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: P956715

Luminaire Tested: **GALN-SB9B-740-U-T4W**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P956715
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9B-740-U-T4W
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	54157 lumens
Efficiency:	N/A
Efficacy:	164.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B4 - U0 - G5

Input Watts (W):	329.5
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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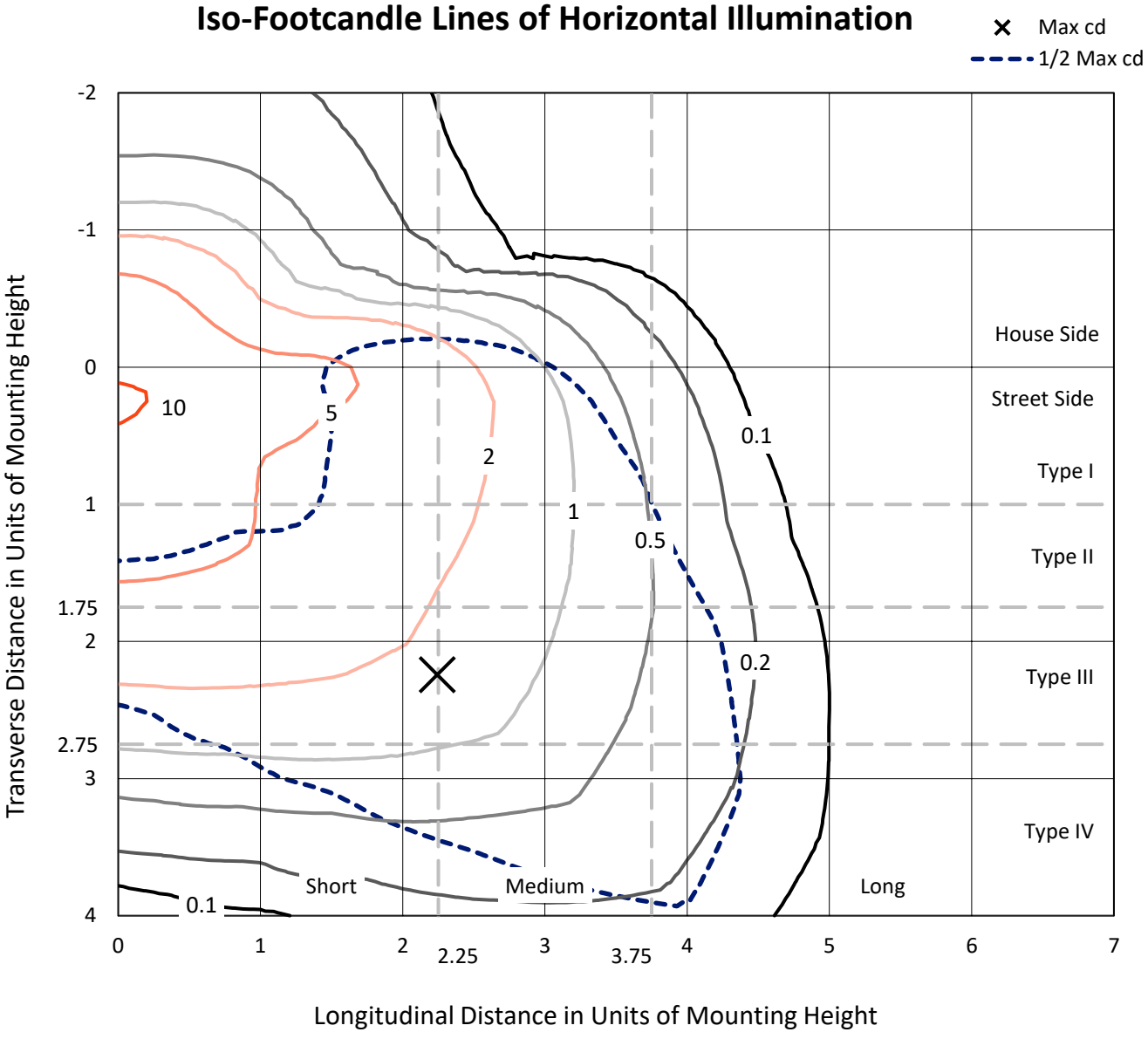
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type IV - Short - N/A

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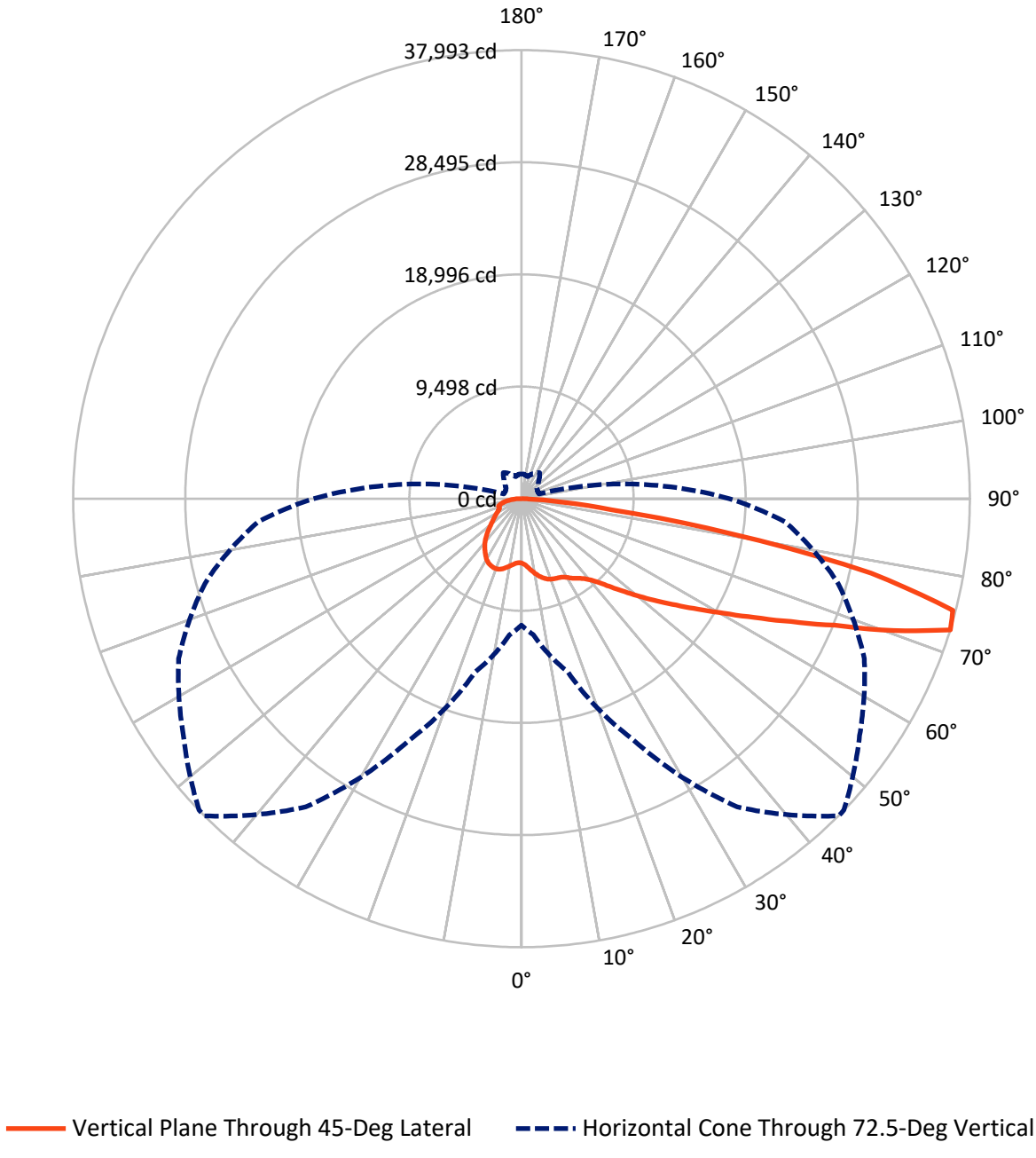
Luminous Intensity Polar Plot



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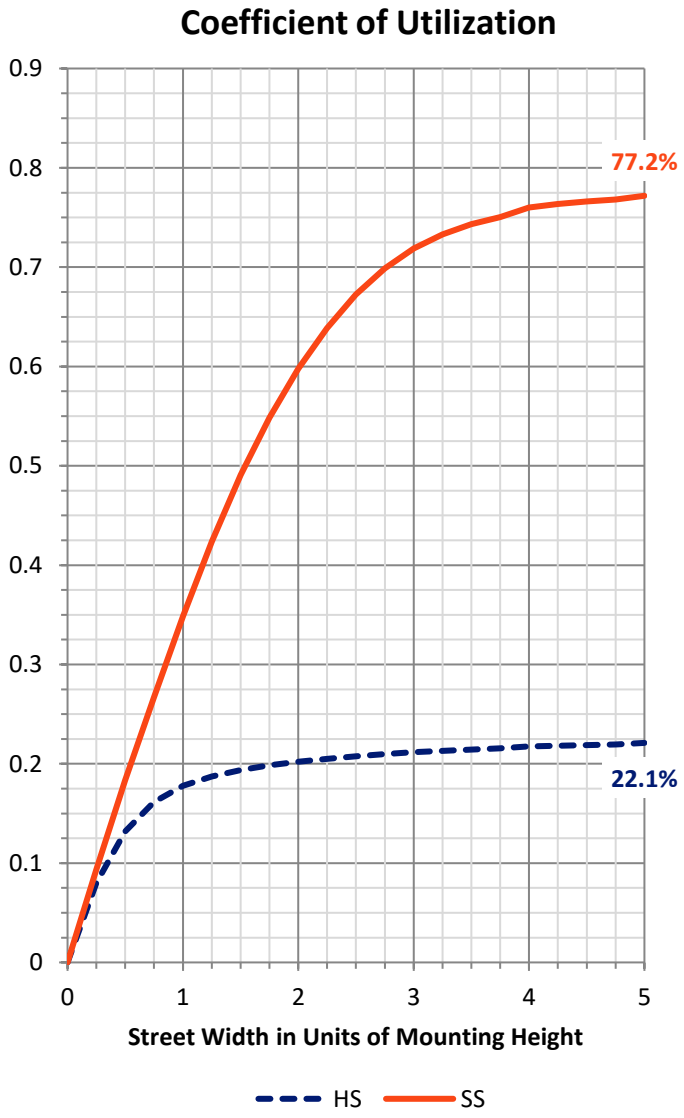
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12243.0	0.0	12243.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	41914.0	0.0	41914.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	54157.0	0.0	54157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.1	1.0
10°-20°	1854.0	3.4
20°-30°	3225.1	6.0
30°-40°	4623.4	8.5
40°-50°	6510.0	12.0
50°-60°	9971.4	18.4
60°-70°	14445.1	26.7
70°-80°	11535.3	21.3
80°-90°	1436.7	2.7
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°	54157.0	100.0
0°-180°	54157.0	100.0



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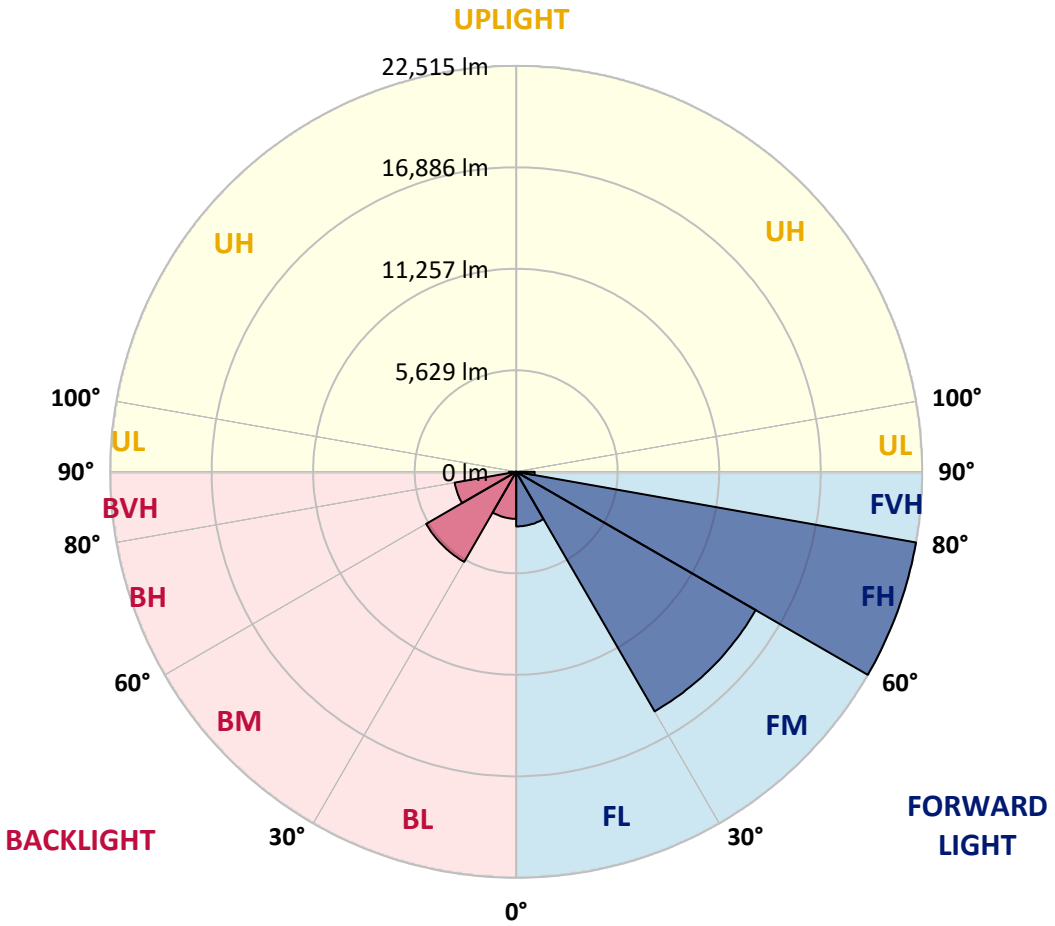
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3028.5	5.6			
FM	(30°-60°)	15340.1	28.3			
FH	(60°-80°)	22514.7	41.6			G5
FVH	(80°-90°)	1030.7	1.9			G5
BL	(0°-30°)	2606.6	4.8	B4/5000		
BM	(30°-60°)	5764.7	10.6	B4/8500		
BH	(60°-80°)	3465.7	6.4	B4/5000		G4/5000
BVH	(80°-90°)	406.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4
2.5°	5677.4	5714.4	5680.2	5648.8	5634.6	5597.5	5594.6	5571.8	5557.5	5517.6
5°	6073.9	6122.4	6065.4	6002.6	5945.5	5854.2	5842.8	5777.2	5703.0	5617.4
7.5°	6521.8	6564.6	6499.0	6404.9	6305.0	6153.8	6150.9	6031.1	5914.2	5768.7
10°	6912.7	6969.7	6881.3	6752.9	6627.4	6456.2	6436.2	6299.3	6150.9	5962.7
12.5°	7257.9	7297.8	7212.2	7055.3	6909.8	6738.7	6713.0	6561.8	6396.3	6182.3
15°	7531.8	7583.1	7469.0	7300.7	7146.6	6978.3	6955.5	6818.5	6653.1	6427.7
17.5°	7711.5	7754.3	7637.3	7449.0	7300.7	7160.9	7143.8	7029.7	6884.2	6655.9
20°	7780.0	7825.6	7702.9	7511.8	7374.9	7266.4	7257.9	7175.2	7075.3	6867.0
22.5°	7848.4	7891.2	7731.5	7531.8	7411.9	7343.5	7340.6	7286.4	7246.5	7075.3
25°	8125.2	8136.6	7922.6	7634.5	7463.3	7403.4	7400.5	7397.7	7414.8	7280.7
27.5°	8364.8	8362.0	8179.4	7908.4	7643.0	7517.5	7514.7	7543.2	7597.4	7486.1
30°	8715.7	8684.4	8467.5	8185.1	7942.6	7748.6	7731.5	7705.8	7748.6	7660.2
32.5°	9460.4	9360.5	9009.6	8507.5	8190.8	8042.4	8019.6	7859.9	7877.0	7822.8
35°	10527.4	10396.1	9928.2	9118.0	8498.9	8287.8	8276.4	8073.8	8039.6	7991.1
37.5°	11796.9	11634.3	11089.4	10002.4	9029.6	8573.1	8556.0	8373.4	8233.6	8182.2
40°	13072.2	12866.8	12416.0	11080.8	9811.3	9049.5	8995.3	8718.6	8558.8	8473.2
42.5°	14310.4	14139.2	13754.0	12290.5	10775.6	9745.7	9625.8	9152.2	9032.4	8952.5
45°	15405.9	15251.8	14969.4	13582.9	11905.3	10692.8	10575.9	9802.7	9765.6	9765.6
47.5°	16296.0	16261.8	15962.2	14900.9	13237.7	11771.2	11568.7	10707.1	10807.0	10961.0
50°	17283.1	17189.0	16869.5	16199.0	14803.9	13006.6	12841.1	11816.9	12190.6	12612.9
52.5°	18190.4	18241.7	17885.1	17551.3	16572.8	14384.5	14093.5	13126.4	13933.8	14632.7
55°	19123.3	19126.1	19026.3	18980.6	18427.2	15908.0	15588.5	14701.2	15985.0	16852.3
57.5°	19999.1	20004.8	20153.2	20555.5	20578.3	17665.4	17303.1	16635.5	18264.5	19149.0
60°	20780.8	20820.8	21225.9	22167.4	22469.8	19679.6	19337.3	18920.7	20621.1	21511.2
62.5°	21043.3	21188.8	22090.3	23428.4	24338.5	22150.3	21813.6	21565.4	23097.4	23924.8
65°	20598.3	20932.0	22675.2	24469.7	26261.3	25085.9	24752.1	24481.1	25670.8	26449.6
67.5°	19505.6	19936.4	22641.0	25562.4	28595.1	28617.9	28306.9	27670.7	28429.6	28729.1
70°	16627.0	17271.7	20646.8	25970.3	31274.0	33447.9	33148.4	31510.8	31182.7	29733.4
72.5°	10712.8	11580.1	15203.3	22612.4	31870.2	37992.7	37975.5	34977.1	32052.8	27782.0
75°	3908.5	4439.2	7063.9	14193.4	26752.1	37761.6	37872.8	34383.7	29259.8	21459.8
77.5°	1423.6	1557.7	2305.2	5454.8	16452.9	30298.3	30529.4	27488.1	20826.5	10769.9
80°	747.5	821.6	1181.1	2116.9	7049.6	17993.5	18355.8	16336.0	9788.4	3243.8
82.5°	413.7	447.9	661.9	1149.7	3175.3	7694.4	7911.2	6453.4	3443.5	1375.1
85°	222.5	236.8	311.0	627.6	1552.0	2667.5	2727.4	1928.6	1372.3	807.4
87.5°	65.6	79.9	102.7	199.7	607.7	599.1	613.4	382.3	542.1	408.0
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°
5463.4	0°	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4	5463.4
5506.2	2.5°	5489.1	5480.5	5449.1	5434.9	5417.7	5414.9	5429.2	5432.0	5434.9	5437.7
5568.9	5°	5540.4	5511.9	5483.4	5466.2	5471.9	5474.8	5503.3	5523.3	5537.6	5549.0
5685.9	7.5°	5640.3	5617.4	5568.9	5566.1	5574.7	5600.3	5637.4	5683.1	5708.7	5728.7
5837.1	10°	5788.6	5745.8	5688.8	5697.3	5714.4	5751.5	5828.6	5865.7	5908.4	5945.5
6022.6	12.5°	5939.8	5902.7	5837.1	5842.8	5871.4	5937.0	6011.2	6056.8	6085.3	6113.9
6222.3	15°	6136.7	6071.1	5999.7	5999.7	6051.1	6122.4	6156.7	6193.7	6210.9	6242.2
6436.2	17.5°	6339.2	6253.7	6159.5	6153.8	6216.6	6250.8	6270.8	6276.5	6282.2	6316.4
6644.5	20°	6541.8	6447.7	6313.6	6302.2	6316.4	6310.7	6307.9	6302.2	6310.7	6353.5
6858.5	22.5°	6741.5	6633.1	6447.7	6396.3	6356.4	6302.2	6299.3	6296.4	6302.2	6344.9
7089.6	25°	6975.4	6844.2	6596.0	6441.9	6307.9	6233.7	6242.2	6245.1	6250.8	6285.0
7329.2	27.5°	7229.4	7083.9	6732.9	6427.7	6185.2	6133.8	6119.6	6128.1	6148.1	6202.3
7568.9	30°	7483.3	7312.1	6858.5	6370.6	6031.1	5959.8	5914.2	5934.1	5996.9	6051.1
7777.1	32.5°	7714.4	7543.2	6958.3	6245.1	5834.3	5723.0	5663.1	5688.8	5751.5	5771.5
8008.2	35°	7985.4	7791.4	7001.1	6045.4	5620.3	5449.1	5369.2	5332.2	5363.5	5343.6
8279.2	37.5°	8287.8	8085.2	6995.4	5782.9	5369.2	5172.4	5061.1	4921.3	4855.7	4787.2
8678.7	40°	8735.7	8444.7	6926.9	5466.2	5058.3	4878.5	4678.8	4442.0	4293.7	4159.6
9323.4	42.5°	9346.2	8944.0	6801.4	5118.2	4707.4	4539.0	4268.0	3991.3	3757.3	3534.8
10302.0	45°	10256.3	9597.3	6644.5	4747.3	4327.9	4162.4	3868.6	3557.6	3292.3	3007.0
11691.4	47.5°	11568.7	10476.0	6496.2	4325.1	3928.5	3777.3	3512.0	3223.8	2910.0	2633.3
13699.8	50°	13371.7	11737.0	6359.2	3914.2	3534.8	3420.7	3209.6	2915.7	2599.0	2376.5
16053.5	52.5°	15665.5	13451.6	6302.2	3517.7	3166.8	3124.0	2955.6	2681.8	2382.2	2193.9
18798.0	55°	18298.8	15502.9	6302.2	3138.2	2844.4	2858.6	2741.7	2487.8	2228.1	2059.8
21628.2	57.5°	20986.3	17579.8	6188.0	2787.3	2570.5	2630.4	2556.2	2333.7	2099.8	1925.7
24603.8	60°	23462.6	19320.1	5725.9	2467.8	2328.0	2422.1	2373.6	2182.5	1897.2	1751.7
27091.6	62.5°	25365.5	20301.5	4835.7	2213.9	2128.3	2236.7	2211.0	1982.8	1860.1	1800.2
29134.3	65°	26318.4	20141.8	3697.4	1988.5	1960.0	2128.3	2074.1	2065.5	1968.5	1900.1
29799.0	67.5°	25733.6	18766.7	2681.8	1823.0	1863.0	2028.4	2236.7	2270.9	2091.2	1957.1
27927.5	70°	23168.8	16278.9	1997.1	1666.1	1740.3	2031.3	2550.5	2376.5	2051.3	1894.4
22398.5	72.5°	*17625.5*	*12139.3*	*1549.1*	*1500.6*	*1580.5*	*2045.6*	*2690.3*	*2328.0*	*1937.1*	*2094.1*
13953.7	75°	10079.5	6664.5	1243.9	1298.1	1380.8	1911.5	2619.0	2202.5	1848.7	1922.9
5529.0	77.5°	3842.9	2561.9	1027.1	1098.4	1109.8	1669.0	2504.9	2193.9	1760.3	1717.5
1657.6	80°	1332.3	1001.4	850.2	873.0	858.7	1483.5	2402.2	1908.6	1440.7	1289.5
684.7	82.5°	544.9	499.3	673.3	644.8	610.5	1152.6	1940.0	1560.6	1178.3	1041.3
330.9	85°	236.8	316.7	445.1	390.9	353.8	798.8	1554.9	1320.9	995.7	858.7
108.4	87.5°	48.5	119.8	188.3	176.9	182.6	533.5	1104.1	938.6	704.7	527.8
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°
5463.4
5449.1
5554.7
5734.4
5937.0
6125.3
6253.7
6327.8
6370.6
6373.5
6330.7
6256.5
6111.0
5842.8
5406.3
4830.0
4168.2
3514.8
2972.8
2601.9
2362.2
2179.6
2042.7
1897.2
1728.9
1780.2
1877.2
1934.3
1868.7
2076.9
1922.9
1566.3
1246.7
1029.9
855.9
413.7
0.0

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