

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: P192636

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5WQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48598.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 445
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

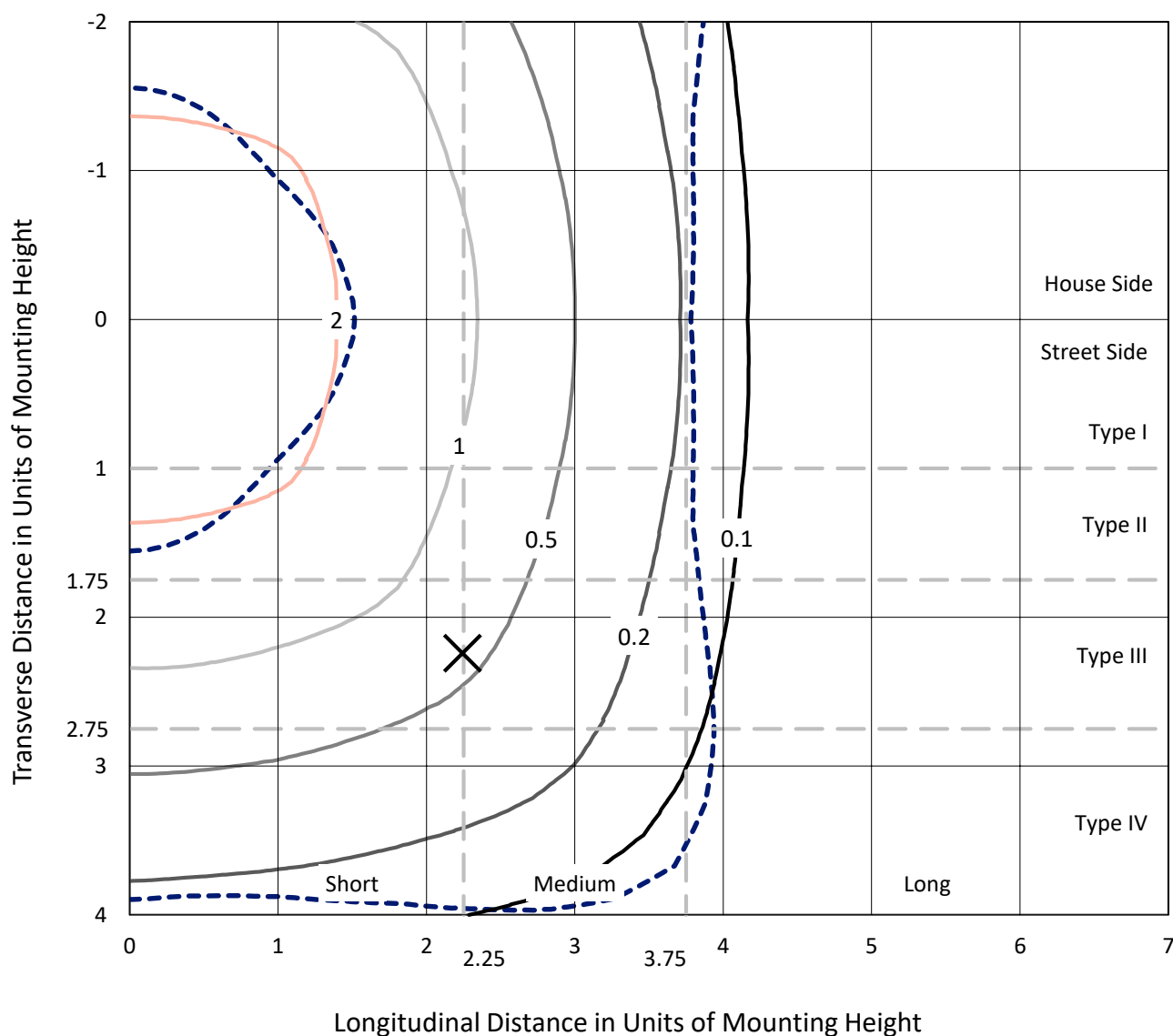


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

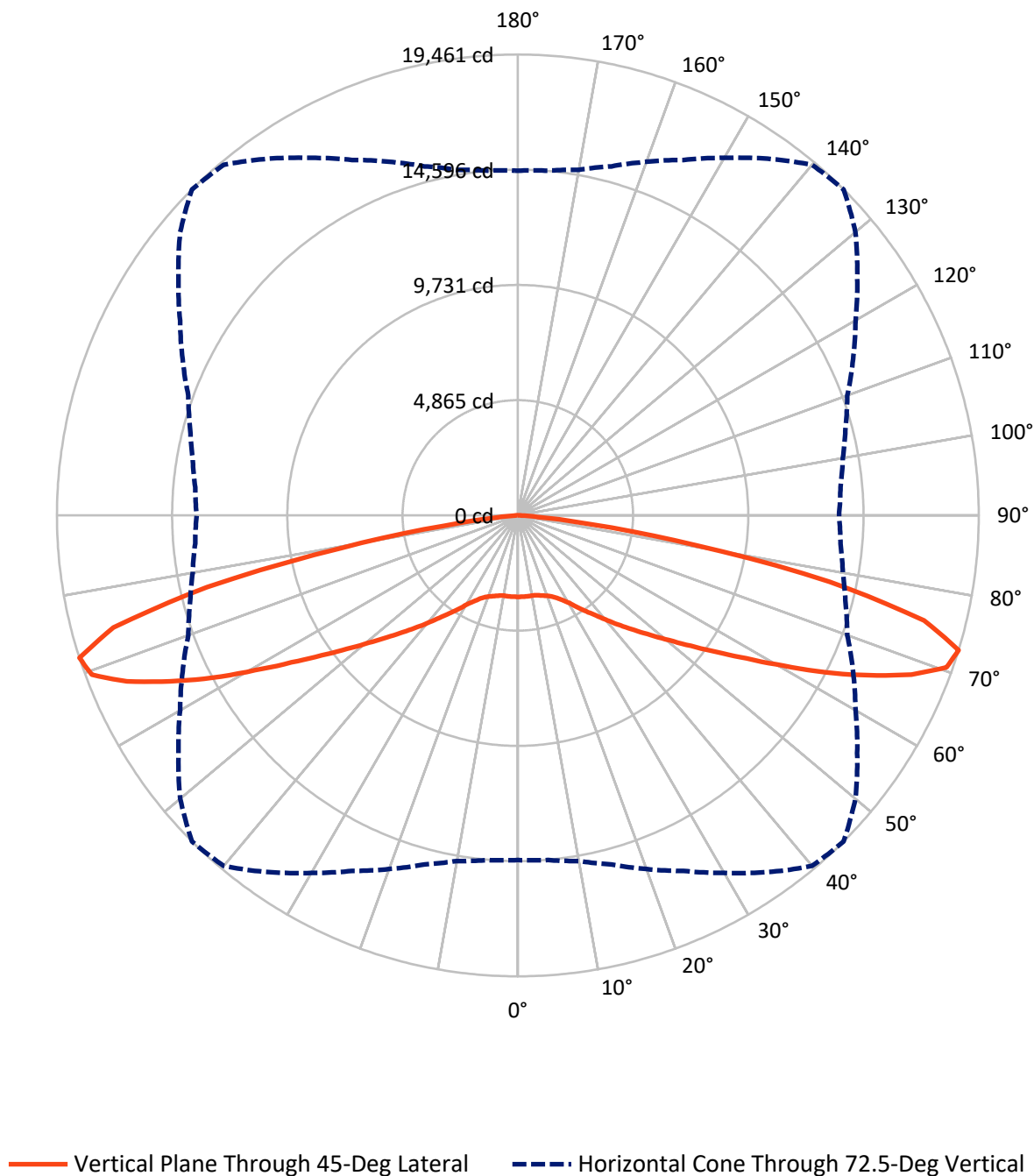


Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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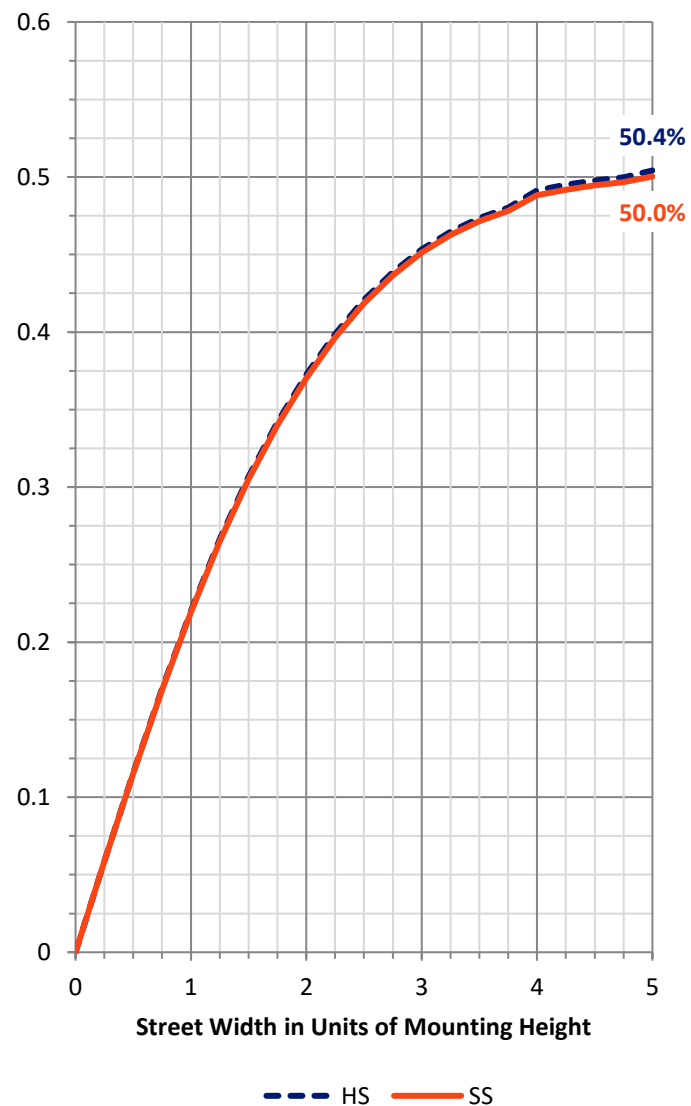
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24299.3	0.0	24299.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24299.3	0.0	24299.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	48598.5	0.0	48598.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	0.7
10°-20°	998.1	2.1
20°-30°	1823.9	3.8
30°-40°	3144.7	6.5
40°-50°	5375.8	11.1
50°-60°	8713.5	17.9
60°-70°	14455.5	29.7
70°-80°	12731.9	26.2
80°-90°	1026.5	2.1
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°	48598.5	100.0
0°-180°	48598.5	100.0

Coefficient of Utilization



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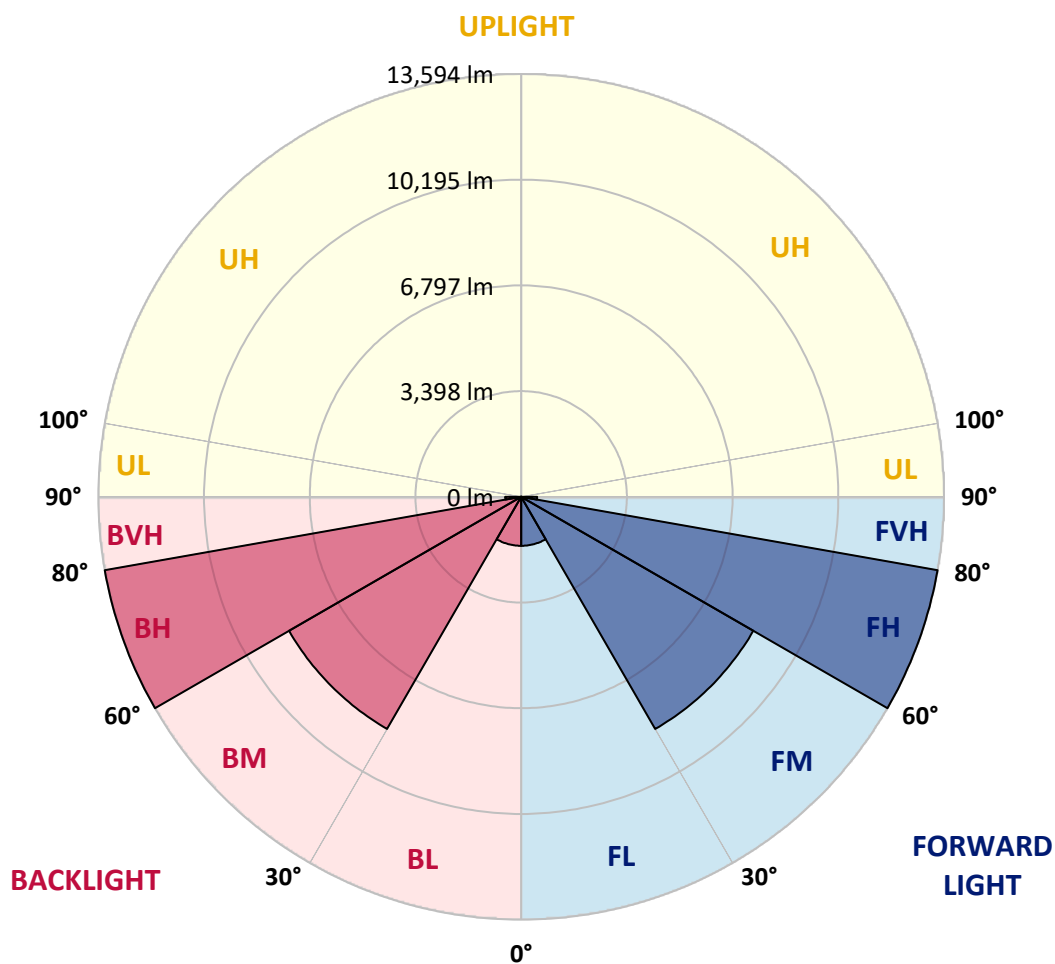
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.3	3.2			
FM	(30°-60°)	8617.0	17.7			
FH	(60°-80°)	13593.7	28.0			G5
FVH	(80°-90°)	513.3	1.1			G4/750
BL	(0°-30°)	1575.3	3.2	B3/2500		
BM	(30°-60°)	8617.0	17.7	B5		
BH	(60°-80°)	13593.7	28.0	B5		G5
BVH	(80°-90°)	513.3	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5
2.5°	3441.5	3443.8	3446.0	3443.8	3443.8	3441.5	3439.3	3441.5	3439.3	3434.9	3437.1
5°	3452.7	3457.2	3457.2	3452.7	3454.9	3452.7	3448.2	3450.4	3446.0	3439.3	3439.3
7.5°	3466.0	3468.3	3468.3	3463.8	3466.0	3461.6	3457.2	3454.9	3450.4	3441.5	3434.9
10°	3486.1	3488.3	3486.1	3481.6	3481.6	3475.0	3463.8	3459.3	3450.4	3437.1	3430.4
12.5°	3508.5	3510.6	3508.5	3504.0	3501.8	3490.7	3481.6	3475.0	3468.3	3457.2	3446.0
15°	3539.6	3544.1	3539.6	3530.7	3524.0	3515.1	3510.6	3512.9	3515.1	3506.1	3494.9
17.5°	3597.6	3599.8	3593.1	3573.0	3564.1	3555.2	3555.2	3559.6	3566.3	3561.9	3550.7
20°	3704.6	3697.9	3682.2	3657.8	3646.6	3631.0	3628.7	3631.0	3631.0	3628.7	3619.9
22.5°	3838.3	3833.8	3813.8	3782.5	3766.9	3758.1	3744.7	3733.5	3731.3	3724.6	3715.7
25°	3998.8	3996.6	3972.0	3945.3	3934.1	3923.0	3911.8	3896.3	3882.8	3867.2	3858.4
27.5°	4203.9	4194.9	4159.3	4145.9	4130.3	4123.6	4108.0	4090.1	4078.9	4059.0	4047.8
30°	4429.0	4429.0	4400.0	4395.5	4395.5	4379.8	4362.0	4330.9	4310.9	4290.7	4284.0
32.5°	4654.1	4656.3	4627.3	4636.3	4643.0	4654.1	4658.6	4647.5	4634.0	4631.8	4618.4
35°	4979.5	4970.6	4941.6	4948.4	4946.0	4943.9	4943.9	4968.3	4972.8	4977.3	4950.5
37.5°	5382.9	5382.9	5354.0	5354.0	5340.6	5327.3	5309.5	5325.0	5349.6	5356.2	5338.4
40°	5844.4	5860.0	5824.3	5822.1	5826.6	5784.1	5764.1	5788.7	5804.3	5830.9	5811.0
42.5°	6388.3	6377.1	6341.4	6336.9	6312.5	6299.2	6281.2	6301.3	6325.8	6343.7	6350.3
45°	6909.8	6901.0	6860.7	6860.7	6836.3	6825.1	6834.0	6867.5	6878.6	6903.1	6927.7
47.5°	7424.7	7413.6	7386.8	7398.0	7400.1	7420.3	7449.2	7480.4	7511.7	7545.1	7556.3
50°	7950.7	7953.0	7924.0	7950.7	7984.1	8039.9	8118.0	8169.2	8233.8	8276.2	8289.5
52.5°	8430.0	8438.8	8470.1	8532.5	8599.4	8708.6	8842.4	8967.1	9074.1	9145.4	9140.9
55°	9005.0	9018.4	9094.2	9201.2	9310.4	9475.4	9673.7	9894.4	10072.7	10175.2	10110.7
57.5°	9740.6	9769.5	9854.3	9999.2	10161.8	10375.8	10647.8	10979.9	11256.3	11394.5	11289.8
60°	10750.3	10768.1	10870.6	11031.2	11227.4	11492.6	11855.9	12301.7	12691.8	12874.6	12754.2
62.5°	12081.1	12114.4	12196.9	12359.6	12560.2	12861.1	13304.7	13861.9	14347.9	14602.0	14330.0
65°	13670.3	13777.3	13846.3	14011.3	14198.6	14517.3	14980.9	15578.3	16099.9	16267.1	15952.7
67.5°	15244.0	15337.6	15457.9	15647.3	15836.8	16195.7	16625.9	17205.4	17778.2	17929.9	17441.7
70°	15932.7	15986.2	16173.4	16431.9	16795.4	17218.8	17715.9	18366.7	19075.6	19200.3	18580.7
72.5°	14552.9	14606.5	14816.0	15255.1	15888.2	16561.3	17428.3	18384.5	19320.8	19461.1	18607.4
75°	11006.7	10919.7	11229.5	11811.4	12665.0	13603.5	14816.0	16186.8	17539.7	17715.9	16697.2
77.5°	5688.4	5677.2	5911.3	6633.4	7652.1	8719.8	10054.9	11604.0	12928.0	13462.9	12633.7
80°	1602.7	1620.5	1731.9	2090.7	2685.9	3457.2	4500.3	5951.4	7034.6	7587.4	7123.8
82.5°	628.6	677.6	719.9	786.7	864.8	978.5	1306.2	1943.6	2607.9	3116.1	2552.2
85°	225.1	240.7	341.0	403.5	410.2	432.4	492.6	575.0	693.2	827.0	679.8
87.5°	84.6	93.6	109.3	180.5	178.3	162.7	198.5	207.3	156.0	142.7	176.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5	3441.5
2.5°	3432.6	3434.9	3434.9	3437.1	3439.3	3439.3	3443.8	3443.8
5°	3434.9	3434.9	3430.4	3432.6	3430.4	3430.4	3432.6	3432.6
7.5°	3430.4	3428.1	3423.7	3421.5	3417.0	3417.0	3417.0	3417.0
10°	3423.7	3421.5	3417.0	3414.8	3412.6	3412.6	3412.6	3412.6
12.5°	3441.5	3434.9	3430.4	3428.1	3428.1	3428.1	3428.1	3428.1
15°	3488.3	3472.7	3461.6	3461.6	3463.8	3468.3	3468.3	3472.7
17.5°	3546.3	3528.4	3517.3	3508.5	3512.9	3519.6	3524.0	3528.4
20°	3615.4	3606.4	3591.0	3581.9	3581.9	3591.0	3595.2	3597.6
22.5°	3711.2	3704.6	3697.9	3686.7	3686.7	3691.3	3700.1	3700.1
25°	3853.9	3849.4	3845.0	3836.1	3833.8	3833.8	3838.3	3842.7
27.5°	4032.2	4034.4	4030.0	4027.8	4021.1	4018.9	4025.5	4023.3
30°	4270.7	4281.9	4293.1	4284.0	4272.9	4266.2	4259.6	4250.6
32.5°	4594.0	4580.5	4571.6	4556.0	4536.0	4518.1	4504.8	4489.1
35°	4899.3	4877.0	4868.0	4881.4	4879.2	4868.0	4852.4	4839.1
37.5°	5273.7	5269.2	5273.7	5298.3	5293.8	5305.0	5273.7	5271.5
40°	5746.3	5750.8	5782.0	5811.0	5826.6	5842.1	5824.3	5806.5
42.5°	6294.7	6292.3	6303.5	6343.7	6370.4	6388.3	6350.3	6345.9
45°	6874.1	6858.5	6867.5	6901.0	6927.7	6947.7	6905.4	6905.4
47.5°	7511.7	7485.0	7455.9	7493.8	7509.4	7522.8	7489.4	7478.1
50°	8222.7	8166.9	8104.6	8120.1	8120.1	8115.7	8073.2	8071.1
52.5°	9038.5	8936.0	8822.2	8780.0	8755.4	8728.6	8655.1	8619.5
55°	9976.9	9823.1	9644.8	9535.5	9477.5	9404.1	9281.5	9248.0
57.5°	11073.5	10832.8	10525.2	10391.4	10262.1	10141.8	10005.9	9967.9
60°	12373.1	12018.6	11610.7	11363.3	11222.9	11107.0	10966.6	10959.8
62.5°	13821.9	13262.3	12801.0	12578.0	12475.6	12373.1	12239.2	12257.1
65°	15295.2	14711.2	14278.8	14098.3	14002.3	13917.7	13783.9	13804.1
67.5°	16748.5	16211.4	15736.5	15551.5	15444.6	15337.6	15217.2	15237.2
70°	17791.7	17125.2	16590.3	16180.1	15923.8	15634.0	15446.7	15400.0
72.5°	17493.0	16465.4	15616.2	14802.6	14325.6	13937.7	13674.8	13561.0
75°	15139.2	13734.9	12642.7	11644.1	11082.5	10625.5	10293.5	10086.0
77.5°	11242.9	9664.8	8374.2	7224.1	6314.6	5704.0	5273.7	4995.2
80°	6154.1	4680.8	3421.5	2405.1	1767.6	1468.9	1297.2	1214.8
82.5°	1917.0	1237.1	911.7	786.7	731.1	700.0	648.7	566.2
85°	610.8	535.0	497.0	474.7	452.5	394.5	271.9	247.4
87.5°	236.2	243.0	240.7	227.4	231.8	167.1	133.8	118.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)