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: P956252

Luminaire Tested: **GALN-SB8D-950-U-T4W-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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

Test Information

Test Method:	LM-79-08
Report Number:	P956252
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8D-950-U-T4W-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	44093 lumens
Efficiency:	N/A
Efficacy:	75.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5
Input Watts (W):	584.9
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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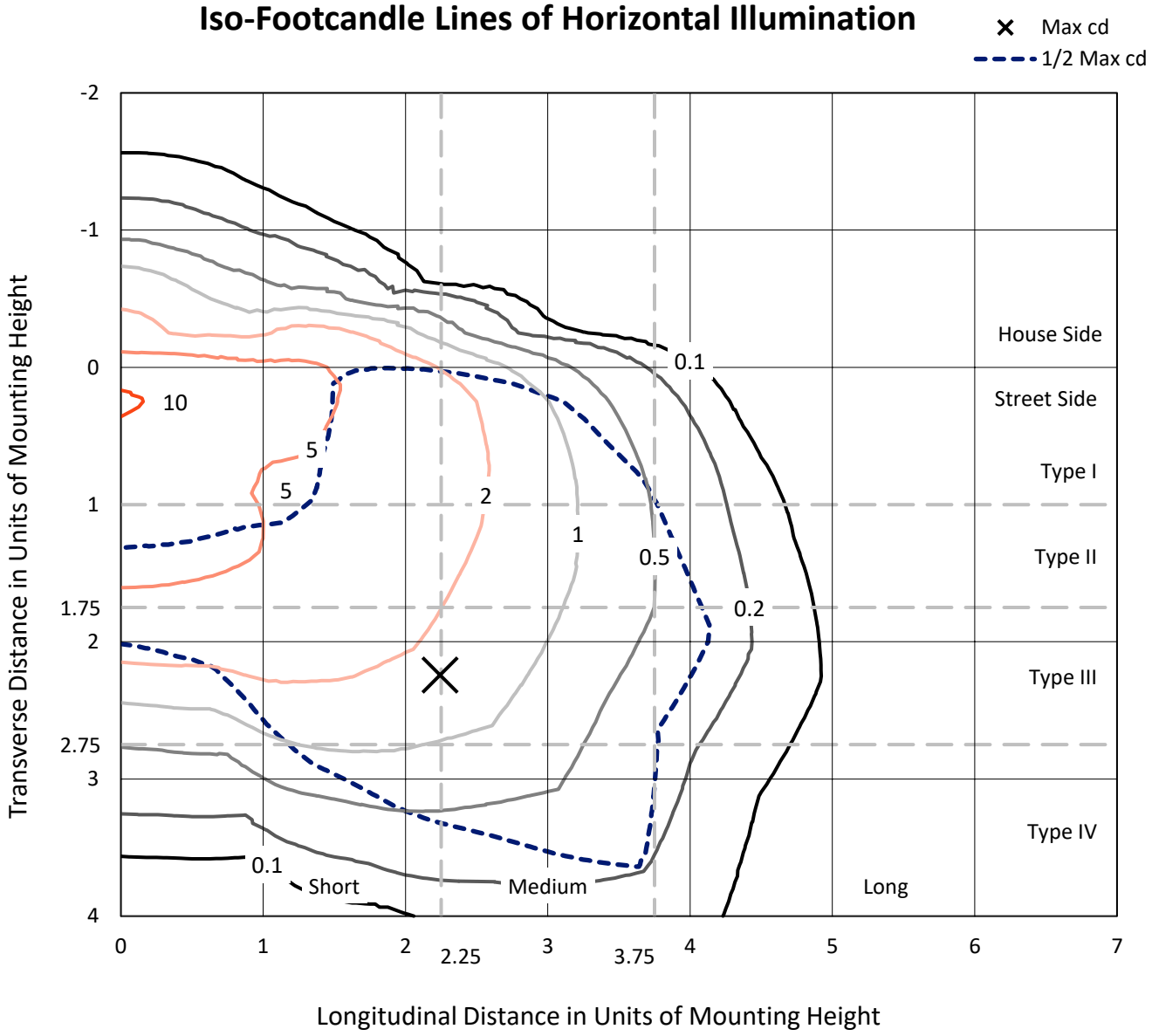
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type IV - Short - N/A

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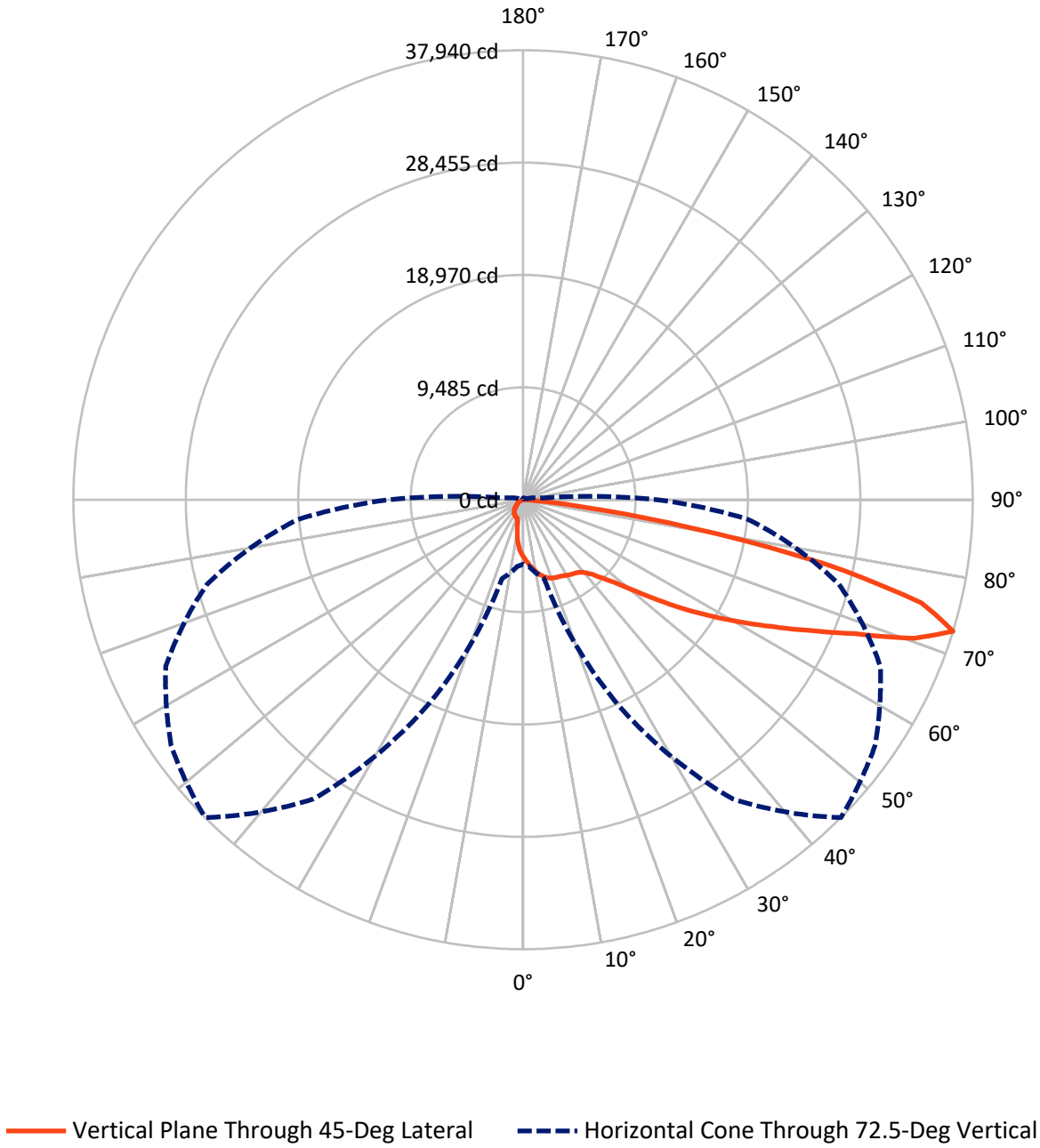
Luminous Intensity Polar Plot



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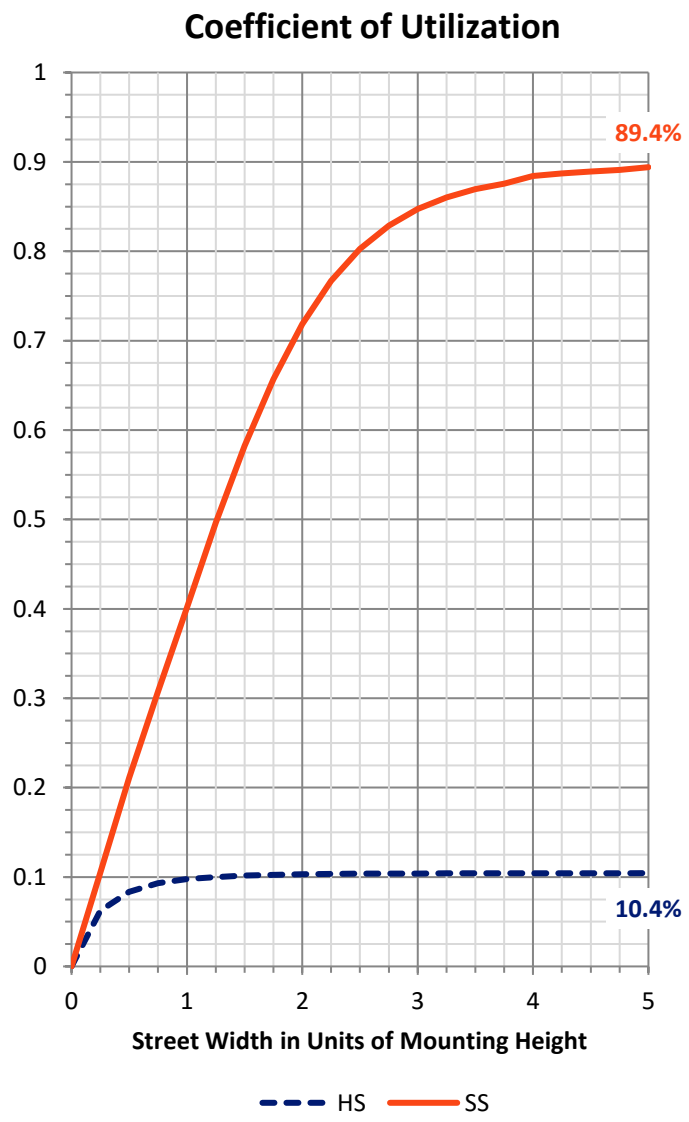
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4633.0	0.0	4633.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	39460.0	0.0	39460.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	44093.0	0.0	44093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.1	1.0
10°-20°	1330.1	3.0
20°-30°	2184.3	5.0
30°-40°	3097.9	7.0
40°-50°	5120.4	11.6
50°-60°	9198.3	20.9
60°-70°	12772.3	29.0
70°-80°	9264.6	21.0
80°-90°	669.8	1.5
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°	44093.0	100.0
0°-180°	44093.0	100.0



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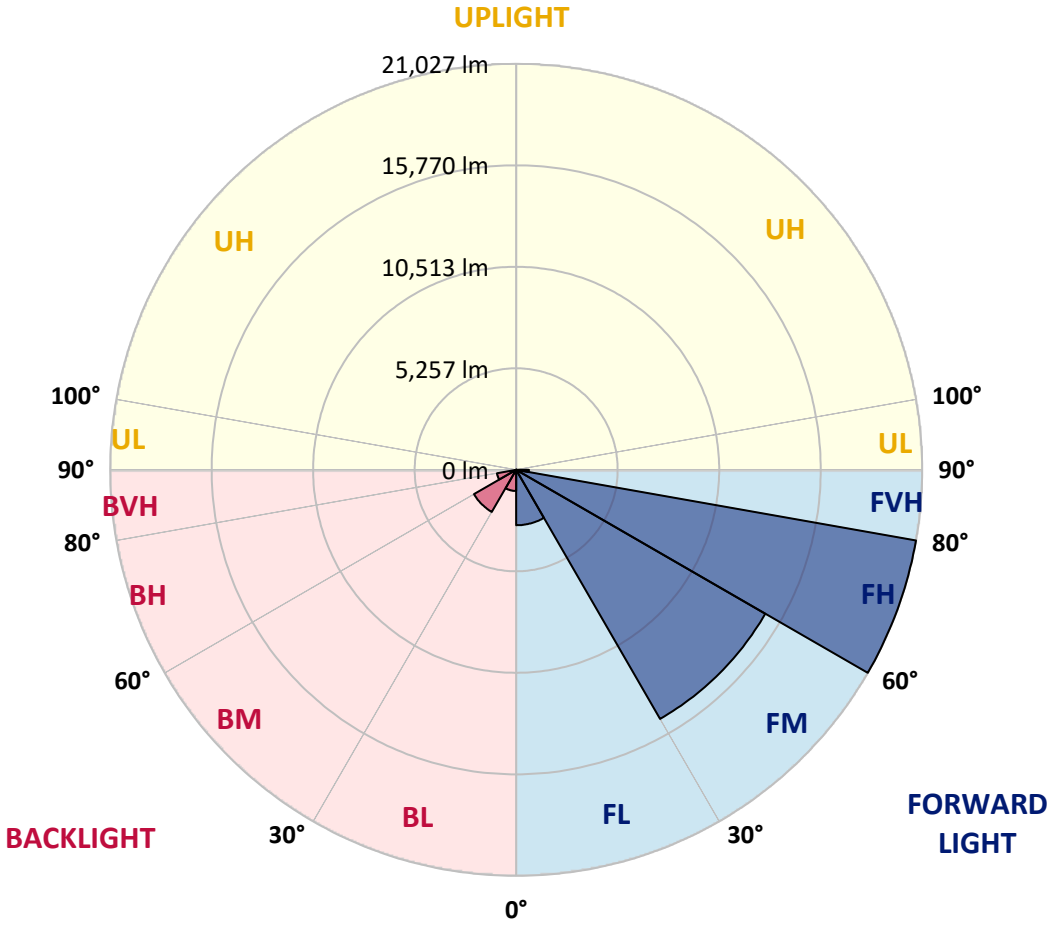
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2872.2	6.5			
FM	(30°-60°)	14897.0	33.8			
FH	(60°-80°)	21026.7	47.7			G5
FVH	(80°-90°)	664.2	1.5			G4/750
BL	(0°-30°)	1097.4	2.5	B3/2500		
BM	(30°-60°)	2519.7	5.7	B3/5000		
BH	(60°-80°)	1010.3	2.3	B3/2500		G3/2500
BVH	(80°-90°)	5.6	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-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4830.5	4830.5	4830.5	4830.5	4830.5	*4830.5*	4830.5	4830.5	4830.5	4830.5
2.5°	5275.9	5284.9	5278.9	5242.8	5182.6	*5149.5*	5131.4	5071.3	5032.1	4962.9
5°	5760.5	5796.6	5775.5	5703.3	5588.9	*5507.7*	5483.6	5360.2	5248.8	5119.4
7.5°	6275.1	6293.2	6254.0	6160.7	6007.3	*5868.8*	5847.7	5676.2	5498.6	5300.0
10°	6720.5	6741.6	6681.4	6546.0	6371.4	*6199.9*	6169.8	5980.2	5769.5	5525.7
12.5°	7093.7	7114.8	7036.6	6874.0	6681.4	*6503.8*	6473.7	6275.1	6043.4	5772.5
15°	7376.6	7415.8	7310.4	7135.9	6928.2	*6750.6*	6735.6	6540.0	6314.2	6013.3
17.5°	7542.2	7581.3	7482.0	7271.3	7093.7	*6943.3*	6925.2	6762.7	6552.0	6263.1
20°	7569.3	7605.4	7500.0	7316.4	7169.0	*7048.6*	7039.6	6922.2	6768.7	6491.8
22.5°	7488.0	7533.1	7436.8	7289.4	7187.0	*7123.8*	7111.8	7045.6	6958.3	6723.5
25°	7403.7	7439.8	7367.6	7238.2	7184.0	*7178.0*	7187.0	7175.0	7156.9	6958.3
27.5°	7397.7	7436.8	7355.6	7232.2	7202.1	*7265.3*	7274.3	7331.5	7346.5	7172.0
30°	7448.9	7476.0	7397.7	7268.3	7253.2	*7397.7*	7400.7	7503.0	7527.1	7352.6
32.5°	7560.2	7590.3	7512.1	7322.5	7301.4	*7503.0*	7512.1	7647.5	7686.6	7545.2
35°	7822.1	7858.2	7767.9	7473.0	7397.7	*7602.4*	7629.5	7789.0	7867.2	7749.8
37.5°	8475.2	8369.8	8246.4	7776.9	7617.4	*7758.9*	7804.0	7990.6	8129.1	7993.6
40°	10097.4	9766.3	9381.1	8294.6	8002.6	*8092.9*	8129.1	8315.7	8505.3	8372.8
42.5°	12532.2	12140.9	11520.9	9486.4	8583.5	*8628.7*	8655.7	8818.3	9086.1	8980.8
45°	14702.1	14560.7	13928.6	11520.9	9670.0	*9447.3*	9480.4	9564.7	9958.9	9919.8
47.5°	16369.5	16288.2	15800.6	13856.4	11505.9	*10449.5*	10542.8	10581.9	11150.7	11289.2
50°	17651.6	17621.5	17185.1	15933.1	13904.6	*11927.2*	11960.3	11876.1	12727.8	13070.9
52.5°	18861.5	18963.8	18641.7	17862.2	16465.8	*13862.4*	13856.4	13459.1	14608.8	15126.5
55°	19954.0	19990.1	20023.2	19830.6	19042.0	*16065.5*	16008.3	15358.2	16790.8	17326.5
57.5°	20980.2	20995.3	21290.2	21684.5	21723.6	*18431.1*	18325.7	17546.2	19174.5	19556.7
60°	21669.5	21738.7	22361.7	23457.2	23935.7	*20871.9*	20814.7	20020.2	21600.2	21777.8
62.5°	20676.3	21097.6	22668.7	24841.6	26024.4	*23577.6*	23550.5	22804.1	24152.4	24007.9
65°	16736.6	17449.9	20212.8	25777.6	28074.0	*26599.3*	26638.4	25843.8	26773.8	26304.3
67.5°	11707.5	12459.9	15728.4	25852.9	30364.3	*30147.6*	30373.3	29127.4	29557.7	28504.4
70°	8095.9	8484.2	10612.0	24233.7	32149.0	*35035.3*	35029.3	33160.3	32326.6	29506.6
72.5°	*5444.4*	*5646.1*	*6892.1*	*19225.6*	*30836.8*	*37939.6*	*37765.0*	*36242.2*	*33259.6*	*27595.4*
75°	2296.4	2443.8	3190.2	10804.6	24396.2	*34710.2*	34237.7	32028.7	29551.7	21729.6
77.5°	728.3	791.5	1258.0	3867.4	13438.1	*26090.6*	25591.0	20002.1	19806.5	10900.9
80°	346.1	403.3	707.3	1553.0	5287.9	*14190.5*	14121.3	9074.1	8520.3	2943.4
82.5°	150.5	177.6	391.3	830.7	2365.6	*5062.2*	5164.6	3087.9	2555.2	1116.6
85°	48.2	63.2	180.6	382.2	999.2	*1258.0*	1243.0	734.4	1029.3	607.9
87.5°	0.0	0.0	60.2	87.3	102.3	*72.2*	81.3	63.2	285.9	168.5
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°
4830.5	0°	4830.5	4830.5	4830.5	4830.5	4830.5	4830.5	4830.5	4830.5	4830.5	4830.5
4890.7	2.5°	4854.6	4806.4	4722.1	4643.9	4574.7	4505.4	4463.3	4403.1	4397.1	4397.1
4968.9	5°	4887.7	4809.4	4658.9	4499.4	4315.8	4141.3	3966.7	3798.2	3744.0	3704.9
5095.3	7.5°	4984.0	4860.6	4622.8	4318.8	3969.7	3587.5	3319.6	3030.7	2919.4	2859.2
5263.9	10°	5122.4	4953.9	4592.7	4060.0	3494.2	2973.5	2591.3	2278.3	2157.9	2106.8
5447.5	12.5°	5275.9	5068.2	4538.5	3738.0	2973.5	2350.5	1977.3	1832.9	1814.8	1814.8
5667.2	15°	5459.5	5206.7	4445.2	3358.8	2428.8	1860.0	1727.5	1733.6	1751.6	1763.7
5880.8	17.5°	5649.1	5354.2	4297.8	2934.4	1947.2	1673.4	1676.4	1685.4	1700.5	1712.5
6112.6	20°	5853.8	5501.6	4102.1	2483.0	1670.4	1619.2	1628.2	1637.2	1649.3	1655.3
6329.3	22.5°	6073.5	5640.1	3870.4	2040.5	1577.1	1574.0	1577.1	1586.1	1601.1	1601.1
6582.1	25°	6308.2	5793.6	3605.6	1718.5	1528.9	1528.9	1534.9	1540.9	1553.0	1553.0
6825.9	27.5°	6549.0	5935.0	3325.7	1550.0	1486.8	1483.8	1483.8	1492.8	1498.8	1501.8
7066.6	30°	6813.8	6100.6	3045.8	1513.9	1453.7	1438.6	1429.6	1435.6	1441.6	1444.6
7319.5	32.5°	7084.7	6260.1	2796.0	1528.9	1420.6	1393.5	1363.4	1357.4	1357.4	1369.4
7581.3	35°	7385.7	6434.6	2603.3	1580.1	1402.5	1327.3	1279.1	1252.0	1255.0	1273.1
7894.3	37.5°	7746.8	6645.3	2461.9	1625.2	1390.5	1252.0	1173.8	1140.7	1119.6	1140.7
8324.7	40°	8219.3	6955.3	2359.6	1661.3	1375.4	1164.7	1059.4	1005.2	966.1	978.1
8992.8	42.5°	8914.6	7442.9	2320.4	1664.3	1342.3	1062.4	942.0	869.8	812.6	815.6
9998.0	45°	9889.7	8213.3	2522.1	1625.2	1270.1	951.0	818.6	722.3	686.2	677.2
11499.9	47.5°	11226.0	9335.9	2988.6	1543.9	1164.7	842.7	698.2	617.0	589.9	574.8
13471.2	50°	13016.7	10777.5	3506.2	1453.7	1059.4	740.4	598.9	547.8	529.7	514.6
15809.7	52.5°	15093.4	12240.2	3930.6	1363.4	954.1	650.1	535.7	505.6	490.6	478.5
18066.9	55°	16998.5	13248.5	3906.5	1267.1	851.7	577.9	490.6	472.5	454.5	442.4
20011.1	57.5°	18184.3	13389.9	3220.3	1161.7	734.4	520.7	448.4	436.4	415.3	400.3
21693.5	60°	18729.0	12583.3	2257.2	1023.3	617.0	466.5	403.3	397.3	370.2	349.1
23285.6	62.5°	18828.3	11084.5	1504.8	851.7	514.6	415.3	358.1	349.1	313.0	276.9
24579.8	65°	18425.1	8941.7	1041.3	665.1	439.4	361.2	307.0	288.9	249.8	213.7
24886.8	67.5°	17149.0	6278.1	725.3	478.5	373.2	285.9	243.8	237.8	207.7	177.6
23321.7	70°	14810.5	3578.5	484.6	358.1	294.9	195.6	192.6	198.6	168.5	144.5
19054.1	72.5°	*11355.4*	*1637.2*	*301.0*	*261.8*	*201.6*	*132.4*	*153.5*	*156.5*	*129.4*	*108.3*
11888.1	75°	6684.4	701.2	189.6	168.5	102.3	87.3	111.4	114.4	87.3	69.2
4345.9	77.5°	2275.3	264.8	120.4	99.3	51.2	48.2	72.2	72.2	48.2	27.1
872.8	80°	517.7	99.3	60.2	39.1	24.1	21.1	24.1	21.1	12.0	3.0
267.9	82.5°	147.5	39.1	24.1	15.0	9.0	9.0	3.0	0.0	0.0	0.0
93.3	85°	42.1	18.1	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
33.1	87.5°	18.1	3.0	0.0	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

180°
4830.5
4412.1
3722.9
2868.2
2106.8
1814.8
1763.7
1712.5
1658.3
1607.2
1556.0
1504.8
1450.6
1378.4
1282.1
1134.6
972.1
803.6
665.1
565.8
511.6
475.5
436.4
397.3
343.1
258.8
201.6
168.5
132.4
96.3
60.2
21.1
0.0
0.0
0.0
0.0
0.0

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