

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: P636266

Luminaire Tested: GWS-SA3F-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636266  
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-SA3F-740-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

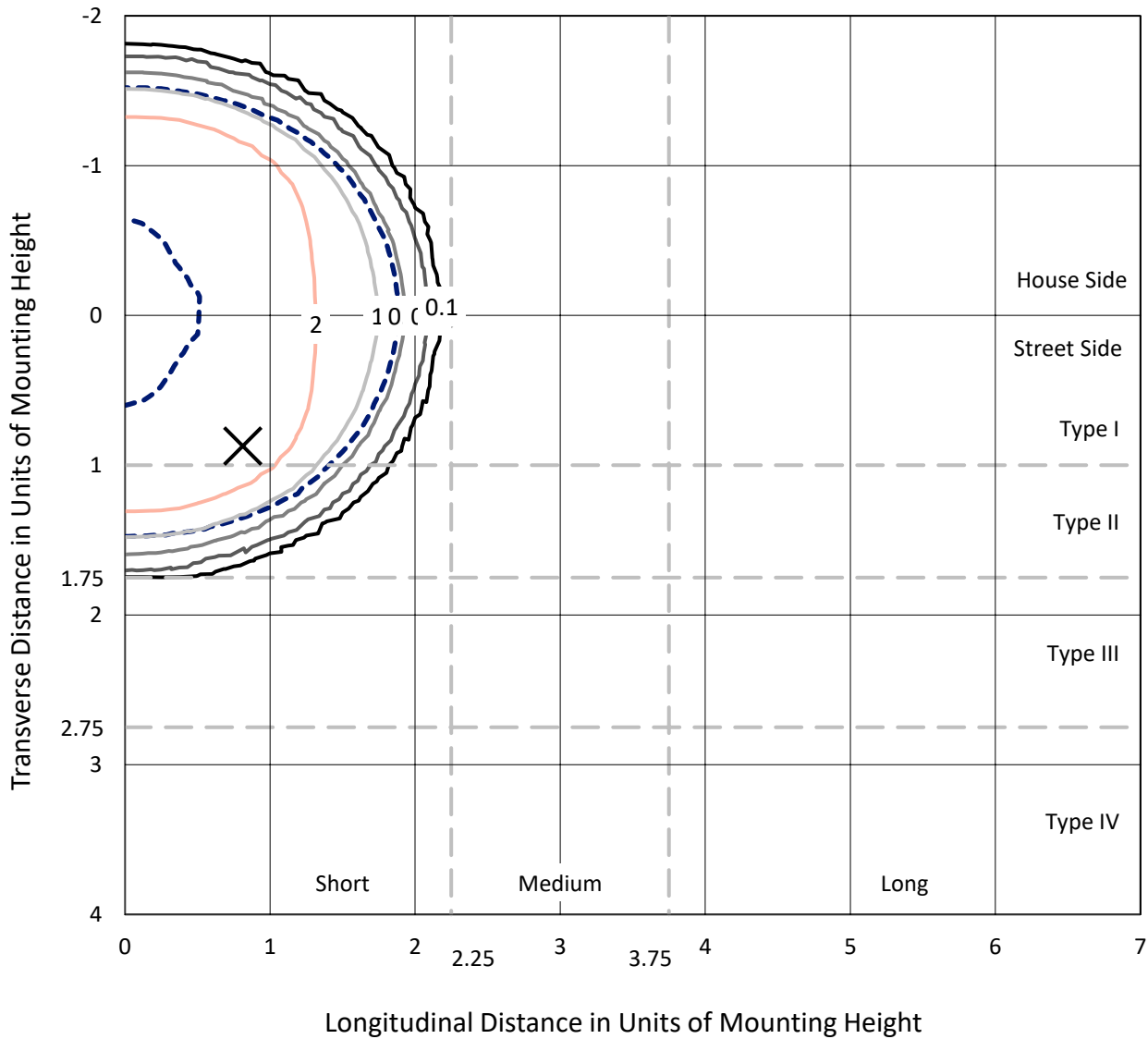
Lumens per Lamp: N/A  
Luminaire Lumens: 15847 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

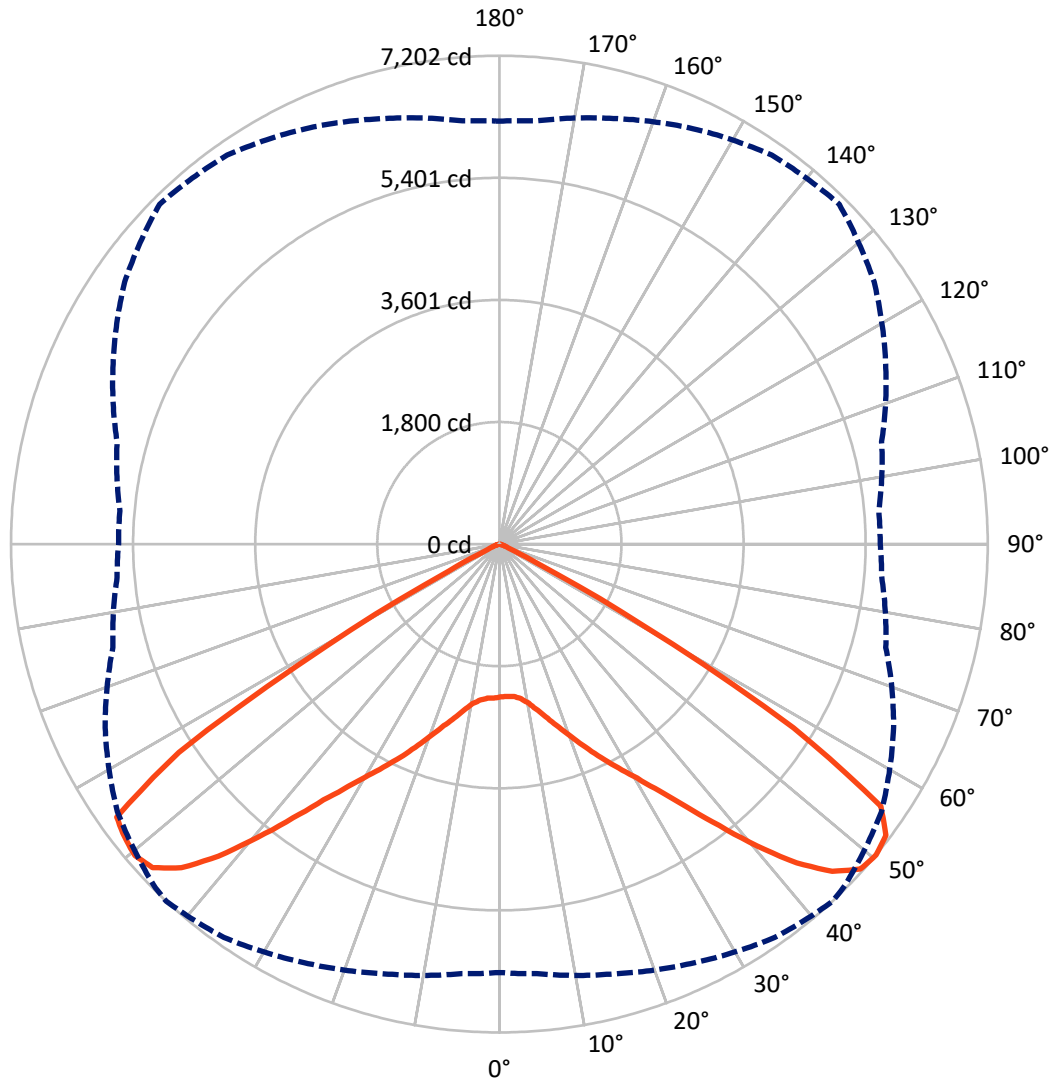
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	7923.3	0.0	7923.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7923.7	0.0	7923.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15847.0	0.0	15847.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.0	1.4
10°-20°	763.8	4.8
20°-30°	1545.4	9.8
30°-40°	2867.2	18.1
40°-50°	4759.5	30.0
50°-60°	4857.2	30.7
60°-70°	796.5	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°	15847.0	100.0
0°-180°	15847.0	100.0

**Coefficient of Utilization**

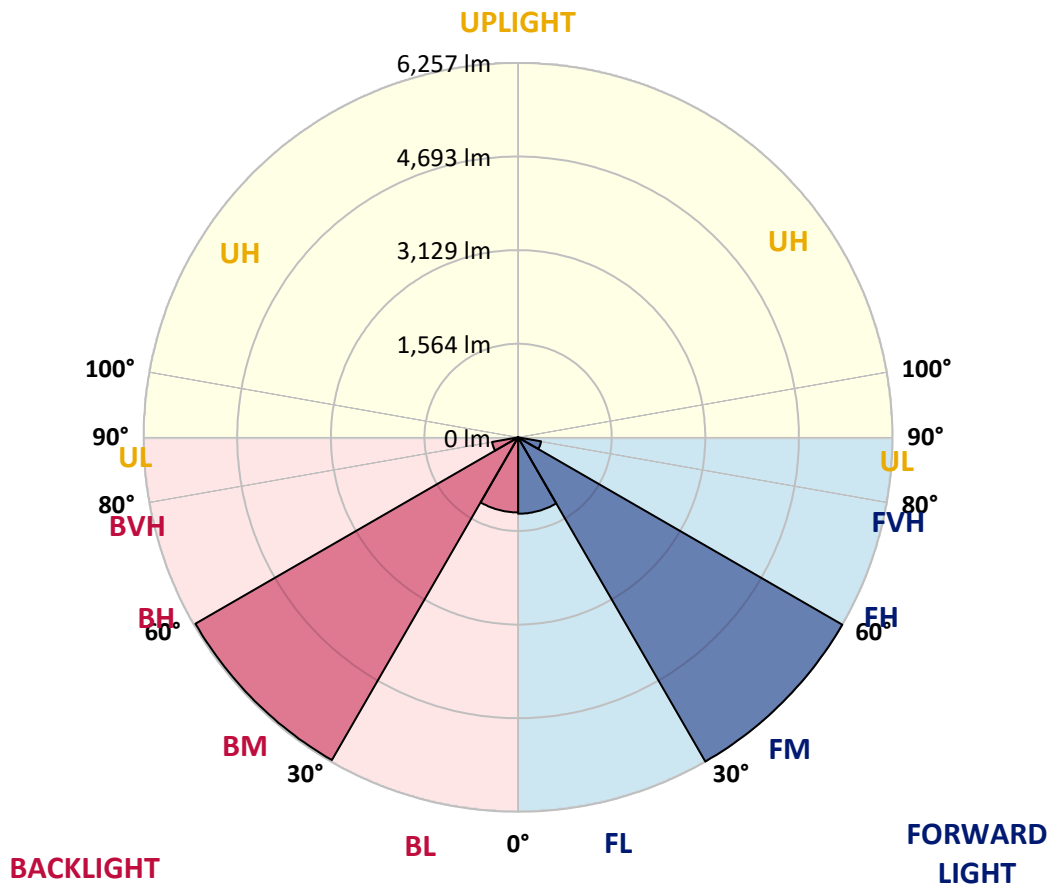


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1276.7	8.1			
FM (30°-60°)	6257.2	39.5			
FH (60°-80°)	389.7	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1254.5	7.9	B3/2500		
BM (30°-60°)	6226.8	39.3	B4/8500		
BH (60°-80°)	441.7	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°	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0
2.5°	2211.9	2217.2	2224.2	2231.2	2240.0	2248.7	2254.0	2269.8	2266.3	2280.3	2280.3
5°	2187.4	2192.6	2201.4	2217.2	2236.5	2255.7	2269.8	2301.3	2318.8	2346.9	2357.4
7.5°	2199.7	2206.7	2217.2	2241.7	2271.5	2301.3	2317.1	2367.9	2403.0	2455.5	2485.3
10°	2240.0	2247.0	2264.5	2306.6	2345.1	2387.2	2406.5	2471.3	2527.4	2599.3	2641.3
12.5°	2285.5	2294.3	2329.4	2392.4	2459.1	2515.1	2541.4	2613.3	2671.1	2751.8	2818.4
15°	2332.9	2346.9	2401.2	2494.1	2588.8	2664.1	2692.2	2769.3	2827.1	2913.0	2988.4
17.5°	2443.3	2459.1	2520.4	2620.3	2750.0	2837.6	2862.2	2942.8	2986.6	3044.5	3123.3
20°	2581.7	2611.5	2686.9	2807.8	2949.8	3033.9	3051.5	3130.3	3126.8	3151.4	3219.7
22.5°	2753.5	2774.5	2856.9	3000.6	3160.1	3253.0	3293.3	3326.6	3282.8	3261.8	3305.6
25°	2932.3	2956.8	3046.2	3204.0	3382.7	3489.6	3522.9	3549.2	3479.1	3400.3	3405.5
27.5°	3163.6	3181.2	3268.8	3437.1	3615.8	3736.8	3766.6	3812.1	3719.3	3593.1	3558.0
30°	3438.8	3456.3	3549.2	3726.3	3903.3	4006.7	4052.3	4108.4	4006.7	3849.0	3808.6
32.5°	3761.3	3778.8	3898.0	4080.3	4225.8	4338.0	4381.8	4441.4	4360.7	4183.7	4138.1
35°	4146.9	4157.4	4297.6	4495.7	4649.9	4758.6	4788.4	4858.5	4769.1	4592.1	4567.6
37.5°	4593.9	4606.1	4758.6	4988.2	5146.0	5266.9	5314.2	5333.5	5224.8	5026.8	5007.5
40°	5084.6	5124.9	5273.9	5521.0	5698.1	5850.5	5892.6	5827.8	5675.3	5405.4	5370.3
42.5°	5596.4	5631.5	5798.0	6066.1	6271.2	6427.2	6428.9	6288.7	6029.3	5656.0	5603.4
45°	6022.3	6036.3	6251.9	6521.8	6774.2	6884.6	6895.2	6641.0	6250.2	5801.5	5689.3
47.5°	6315.0	6337.8	6525.3	6784.7	7063.4	7163.3	7142.3	6825.1	6355.3	5896.1	5710.3
50°	6318.5	6357.1	6560.4	6811.0	7080.9	7201.9	7172.1	6877.6	6414.9	5899.6	5659.5
52.5°	5759.4	5822.5	6153.8	6516.6	6930.2	7137.0	7144.0	6946.0	6392.1	5843.5	5613.9
55°	4345.0	4413.3	4830.5	5449.2	6248.4	6825.1	6925.0	6865.4	6365.8	5868.1	5694.6
57.5°	2299.6	2247.0	2478.3	3091.8	4096.1	5116.2	5408.9	5885.6	6073.1	5897.9	5843.5
60°	501.3	534.6	711.6	958.7	1598.5	2406.5	2692.2	3508.9	4479.9	4911.1	5223.1
62.5°	215.6	212.1	220.8	250.6	366.3	609.9	744.9	1216.4	1919.2	2636.1	3121.6
65°	177.0	178.8	185.8	185.8	173.5	175.3	184.0	278.7	448.7	629.2	844.8
67.5°	133.2	135.0	147.2	150.7	142.0	126.2	124.4	105.2	110.4	138.5	143.7
70°	84.1	84.1	91.1	94.6	94.6	87.6	85.9	75.4	73.6	84.1	94.6
72.5°	45.6	45.6	49.1	50.8	49.1	47.3	47.3	45.6	43.8	50.8	64.9
75°	19.3	19.3	21.0	21.0	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°	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0	2254.0
2.5°	2292.5	2273.3	2280.3	2283.8	2278.5	2275.0	2255.7	2250.5	2241.7	2227.7	2224.2
5°	2369.7	2353.9	2352.1	2341.6	2317.1	2287.3	2250.5	2234.7	2217.2	2199.7	2196.1
7.5°	2499.4	2480.1	2467.8	2432.8	2376.7	2329.4	2268.0	2234.7	2211.9	2189.1	2183.9
10°	2665.9	2643.1	2608.0	2543.2	2467.8	2399.5	2327.6	2283.8	2248.7	2217.2	2215.4
12.5°	2842.9	2818.4	2755.3	2672.9	2581.7	2518.6	2427.5	2366.2	2313.6	2266.3	2261.0
15°	3028.7	2998.9	2913.0	2814.9	2730.7	2665.9	2566.0	2467.8	2387.2	2318.8	2311.8
17.5°	3170.7	3133.8	3032.2	2958.6	2890.2	2823.6	2711.4	2581.7	2474.8	2392.4	2373.2
20°	3260.0	3225.0	3128.6	3088.3	3056.7	3009.4	2876.2	2741.2	2622.1	2520.4	2502.9
22.5°	3345.9	3303.9	3219.7	3219.7	3244.3	3225.0	3081.3	2927.0	2786.8	2669.4	2643.1
25°	3442.3	3409.0	3349.4	3398.5	3459.8	3458.1	3310.9	3118.1	2956.8	2825.4	2799.1
27.5°	3582.5	3549.2	3528.2	3621.1	3698.2	3693.0	3531.7	3323.1	3153.1	3023.4	2998.9
30°	3829.7	3798.1	3775.3	3887.5	3985.7	3948.9	3771.8	3570.3	3398.5	3251.3	3233.8
32.5°	4159.2	4125.9	4096.1	4208.3	4295.9	4248.6	4080.3	3891.0	3693.0	3549.2	3514.2
35°	4592.1	4522.0	4492.2	4625.4	4662.2	4609.6	4448.4	4281.9	4071.5	3906.8	3884.0
37.5°	5039.0	4956.7	4935.6	5051.3	5110.9	5091.6	4902.3	4728.8	4501.0	4318.7	4292.4
40°	5421.1	5345.8	5309.0	5489.5	5624.4	5636.7	5466.7	5254.6	4986.5	4797.2	4749.8
42.5°	5645.5	5580.6	5571.9	5852.3	6073.1	6230.9	6027.6	5808.5	5526.3	5312.5	5273.9
45°	5696.3	5654.2	5727.9	6095.9	6439.5	6726.9	6553.4	6322.0	6017.1	5791.0	5754.1
47.5°	5691.0	5677.0	5808.5	6222.1	6656.8	7010.8	6925.0	6663.8	6369.3	6132.7	6097.7
50°	5615.7	5617.4	5836.5	6285.2	6744.4	7088.0	7002.1	6760.2	6497.3	6264.2	6236.1
52.5°	5585.9	5575.4	5783.9	6265.9	6833.8	7052.9	6860.1	6588.4	6295.7	6008.3	5966.2
55°	5691.0	5664.8	5791.0	6250.2	6844.3	7033.6	6525.3	5936.4	5337.0	4997.0	4968.9
57.5°	5848.8	5820.8	5880.3	6134.5	6295.7	5848.8	4802.4	3852.5	3235.5	2974.3	2860.4
60°	5223.1	5203.8	5158.2	4851.5	4160.9	3139.1	2138.3	1363.6	979.8	792.2	792.2
62.5°	3240.8	3214.5	2967.3	2204.9	1602.0	927.2	510.0	319.0	241.9	226.1	224.3
65°	909.7	904.4	748.4	529.3	336.5	208.6	184.0	187.5	184.0	178.8	177.0
67.5°	136.7	150.7	150.7	122.7	117.4	131.5	154.2	164.8	156.0	147.2	143.7
70°	87.6	94.6	91.1	78.9	84.1	98.2	110.4	112.2	106.9	98.2	96.4
72.5°	61.3	68.4	56.1	50.8	52.6	57.8	63.1	63.1	61.3	57.8	54.3
75°	36.8	36.8	26.3	24.5	24.5	26.3	26.3	29.8	29.8	28.0	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)