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

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: P957149

Luminaire Tested: **GALN-SB9C-830-U-T2R-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:	P957149
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB9C-830-U-T2R-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	51896 lumens
Efficiency:	N/A
Efficacy:	115.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B2 - U0 - G5
Input Watts (W):	449.8
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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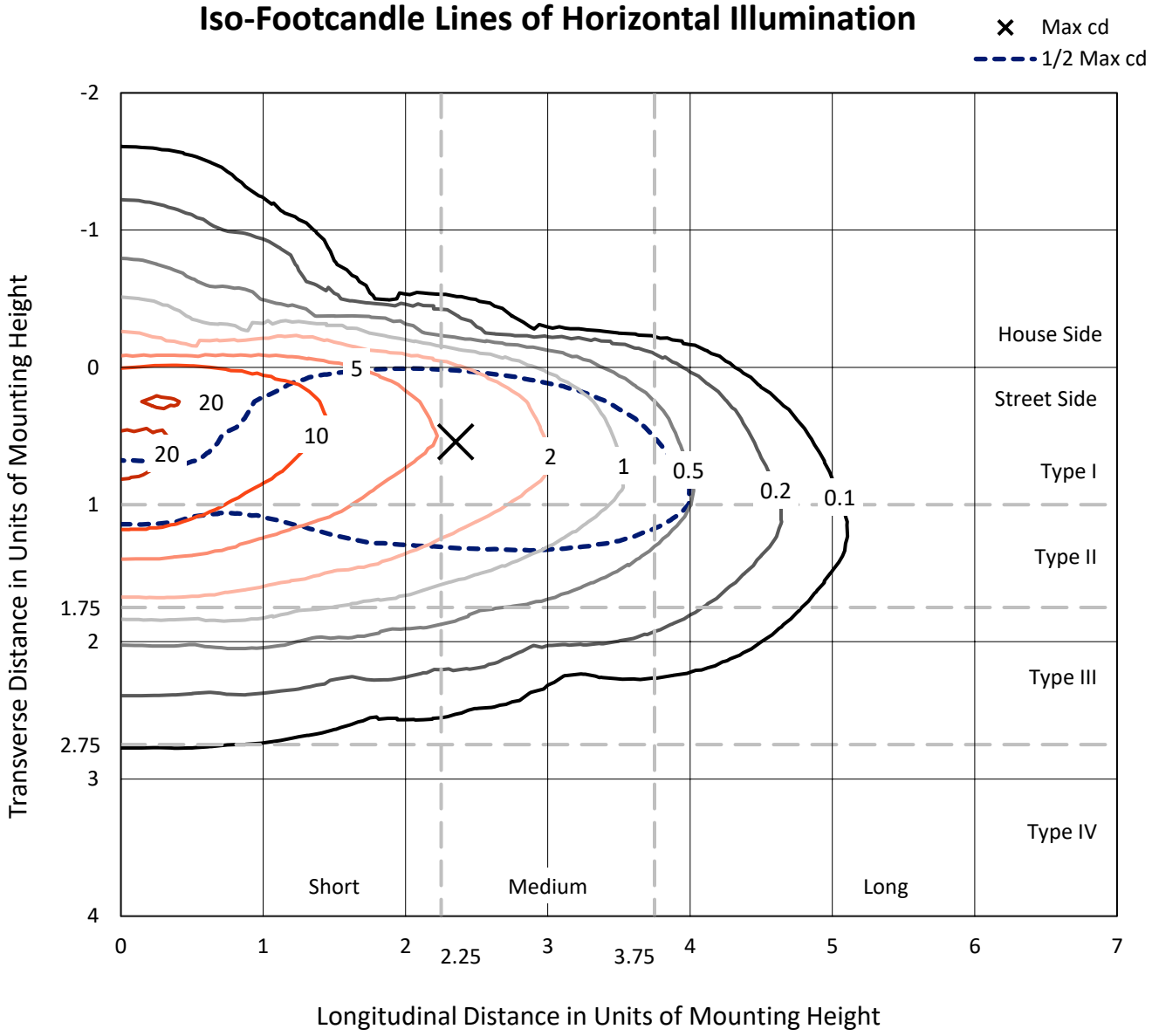
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
Type II - Medium - N/A

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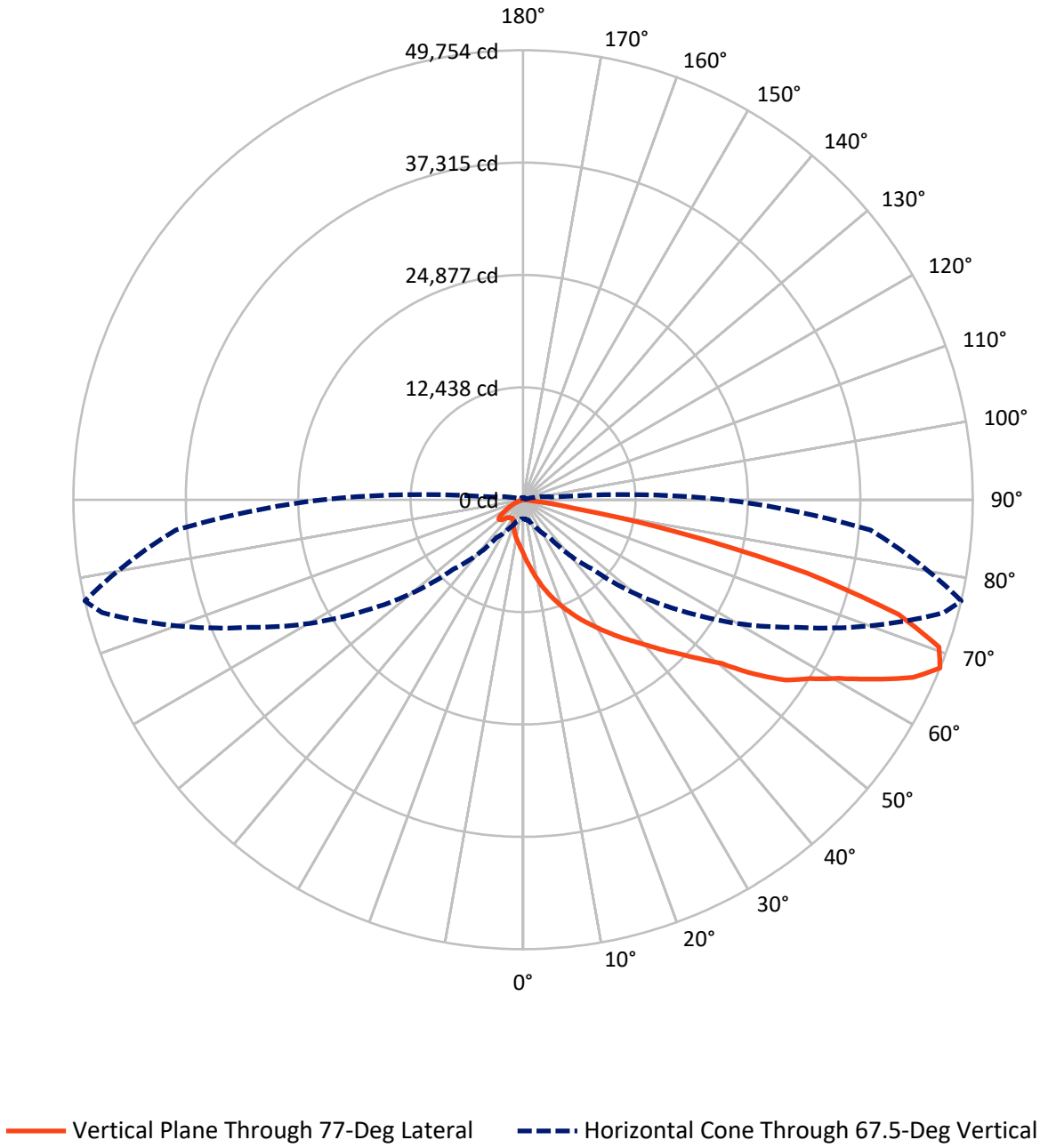
Luminous Intensity Polar Plot



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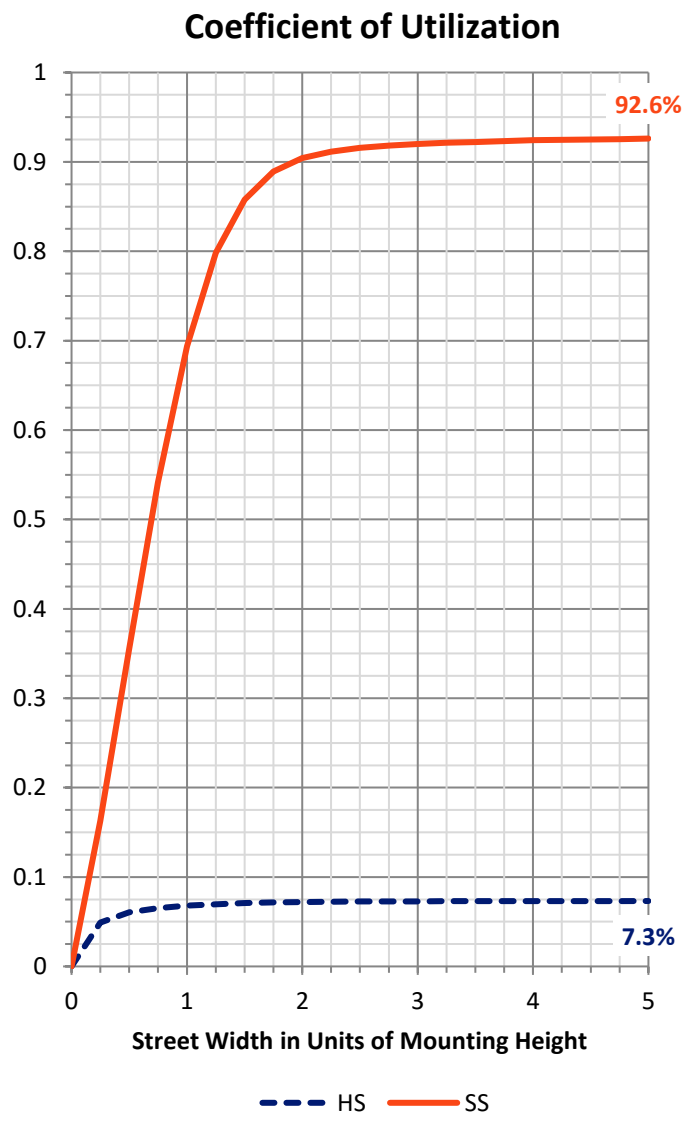
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3818.0	0.0	3818.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	48078.0	0.0	48078.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	51896.0	0.0	51896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.8	1.2
10°-20°	2139.0	4.1
20°-30°	4127.6	8.0
30°-40°	7165.8	13.8
40°-50°	10404.3	20.0
50°-60°	11948.0	23.0
60°-70°	10373.1	20.0
70°-80°	4885.8	9.4
80°-90°	241.6	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°	51896.0	100.0
0°-180°	51896.0	100.0



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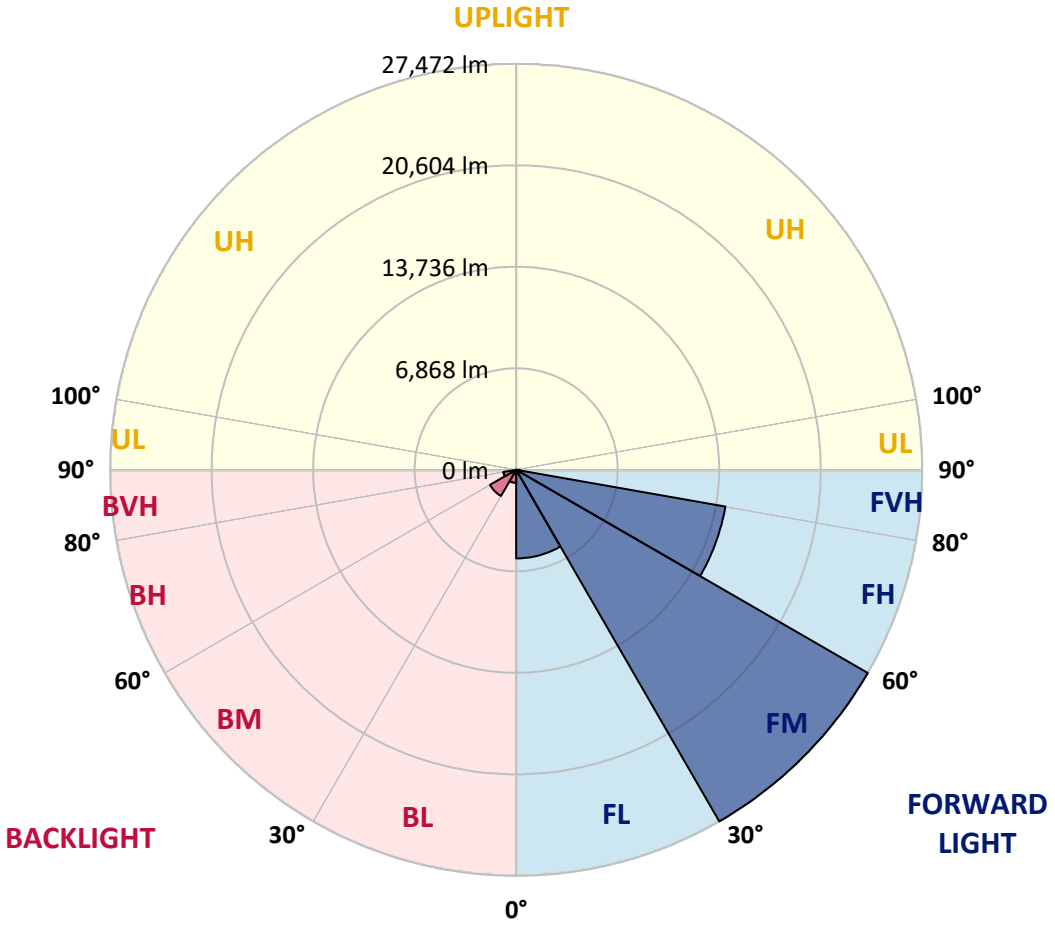
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	5993.4	11.5			
FM	(30°-60°)	27472.3	52.9			
FH	(60°-80°)	14375.0	27.7			G5
FVH	(80°-90°)	237.2	0.5			G3/500
BL	(0°-30°)	883.9	1.7	B2/1000		
BM	(30°-60°)	2045.7	3.9	B2/2500		
BH	(60°-80°)	883.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	*5984.4*
2.5°	8285.3	8336.9	8262.8	8121.0	7908.3	7769.7	7431.3	7112.3	6757.8	*6645.0*
5°	10099.6	10144.8	10061.0	9906.3	9622.7	9352.0	8907.3	8240.2	7547.3	*7325.0*
7.5°	11443.5	11469.2	11437.0	11295.2	11024.5	10718.4	10222.1	9432.6	8404.5	*8159.6*
10°	12410.2	12494.0	12484.4	12429.6	12249.1	12001.0	11472.5	10573.4	9364.9	*9049.1*
12.5°	13051.5	13145.0	13199.8	13322.2	13312.6	13154.7	12690.6	11739.9	10322.0	*9951.4*
15°	13238.4	13338.3	13547.8	13831.4	14082.8	14163.3	13837.9	12884.0	11375.8	*10902.1*
17.5°	13132.1	13286.8	13538.2	13986.1	14537.2	14901.3	14865.9	13989.3	12332.9	*11791.5*
20°	13367.4	13515.6	13712.2	14089.2	14730.5	15391.1	15655.4	15046.3	13283.6	*12716.4*
22.5°	14669.3	14643.5	14662.8	14724.1	15107.6	15761.7	16306.4	16006.7	14224.6	*13644.5*
25°	16731.7	16615.7	16419.2	16087.2	15990.6	16306.4	16873.5	16857.4	15217.1	*14595.2*
27.5°	19097.1	19077.8	18617.0	17817.8	17366.6	17244.1	17514.8	17685.6	16200.0	*15536.2*
30°	21362.6	21414.2	20792.2	19902.8	19074.6	18594.4	18349.5	18472.0	17199.0	*16551.3*
32.5°	23334.9	23389.6	22712.9	21672.0	20647.2	20067.1	19551.5	19248.6	18288.3	*17582.5*
35°	25000.9	25055.7	24279.1	23128.6	22036.2	21510.9	20927.6	20099.4	19384.0	*18726.5*
37.5°	26489.8	26473.7	25432.8	24272.6	23199.5	22783.8	22477.6	21146.7	20511.9	*19877.0*
40°	27369.6	27437.2	26547.8	25268.4	24227.5	23924.6	23905.3	22445.4	21813.8	*21198.3*
42.5°	27627.4	27746.6	27102.1	26051.5	25107.3	24778.6	25284.5	23850.5	23328.4	*22729.0*
45°	27163.3	27279.3	26986.1	26257.8	25706.7	25494.0	26470.5	25307.1	24946.2	*24353.2*
47.5°	25809.8	25954.8	26025.7	25871.0	25864.6	26080.5	27533.9	26841.1	26866.8	*26261.0*
50°	23189.8	23434.8	24085.7	24633.6	25481.1	26544.6	28568.4	28503.9	29032.4	*28510.4*
52.5°	18426.8	18774.9	21017.8	22516.3	24420.9	26457.6	29705.9	31172.2	32831.9	*32068.1*
55°	14807.9	14807.9	16631.8	19435.5	22352.0	25883.9	30202.2	32906.0	35419.6	*35239.2*
57.5°	12071.9	12216.9	13380.2	15858.4	19358.2	24517.6	30508.4	33995.2	37504.6	*37372.5*
60°	7450.7	7763.2	9961.1	12407.0	15951.9	22084.5	30315.0	35097.4	40034.4	*40140.7*
62.5°	4195.8	4311.8	5291.5	8926.6	12403.8	18813.5	28835.8	35712.9	43269.9	*43721.0*
65°	2897.1	2955.1	3332.2	5555.8	8597.9	14978.7	25945.2	35329.4	46511.8	*47423.8*
67.5°	*2104.4*	*2133.4*	*2368.6*	*3393.4*	*5101.4*	*10860.2*	*21414.2*	*33395.8*	*48229.5*	*49753.8*
70°	1617.7	1637.1	1807.9	2230.0	3013.1	6703.0	15552.3	29551.3	46985.5	*48806.3*
72.5°	1314.8	1334.2	1466.3	1650.0	1998.0	3963.8	9426.1	23998.7	41494.2	*43460.0*
75°	1108.6	1134.4	1253.6	1372.8	1566.2	2545.9	4421.4	16712.4	31204.5	*32493.5*
77.5°	615.5	567.2	1018.3	1137.6	1321.3	1611.3	2068.9	9835.4	17476.2	*17833.9*
80°	383.5	396.4	808.9	915.2	1015.1	812.1	947.4	3786.6	6058.5	*5755.6*
82.5°	22.6	51.6	622.0	660.6	696.1	348.0	357.7	1285.8	1459.8	*1340.6*
85°	0.0	0.0	283.6	228.8	241.7	99.9	103.1	299.7	196.6	*212.7*
87.5°	0.0	0.0	0.0	6.4	0.0	9.7	19.3	25.8	9.7	*12.9*
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°
5984.4	0°	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4	5984.4
6290.5	2.5°	6064.9	5839.4	5381.7	4933.8	4569.6	4231.3	3989.6	3760.8	3644.8	3638.3
6696.6	5°	6248.6	5774.9	4859.7	4050.8	3399.8	2877.8	2539.4	2297.7	2175.3	2133.4
7196.1	7.5°	6506.4	5794.2	4402.1	3277.4	2510.4	2062.5	1869.1	1791.8	1766.0	1737.0
7760.0	10°	6831.9	5839.4	3992.8	2639.3	1978.7	1753.1	1675.8	1643.5	1624.2	1604.9
8394.9	12.5°	7196.1	5881.2	3586.8	2191.4	1740.2	1624.2	1569.4	1530.7	1505.0	1482.4
9045.8	15°	7550.6	5907.0	3164.6	1878.8	1617.7	1524.3	1466.3	1424.4	1388.9	1363.2
9683.9	17.5°	7901.8	5942.5	2768.2	1691.9	1517.8	1424.4	1366.4	1314.8	1285.8	1256.8
10354.2	20°	8291.8	5936.0	2394.4	1559.7	1417.9	1324.5	1263.3	1214.9	1185.9	1153.7
11063.2	22.5°	8652.7	5903.8	2065.7	1446.9	1314.8	1224.6	1156.9	1108.6	1079.6	1053.8
11788.3	25°	9068.4	5878.0	1791.8	1343.8	1218.1	1127.9	1053.8	1008.7	976.4	953.9
12516.6	27.5°	9468.0	5839.4	1592.0	1250.4	1124.7	1037.7	966.8	915.2	886.2	870.1
13267.5	30°	9861.2	5829.7	1517.8	1160.1	1040.9	953.9	883.0	834.7	812.1	805.7
14092.4	32.5°	10334.9	5855.5	1550.1	1127.9	963.6	876.5	808.9	773.4	750.9	750.9
15010.9	35°	10840.8	5849.0	1598.4	1156.9	912.0	799.2	747.6	725.1	702.5	702.5
16029.2	37.5°	11475.7	5858.7	1637.1	1205.3	892.7	734.8	705.7	676.7	663.9	663.9
17144.2	40°	12423.1	6177.7	1617.7	1247.1	886.2	689.6	631.6	622.0	612.3	612.3
18404.3	42.5°	13583.3	6870.6	1643.5	1250.4	883.0	657.4	580.1	599.4	576.8	573.6
19825.4	45°	14853.0	7627.9	1807.9	1182.7	879.8	641.3	554.3	576.8	541.4	541.4
21472.2	47.5°	16113.0	8378.8	1975.5	1086.0	870.1	638.1	531.7	518.8	509.2	512.4
23618.4	50°	17850.0	8991.1	2039.9	953.9	847.5	631.6	489.8	493.1	486.6	493.1
26644.5	52.5°	19741.7	9120.0	1962.6	805.7	783.1	612.3	460.8	473.7	470.5	476.9
28774.6	55°	20921.1	8981.4	1621.0	670.3	683.2	535.0	431.8	457.6	457.6	457.6
30856.4	57.5°	22139.3	8391.7	1150.5	544.6	567.2	438.3	406.0	441.5	438.3	435.1
33363.6	60°	23015.8	7437.8	757.3	447.9	451.2	360.9	377.0	415.7	412.5	396.4
35948.1	62.5°	23670.0	6384.0	486.6	380.3	344.8	325.5	344.8	377.0	364.2	328.7
38139.5	65°	23595.9	4924.1	373.8	325.5	283.6	283.6	299.7	328.7	290.0	232.0
38558.4	67.5°	*22219.8*	*3332.2*	*309.4*	*273.9*	*238.5*	*235.2*	*248.1*	*273.9*	*248.1*	*196.6*
36412.2	70°	19761.0	2178.5	248.1	212.7	190.1	174.0	199.8	235.2	209.5	157.9
30998.2	72.5°	16038.9	1327.7	186.9	154.7	138.6	112.8	157.9	193.4	167.6	116.0
21556.0	75°	10376.8	676.7	128.9	99.9	74.1	67.7	116.0	145.0	116.0	70.9
9564.7	77.5°	3970.2	283.6	70.9	45.1	38.7	32.2	64.5	87.0	48.3	16.1
1853.0	80°	763.8	119.2	35.4	22.6	19.3	12.9	9.7	6.4	0.0	0.0
328.7	82.5°	132.1	38.7	12.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0
64.5	85°	45.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.6	87.5°	16.1	0.0	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°
5984.4
3631.9
2126.9
1730.5
1598.4
1476.0
1359.9
1253.6
1150.5
1050.6
950.7
870.1
802.4
750.9
702.5
663.9
612.3
570.4
541.4
512.4
493.1
476.9
457.6
435.1
396.4
322.3
225.6
190.1
151.5
109.6
61.2
12.9
0.0
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