

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P191891

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-03-LED-E1-SL2-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17803 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

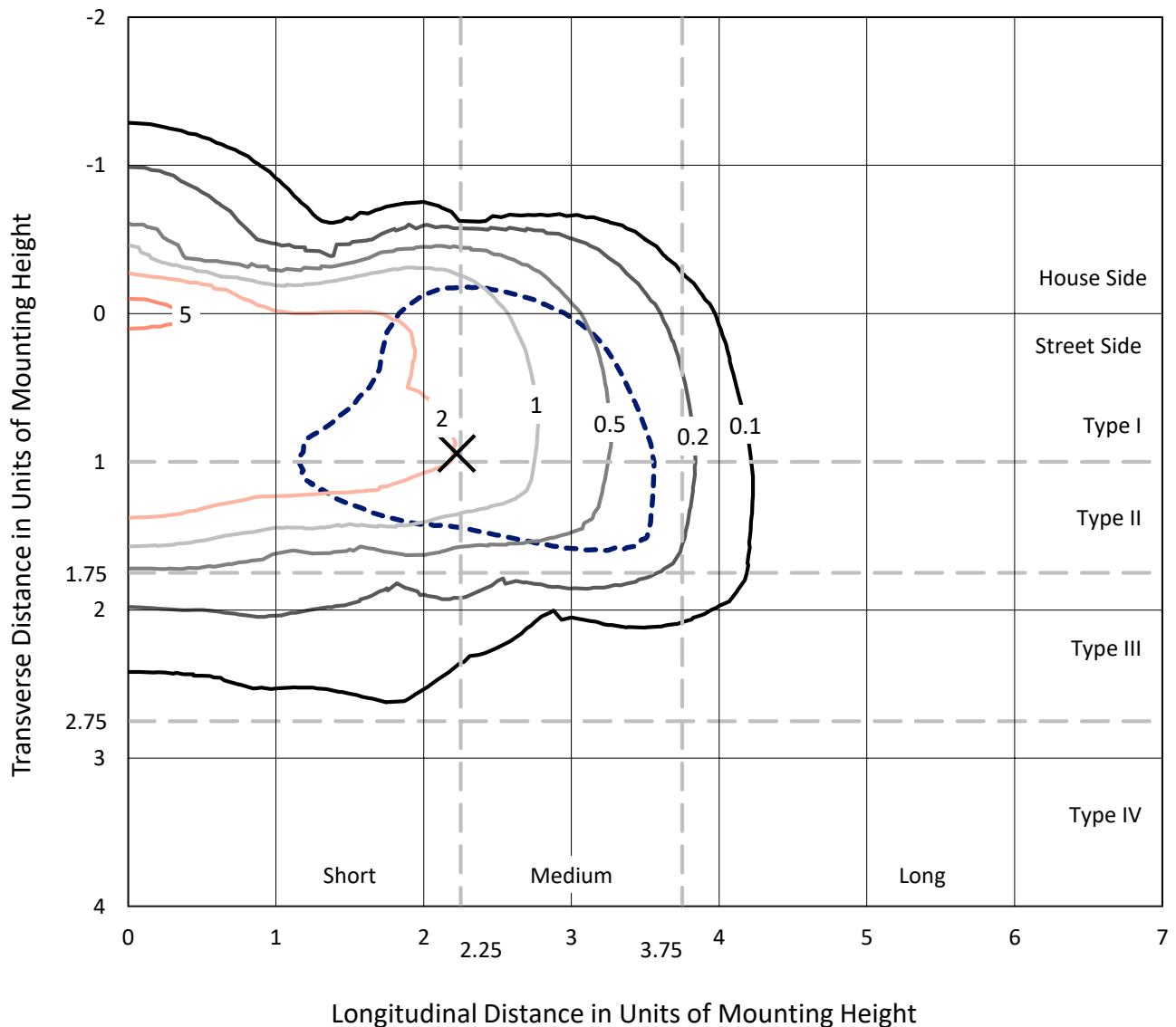
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

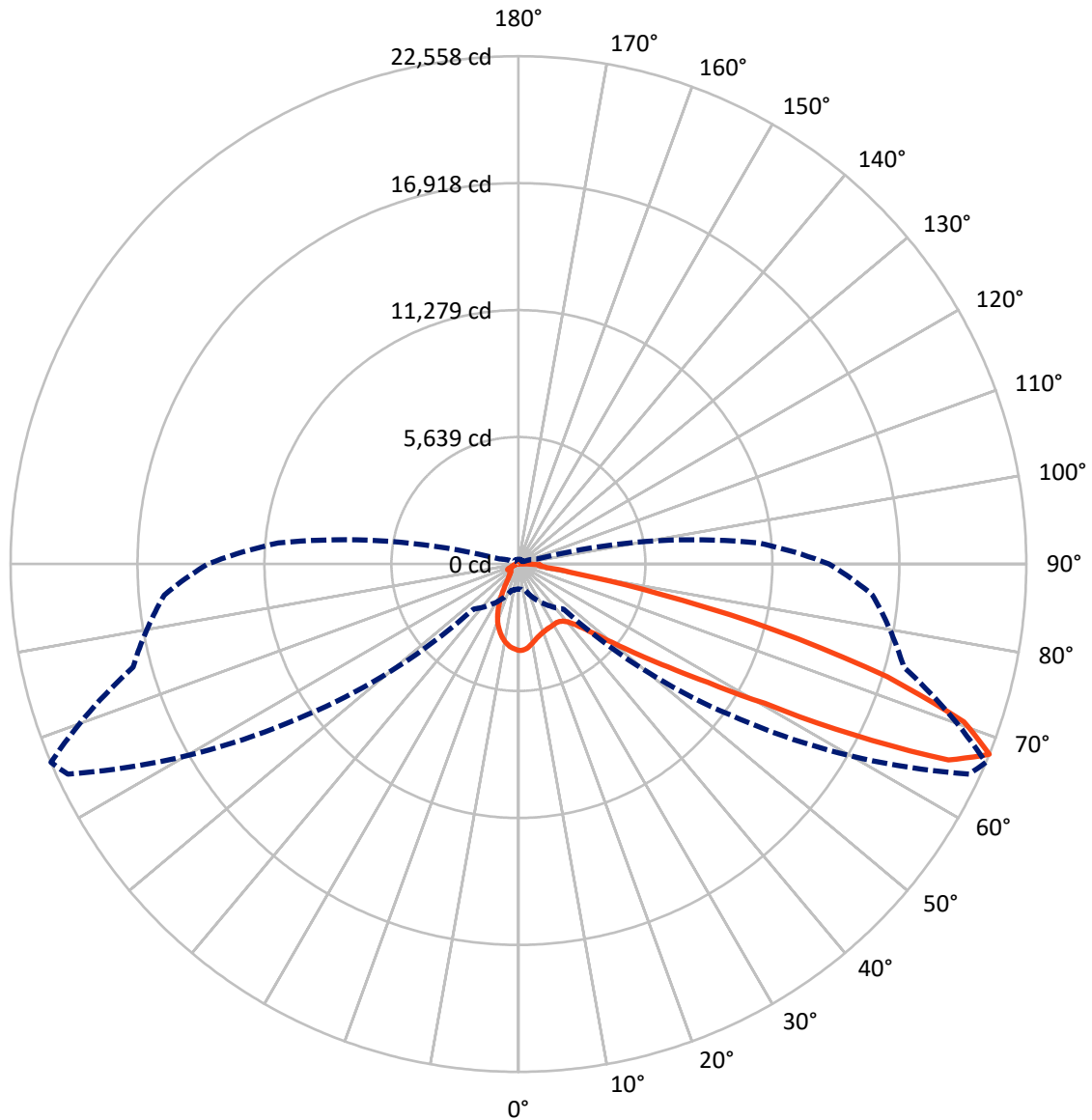
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2949.8	0.0	2949.8
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	14853.2	0.0	14853.2
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	17803.0	0.0	17803.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.6	1.8
10°-20°	758.0	4.3
20°-30°	1027.5	5.8
30°-40°	1460.8	8.2
40°-50°	2443.9	13.7
50°-60°	3866.3	21.7
60°-70°	4925.2	27.7
70°-80°	2579.8	14.5
80°-90°	413.8	2.3
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°	17803.0	100.0
0°-180°	17803.0	100.0

**Coefficient of Utilization**



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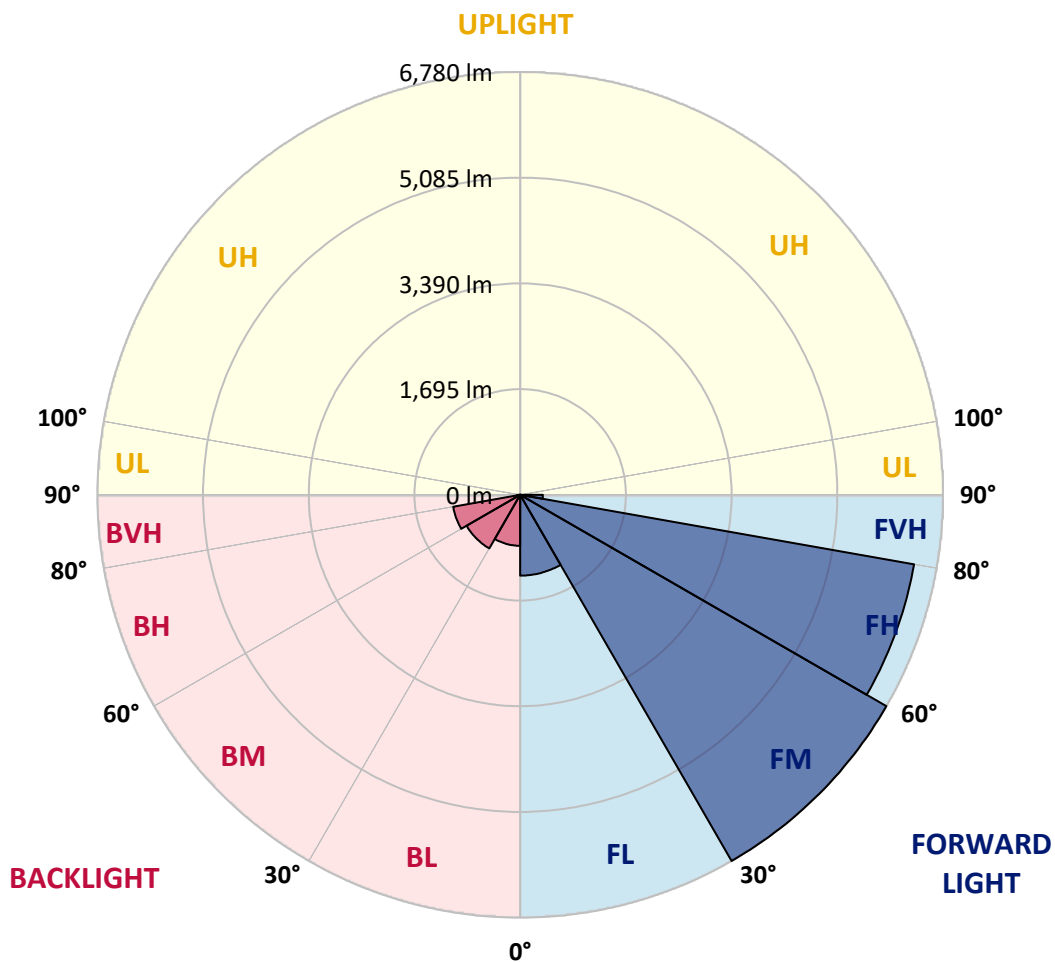
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1295.6	7.3			
FM	(30°-60°)	6779.8	38.1			
FH	(60°-80°)	6414.0	36.0			G3/7500
FVH	(80°-90°)	363.8	2.0			G3/500
BL	(0°-30°)	817.6	4.6	B2/1000		
BM	(30°-60°)	991.2	5.6	B1/1000		
BH	(60°-80°)	1091.0	6.1	B3/2500		G3/2500
BVH	(80°-90°)	49.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1
2.5°	3682.0	3688.2	3707.5	3719.8	3775.1	3798.8	3815.5	3832.2	3834.8	3842.7	3834.8
5°	3295.7	3308.9	3344.9	3385.3	3492.4	3576.7	3665.4	3757.5	3774.2	3833.9	3850.6
7.5°	2996.4	2992.9	3022.7	3071.0	3180.7	3297.5	3452.9	3636.4	3672.4	3806.7	3871.7
10°	2777.8	2775.1	2806.7	2856.8	2961.3	3071.9	3247.5	3498.5	3549.5	3763.7	3891.9
12.5°	2616.2	2617.1	2648.7	2704.0	2810.3	2921.7	3100.0	3365.1	3430.1	3713.6	3912.9
15°	2509.1	2516.1	2541.6	2600.4	2704.0	2815.5	2990.2	3265.0	3337.9	3674.1	3936.6
17.5°	2473.1	2484.5	2493.3	2536.3	2625.0	2736.5	2907.7	3191.3	3268.5	3646.9	3957.7
20°	2506.5	2519.7	2503.0	2517.9	2574.1	2672.4	2842.7	3133.3	3212.3	3616.2	3960.3
22.5°	2649.6	2661.9	2612.7	2569.7	2566.2	2625.9	2789.2	3087.7	3169.3	3593.4	3961.2
25°	2901.6	2909.5	2826.9	2726.8	2629.4	2609.2	2751.4	3056.1	3143.0	3573.2	3944.5
27.5°	3210.6	3216.7	3121.9	2974.4	2778.6	2648.7	2738.3	3037.6	3128.1	3555.6	3916.4
30°	3586.3	3615.3	3488.0	3301.9	3016.6	2765.5	2764.6	3028.0	3111.4	3525.8	3861.1
32.5°	3970.9	3983.2	3895.4	3706.6	3337.0	2970.9	2838.3	3035.0	3107.0	3489.8	3790.9
35°	4360.7	4376.5	4319.4	4167.5	3775.1	3272.0	2982.3	3076.3	3134.2	3477.5	3741.7
37.5°	4865.5	4886.6	4807.5	4632.0	4308.0	3680.3	3222.0	3179.9	3217.6	3512.6	3726.8
40°	5663.5	5653.9	5423.0	5161.3	4890.9	4202.6	3564.4	3355.4	3377.4	3625.8	3772.5
42.5°	6592.4	6568.7	6171.0	5760.1	5531.8	4834.8	4017.4	3660.1	3655.7	3848.8	3933.1
45°	7333.3	7314.0	6955.8	6449.3	6266.7	5554.7	4603.0	4114.0	4081.5	4202.6	4229.9
47.5°	7734.6	7735.4	7529.1	7115.6	7111.2	6469.5	5355.4	4770.7	4714.5	4771.5	4742.6
50°	7594.1	7612.5	7590.6	7458.9	7882.1	7668.7	6337.8	5686.3	5573.1	5629.3	5517.8
52.5°	6914.6	6938.3	7068.2	7270.1	8206.0	9118.2	7781.1	6824.1	6692.5	6672.3	6548.5
55°	5710.1	5739.0	6004.2	6552.9	7936.5	10091.8	10058.4	8274.5	8064.7	7874.1	7821.5
57.5°	3935.8	3984.0	4410.7	5225.4	7064.7	10385.9	12770.4	10342.0	9915.3	9249.9	9262.2
60°	2218.5	2274.7	2777.8	3517.9	5305.3	10066.3	14833.5	13473.6	12572.8	10860.9	10952.2
62.5°	1410.8	1471.4	1853.3	2444.2	3183.4	8345.6	15678.9	17827.2	16683.3	12846.7	12936.3
65°	1142.2	1168.5	1348.5	2017.5	2311.6	5027.9	15037.2	21413.6	20986.9	15367.3	14949.4
67.5°	1115.0	1123.7	1216.8	1693.5	2216.8	2826.1	11994.3	22084.3	22557.5	17721.0	15787.8
70°	1101.8	1132.5	1371.3	1616.3	2122.8	2383.6	7207.8	20245.9	20993.0	18336.4	14672.0
72.5°	534.7	532.9	690.1	1461.8	2391.5	2472.2	3703.1	16381.3	17131.0	15886.1	12056.6
75°	431.1	394.2	376.6	535.5	2299.3	2553.0	2359.9	11271.7	11814.3	10651.0	7411.5
77.5°	409.1	365.2	334.5	335.4	971.9	2707.5	1999.0	6238.6	6396.6	4811.1	2030.7
80°	338.9	298.5	276.5	311.7	470.6	2578.5	2161.5	2823.4	2590.8	1181.7	676.0
82.5°	235.3	214.2	208.1	261.6	376.6	1837.5	2513.5	1517.1	1272.1	591.7	417.0
85°	150.1	128.2	142.2	190.5	293.2	848.1	2589.0	1182.6	940.3	375.8	235.3
87.5°	69.4	56.2	70.2	105.4	191.4	292.4	2463.5	1328.3	968.4	198.4	148.4
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°	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1	3840.1
2.5°	3841.8	3825.1	3812.0	3787.4	3760.2	3733.8	3710.1	3680.3	3671.5	3663.6	3675.9
5°	3854.1	3837.4	3789.1	3713.6	3630.2	3552.1	3474.0	3407.2	3366.0	3343.2	3356.3
7.5°	3872.5	3848.8	3748.8	3610.0	3459.9	3323.0	3181.6	3068.4	2985.0	2945.5	2956.9
10°	3889.2	3843.6	3680.3	3472.2	3252.7	3049.0	2826.1	2641.7	2504.7	2432.7	2450.3
12.5°	3896.3	3823.4	3584.6	3300.1	2999.0	2700.5	2372.2	2096.5	1899.8	1827.8	1812.9
15°	3903.3	3800.6	3479.2	3104.4	2692.6	2270.3	1810.3	1480.2	1316.9	1280.9	1273.0
17.5°	3905.0	3761.0	3359.8	2891.9	2333.5	1758.5	1237.9	1028.1	1028.9	1086.9	1093.9
20°	3886.6	3702.2	3215.0	2627.6	1903.4	1215.9	849.8	813.8	946.4	1091.3	1108.8
22.5°	3844.5	3624.1	3050.8	2319.5	1410.8	800.7	657.6	697.1	868.3	1045.6	1065.8
25°	3790.9	3529.3	2856.8	1962.2	934.1	572.4	551.3	599.6	715.5	834.0	845.4
27.5°	3718.0	3416.9	2639.1	1553.1	606.6	471.4	485.5	518.0	565.4	618.1	623.3
30°	3624.1	3282.6	2406.4	1132.5	458.3	424.0	444.2	461.8	482.0	511.8	514.5
32.5°	3516.1	3153.5	2167.6	782.2	406.5	399.5	415.3	424.0	439.8	458.3	460.0
35°	3425.7	3030.6	1920.0	553.1	384.5	381.0	391.6	395.1	410.0	430.2	431.9
37.5°	3373.9	2930.5	1664.6	446.0	369.6	364.3	370.5	370.5	391.6	421.4	425.8
40°	3377.4	2875.2	1409.1	403.0	357.3	350.3	351.2	351.2	378.4	410.9	413.5
42.5°	3473.1	2889.3	1182.6	386.3	347.7	339.8	335.4	338.0	360.8	381.9	383.7
45°	3697.8	2988.5	970.1	375.8	338.0	335.4	325.7	324.8	333.6	343.3	343.3
47.5°	4066.6	3184.3	826.1	368.7	330.1	329.2	317.8	306.4	305.5	309.0	309.0
50°	4666.2	3521.4	729.6	360.8	324.8	317.8	304.6	287.1	280.9	283.6	283.6
52.5°	5565.2	4122.8	692.7	350.3	313.4	302.0	287.1	269.5	264.3	265.1	265.1
55°	6744.3	5046.3	687.4	338.0	301.1	282.7	270.4	257.2	251.1	252.8	252.8
57.5°	8184.9	6323.7	781.4	318.7	284.4	263.4	256.4	247.6	243.2	245.8	244.9
60°	9936.4	7995.3	1158.9	298.5	267.8	245.8	245.8	238.8	235.3	237.9	237.0
62.5°	11953.9	9915.3	1629.4	283.6	250.2	231.8	235.3	231.8	228.3	230.0	229.1
65°	13743.1	11166.4	1525.8	272.2	232.7	218.6	224.7	223.0	220.4	222.1	221.2
67.5°	13794.9	10702.8	856.9	259.9	216.0	205.4	214.2	213.3	211.6	213.3	212.5
70°	12311.2	9037.4	482.9	237.0	198.4	189.6	201.9	201.0	199.3	202.8	201.9
72.5°	9863.5	6558.1	352.9	208.9	180.9	173.0	187.0	186.1	186.1	191.4	188.8
75°	5675.8	3374.8	281.8	179.1	162.4	156.3	168.6	169.4	171.2	178.2	173.0
77.5°	1618.0	1051.8	230.0	151.9	139.6	137.0	149.2	151.0	151.9	159.8	152.8
80°	601.4	484.6	189.6	127.3	114.1	115.0	126.4	129.1	129.9	137.8	129.1
82.5°	383.7	319.6	153.6	98.3	89.5	88.7	102.7	106.2	106.2	107.1	101.8
85°	223.9	191.4	115.9	71.1	63.2	60.6	76.4	82.5	79.9	78.1	74.6
87.5°	150.1	131.7	71.1	39.5	34.2	32.5	44.8	49.2	47.4	44.8	42.1
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)