

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: P640501

Luminaire Tested: GWS-SA5E-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640501  
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-SA5E-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

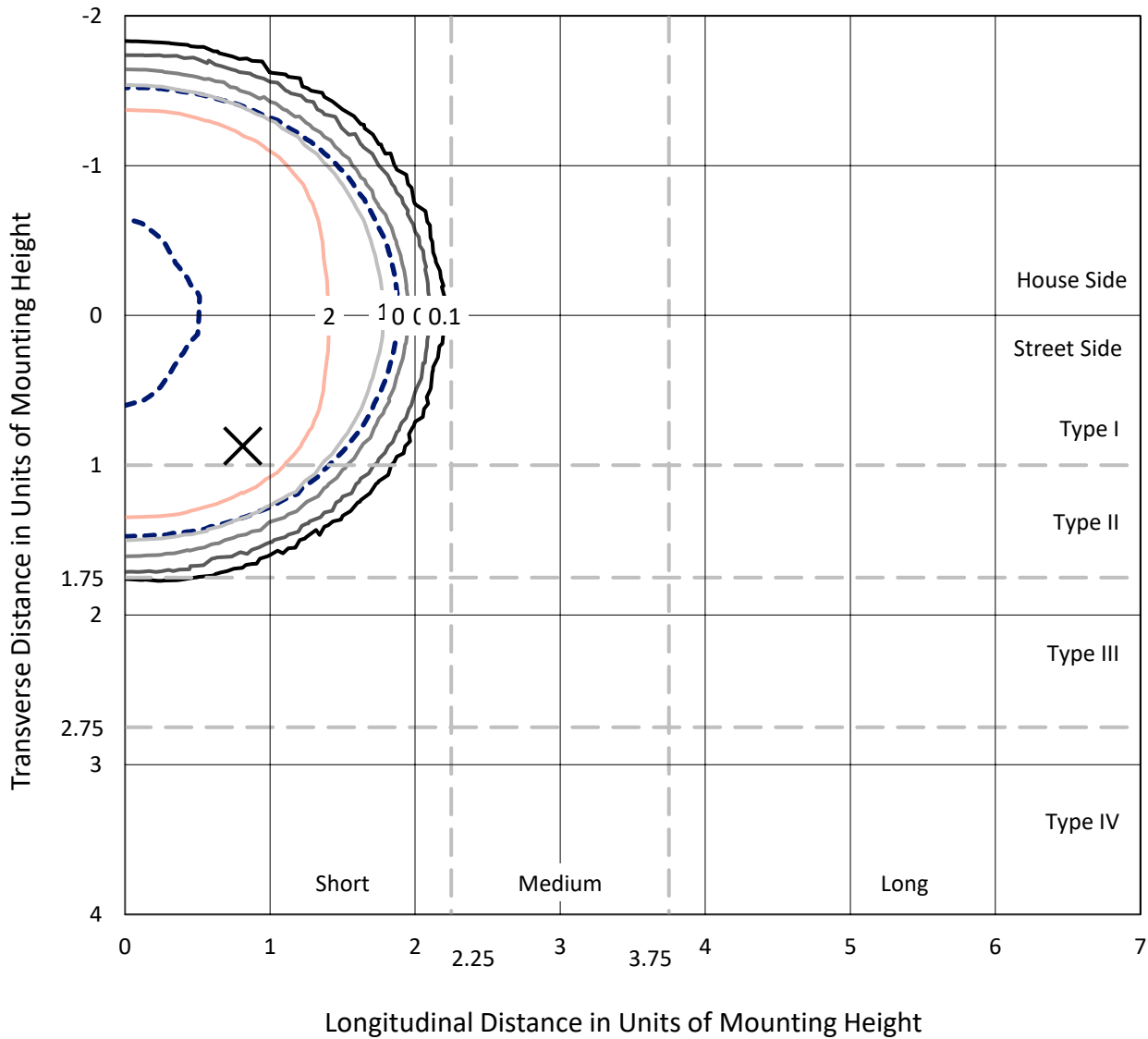
Lumens per Lamp: N/A  
Luminaire Lumens: 17922.1 lumens  
Efficiency: N/A  
Efficacy: 66.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

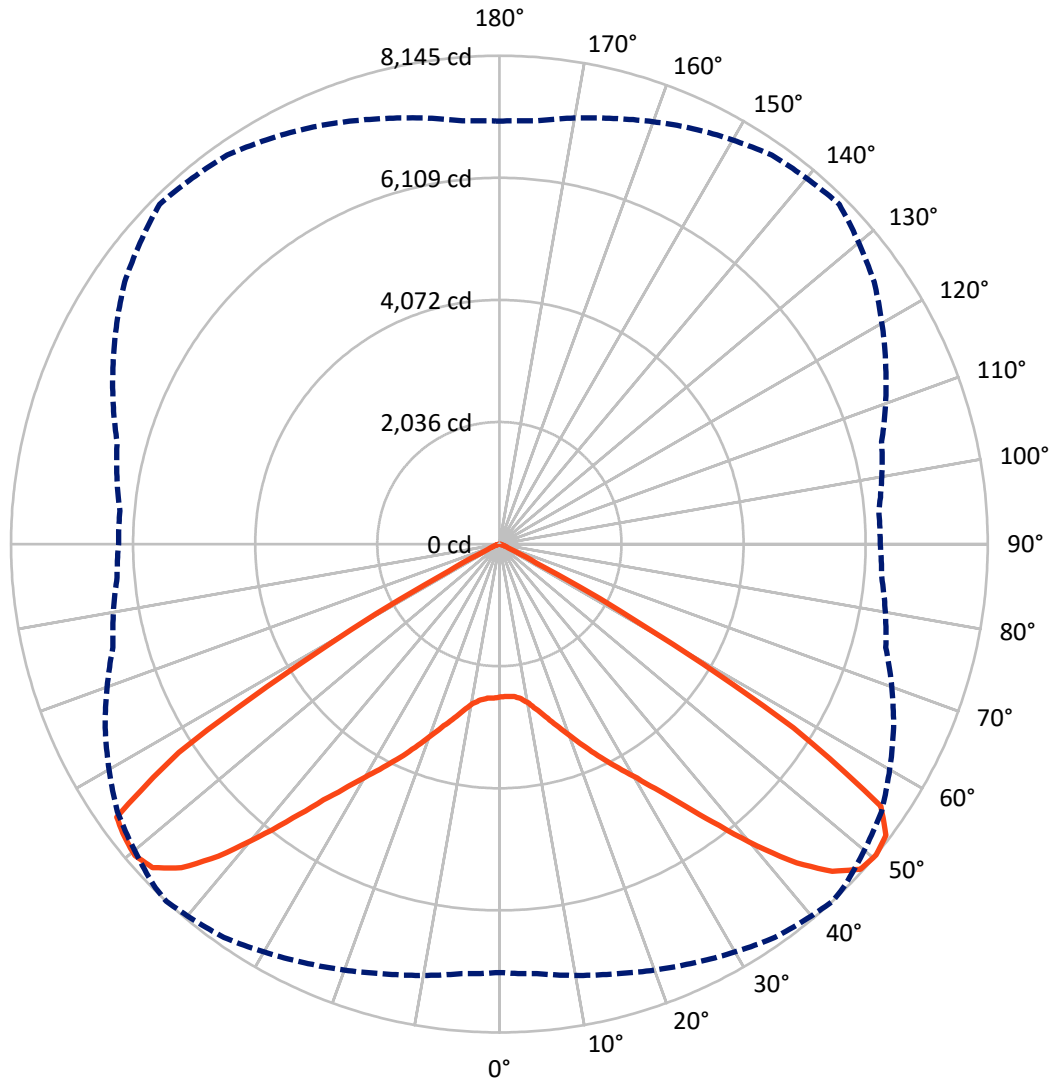
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	8960.8	0.0	8960.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8961.3	0.0	8961.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17922.1	0.0	17922.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.0	1.4
10°-20°	863.9	4.8
20°-30°	1747.8	9.8
30°-40°	3242.7	18.1
40°-50°	5382.7	30.0
50°-60°	5493.3	30.7
60°-70°	900.8	5.0
70°-80°	39.4	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°	17922.1	100.0
0°-180°	17922.1	100.0

**Coefficient of Utilization**



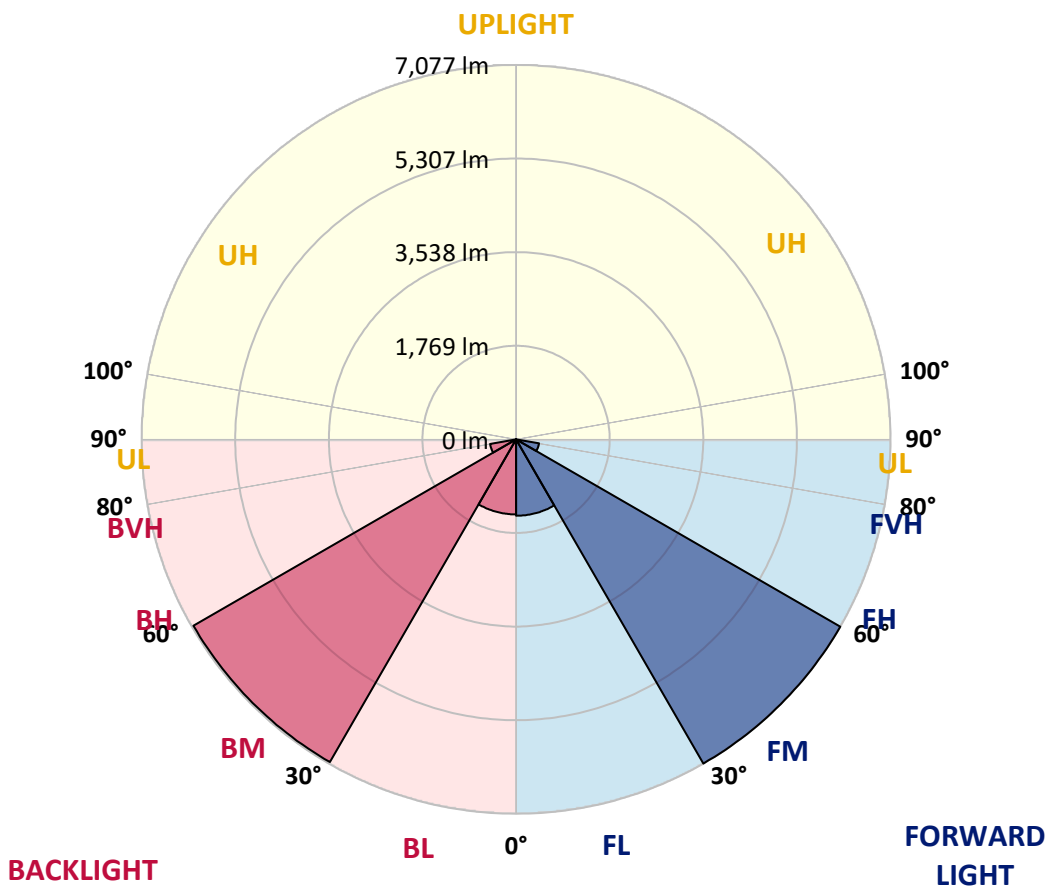
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.9	8.1			
FM (30°-60°)	7076.5	39.5			
FH (60°-80°)	440.7	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1418.8	7.9	B3/2500		
BM (30°-60°)	7042.1	39.3	B4/8500		
BH (60°-80°)	499.6	2.8	B1/500		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°	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1
2.5°	2501.6	2507.5	2515.4	2523.4	2533.3	2543.2	2549.1	2567.0	2563.0	2578.9	2578.9
5°	2473.8	2479.8	2489.7	2507.5	2529.3	2551.1	2567.0	2602.7	2622.5	2654.2	2666.1
7.5°	2487.7	2495.6	2507.5	2535.3	2569.0	2602.7	2620.5	2678.0	2717.6	2777.1	2810.8
10°	2533.3	2541.2	2561.0	2608.6	2652.2	2699.8	2721.6	2794.9	2858.4	2939.6	2987.2
12.5°	2584.8	2594.7	2634.4	2705.7	2781.1	2844.5	2874.2	2955.5	3020.9	3112.1	3187.4
15°	2638.3	2654.2	2715.6	2820.7	2927.7	3013.0	3044.7	3131.9	3197.3	3294.5	3379.7
17.5°	2763.2	2781.1	2850.4	2963.4	3110.1	3209.2	3237.0	3328.1	3377.7	3443.1	3532.3
20°	2919.8	2953.5	3038.7	3175.5	3336.1	3431.2	3451.0	3540.2	3536.3	3564.0	3641.3
22.5°	3114.1	3137.9	3231.0	3393.6	3573.9	3679.0	3724.6	3762.3	3712.7	3688.9	3738.5
25°	3316.3	3344.0	3445.1	3623.5	3825.7	3946.6	3984.3	4014.0	3934.7	3845.5	3851.5
27.5°	3577.9	3597.7	3696.8	3887.1	4089.3	4226.1	4259.8	4311.3	4206.3	4063.6	4023.9
30°	3889.1	3908.9	4014.0	4214.2	4414.4	4531.4	4582.9	4646.3	4531.4	4353.0	4307.4
32.5°	4253.8	4273.7	4408.5	4614.6	4779.1	4906.0	4955.6	5022.9	4931.8	4731.6	4680.0
35°	4689.9	4701.8	4860.4	5084.4	5258.8	5381.7	5415.4	5494.7	5393.6	5193.4	5165.7
37.5°	5195.4	5209.3	5381.7	5641.4	5819.8	5956.6	6010.1	6031.9	5909.0	5685.0	5663.2
40°	5750.4	5796.0	5964.5	6244.0	6444.2	6616.7	6664.2	6590.9	6418.4	6113.2	6073.5
42.5°	6329.2	6368.9	6557.2	6860.5	7092.4	7268.8	7270.8	7112.2	6818.8	6396.6	6337.2
45°	6810.9	6826.8	7070.6	7375.8	7661.3	7786.2	7798.1	7510.6	7068.6	6561.1	6434.3
47.5°	7141.9	7167.7	7379.8	7673.2	7988.3	8101.3	8077.5	7718.8	7187.5	6668.2	6458.1
50°	7145.9	7189.5	7419.5	7702.9	8008.2	8144.9	8111.2	7778.2	7254.9	6672.2	6400.6
52.5°	6513.6	6584.9	6959.6	7369.9	7837.7	8071.6	8079.5	7855.5	7229.2	6608.7	6349.1
55°	4913.9	4991.2	5463.0	6162.7	7066.6	7718.8	7831.8	7764.4	7199.4	6636.5	6440.2
57.5°	2600.7	2541.2	2802.9	3496.6	4632.4	5786.1	6117.1	6656.3	6868.4	6670.2	6608.7
60°	566.9	604.6	804.8	1084.3	1807.8	2721.6	3044.7	3968.4	5066.6	5554.2	5907.0
62.5°	243.8	239.8	249.8	283.5	414.3	689.8	842.4	1375.7	2170.5	2981.3	3530.3
65°	200.2	202.2	210.1	210.1	196.2	198.2	208.1	315.2	507.4	711.6	955.4
67.5°	150.6	152.6	166.5	170.5	160.6	142.7	140.7	118.9	124.9	156.6	162.5
70°	95.1	95.1	103.1	107.0	107.0	99.1	97.1	85.2	83.3	95.1	107.0
72.5°	51.5	51.5	55.5	57.5	55.5	53.5	53.5	51.5	49.6	57.5	73.3
75°	21.8	21.8	23.8	23.8	21.8	21.8	21.8	21.8	21.8	25.8	39.6
77.5°	4.0	5.9	7.9	5.9	4.0	4.0	4.0	5.9	5.9	7.9	11.9
80°	2.0	2.0	4.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1	2549.1
2.5°	2592.7	2570.9	2578.9	2582.8	2576.9	2572.9	2551.1	2545.2	2535.3	2519.4	2515.4
5°	2680.0	2662.1	2660.1	2648.2	2620.5	2586.8	2545.2	2527.3	2507.5	2487.7	2483.7
7.5°	2826.6	2804.8	2791.0	2751.3	2687.9	2634.4	2565.0	2527.3	2501.6	2475.8	2469.8
10°	3015.0	2989.2	2949.5	2876.2	2791.0	2713.7	2632.4	2582.8	2543.2	2507.5	2505.5
12.5°	3215.2	3187.4	3116.1	3022.9	2919.8	2848.5	2745.4	2676.0	2616.5	2563.0	2557.1
15°	3425.3	3391.6	3294.5	3183.4	3088.3	3015.0	2902.0	2791.0	2699.8	2622.5	2614.5
17.5°	3585.8	3544.2	3429.2	3346.0	3268.7	3193.4	3066.5	2919.8	2798.9	2705.7	2683.9
20°	3686.9	3647.3	3538.3	3492.7	3457.0	3403.5	3252.8	3100.2	2965.4	2850.4	2830.6
22.5°	3784.1	3736.5	3641.3	3641.3	3669.1	3647.3	3484.7	3310.3	3151.7	3018.9	2989.2
25°	3893.1	3855.4	3788.0	3843.5	3912.9	3910.9	3744.4	3526.4	3344.0	3195.3	3165.6
27.5°	4051.7	4014.0	3990.2	4095.3	4182.5	4176.5	3994.2	3758.3	3566.0	3419.3	3391.6
30°	4331.2	4295.5	4269.7	4396.6	4507.6	4465.9	4265.7	4037.8	3843.5	3677.0	3657.2
32.5°	4703.8	4666.1	4632.4	4759.3	4858.4	4804.9	4614.6	4400.5	4176.5	4014.0	3974.4
35°	5193.4	5114.1	5080.4	5231.1	5272.7	5213.2	5030.9	4842.6	4604.7	4418.4	4392.6
37.5°	5698.9	5605.7	5581.9	5712.8	5780.2	5758.3	5544.3	5348.0	5090.3	4884.2	4854.5
40°	6131.0	6045.8	6004.1	6208.3	6360.9	6374.8	6182.5	5942.7	5639.4	5425.3	5371.8
42.5°	6384.7	6311.4	6301.5	6618.6	6868.4	7046.8	6816.9	6569.1	6249.9	6008.1	5964.5
45°	6442.2	6394.6	6477.9	6894.2	7282.7	7607.8	7411.5	7149.9	6805.0	6549.3	6507.6
47.5°	6436.3	6420.4	6569.1	7036.9	7528.5	7928.9	7831.8	7536.4	7203.4	6935.8	6896.1
50°	6351.0	6353.0	6600.8	7108.2	7627.6	8016.1	7919.0	7645.4	7348.1	7084.5	7052.7
52.5°	6317.3	6305.4	6541.3	7086.4	7728.7	7976.5	7758.4	7451.2	7120.1	6795.1	6747.5
55°	6436.3	6406.5	6549.3	7068.6	7740.6	7954.6	7379.8	6713.8	6035.9	5651.3	5619.6
57.5°	6614.7	6583.0	6650.3	6937.8	7120.1	6614.7	5431.3	4356.9	3659.2	3363.8	3235.0
60°	5907.0	5885.2	5833.7	5486.8	4705.8	3550.2	2418.3	1542.2	1108.1	896.0	896.0
62.5°	3665.1	3635.4	3355.9	2493.6	1811.7	1048.6	576.8	360.8	273.5	255.7	253.7
65°	1028.8	1022.8	846.4	598.6	380.6	235.9	208.1	212.1	208.1	202.2	200.2
67.5°	154.6	170.5	170.5	138.8	132.8	148.7	174.4	186.3	176.4	166.5	162.5
70°	99.1	107.0	103.1	89.2	95.1	111.0	124.9	126.9	120.9	111.0	109.0
72.5°	69.4	77.3	63.4	57.5	59.5	65.4	71.4	71.4	69.4	65.4	61.4
75°	41.6	41.6	29.7	27.8	27.8	29.7	29.7	33.7	33.7	31.7	29.7
77.5°	13.9	15.9	9.9	7.9	7.9	7.9	9.9	11.9	11.9	9.9	7.9
80°	2.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	2.0
82.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
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

(END OF REPORT)