

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: P639347

Luminaire Tested: GWS-SA5B-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639347  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-760-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15791.7 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 115.7  
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

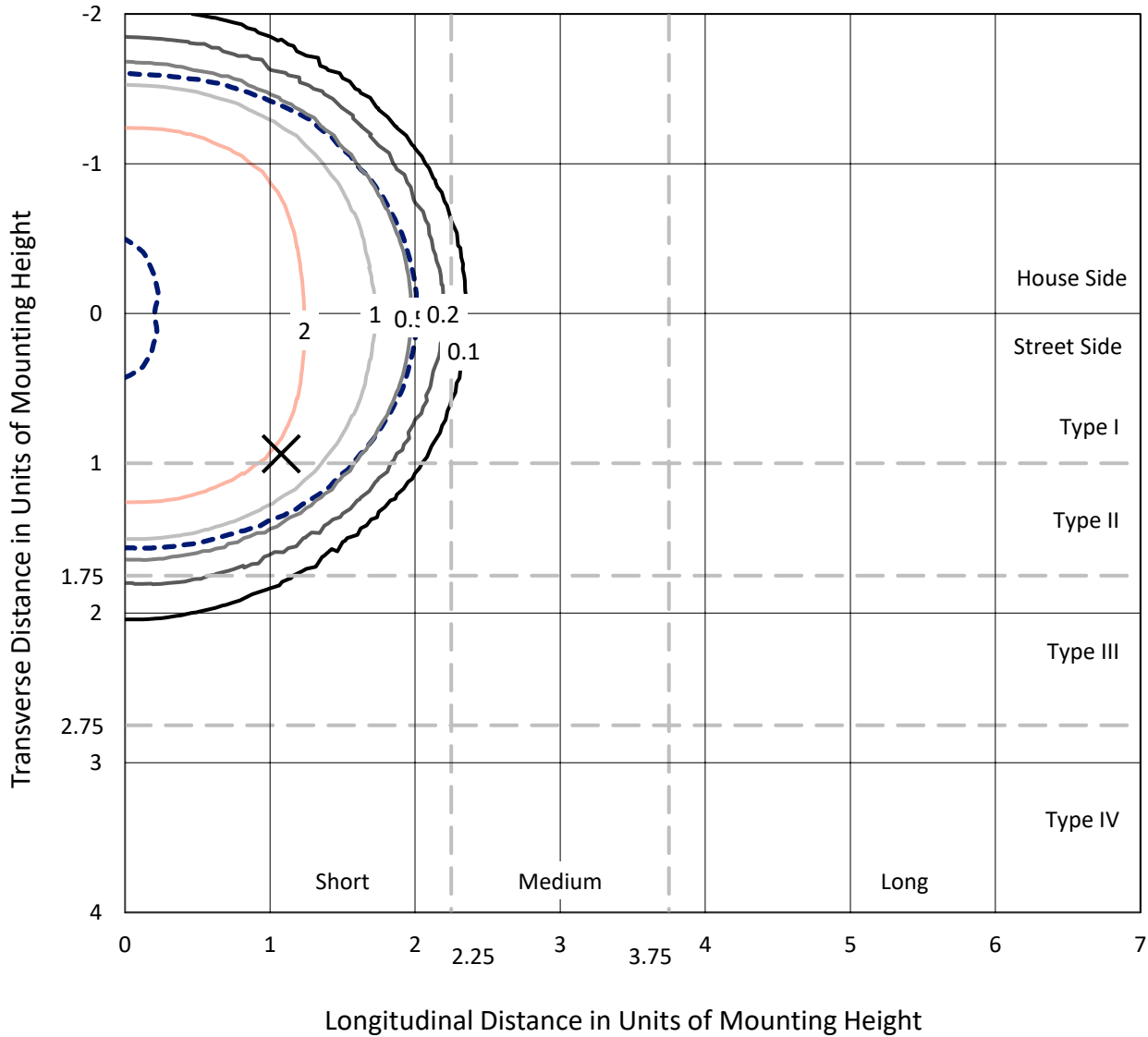


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### Iso-Footcandle Lines of Horizontal Illumination

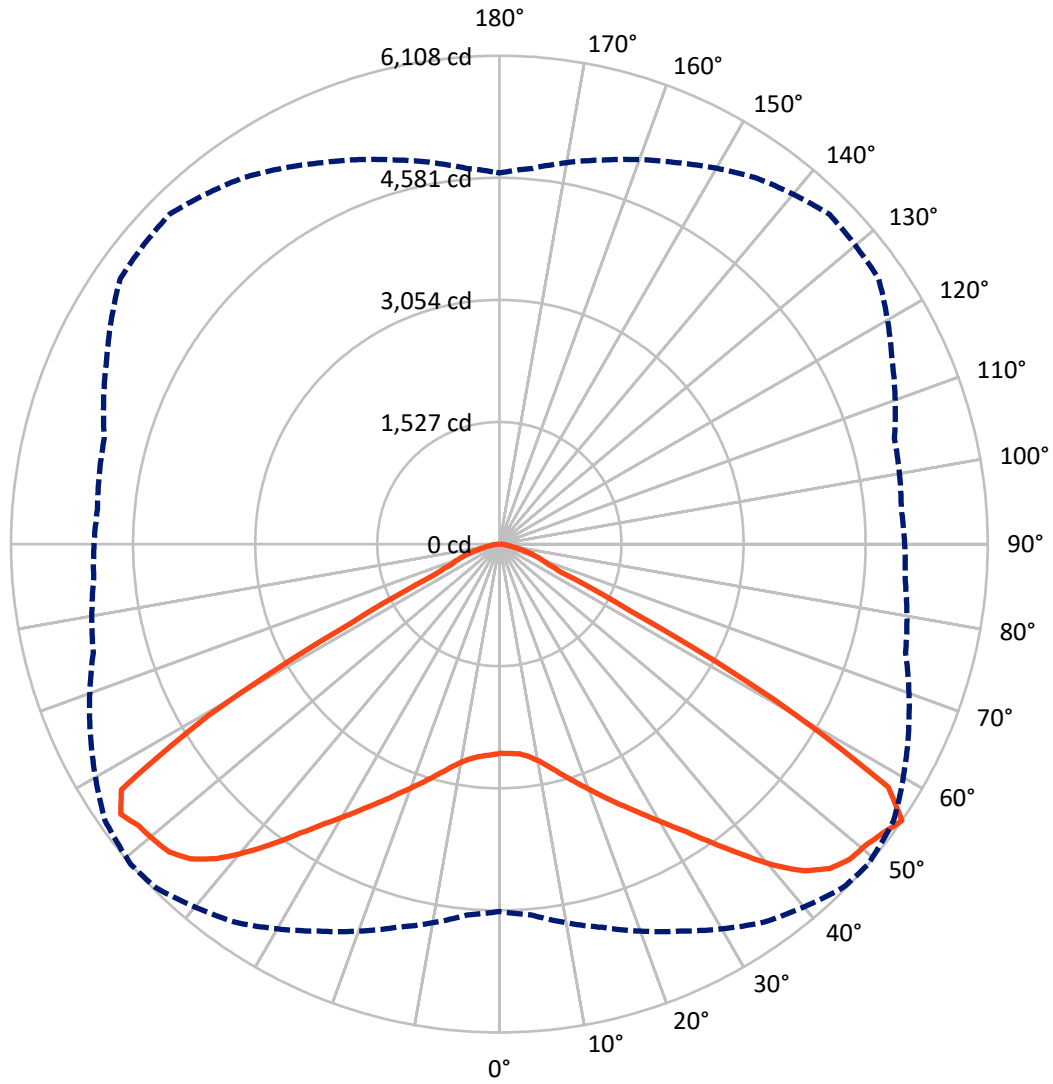
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7818.4	0.0	7818.4
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	7973.3	0.0	7973.3
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	15791.7	0.0	15791.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.2	1.6
10°-20°	841.7	5.3
20°-30°	1603.3	10.2
30°-40°	2717.8	17.2
40°-50°	4090.2	25.9
50°-60°	4477.1	28.4
60°-70°	1415.7	9.0
70°-80°	339.8	2.2
80°-90°	51.0	0.3
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°	15791.7	100.0
0°-180°	15791.7	100.0

**Coefficient of Utilization**



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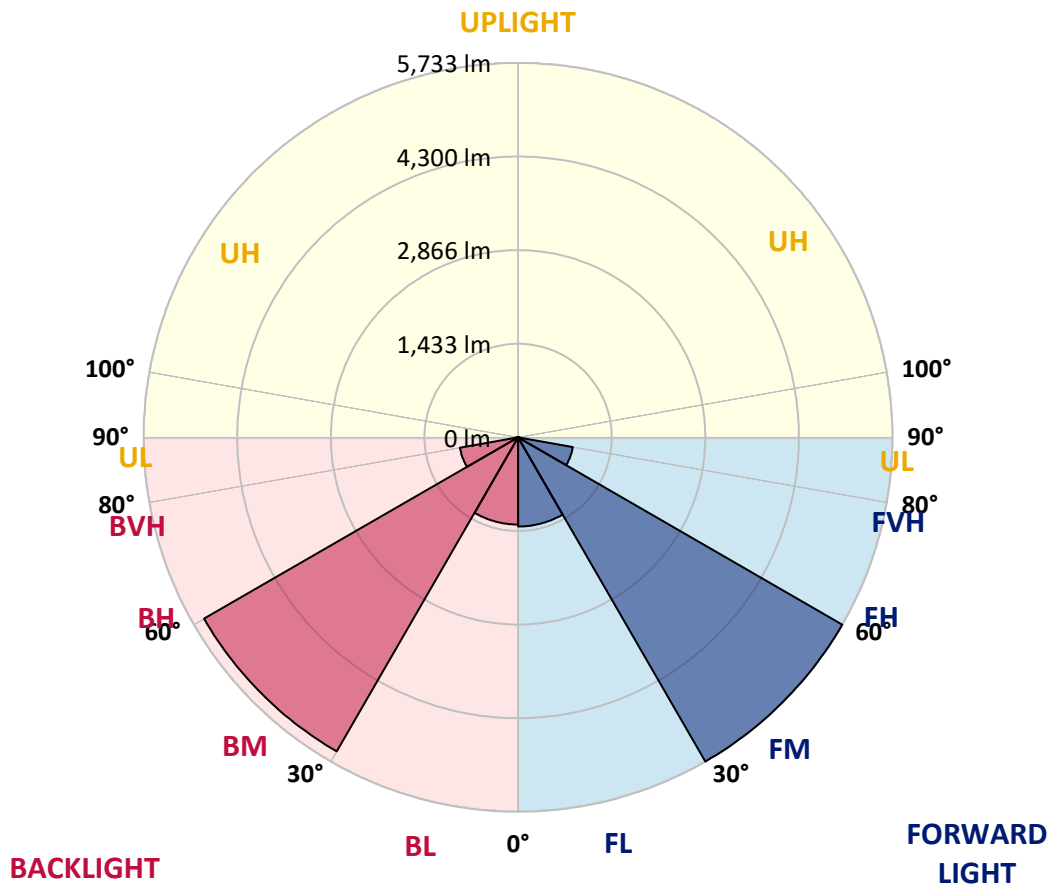
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.3	8.6			
FM (30°-60°)	5732.8	36.3			
FH (60°-80°)	851.5	5.4			G1/1800
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	1334.8	8.5	B3/2500		
BM (30°-60°)	5552.3	35.2	B4/8500		
BH (60°-80°)	903.9	5.7	B2/1000		G1/1800
BVH (80°-90°)	27.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0
2.5°	2577.5	2580.0	2585.2	2594.2	2603.1	2616.0	2621.1	2627.5	2626.3	2634.0	2634.0
5°	2564.6	2568.5	2576.2	2589.0	2604.4	2628.8	2635.3	2650.7	2666.1	2685.3	2691.8
7.5°	2580.0	2585.2	2594.2	2614.7	2637.8	2669.9	2682.8	2708.5	2738.0	2772.7	2786.8
10°	2609.6	2616.0	2631.4	2664.8	2702.0	2750.8	2762.4	2794.5	2842.0	2889.5	2917.8
12.5°	2643.0	2653.2	2681.5	2734.1	2789.4	2853.6	2871.6	2911.4	2962.7	3024.4	3062.9
15°	2681.5	2690.5	2734.1	2808.6	2894.7	2979.4	3000.0	3038.5	3096.3	3156.7	3210.6
17.5°	2762.4	2777.8	2829.2	2915.2	3015.4	3115.6	3138.7	3182.3	3228.6	3276.1	3327.5
20°	2872.8	2885.7	2951.2	3057.8	3175.9	3267.1	3290.2	3328.7	3350.6	3375.0	3418.6
22.5°	2983.3	3001.3	3075.7	3201.6	3340.3	3439.2	3457.2	3493.1	3477.7	3470.0	3498.3
25°	3120.7	3145.1	3218.3	3355.7	3497.0	3619.0	3633.1	3663.9	3638.2	3598.4	3597.1
27.5°	3291.5	3313.3	3389.1	3530.4	3670.3	3797.5	3824.5	3865.6	3809.0	3760.2	3725.6
30°	3494.4	3508.5	3592.0	3742.3	3886.1	4006.8	4041.5	4082.6	4040.2	3959.3	3924.6
32.5°	3730.7	3750.0	3846.3	4004.3	4132.7	4253.4	4288.1	4339.4	4293.2	4202.0	4158.4
35°	4014.5	4033.8	4135.2	4307.3	4438.3	4562.9	4587.3	4629.7	4571.9	4466.6	4431.9
37.5°	4322.7	4347.1	4475.6	4638.7	4776.1	4921.2	4922.5	4935.3	4853.1	4722.1	4683.6
40°	4669.5	4701.6	4830.0	4999.5	5165.2	5283.4	5282.1	5246.1	5107.4	4904.5	4845.4
42.5°	5012.4	5038.1	5167.8	5342.4	5508.1	5619.8	5586.4	5499.1	5298.8	5022.7	4944.3
45°	5260.2	5279.5	5415.6	5612.1	5780.4	5849.7	5789.3	5684.0	5413.1	5097.1	4981.6
47.5°	5377.1	5402.8	5540.2	5735.4	5925.5	5965.3	5893.4	5794.5	5479.8	5166.5	5011.1
50°	5314.2	5347.6	5503.0	5684.0	5898.5	5980.7	5929.3	5830.4	5550.5	5234.6	5063.7
52.5°	5151.1	5183.2	5379.7	5599.3	5842.0	6005.1	6003.8	5922.9	5631.4	5253.8	5066.3
55°	4593.7	4656.6	4962.3	5341.1	5772.6	6077.0	6107.8	6021.8	5644.2	5259.0	5093.3
57.5°	2989.7	3100.1	3390.4	3883.5	4749.1	5527.4	5735.4	5756.0	5551.8	5237.1	5098.4
60°	1248.3	1336.9	1566.8	1894.2	2609.6	3535.5	3938.8	4343.3	4831.3	5008.5	5050.9
62.5°	775.7	783.4	806.5	881.0	1119.9	1571.9	1831.3	2210.2	2935.8	3553.5	3838.6
65°	699.9	703.8	708.9	703.8	715.3	770.5	839.9	972.2	1267.5	1574.5	1939.2
67.5°	616.4	621.6	625.4	621.6	625.4	628.0	635.7	647.3	701.2	744.9	778.2
70°	498.3	506.0	512.4	509.8	525.3	525.3	533.0	541.9	568.9	601.0	624.1
72.5°	380.1	373.7	381.4	384.0	398.1	405.8	417.4	427.7	458.5	477.7	507.3
75°	246.6	240.2	251.7	258.1	277.4	287.7	297.9	308.2	330.0	342.9	371.1
77.5°	133.6	132.3	143.8	152.8	173.4	186.2	193.9	201.6	219.6	223.5	241.4
80°	77.1	77.1	84.8	91.2	104.0	118.1	125.9	132.3	145.1	149.0	156.7
82.5°	42.4	42.4	46.2	50.1	60.4	68.1	74.5	79.6	91.2	95.0	98.9
85°	20.5	19.3	21.8	24.4	28.3	32.1	36.0	38.5	47.5	50.1	55.2
87.5°	2.6	2.6	2.6	3.9	5.1	7.7	9.0	9.0	14.1	16.7	19.3
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°	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0	2616.0
2.5°	2641.7	2625.0	2635.3	2639.1	2639.1	2635.3	2618.6	2613.4	2605.7	2594.2	2594.2
5°	2700.8	2687.9	2690.5	2684.1	2668.6	2649.4	2618.6	2603.1	2590.3	2576.2	2574.9
7.5°	2802.2	2785.5	2782.9	2758.5	2717.4	2676.4	2630.1	2601.9	2582.6	2564.6	2563.3
10°	2934.5	2919.1	2899.8	2851.0	2790.6	2730.3	2667.4	2628.8	2600.6	2574.9	2573.6
12.5°	3082.2	3064.2	3028.2	2956.3	2880.5	2821.5	2749.6	2690.5	2648.1	2613.4	2607.0
15°	3242.7	3217.0	3155.4	3070.6	2996.1	2933.2	2856.1	2771.4	2707.2	2651.9	2645.5
17.5°	3366.0	3332.6	3265.8	3186.2	3124.5	3061.6	2961.5	2854.9	2762.4	2693.0	2682.8
20°	3450.7	3423.8	3348.0	3288.9	3253.0	3197.8	3080.9	2960.2	2856.1	2768.8	2763.7
22.5°	3529.1	3497.0	3422.5	3387.8	3387.8	3350.6	3238.8	3096.3	2974.3	2872.8	2860.0
25°	3617.7	3583.0	3526.5	3522.7	3540.6	3523.9	3389.1	3236.3	3093.7	2979.4	2958.9
27.5°	3741.0	3702.5	3669.1	3692.2	3717.9	3699.9	3549.6	3372.4	3222.2	3106.6	3088.6
30°	3937.5	3890.0	3859.1	3887.4	3937.5	3884.8	3721.7	3534.2	3382.7	3255.5	3246.6
32.5°	4166.1	4112.1	4080.0	4125.0	4169.9	4087.7	3925.9	3746.1	3586.9	3453.3	3437.9
35°	4440.9	4372.8	4325.3	4385.7	4431.9	4351.0	4190.5	4019.7	3842.4	3703.7	3683.2
37.5°	4684.9	4602.7	4570.6	4655.4	4717.0	4664.3	4489.7	4329.2	4135.2	3983.7	3974.7
40°	4862.1	4781.2	4758.1	4898.1	5006.0	4993.1	4836.4	4652.8	4470.4	4295.8	4279.1
42.5°	4939.2	4882.7	4887.8	5076.6	5243.5	5325.7	5185.7	4989.3	4813.3	4632.2	4620.7
45°	4955.9	4921.2	4962.3	5198.6	5418.2	5586.4	5467.0	5302.6	5103.6	4928.9	4923.8
47.5°	4973.9	4954.6	5017.5	5267.9	5528.6	5723.8	5657.1	5487.5	5285.9	5115.1	5102.3
50°	5016.2	5008.5	5079.2	5316.7	5581.3	5761.1	5685.3	5517.1	5310.3	5142.1	5111.3
52.5°	5029.1	5016.2	5117.7	5392.5	5668.6	5759.8	5596.7	5377.1	5169.1	4981.6	4949.4
55°	5068.9	5045.8	5115.1	5420.8	5789.3	5834.3	5591.6	5262.8	4972.6	4717.0	4641.2
57.5°	5079.2	5053.5	5098.4	5374.5	5658.3	5618.5	4914.8	4247.0	3699.9	3416.1	3448.2
60°	5023.9	5031.6	4954.6	4923.8	4538.5	4006.8	3009.0	2405.4	1889.1	1670.8	1718.3
62.5°	3824.5	3856.6	3593.3	3124.5	2402.8	1904.5	1259.8	978.6	828.3	789.8	796.2
65°	1930.2	1973.9	1700.3	1406.2	1045.4	845.0	730.7	707.6	699.9	690.9	690.9
67.5°	764.1	777.0	766.7	717.9	667.8	649.8	644.7	642.1	633.1	628.0	629.3
70°	613.9	624.1	608.7	577.9	557.4	556.1	553.5	548.4	541.9	541.9	545.8
72.5°	500.9	511.1	489.3	470.0	454.6	443.1	436.6	432.8	423.8	423.8	427.7
75°	368.6	375.0	357.0	354.4	337.8	326.2	315.9	310.8	299.2	294.1	297.9
77.5°	245.3	244.0	235.0	235.0	228.6	214.5	202.9	191.4	175.9	165.7	168.2
80°	159.2	159.2	155.4	155.4	149.0	137.4	123.3	111.7	102.7	95.0	95.0
82.5°	101.5	100.2	98.9	97.6	95.0	83.5	73.2	65.5	59.1	53.9	55.2
85°	56.5	56.5	53.9	53.9	48.8	42.4	37.2	32.1	28.3	27.0	27.0
87.5°	19.3	19.3	18.0	18.0	15.4	11.6	9.0	7.7	6.4	5.1	6.4
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)