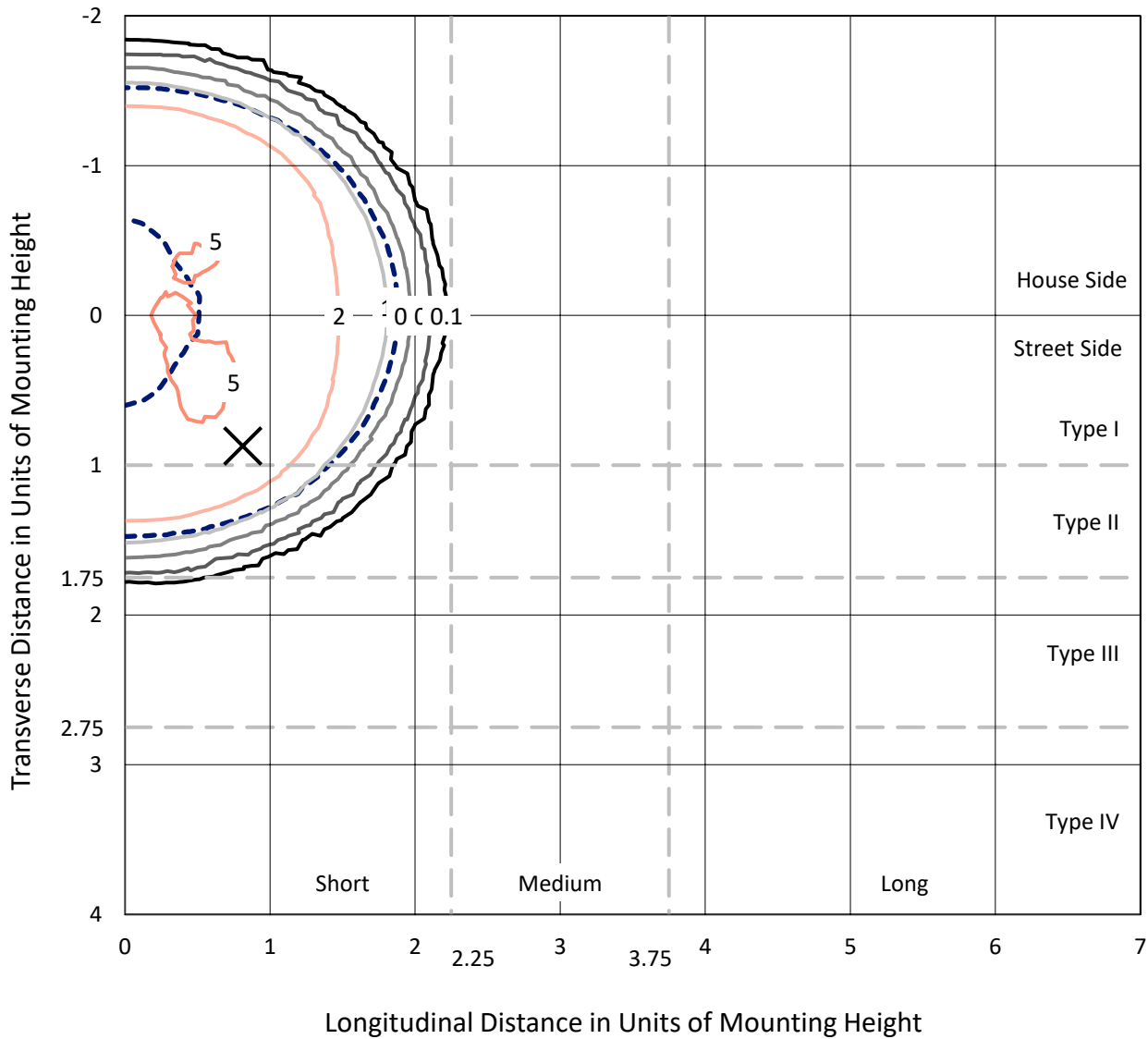
Lumens per Lamp: N/A  
Luminaire Lumens: 19470.2 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

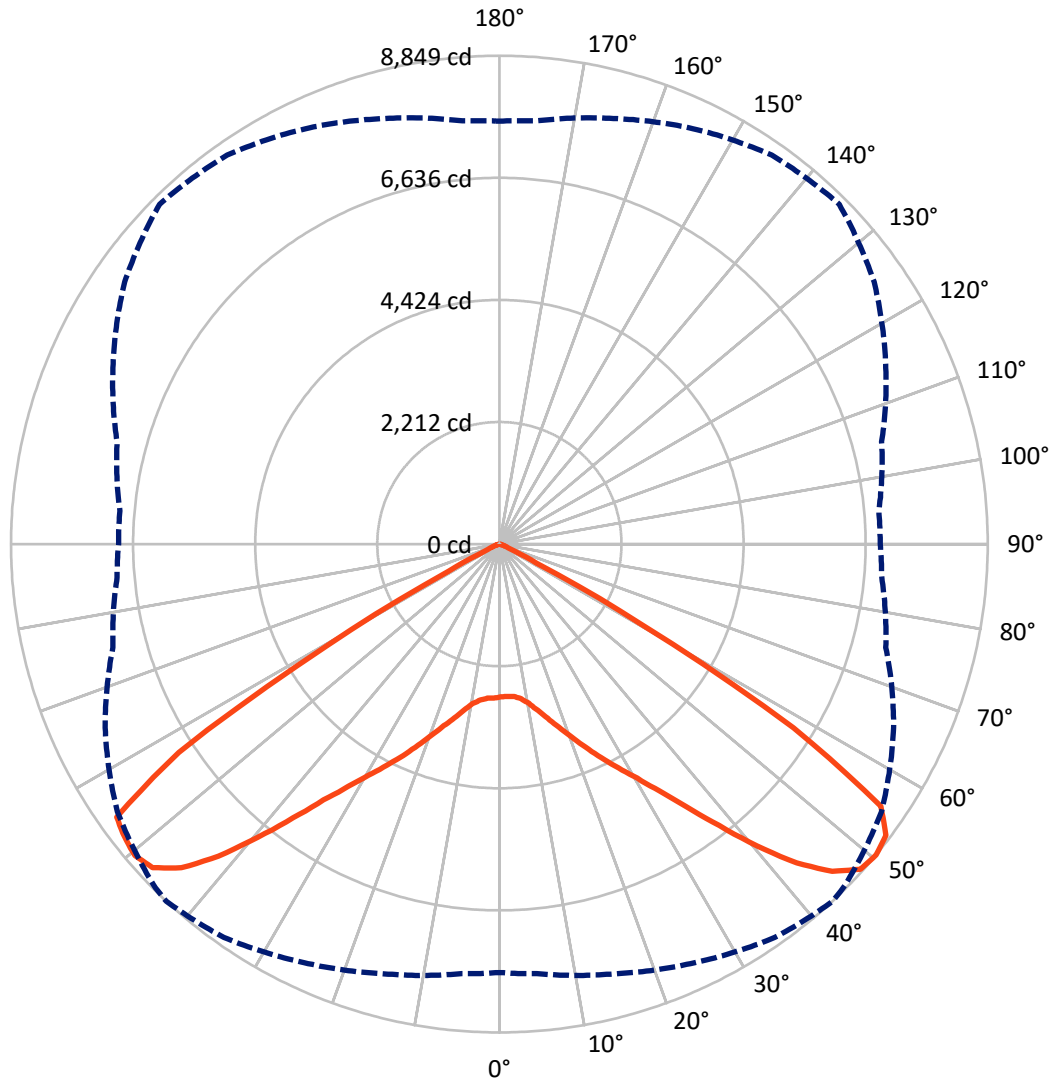
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	9734.9	0.0	9734.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9735.3	0.0	9735.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19470.2	0.0	19470.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.7	1.4
10°-20°	938.5	4.8
20°-30°	1898.7	9.8
30°-40°	3522.8	18.1
40°-50°	5847.6	30.0
50°-60°	5967.8	30.7
60°-70°	978.6	5.0
70°-80°	42.8	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°	19470.2	100.0
0°-180°	19470.2	100.0

**Coefficient of Utilization**



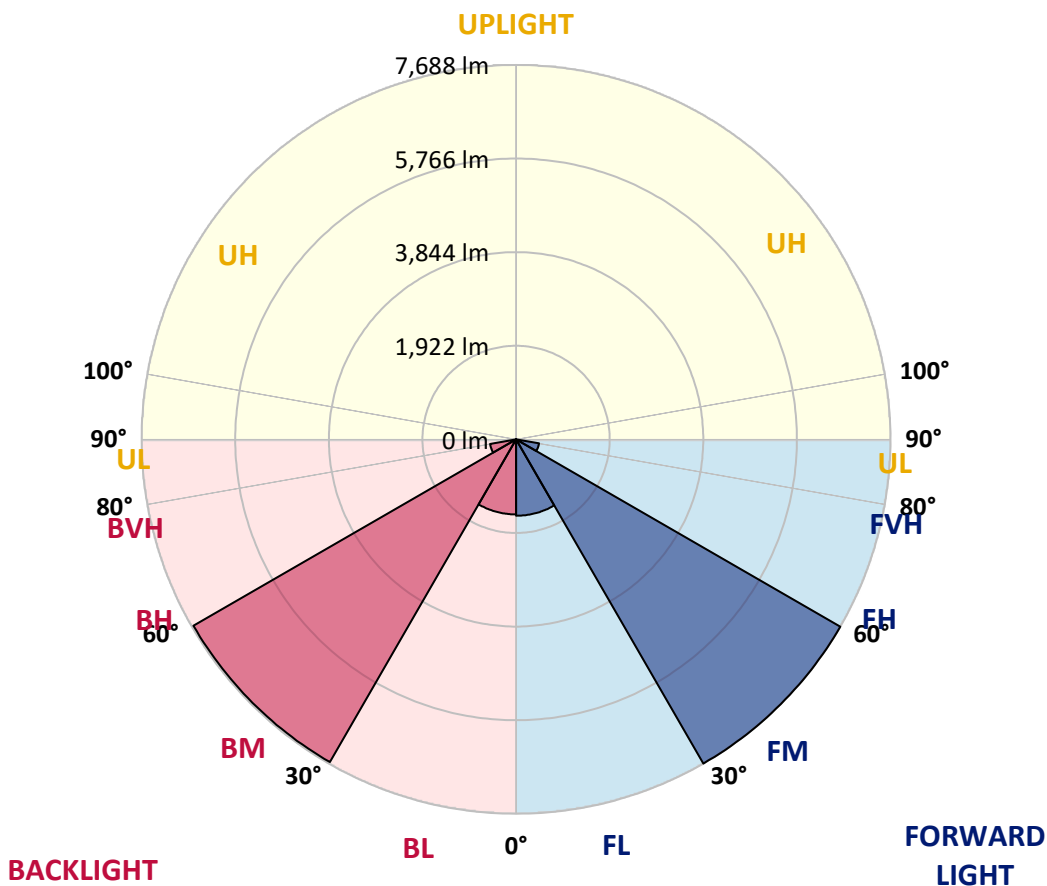
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.6	8.1			
FM (30°-60°)	7687.8	39.5			
FH (60°-80°)	478.8	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1541.3	7.9	B3/2500		
BM (30°-60°)	7650.4	39.3	B4/8500		
BH (60°-80°)	542.7	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°	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3
2.5°	2717.6	2724.1	2732.7	2741.3	2752.1	2762.9	2769.3	2788.7	2784.4	2801.6	2801.6
5°	2687.5	2694.0	2704.7	2724.1	2747.8	2771.5	2788.7	2827.5	2849.0	2883.5	2896.4
7.5°	2702.6	2711.2	2724.1	2754.3	2790.9	2827.5	2846.9	2909.3	2952.4	3017.0	3053.6
10°	2752.1	2760.7	2782.2	2833.9	2881.3	2933.0	2956.7	3036.4	3105.3	3193.6	3245.2
12.5°	2808.1	2818.9	2861.9	2939.5	3021.3	3090.2	3122.5	3210.8	3281.8	3380.9	3462.7
15°	2866.2	2883.5	2950.2	3064.3	3180.6	3273.2	3307.7	3402.4	3473.5	3579.0	3671.6
17.5°	3001.9	3021.3	3096.7	3219.4	3378.8	3486.4	3516.6	3615.6	3669.5	3740.5	3837.4
20°	3172.0	3208.6	3301.2	3449.8	3624.2	3727.6	3749.1	3846.0	3841.7	3871.9	3955.9
22.5°	3383.1	3408.9	3510.1	3686.7	3882.7	3996.8	4046.3	4087.2	4033.4	4007.6	4061.4
25°	3602.7	3632.9	3742.7	3936.5	4156.1	4287.5	4328.4	4360.7	4274.6	4177.7	4184.1
27.5°	3887.0	3908.5	4016.2	4222.9	4442.6	4591.1	4627.7	4683.7	4569.6	4414.6	4371.5
30°	4225.1	4246.6	4360.7	4578.2	4795.7	4922.8	4978.8	5047.7	4922.8	4729.0	4679.4
32.5°	4621.3	4642.8	4789.3	5013.2	5192.0	5329.8	5383.6	5456.8	5357.8	5140.3	5084.3
35°	5095.0	5108.0	5280.2	5523.6	5713.1	5846.6	5883.2	5969.3	5859.5	5642.0	5611.9
37.5°	5644.2	5659.2	5846.6	6128.7	6322.5	6471.1	6529.2	6552.9	6419.4	6176.1	6152.4
40°	6247.1	6296.7	6479.7	6783.3	7000.8	7188.2	7239.9	7160.2	6972.8	6641.2	6598.2
42.5°	6875.9	6919.0	7123.6	7453.1	7705.0	7896.7	7898.8	7726.6	7407.8	6949.2	6884.6
45°	7399.2	7416.5	7681.3	8013.0	8323.1	8458.7	8471.6	8159.4	7679.2	7127.9	6990.1
47.5°	7758.9	7786.9	8017.3	8336.0	8678.4	8801.1	8775.3	8385.5	7808.4	7244.2	7015.9
50°	7763.2	7810.5	8060.3	8368.3	8699.9	8848.5	8811.9	8450.1	7881.6	7248.5	6953.5
52.5°	7076.2	7153.7	7560.7	8006.5	8514.7	8768.8	8777.4	8534.1	7853.6	7179.6	6897.5
55°	5338.4	5422.4	5934.9	6695.1	7677.0	8385.5	8508.3	8435.0	7821.3	7209.7	6996.5
57.5°	2825.3	2760.7	3045.0	3798.7	5032.6	6285.9	6645.5	7231.3	7461.7	7246.3	7179.6
60°	615.9	656.8	874.3	1177.9	1963.9	2956.7	3307.7	4311.2	5504.2	6033.9	6417.3
62.5°	264.9	260.6	271.3	307.9	450.1	749.4	915.2	1494.5	2358.0	3238.8	3835.3
65°	217.5	219.7	228.3	228.3	213.2	215.3	226.1	342.4	551.3	773.1	1038.0
67.5°	163.7	165.8	180.9	185.2	174.4	155.0	152.9	129.2	135.7	170.1	176.6
70°	103.4	103.4	112.0	116.3	116.3	107.7	105.5	92.6	90.4	103.4	116.3
72.5°	56.0	56.0	60.3	62.4	60.3	58.1	58.1	56.0	53.8	62.4	79.7
75°	23.7	23.7	25.8	25.8	23.7	23.7	23.7	23.7	23.7	28.0	43.1
77.5°	4.3	6.5	8.6	6.5	4.3	4.3	4.3	6.5	6.5	8.6	12.9
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°	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3	2769.3
2.5°	2816.7	2793.0	2801.6	2805.9	2799.5	2795.2	2771.5	2765.0	2754.3	2737.0	2732.7
5°	2911.5	2892.1	2889.9	2877.0	2846.9	2810.2	2765.0	2745.6	2724.1	2702.6	2698.3
7.5°	3070.8	3047.1	3032.0	2989.0	2920.1	2861.9	2786.6	2745.6	2717.6	2689.7	2683.2
10°	3275.4	3247.4	3204.3	3124.6	3032.0	2948.1	2859.8	2805.9	2762.9	2724.1	2722.0
12.5°	3492.9	3462.7	3385.2	3284.0	3172.0	3094.5	2982.5	2907.1	2842.5	2784.4	2777.9
15°	3721.1	3684.5	3579.0	3458.4	3355.1	3275.4	3152.6	3032.0	2933.0	2849.0	2840.4
17.5°	3895.6	3850.4	3725.5	3635.0	3551.0	3469.2	3331.4	3172.0	3040.7	2939.5	2915.8
20°	4005.4	3962.3	3843.9	3794.4	3755.6	3697.5	3533.8	3368.0	3221.6	3096.7	3075.1
22.5°	4110.9	4059.2	3955.9	3955.9	3986.0	3962.3	3785.8	3596.3	3424.0	3279.7	3247.4
25°	4229.4	4188.4	4115.2	4175.5	4250.9	4248.7	4067.9	3831.0	3632.9	3471.4	3439.0
27.5°	4401.6	4360.7	4334.9	4449.0	4543.8	4537.3	4339.2	4082.9	3874.0	3714.7	3684.5
30°	4705.3	4666.5	4638.5	4776.3	4896.9	4851.7	4634.2	4386.6	4175.5	3994.6	3973.1
32.5°	5110.1	5069.2	5032.6	5170.4	5278.1	5219.9	5013.2	4780.6	4537.3	4360.7	4317.7
35°	5642.0	5555.9	5519.3	5682.9	5728.2	5663.6	5465.4	5260.9	5002.4	4800.0	4772.0
37.5°	6191.1	6089.9	6064.1	6206.2	6279.4	6255.8	6023.2	5810.0	5530.0	5306.1	5273.8
40°	6660.6	6568.0	6522.8	6744.6	6910.4	6925.5	6716.6	6456.0	6126.5	5894.0	5835.8
42.5°	6936.2	6856.6	6845.8	7190.3	7461.7	7655.5	7405.7	7136.5	6789.8	6527.1	6479.7
45°	6998.7	6947.0	7037.5	7489.7	7911.8	8264.9	8051.7	7767.5	7392.8	7115.0	7069.8
47.5°	6992.2	6975.0	7136.5	7644.7	8178.8	8613.8	8508.3	8187.4	7825.6	7534.9	7491.8
50°	6899.6	6901.8	7171.0	7722.2	8286.4	8708.5	8603.0	8305.8	7982.8	7696.4	7662.0
52.5°	6863.0	6850.1	7106.4	7698.6	8396.3	8665.5	8428.6	8094.8	7735.2	7382.0	7330.3
55°	6992.2	6959.9	7115.0	7679.2	8409.2	8641.8	8017.3	7293.7	6557.2	6139.5	6105.0
57.5°	7186.0	7151.6	7224.8	7537.1	7735.2	7186.0	5900.4	4733.3	3975.3	3654.4	3514.4
60°	6417.3	6393.6	6337.6	5960.7	5112.3	3856.8	2627.2	1675.4	1203.8	973.4	973.4
62.5°	3981.7	3949.4	3645.8	2709.0	1968.2	1139.2	626.7	391.9	297.2	277.8	275.6
65°	1117.6	1111.2	919.5	650.3	413.5	256.3	226.1	230.4	226.1	219.7	217.5
67.5°	168.0	185.2	185.2	150.7	144.3	161.5	189.5	202.4	191.7	180.9	176.6
70°	107.7	116.3	112.0	96.9	103.4	120.6	135.7	137.8	131.4	120.6	118.4
72.5°	75.4	84.0	68.9	62.4	64.6	71.1	77.5	77.5	75.4	71.1	66.8
75°	45.2	45.2	32.3	30.1	30.1	32.3	32.3	36.6	36.6	34.5	32.3
77.5°	15.1	17.2	10.8	8.6	8.6	8.6	10.8	12.9	12.9	10.8	8.6
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)