

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: P192575

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192575
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-07-LED-E1-5NQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27674.3 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 226
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

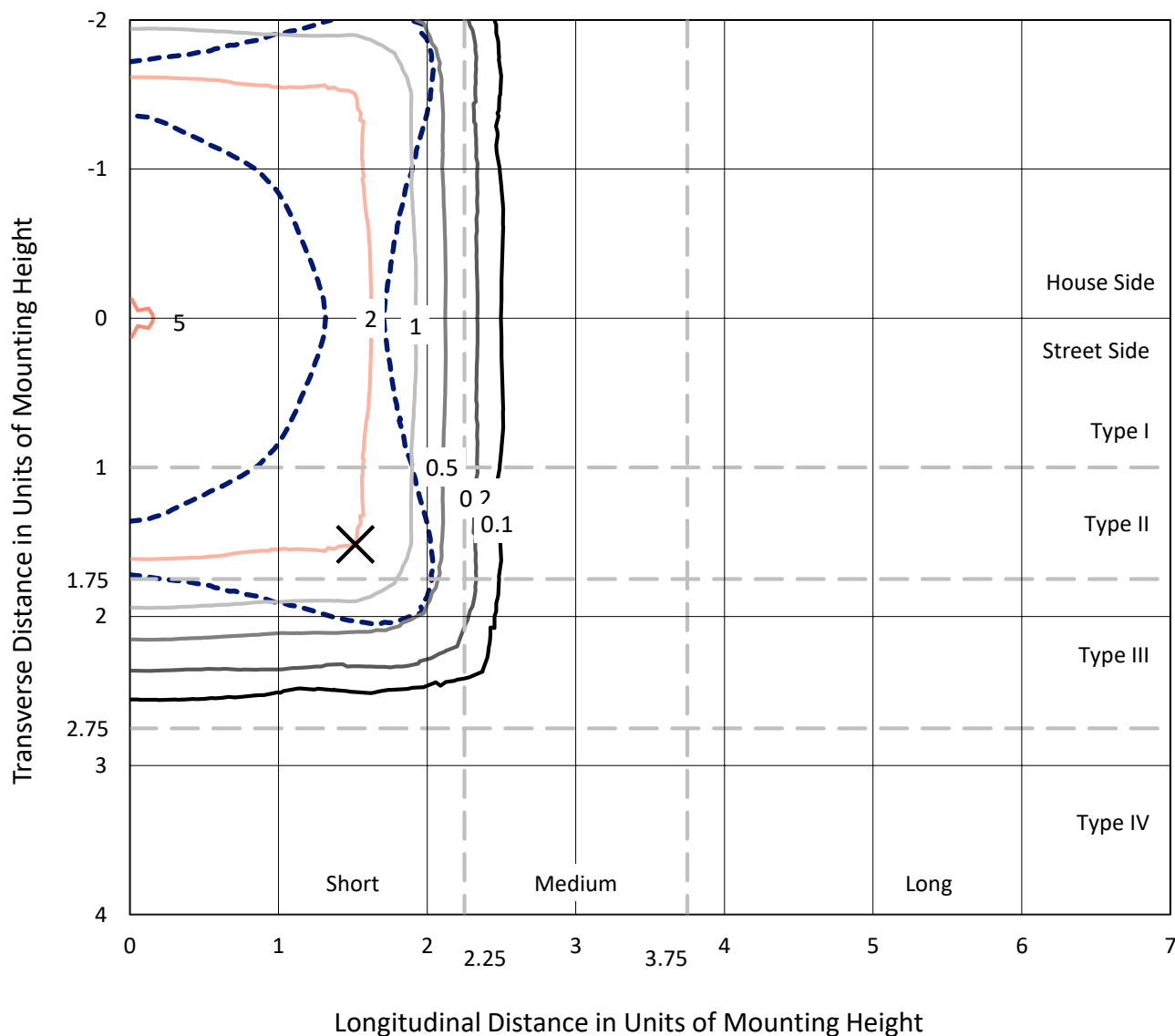


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

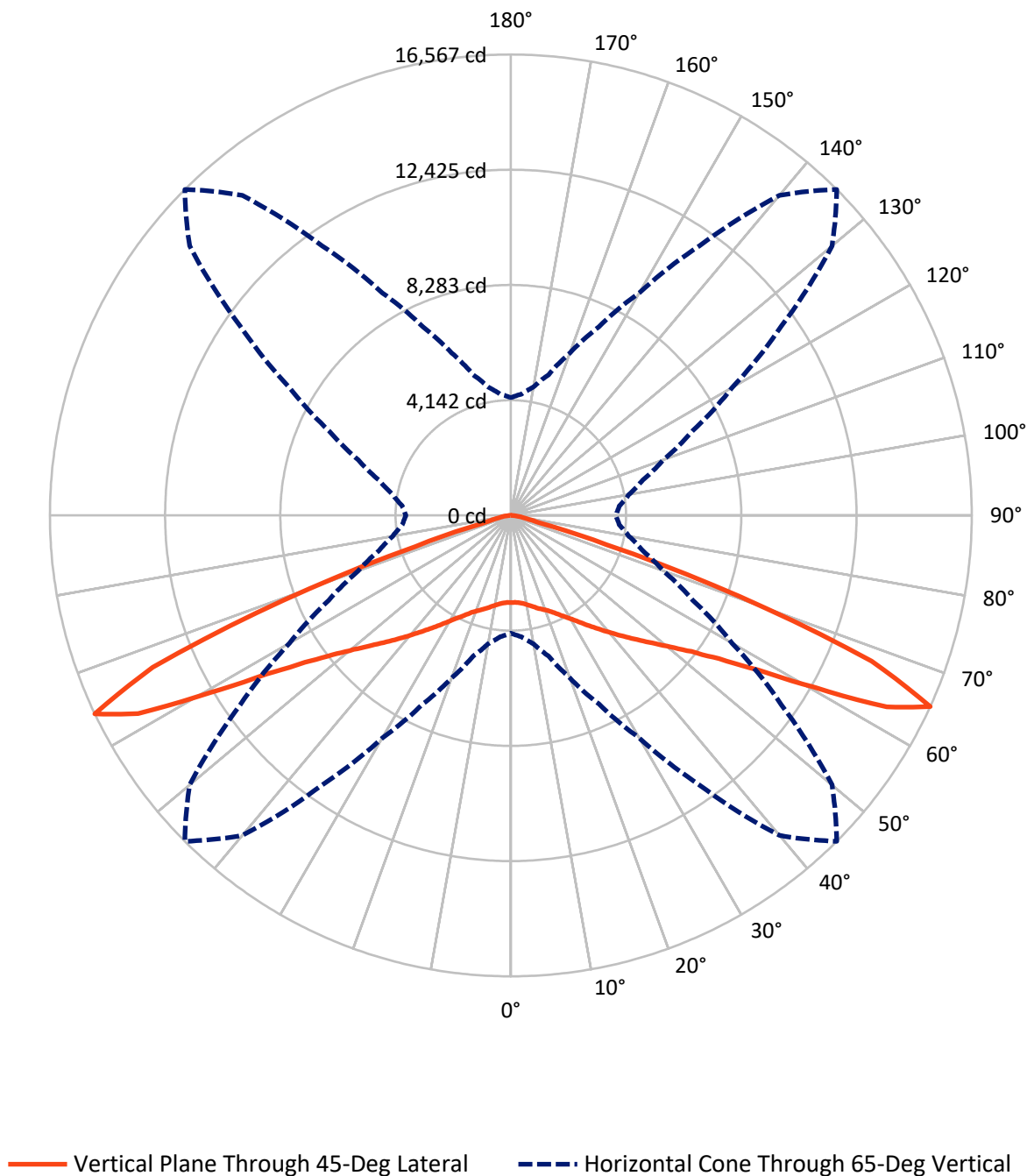


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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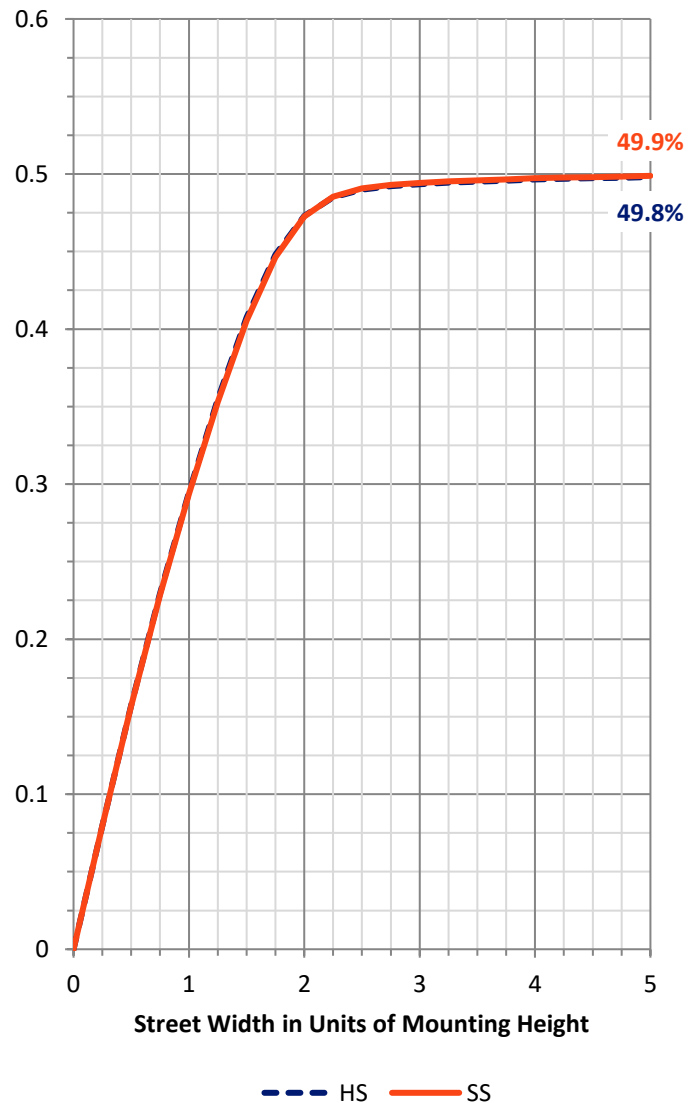
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13837.1	0.0	13837.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13837.1	0.0	13837.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	27674.3	0.0	27674.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.2	1.1
10°-20°	978.8	3.5
20°-30°	1830.3	6.6
30°-40°	3095.5	11.2
40°-50°	5061.5	18.3
50°-60°	8048.5	29.1
60°-70°	7275.3	26.3
70°-80°	920.7	3.3
80°-90°	158.4	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°	27674.3	100.0
0°-180°	27674.3	100.0

Coefficient of Utilization



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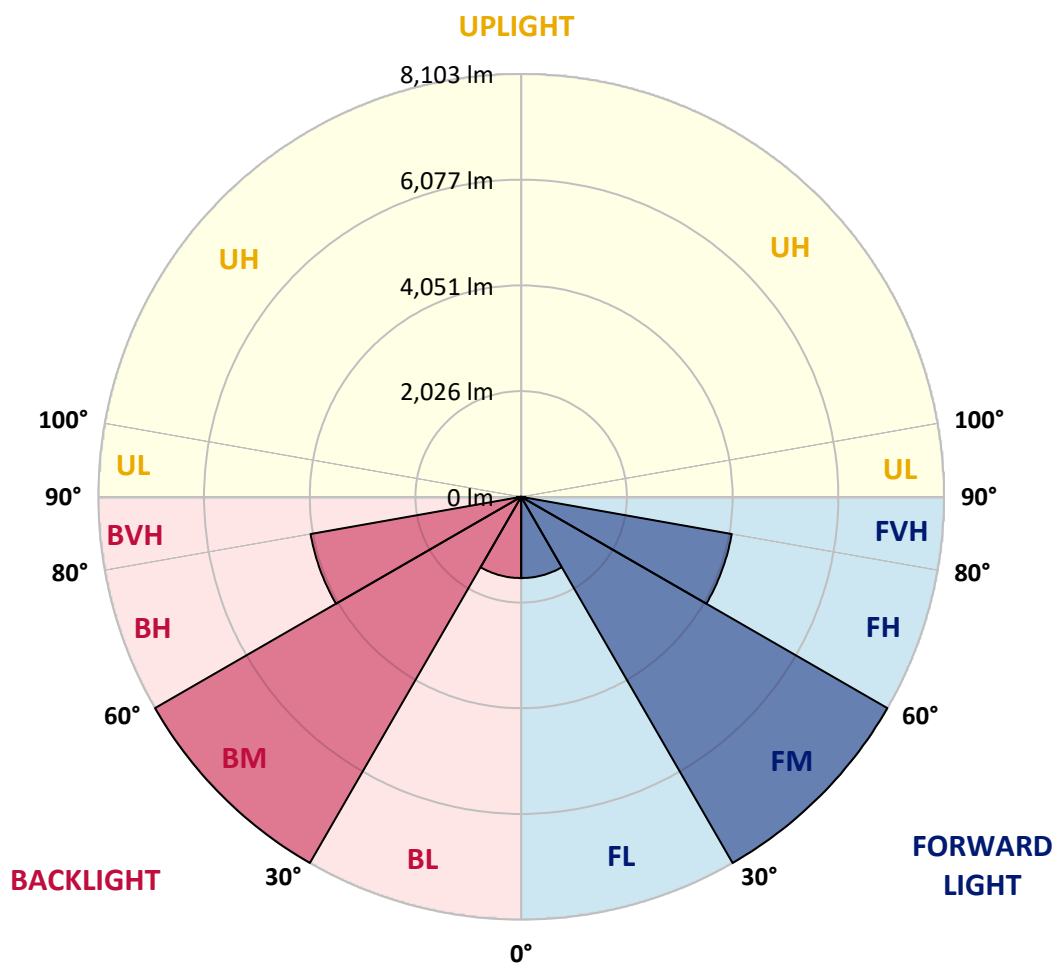
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1557.2	5.6			
FM	(30°-60°)	8102.7	29.3			
FH	(60°-80°)	4098.0	14.8			G2/5000
FVH	(80°-90°)	79.2	0.3			G1/100
BL	(0°-30°)	1557.2	5.6	B3/2500		
BM	(30°-60°)	8102.7	29.3	B4/8500		
BH	(60°-80°)	4098.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	79.2	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°	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4
2.5°	3134.0	3136.5	3139.1	3136.5	3139.1	3135.2	3132.7	3136.5	3132.7	3128.7	3131.4
5°	3161.2	3162.5	3162.5	3158.5	3162.5	3159.9	3156.0	3161.2	3157.3	3153.4	3156.0
7.5°	3206.5	3211.6	3207.9	3203.9	3206.5	3203.9	3201.3	3202.6	3201.3	3197.5	3198.8
10°	3267.4	3271.3	3268.7	3267.4	3270.0	3268.7	3266.2	3264.8	3266.2	3262.3	3262.3
12.5°	3341.3	3340.0	3338.8	3340.0	3343.9	3343.9	3342.6	3343.9	3346.5	3347.8	3345.2
15°	3414.0	3416.5	3416.5	3416.5	3424.3	3430.7	3434.7	3437.2	3442.4	3443.8	3438.5
17.5°	3504.6	3504.6	3503.3	3504.6	3512.3	3522.7	3526.7	3531.8	3537.0	3540.9	3534.4
20°	3605.8	3608.3	3608.3	3610.9	3621.3	3633.0	3633.0	3635.5	3633.0	3635.5	3631.7
22.5°	3728.9	3736.6	3736.6	3738.0	3748.2	3762.6	3758.6	3762.6	3756.2	3761.2	3756.2
25°	3889.5	3901.2	3898.7	3898.7	3906.4	3915.6	3916.8	3924.6	3923.3	3929.7	3925.9
27.5°	4071.0	4089.1	4094.4	4093.1	4098.2	4107.3	4109.9	4119.0	4113.8	4119.0	4116.4
30°	4288.8	4296.5	4306.9	4310.9	4317.3	4326.3	4326.3	4327.6	4321.2	4329.0	4332.7
32.5°	4514.3	4528.6	4538.9	4562.2	4573.9	4580.3	4579.0	4581.7	4575.2	4585.6	4593.4
35°	4812.5	4822.8	4839.6	4857.7	4873.3	4872.0	4868.1	4869.4	4869.4	4878.5	4886.3
37.5°	5171.5	5174.0	5196.1	5221.9	5229.7	5221.9	5198.7	5193.4	5181.7	5193.4	5206.4
40°	5551.1	5560.2	5604.4	5621.2	5625.0	5610.8	5577.1	5557.7	5531.7	5546.0	5564.1
42.5°	5949.0	5967.2	6007.4	6037.2	6050.1	6041.1	5994.4	5964.6	5930.9	5938.7	5956.9
45°	6389.7	6411.8	6468.8	6497.3	6521.9	6507.7	6462.3	6416.9	6363.8	6367.7	6396.2
47.5°	6882.2	6904.3	6978.2	7026.1	7039.0	7036.6	6985.9	6923.8	6851.1	6848.6	6873.2
50°	7434.4	7456.4	7548.4	7622.4	7659.9	7656.1	7596.4	7508.3	7420.2	7421.4	7452.6
52.5°	7973.5	8000.7	8096.6	8223.7	8297.5	8350.6	8314.4	8231.5	8123.9	8126.4	8155.0
55°	8479.1	8524.4	8634.5	8807.0	8944.3	9093.4	9136.1	9133.5	9068.7	9086.9	9115.4
57.5°	8724.1	8791.4	8961.2	9233.4	9513.3	9816.6	10073.2	10265.0	10346.8	10469.9	10441.4
60°	8260.0	8367.6	8617.8	9018.3	9571.6	10204.2	10882.0	11544.4	12109.4	12535.8	12290.8
62.5°	6763.0	6903.0	7206.3	7719.5	8556.7	9569.0	10866.5	12432.1	14137.8	15166.9	14431.9
65°	4231.7	4376.9	4685.4	5234.9	6214.7	7473.3	9233.4	11828.2	15015.3	16566.7	15071.0
67.5°	1650.0	1729.0	1896.2	2247.5	2983.7	4103.4	5870.0	8814.7	12626.5	13986.2	12391.9
70°	826.9	834.6	865.8	930.6	1088.8	1414.1	2151.6	4086.7	7241.2	8745.9	6980.8
72.5°	597.5	598.7	614.4	642.9	693.4	766.0	906.0	1250.7	2355.0	3599.2	2207.2
75°	457.5	462.7	471.8	487.3	514.5	550.8	601.4	720.7	892.9	1035.6	871.1
77.5°	352.6	363.0	369.4	383.6	400.6	425.1	439.3	484.8	563.8	593.6	584.5
80°	268.3	277.4	291.6	303.3	315.0	326.5	321.4	342.2	383.6	408.3	395.3
82.5°	171.1	181.5	222.9	233.3	238.5	246.3	237.2	238.5	256.6	272.2	256.6
85°	110.2	116.7	141.3	154.3	155.5	160.7	156.8	147.7	147.7	134.8	151.7
87.5°	50.6	51.9	63.5	75.2	77.8	70.0	68.8	66.1	53.1	50.6	54.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4	3131.4
2.5°	3130.1	3132.7	3134.0	3137.8	3139.1	3139.1	3140.4	3143.1
5°	3154.7	3158.5	3159.9	3165.0	3166.4	3165.0	3167.7	3168.9
7.5°	3198.8	3205.2	3207.9	3213.0	3209.2	3214.3	3215.6	3215.6
10°	3263.6	3270.0	3271.3	3276.5	3274.0	3276.5	3276.5	3274.0
12.5°	3349.2	3350.4	3346.5	3350.4	3345.2	3347.8	3343.9	3341.3
15°	3443.8	3439.8	3430.7	3430.7	3423.0	3424.3	3423.0	3421.7
17.5°	3535.7	3528.0	3521.5	3518.9	3512.3	3511.1	3507.2	3507.2
20°	3636.8	3633.0	3629.0	3623.9	3617.3	3610.9	3609.6	3612.2
22.5°	3758.6	3757.4	3757.4	3754.8	3745.7	3739.2	3735.3	3735.3
25°	3922.0	3910.3	3910.3	3909.0	3905.2	3901.2	3893.5	3897.4
27.5°	4106.1	4099.5	4104.8	4103.4	4099.5	4099.5	4094.4	4094.4
30°	4332.7	4330.3	4338.0	4331.6	4318.6	4317.3	4312.1	4305.6
32.5°	4594.7	4592.0	4603.7	4596.0	4575.2	4563.5	4553.2	4548.0
35°	4886.3	4887.6	4901.8	4896.7	4873.3	4865.6	4847.4	4844.8
37.5°	5205.1	5225.9	5250.5	5255.7	5236.2	5231.0	5211.5	5201.2
40°	5579.7	5606.8	5644.5	5653.5	5632.9	5628.9	5601.7	5587.4
42.5°	5978.8	6025.5	6072.2	6079.9	6059.2	6038.5	6012.5	6002.1
45°	6424.8	6480.5	6541.4	6556.9	6525.8	6501.3	6467.5	6467.5
47.5°	6925.1	6995.0	7063.7	7106.4	7078.0	7052.0	7011.8	6985.9
50°	7516.1	7612.0	7701.3	7745.5	7700.0	7650.9	7580.9	7557.5
52.5°	8257.4	8361.1	8438.8	8415.4	8345.6	8276.8	8200.4	8169.4
55°	9203.6	9238.5	9238.5	9150.5	9010.4	8895.2	8774.5	8734.4
57.5°	10386.8	10252.2	10044.8	9781.7	9451.2	9163.3	8969.0	8877.0
60°	11777.6	11129.5	10397.2	9677.9	9086.9	8599.6	8310.6	8178.4
62.5°	12704.3	11009.0	9541.8	8387.1	7536.8	6949.7	6550.4	6395.0
65°	11873.5	9181.5	7216.7	5835.0	4908.3	4310.9	3915.6	3770.3
67.5°	8696.8	5753.4	3842.8	2754.2	2018.0	1609.7	1447.6	1380.4
70°	3903.9	2025.7	1241.6	969.4	836.0	767.3	737.5	727.1
72.5°	1176.8	851.5	718.1	648.0	594.9	561.1	536.6	533.9
75°	710.3	591.0	524.9	483.5	449.7	422.5	409.6	405.7
77.5°	496.4	434.2	403.0	373.2	347.3	326.5	315.0	305.9
80°	348.6	318.8	304.7	287.7	270.9	251.4	234.6	226.8
82.5°	233.3	226.8	226.8	216.5	202.2	184.0	150.3	142.6
85°	150.3	149.0	151.7	147.7	137.3	117.9	97.2	92.0
87.5°	70.0	71.2	79.1	77.8	75.2	62.2	49.2	46.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)