

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: P192602

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26279 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 258
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

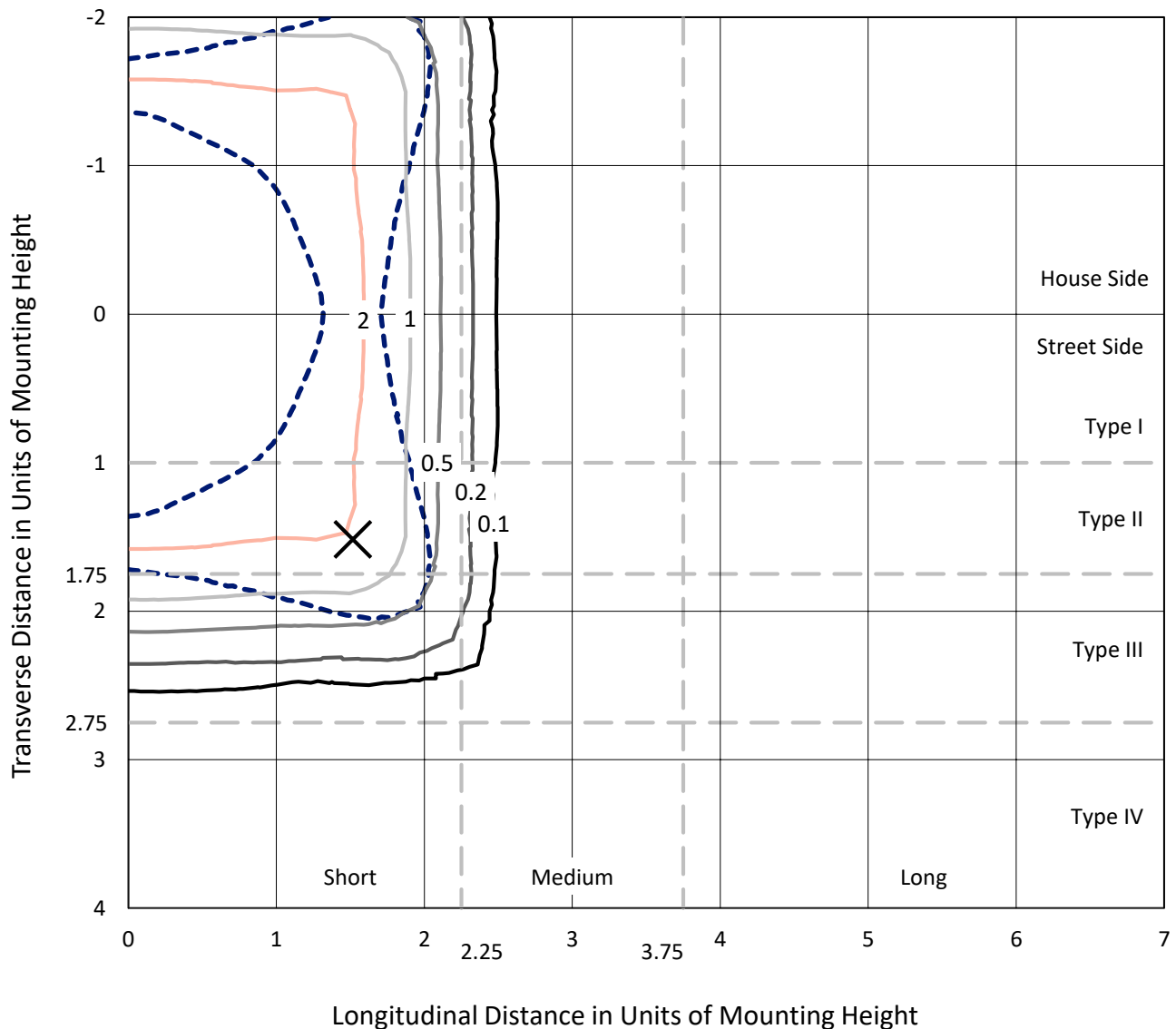


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

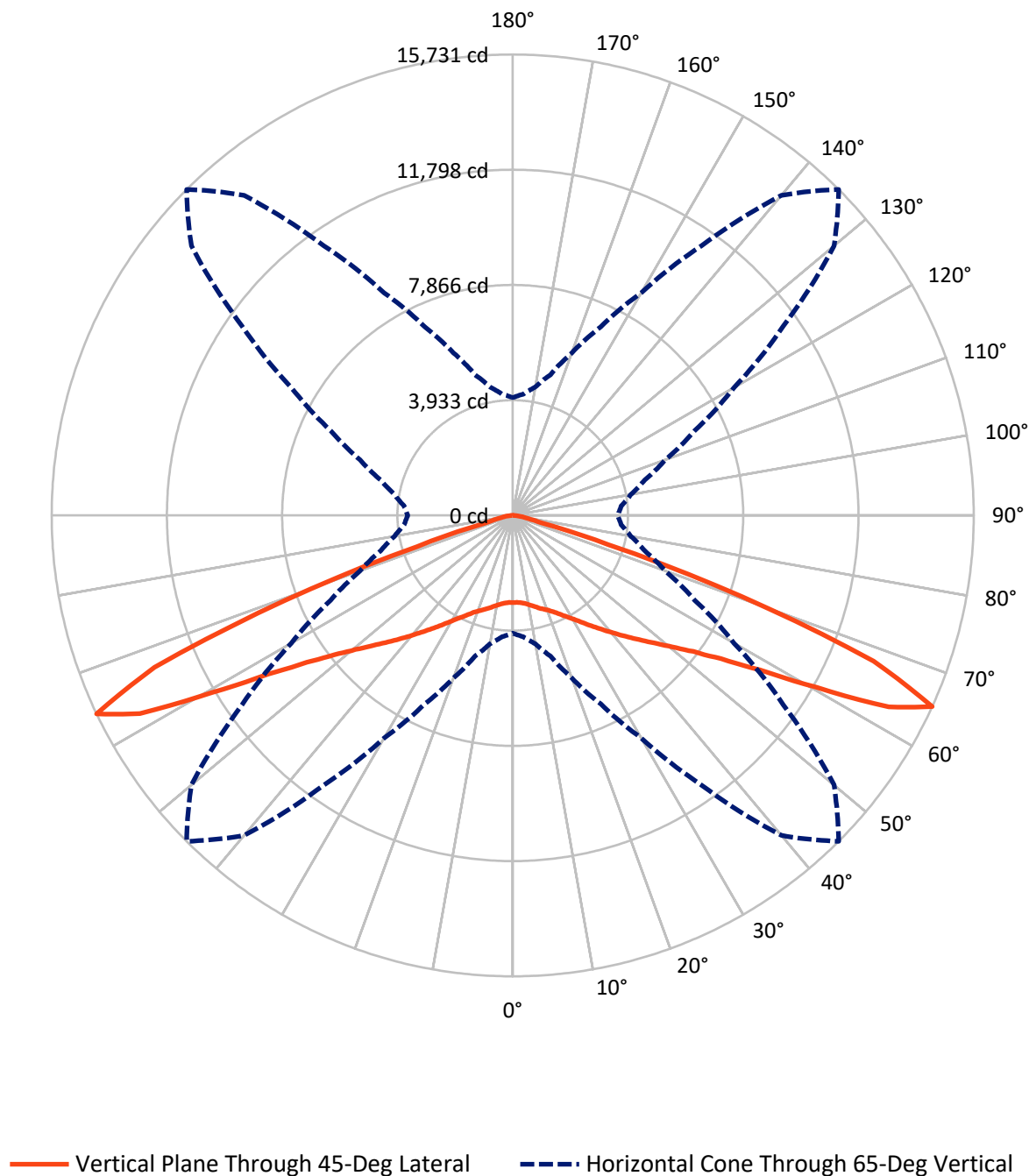


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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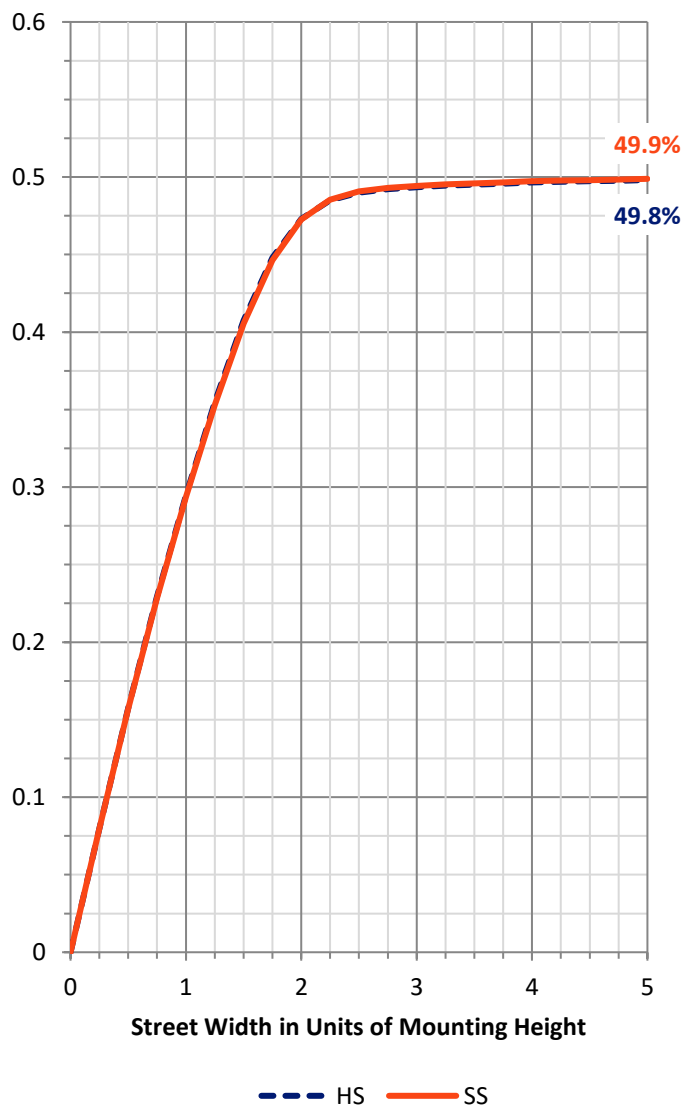
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13139.5	0.0	13139.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13139.5	0.0	13139.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26279.0	0.0	26279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.8	1.1
10°-20°	929.5	3.5
20°-30°	1738.0	6.6
30°-40°	2939.4	11.2
40°-50°	4806.3	18.3
50°-60°	7642.7	29.1
60°-70°	6908.5	26.3
70°-80°	874.3	3.3
80°-90°	150.4	0.6
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°	26279.0	100.0
0°-180°	26279.0	100.0

Coefficient of Utilization



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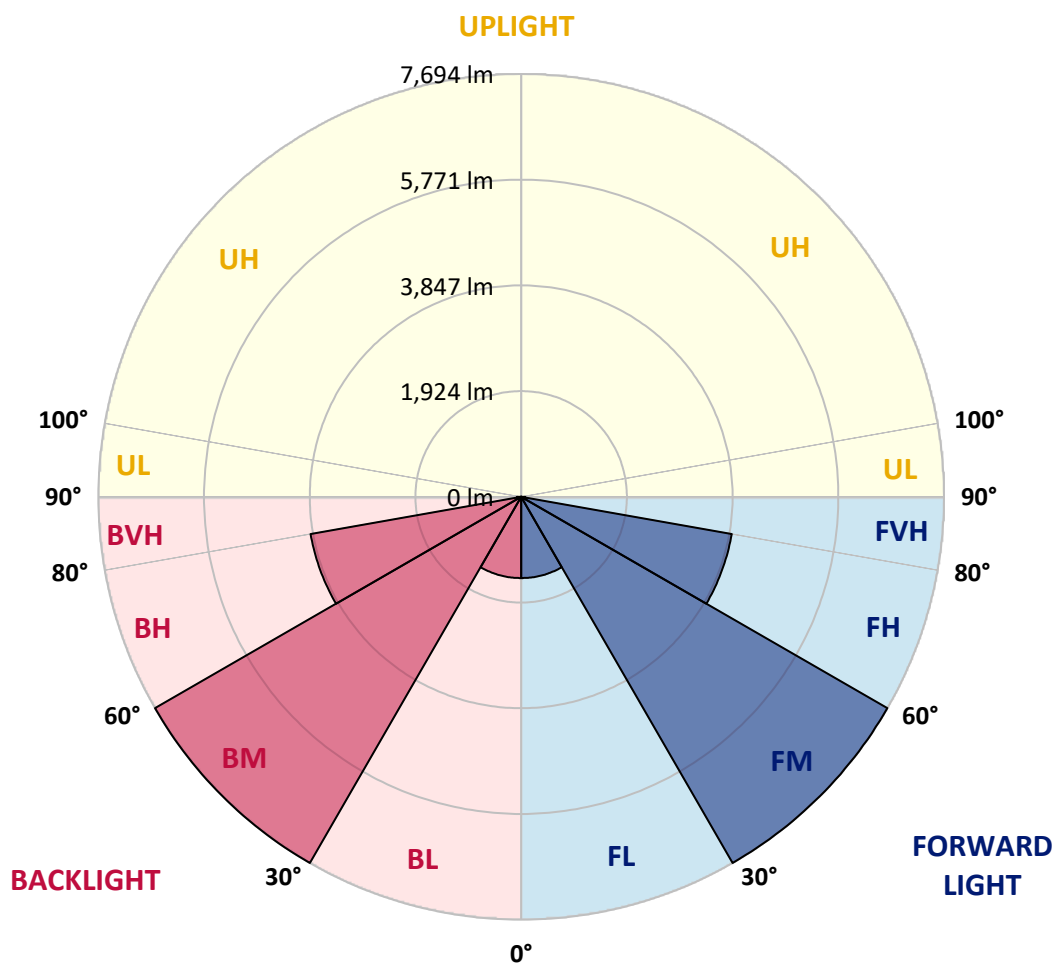
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1478.7	5.6			
FM	(30°-60°)	7694.2	29.3			
FH	(60°-80°)	3891.4	14.8			G2/5000
FVH	(80°-90°)	75.2	0.3			G1/100
BL	(0°-30°)	1478.7	5.6	B3/2500		
BM	(30°-60°)	7694.2	29.3	B4/8500		
BH	(60°-80°)	3891.4	14.8	B4/5000		G2/5000
BVH	(80°-90°)	75.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5
2.5°	2975.9	2978.4	2980.9	2978.4	2980.9	2977.2	2974.7	2978.4	2974.7	2971.0	2973.5
5°	3001.8	3003.0	3003.0	2999.3	3003.0	3000.6	2996.9	3001.8	2998.1	2994.4	2996.9
7.5°	3044.8	3049.8	3046.1	3042.5	3044.8	3042.5	3039.9	3041.2	3039.9	3036.2	3037.5
10°	3102.8	3106.5	3103.9	3102.8	3105.1	3103.9	3101.5	3100.2	3101.5	3097.8	3097.8
12.5°	3172.9	3171.7	3170.3	3171.7	3175.3	3175.3	3174.1	3175.3	3177.8	3179.0	3176.6
15°	3241.8	3244.2	3244.2	3244.2	3251.7	3257.8	3261.5	3263.9	3268.8	3270.1	3265.2
17.5°	3327.9	3327.9	3326.7	3327.9	3335.3	3345.2	3348.9	3353.8	3358.7	3362.5	3356.2
20°	3423.9	3426.4	3426.4	3428.9	3438.7	3449.8	3449.8	3452.3	3449.8	3452.3	3448.6
22.5°	3540.9	3548.2	3548.2	3549.5	3559.3	3572.9	3569.2	3572.9	3566.7	3571.6	3566.7
25°	3693.5	3704.6	3702.1	3702.1	3709.5	3718.1	3719.3	3726.8	3725.5	3731.6	3727.9
27.5°	3865.8	3883.0	3887.9	3886.7	3891.6	3900.2	3902.7	3911.3	3906.3	3911.3	3908.9
30°	4072.5	4080.0	4089.8	4093.5	4099.6	4108.2	4108.2	4109.5	4103.3	4110.7	4114.3
32.5°	4286.7	4300.2	4310.1	4332.2	4343.3	4349.5	4348.2	4350.7	4344.5	4354.4	4361.7
35°	4569.8	4579.6	4595.7	4612.8	4627.5	4626.4	4622.6	4624.0	4624.0	4632.5	4639.9
37.5°	4910.6	4913.2	4934.0	4958.7	4966.1	4958.7	4936.6	4931.6	4920.5	4931.6	4943.9
40°	5271.3	5280.0	5321.8	5337.8	5341.4	5327.9	5295.9	5277.4	5252.8	5266.4	5283.6
42.5°	5649.1	5666.4	5704.5	5732.9	5745.2	5736.5	5692.2	5663.9	5631.9	5639.3	5656.6
45°	6067.6	6088.5	6142.7	6169.8	6193.2	6179.6	6136.5	6093.4	6043.0	6046.6	6073.7
47.5°	6535.3	6556.2	6626.3	6671.9	6684.2	6681.7	6633.7	6574.6	6505.8	6503.2	6526.7
50°	7059.6	7080.5	7167.9	7238.0	7273.7	7270.0	7213.4	7129.7	7046.0	7047.2	7076.8
52.5°	7571.5	7597.5	7688.5	7809.1	7879.2	7929.7	7895.3	7816.5	7714.4	7716.8	7743.9
55°	8051.6	8094.6	8199.3	8362.9	8493.4	8635.0	8675.5	8673.1	8611.6	8628.8	8655.8
57.5°	8284.1	8348.2	8509.4	8767.8	9033.7	9321.7	9565.3	9747.6	9825.0	9941.9	9914.9
60°	7843.5	7945.7	8183.2	8563.5	9089.1	9689.6	10333.4	10962.3	11498.9	11903.8	11671.2
62.5°	6422.0	6555.0	6842.9	7330.3	8125.4	9086.6	10318.6	11805.4	13425.0	14402.2	13704.4
65°	4018.4	4156.2	4449.1	4971.0	5901.4	7096.5	8767.8	11231.9	14258.3	15731.3	14311.1
67.5°	1566.8	1641.8	1800.6	2134.2	2833.2	3896.5	5574.1	8370.4	11989.9	13281.0	11767.2
70°	785.2	792.5	822.1	883.7	1033.8	1342.8	2043.0	3880.6	6876.2	8305.2	6628.8
72.5°	567.4	568.5	583.3	610.4	658.4	727.3	860.3	1187.6	2236.3	3417.7	2095.9
75°	434.5	439.3	448.0	462.7	488.6	523.1	571.1	684.3	848.0	983.4	827.1
77.5°	334.8	344.6	350.7	364.3	380.3	403.7	417.3	460.3	535.4	563.7	555.0
80°	254.8	263.5	277.0	288.0	299.1	310.2	305.3	324.9	364.3	387.7	375.5
82.5°	162.5	172.3	211.6	221.6	226.5	233.9	225.2	226.5	243.6	258.5	243.6
85°	104.6	110.8	134.2	146.4	147.7	152.6	148.9	140.3	140.3	128.1	144.0
87.5°	48.0	49.2	60.3	71.3	73.9	66.4	65.2	62.8	50.5	48.0	51.7
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°	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5
2.5°	2972.3	2974.7	2975.9	2979.6	2980.9	2980.9	2982.1	2984.5
5°	2995.7	2999.3	3000.6	3005.5	3006.7	3005.5	3007.9	3009.2
7.5°	3037.5	3043.6	3046.1	3051.1	3047.3	3052.2	3053.5	3053.5
10°	3099.0	3105.1	3106.5	3111.3	3108.9	3111.3	3111.3	3108.9
12.5°	3180.2	3181.5	3177.8	3181.5	3176.6	3179.0	3175.3	3172.9
15°	3270.1	3266.5	3257.8	3257.8	3250.4	3251.7	3250.4	3249.2
17.5°	3357.4	3350.1	3344.0	3341.4	3335.3	3334.0	3330.4	3330.4
20°	3453.4	3449.8	3446.1	3441.1	3435.0	3428.9	3427.7	3430.0
22.5°	3569.2	3568.0	3568.0	3565.4	3556.8	3550.7	3547.0	3547.0
25°	3724.2	3713.1	3713.1	3712.0	3708.3	3704.6	3697.2	3700.8
27.5°	3899.0	3892.9	3897.9	3896.5	3892.9	3892.9	3887.9	3887.9
30°	4114.3	4112.0	4119.3	4113.2	4100.8	4099.6	4094.7	4088.6
32.5°	4363.0	4360.5	4371.6	4364.3	4344.5	4333.4	4323.6	4318.7
35°	4639.9	4641.2	4654.7	4649.7	4627.5	4620.2	4603.0	4600.6
37.5°	4942.7	4962.3	4985.7	4990.6	4972.2	4967.3	4948.8	4938.9
40°	5298.4	5324.2	5359.9	5368.6	5348.8	5345.2	5319.3	5305.7
42.5°	5677.4	5721.8	5766.0	5773.5	5753.7	5734.0	5709.5	5699.6
45°	6100.8	6153.7	6211.6	6226.3	6196.8	6173.4	6141.5	6141.5
47.5°	6575.9	6642.3	6707.5	6748.2	6721.1	6696.5	6658.4	6633.7
50°	7137.2	7228.1	7313.0	7354.9	7311.8	7265.0	7198.6	7176.4
52.5°	7841.1	7939.6	8013.4	7991.2	7924.8	7859.6	7786.9	7757.4
55°	8739.5	8772.8	8772.8	8689.1	8556.2	8446.7	8332.1	8294.0
57.5°	9863.2	9735.2	9538.4	9288.4	8974.7	8701.4	8516.8	8429.4
60°	11183.8	10568.4	9873.1	9190.1	8628.8	8166.0	7891.6	7766.0
62.5°	12063.8	10453.9	9060.8	7964.1	7156.8	6599.3	6220.2	6072.5
65°	11274.9	8718.7	6852.8	5540.9	4660.9	4093.5	3718.1	3580.2
67.5°	8258.4	5463.3	3649.2	2615.3	1916.3	1528.5	1374.7	1310.8
70°	3707.0	1923.6	1179.0	920.6	793.9	728.6	700.3	690.4
72.5°	1117.5	808.6	681.9	615.3	564.9	532.9	509.4	507.1
75°	674.4	561.3	498.4	459.1	427.1	401.2	389.0	385.2
77.5°	471.4	412.4	382.7	354.4	329.9	310.2	299.1	290.4
80°	331.0	302.7	289.2	273.2	257.2	238.7	222.8	215.3
82.5°	221.6	215.3	215.3	205.5	192.0	174.9	142.8	135.4
85°	142.8	141.5	144.0	140.3	130.4	112.0	92.4	87.4
87.5°	66.4	67.7	75.1	73.9	71.3	59.1	46.8	44.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)