

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: P638521

Luminaire Tested: GWS-SA4F-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638521
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-SA4F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16243.5 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

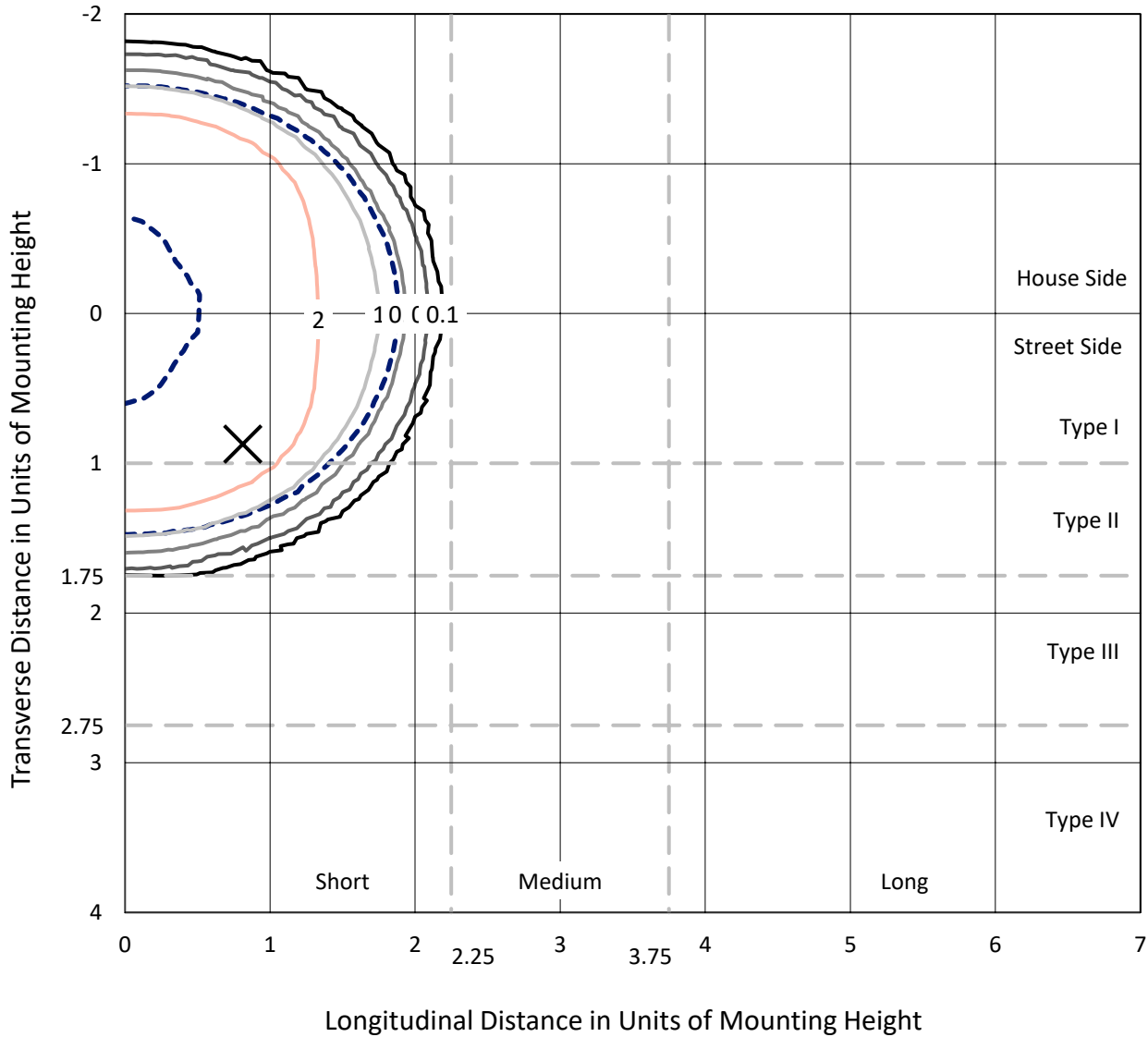
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA4F-722-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

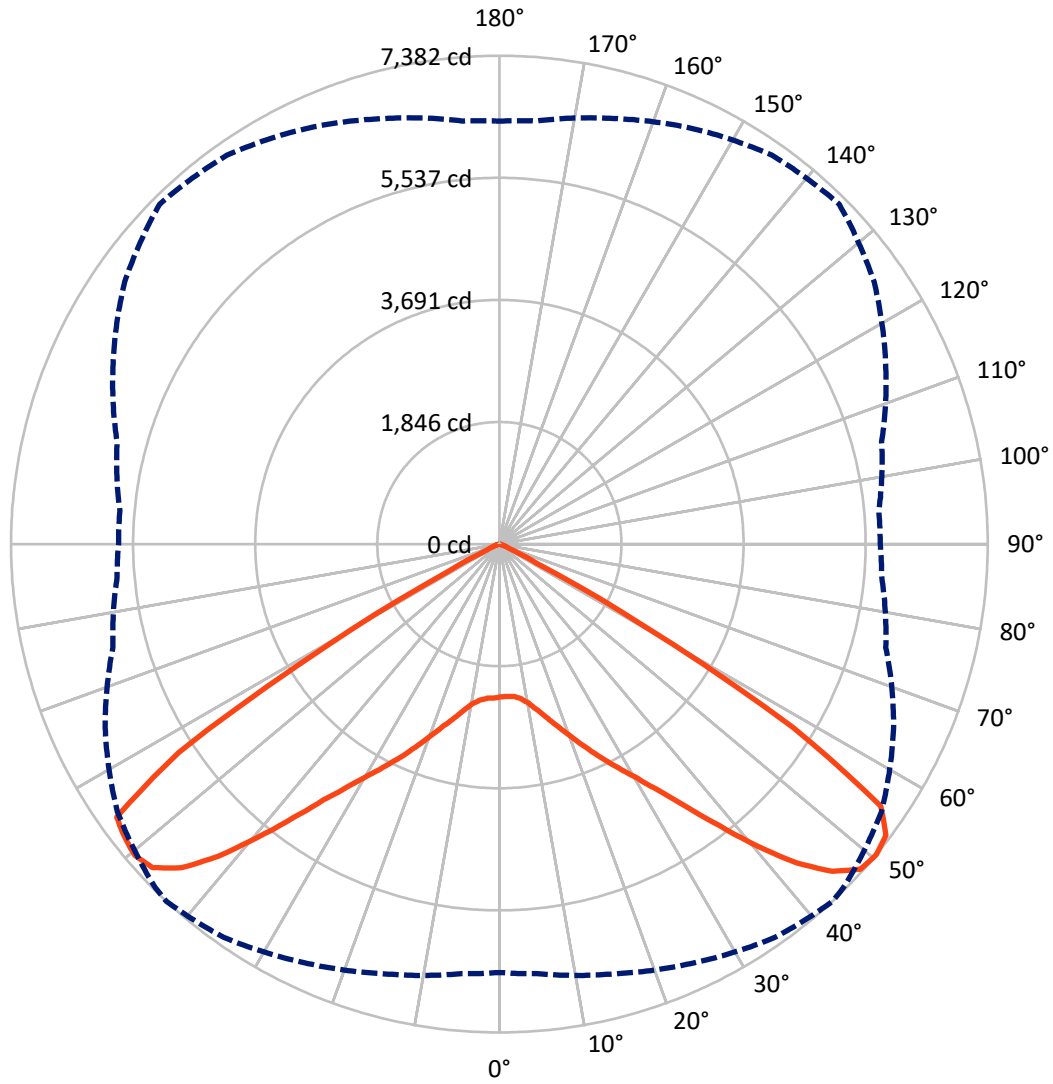
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P638521
CATALOG NUMBER: GWS-SA4F-722-U-RW-W-GRSBK

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	8121.6	0.0	8121.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8121.9	0.0	8121.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	16243.5	0.0	16243.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	1.4
10°-20°	783.0	4.8
20°-30°	1584.1	9.8
30°-40°	2939.0	18.1
40°-50°	4878.5	30.0
50°-60°	4978.7	30.7
60°-70°	816.5	5.0
70°-80°	35.8	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°	16243.5	100.0
0°-180°	16243.5	100.0

Coefficient of Utilization



REPORT NUMBER: P638521

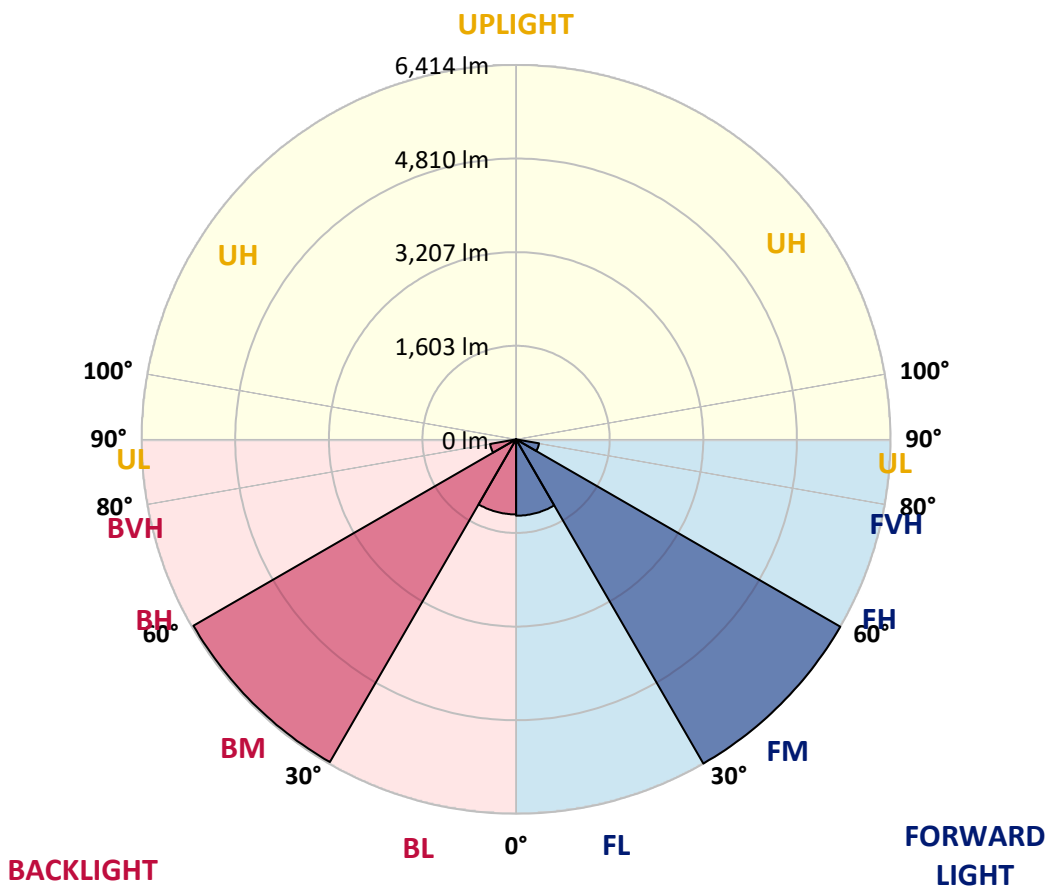
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1308.6	8.1			
FM (30°-60°)	6413.7	39.5			
FH (60°-80°)	399.4	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1285.9	7.9	B3/2500		
BM (30°-60°)	6382.6	39.3	B4/8500		
BH (60°-80°)	452.8	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





REPORT NUMBER: P638521
 CATALOG NUMBER: GWS-SA4F-722-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4
2.5°	2267.3	2272.7	2279.8	2287.0	2296.0	2305.0	2310.4	2326.6	2323.0	2337.3	2337.3
5°	2242.1	2247.5	2256.5	2272.7	2292.4	2312.2	2326.6	2358.9	2376.9	2405.6	2416.4
7.5°	2254.7	2261.9	2272.7	2297.8	2328.3	2358.9	2375.1	2427.2	2463.1	2517.0	2547.5
10°	2296.0	2303.2	2321.2	2364.3	2403.8	2446.9	2466.7	2533.2	2590.6	2664.3	2707.4
12.5°	2342.7	2351.7	2387.6	2452.3	2520.6	2578.1	2605.0	2678.7	2738.0	2820.6	2888.9
15°	2391.2	2405.6	2461.3	2556.5	2653.5	2730.8	2759.5	2838.6	2897.9	2985.9	3063.1
17.5°	2504.4	2520.6	2583.5	2685.9	2818.8	2908.6	2933.8	3016.4	3061.3	3120.6	3201.5
20°	2646.3	2676.9	2754.1	2878.1	3023.6	3109.9	3127.8	3208.7	3205.1	3230.2	3300.3
22.5°	2822.4	2844.0	2928.4	3075.7	3239.2	3334.4	3375.7	3409.9	3365.0	3343.4	3388.3
25°	3005.7	3030.8	3122.4	3284.1	3467.4	3577.0	3611.1	3638.0	3566.2	3485.3	3490.7
27.5°	3242.8	3260.8	3350.6	3523.1	3706.3	3830.3	3860.8	3907.5	3812.3	3683.0	3647.0
30°	3524.9	3542.8	3638.0	3819.5	4000.9	4106.9	4153.7	4211.1	4106.9	3945.3	3903.9
32.5°	3855.4	3873.4	3995.6	4182.4	4331.5	4446.5	4491.4	4552.5	4469.9	4288.4	4241.7
35°	4250.7	4261.4	4405.2	4608.2	4766.3	4877.7	4908.2	4980.1	4888.4	4707.0	4681.8
37.5°	4708.8	4721.4	4877.7	5113.0	5274.7	5398.7	5447.2	5466.9	5355.6	5152.5	5132.8
40°	5211.8	5253.2	5405.9	5659.2	5840.6	5996.9	6040.0	5973.6	5817.3	5540.6	5504.7
42.5°	5736.4	5772.4	5943.0	6217.9	6428.1	6588.0	6589.8	6446.1	6180.2	5797.5	5743.6
45°	6173.0	6187.4	6408.3	6685.0	6943.7	7056.9	7067.7	6807.2	6406.5	5946.6	5831.6
47.5°	6473.0	6496.4	6688.6	6954.5	7240.2	7342.6	7321.0	6995.8	6514.3	6043.6	5853.2
50°	6476.6	6516.1	6724.5	6981.4	7258.1	7382.1	7351.5	7049.7	6575.4	6047.2	5801.1
52.5°	5903.5	5968.2	6307.7	6679.6	7103.6	7315.6	7322.8	7119.8	6552.1	5989.7	5754.4
55°	4453.7	4523.7	4951.3	5585.5	6404.7	6995.8	7098.2	7037.1	6525.1	6014.9	5837.0
57.5°	2357.1	2303.2	2540.3	3169.1	4198.6	5244.2	5544.2	6032.9	6225.1	6045.4	5989.7
60°	513.8	548.0	729.4	982.7	1638.5	2466.7	2759.5	3596.7	4592.0	5034.0	5353.8
62.5°	221.0	217.4	226.4	256.9	375.5	625.2	763.5	1246.8	1967.2	2702.0	3199.7
65°	181.5	183.2	190.4	190.4	177.9	179.7	188.6	285.7	459.9	645.0	865.9
67.5°	136.5	138.3	150.9	154.5	145.5	129.4	127.6	107.8	113.2	141.9	147.3
70°	86.2	86.2	93.4	97.0	97.0	89.8	88.0	77.3	75.5	86.2	97.0
72.5°	46.7	46.7	50.3	52.1	50.3	48.5	48.5	46.7	44.9	52.1	66.5
75°	19.8	19.8	21.6	21.6	19.8	19.8	19.8	19.8	19.8	23.4	35.9
77.5°	3.6	5.4	7.2	5.4	3.6	3.6	3.6	5.4	5.4	7.2	10.8
80°	1.8	1.8	3.6	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



REPORT NUMBER: P638521

CATALOG NUMBER: GWS-SA4F-722-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4	2310.4
2.5°	2349.9	2330.1	2337.3	2340.9	2335.5	2331.9	2312.2	2306.8	2297.8	2283.4	2279.8
5°	2429.0	2412.8	2411.0	2400.2	2375.1	2344.5	2306.8	2290.6	2272.7	2254.7	2251.1
7.5°	2561.9	2542.1	2529.6	2493.6	2436.1	2387.6	2324.8	2290.6	2267.3	2243.9	2238.5
10°	2732.6	2709.2	2673.3	2606.8	2529.6	2459.5	2385.8	2340.9	2305.0	2272.7	2270.9
12.5°	2914.0	2888.9	2824.2	2739.8	2646.3	2581.7	2488.2	2425.4	2371.5	2323.0	2317.6
15°	3104.5	3073.9	2985.9	2885.3	2799.0	2732.6	2630.2	2529.6	2446.9	2376.9	2369.7
17.5°	3250.0	3212.3	3108.1	3032.6	2962.5	2894.3	2779.3	2646.3	2536.7	2452.3	2432.5
20°	3341.6	3305.7	3206.9	3165.5	3133.2	3084.7	2948.2	2809.8	2687.7	2583.5	2565.5
22.5°	3429.6	3386.5	3300.3	3300.3	3325.4	3305.7	3158.4	3000.3	2856.5	2736.2	2709.2
25°	3528.5	3494.3	3433.2	3483.5	3546.4	3544.6	3393.7	3196.1	3030.8	2896.1	2869.1
27.5°	3672.2	3638.0	3616.5	3711.7	3790.7	3785.4	3620.1	3406.3	3232.0	3099.1	3073.9
30°	3925.5	3893.2	3869.8	3984.8	4085.4	4047.7	3866.2	3659.6	3483.5	3332.6	3314.7
32.5°	4263.2	4229.1	4198.6	4313.5	4403.4	4354.9	4182.4	3988.4	3785.4	3638.0	3602.1
35°	4707.0	4635.1	4604.6	4741.1	4778.9	4725.0	4559.7	4389.0	4173.4	4004.5	3981.2
37.5°	5165.1	5080.7	5059.1	5177.7	5238.8	5219.0	5025.0	4847.1	4613.6	4426.7	4399.8
40°	5556.8	5479.5	5441.8	5626.8	5765.2	5777.7	5603.5	5386.1	5111.2	4917.2	4868.7
42.5°	5786.7	5720.3	5711.3	5998.7	6225.1	6386.8	6178.4	5953.8	5664.6	5445.4	5405.9
45°	5838.8	5795.7	5871.2	6248.4	6600.6	6895.2	6717.4	6480.2	6167.6	5935.8	5898.1
47.5°	5833.4	5819.1	5953.8	6377.8	6823.3	7186.3	7098.2	6830.5	6528.7	6286.2	6250.2
50°	5756.2	5758.0	5982.6	6442.5	6913.2	7265.3	7177.3	6929.3	6659.9	6420.9	6392.2
52.5°	5725.6	5714.9	5928.7	6422.7	7004.8	7229.4	7031.8	6753.3	6453.3	6158.6	6115.5
55°	5833.4	5806.5	5935.8	6406.5	7015.6	7209.6	6688.6	6085.0	5470.5	5122.0	5093.3
57.5°	5995.1	5966.4	6027.5	6288.0	6453.3	5995.1	4922.6	3948.8	3316.5	3048.8	2932.0
60°	5353.8	5334.0	5287.3	4972.9	4265.0	3217.6	2191.8	1397.7	1004.3	812.0	812.0
62.5°	3321.8	3294.9	3041.6	2260.1	1642.1	950.4	522.8	327.0	247.9	231.8	230.0
65°	932.4	927.0	767.1	542.6	344.9	213.8	188.6	192.2	188.6	183.2	181.5
67.5°	140.1	154.5	154.5	125.8	120.4	134.7	158.1	168.9	159.9	150.9	147.3
70°	89.8	97.0	93.4	80.8	86.2	100.6	113.2	115.0	109.6	100.6	98.8
72.5°	62.9	70.1	57.5	52.1	53.9	59.3	64.7	64.7	62.9	59.3	55.7
75°	37.7	37.7	26.9	25.2	25.2	26.9	26.9	30.5	30.5	28.7	26.9
77.5°	12.6	14.4	9.0	7.2	7.2	7.2	9.0	10.8	10.8	9.0	7.2
80°	1.8	3.6	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	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)