Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: P943756

Luminaire Tested: **GALN-SB8B-850-U-T3-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P943756
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8B-850-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	34158 lumens
Efficiency:	N/A
Efficacy:	116.7 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4

Input Watts (W):	292.8
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:	24 FT

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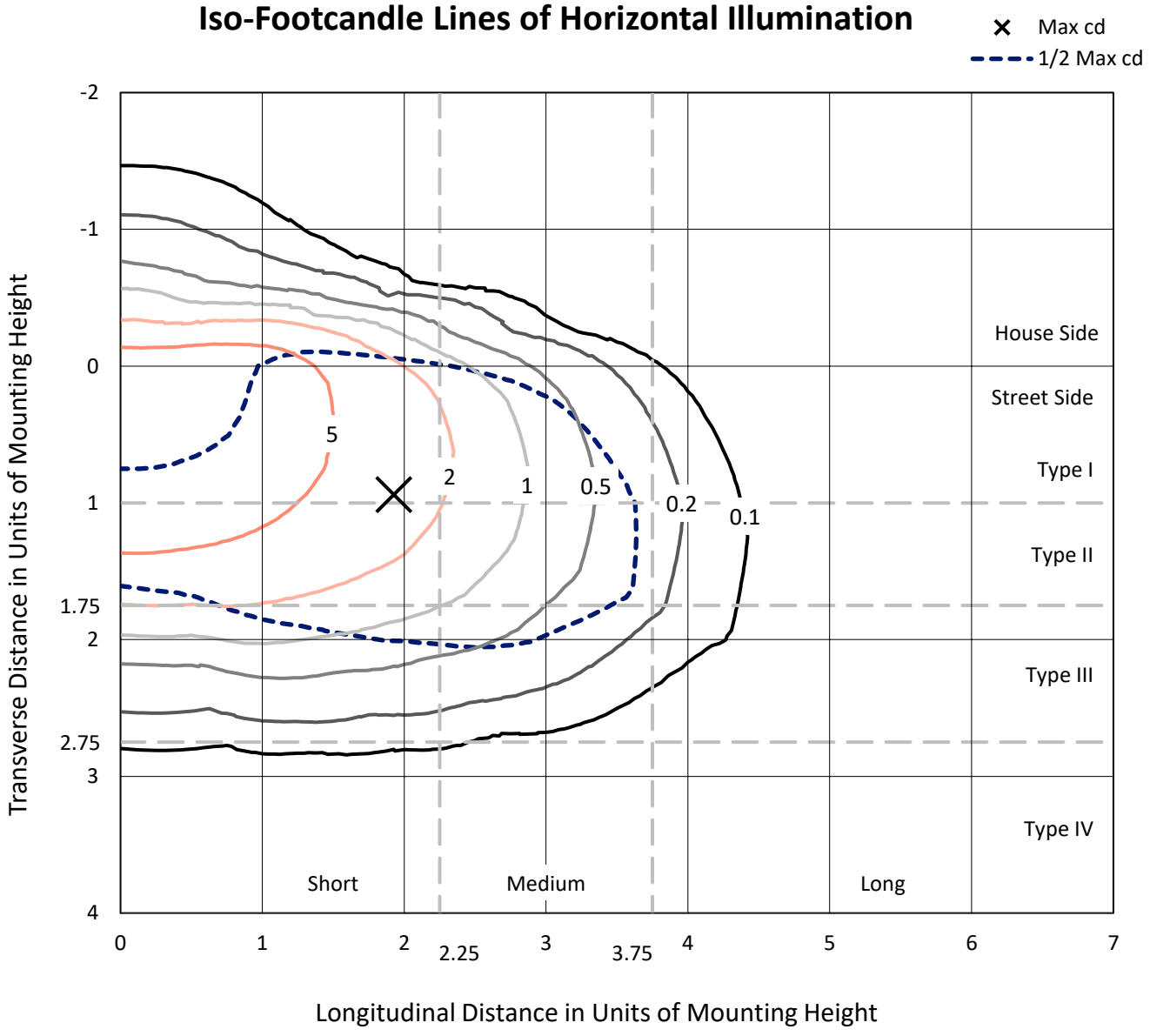
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type III - Short - N/A

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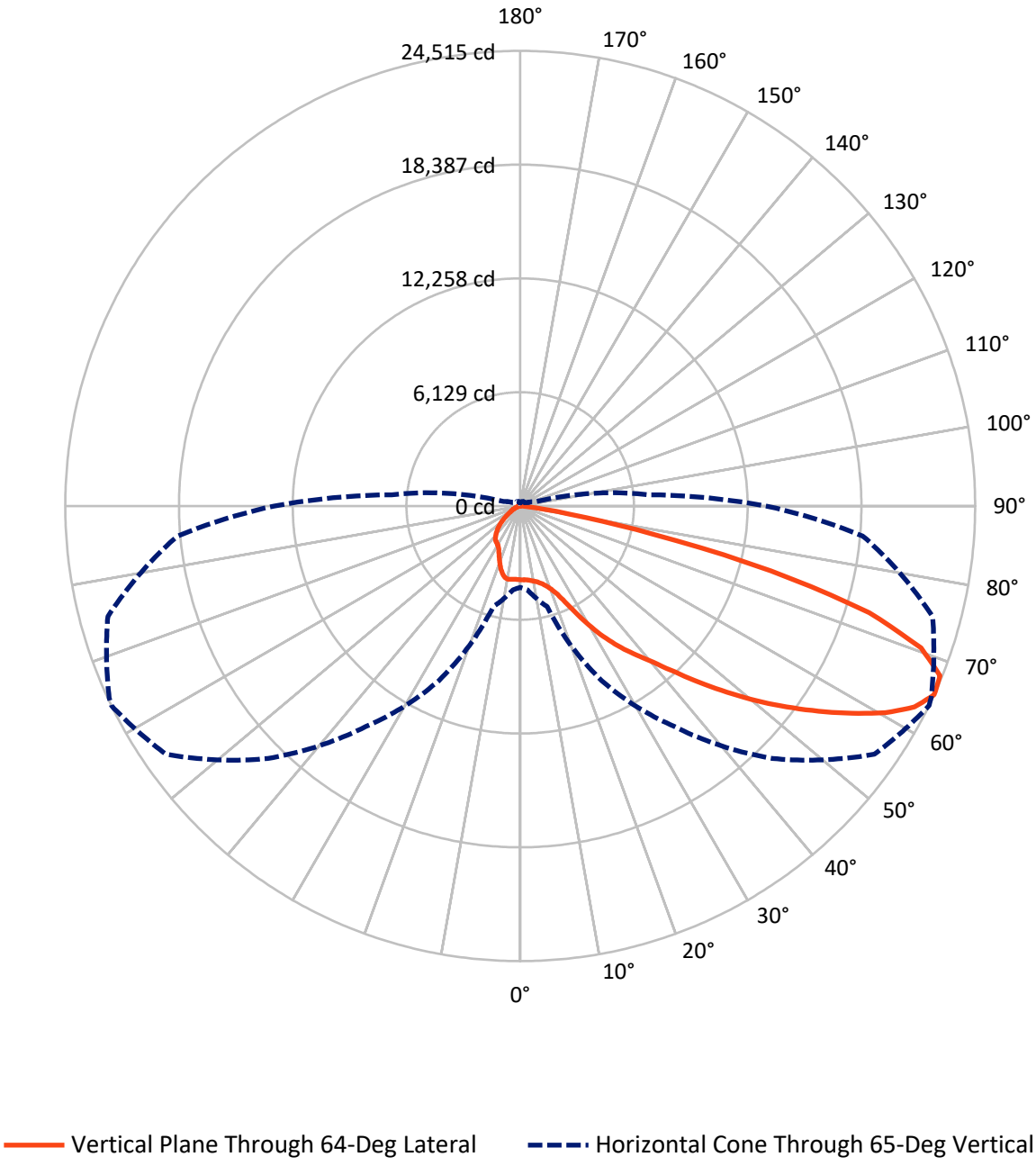
Luminous Intensity Polar Plot



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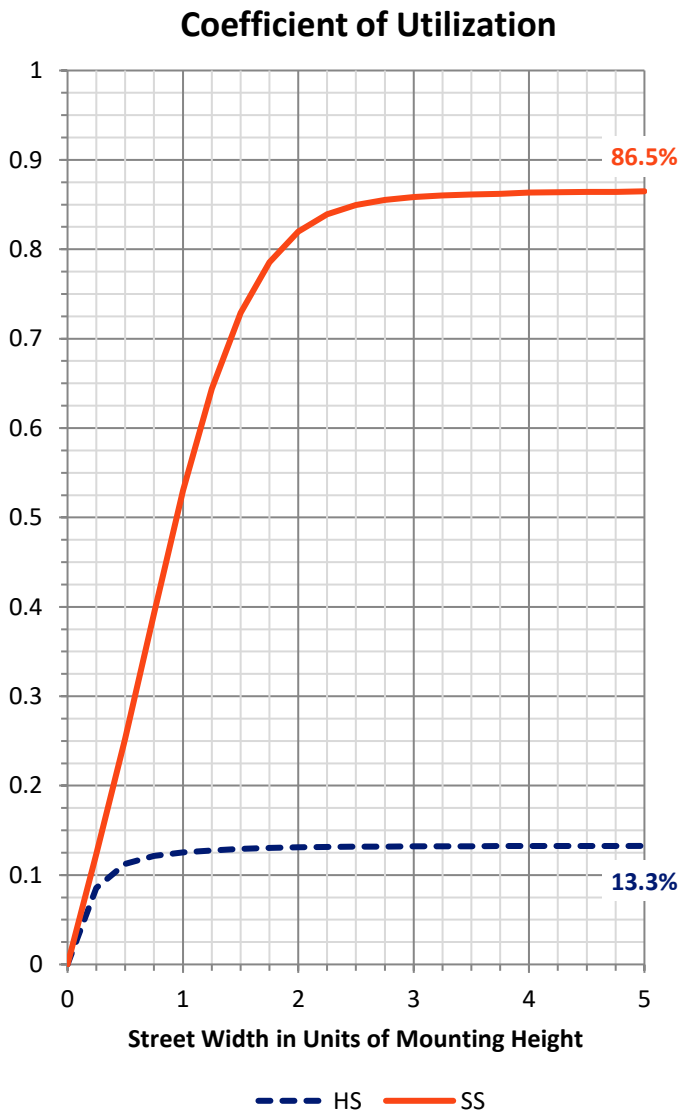
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4568.0	0.0	4568.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29590.0	0.0	29590.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	34158.0	0.0	34158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	1.1
10°-20°	994.2	2.9
20°-30°	1883.9	5.5
30°-40°	3812.1	11.2
40°-50°	6493.9	19.0
50°-60°	8831.2	25.9
60°-70°	8292.9	24.3
70°-80°	3322.5	9.7
80°-90°	161.0	0.5
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°	34158.0	100.0
0°-180°	34158.0	100.0



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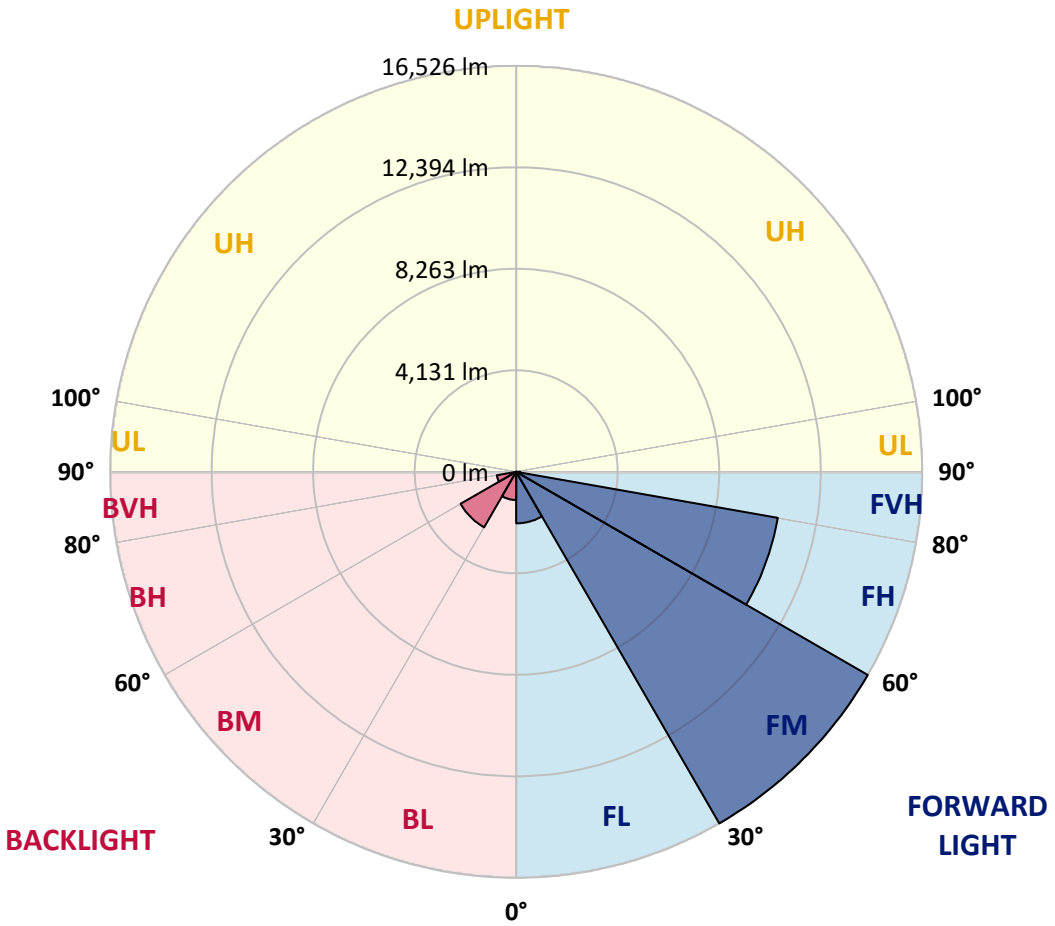
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2097.7	6.1			
FM	(30°-60°)	16525.6	48.4			
FH	(60°-80°)	10813.6	31.7			G4/12000
FVH	(80°-90°)	153.1	0.4			G2/225
BL	(0°-30°)	1146.9	3.4	B3/2500		
BM	(30°-60°)	2611.5	7.6	B3/5000		
BH	(60°-80°)	801.8	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3972.9	3972.9	3972.9	3972.9	3972.9	3972.9	3972.9	*3972.9*	3972.9	3972.9
2.5°	3959.2	3986.7	3979.8	3972.9	3970.6	3975.2	3977.5	*3975.2*	3975.2	3975.2
5°	3883.6	3906.5	3906.5	3922.6	3945.5	3972.9	3993.5	*3998.1*	4002.7	4009.6
7.5°	3739.4	3757.7	3771.4	3824.1	3881.3	3954.6	4016.4	*4048.5*	4053.1	4078.3
10°	3640.9	3663.8	3686.7	3741.7	3824.1	3934.0	4039.3	*4117.2*	4128.6	4188.2
12.5°	3636.3	3659.2	3689.0	3748.5	3844.7	3961.5	4089.7	*4201.9*	4222.5	4309.5
15°	3684.4	3711.9	3739.4	3812.6	3915.7	4057.7	4195.0	*4334.7*	4355.3	4479.0
17.5°	3782.9	3819.5	3840.1	3913.4	4023.3	4181.3	4362.2	*4522.5*	4540.8	4685.1
20°	3977.5	4021.0	4027.9	4087.4	4195.0	4364.5	4579.7	*4779.0*	4801.9	4966.7
22.5°	4380.5	4442.4	4387.4	4417.2	4513.3	4682.8	4916.4	*5168.2*	5200.3	5388.1
25°	5090.4	5177.4	5035.4	4985.1	5026.3	5202.6	5495.7	*5814.0*	5850.6	6001.8
27.5°	6484.9	6372.7	6157.5	5946.8	5823.1	5923.9	6253.6	*6647.5*	6693.3	6839.9
30°	8016.8	7918.4	7627.6	7160.4	6867.3	6851.3	7155.9	*7595.5*	7648.2	7787.9
32.5°	9551.1	9457.2	9141.2	8566.4	8058.1	7806.2	8016.8	*8504.6*	8532.1	8621.4
35°	11060.1	10963.9	10647.9	10059.4	9434.3	8861.8	8820.6	*9370.2*	9379.3	9473.2
37.5°	12578.3	12498.1	12161.5	11584.5	10968.5	10178.5	9796.1	*10189.9*	10201.4	10293.0
40°	13661.4	13695.7	13464.5	13017.9	12489.0	11625.7	10890.6	*11062.4*	10993.7	11147.1
42.5°	14591.1	14659.8	14458.3	14233.9	13927.0	13166.8	12246.2	*12216.5*	12106.6	12189.0
45°	15394.8	15452.1	15271.2	15218.5	15211.6	14678.1	13727.8	*13549.2*	13395.8	13379.7
47.5°	15690.2	15800.1	15878.0	16054.3	16397.8	16173.4	15259.7	*14982.6*	14810.9	14685.0
50°	15802.4	15919.2	16184.8	16697.8	17510.7	17606.8	16784.8	*16473.3*	16262.7	16033.7
52.5°	15651.3	15859.7	16216.9	17080.2	18259.4	18756.4	18248.0	*17975.5*	17735.1	17361.8
55°	14760.5	14968.9	15699.4	17075.6	18632.7	19562.4	19631.1	*19509.7*	19239.5	18651.0
57.5°	12882.8	13192.0	14348.3	16494.0	18625.8	20256.2	20986.7	*21073.7*	20771.4	19928.8
60°	10281.5	10700.6	12111.1	15204.8	18051.1	20631.8	22175.1	*22610.2*	22289.6	21188.2
62.5°	7174.2	7659.6	8994.6	13185.1	16736.7	20361.6	23043.0	*23846.7*	23604.0	22314.8
65°	*4375.9*	*4531.7*	*5607.9*	*10375.4*	*14501.8*	*19230.4*	*23310.9*	*24515.4*	*24435.2*	*23004.1*
67.5°	2915.0	3045.5	3354.7	7114.6	11257.0	16970.3	22669.7	*24398.6*	24421.5	22891.9
70°	1756.3	1868.5	2070.0	4137.8	7295.5	13432.4	20684.4	*22910.2*	23043.0	21392.0
72.5°	723.6	799.2	982.4	1875.4	3778.3	8525.2	16471.1	*19670.0*	19979.1	17987.0
75°	409.9	448.8	577.0	941.1	1639.5	3972.9	9977.0	*13963.6*	14419.3	12397.4
77.5°	272.5	290.8	373.2	609.1	922.8	1355.6	4263.7	*7274.9*	8145.1	6771.2
80°	183.2	199.2	256.5	407.6	599.9	581.6	1357.9	*2695.2*	3315.7	2326.5
82.5°	123.7	125.9	183.2	267.9	380.1	281.7	400.7	*838.1*	1053.3	673.2
85°	71.0	68.7	135.1	155.7	169.5	116.8	121.4	*251.9*	329.7	283.9
87.5°	9.2	13.7	52.7	41.2	22.9	25.2	25.2	*43.5*	64.1	68.7
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3972.9	0°	3972.9	3972.9	3972.9	3972.9	3972.9	3972.9	3972.9	3972.9	3972.9	3972.9
3977.5	2.5°	3977.5	3975.2	3968.4	3961.5	3945.5	3936.3	3940.9	3936.3	3934.0	3936.3
4007.3	5°	4007.3	4000.4	3982.1	3959.2	3927.1	3888.2	3863.0	3826.4	3792.0	3771.4
4087.4	7.5°	4087.4	4080.6	4055.4	3991.2	3888.2	3725.6	3576.8	3446.3	3347.8	3290.5
4215.7	10°	4215.7	4204.2	4165.3	4023.3	3753.1	3398.2	3102.8	2857.8	2697.5	2621.9
4366.8	12.5°	4366.8	4353.0	4284.4	3993.5	3496.6	2942.5	2534.9	2262.4	2113.6	2047.1
4540.8	15°	4545.4	4527.1	4392.0	3851.6	3123.4	2438.7	2065.5	1861.7	1765.5	1706.0
4762.9	17.5°	4767.5	4735.5	4472.1	3638.6	2718.1	2054.0	1776.9	1623.5	1538.8	1481.5
5053.8	20°	5056.0	5003.4	4536.2	3384.4	2344.8	1811.3	1582.3	1454.1	1390.0	1339.6
5465.9	22.5°	5459.1	5383.5	4614.1	3109.6	2081.5	1644.1	1438.0	1344.2	1291.5	1234.2
6040.7	25°	5958.3	5868.9	4710.3	2855.5	1900.6	1499.9	1332.7	1254.9	1193.0	1126.6
6794.1	27.5°	6656.7	6496.4	4824.8	2647.1	1744.9	1376.2	1236.5	1149.5	1078.5	1023.6
7648.2	30°	7435.2	7171.9	4925.5	2521.2	1602.9	1261.7	1110.6	1023.6	957.2	918.2
8415.3	32.5°	8172.6	7815.3	4991.9	2466.2	1474.7	1131.2	973.2	879.3	828.9	817.5
9166.4	35°	8868.7	8397.0	4985.1	2413.5	1360.2	1000.7	838.1	741.9	703.0	709.9
9974.7	37.5°	9670.1	9017.5	4937.0	2331.1	1266.3	881.6	721.3	636.6	602.2	604.5
10957.0	40°	10602.1	9734.3	4907.2	2175.4	1163.3	771.7	625.1	556.4	531.3	522.1
11992.1	42.5°	11595.9	10428.1	4911.8	1999.1	1035.0	673.2	558.7	501.5	478.6	471.7
13143.9	45°	12594.3	11089.9	4918.6	1815.9	899.9	597.7	510.6	462.6	448.8	439.7
14311.7	47.5°	13533.2	11653.2	4790.4	1618.9	767.1	540.4	471.7	439.7	428.2	416.8
15484.1	50°	14407.9	12028.7	4481.3	1390.0	661.8	494.6	441.9	419.0	407.6	396.1
16546.6	52.5°	15088.0	12088.2	3970.6	1154.1	588.5	460.3	423.6	403.0	389.3	377.8
17405.3	55°	15390.2	11715.0	3244.8	934.3	531.3	430.5	405.3	384.7	368.7	357.2
18080.8	57.5°	15312.4	10929.6	2530.3	751.1	476.3	400.7	382.4	368.7	350.4	332.0
18628.1	60°	14930.0	9878.5	1907.5	625.1	425.9	368.7	357.2	345.8	320.6	293.1
18838.8	62.5°	14268.2	8557.3	1360.2	517.5	371.0	332.0	327.5	318.3	281.7	231.3
18527.4	65°	*13256.1*	*6952.1*	*915.9*	*430.5*	*318.3*	*290.8*	*293.1*	*277.1*	*229.0*	*171.7*
17387.0	67.5°	11776.8	5083.5	586.2	352.6	265.6	242.7	245.0	235.9	194.6	146.6
15225.4	70°	9892.3	3366.1	382.4	267.9	213.0	187.8	201.5	203.8	164.9	119.1
11685.2	72.5°	7252.0	1987.6	267.9	199.2	155.7	130.5	164.9	169.5	132.8	89.3
7029.9	75°	4133.2	943.4	201.5	144.3	96.2	91.6	128.2	128.2	91.6	59.5
3043.2	77.5°	1735.7	393.9	142.0	93.9	55.0	52.7	87.0	80.1	45.8	27.5
741.9	80°	501.5	176.3	75.6	45.8	22.9	20.6	34.3	25.2	11.4	4.6
281.7	82.5°	196.9	77.9	29.8	18.3	9.2	9.2	4.6	0.0	0.0	0.0
160.3	85°	116.8	32.1	13.7	6.9	2.3	0.0	0.0	0.0	0.0	0.0
34.3	87.5°	29.8	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

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180°
3972.9
3945.5
3776.0
3292.8
2615.0
2040.3
1708.2
1477.0
1330.4
1225.1
1119.7
1012.1
911.4
824.4
709.9
613.7
519.8
469.4
439.7
416.8
396.1
375.5
354.9
329.7
288.5
226.7
167.2
139.7
114.5
84.7
55.0
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