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: P941884

Luminaire Tested: **GALN-SB5C-850-U-T2-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P941884
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB5C-850-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26424 lumens
Efficiency:	N/A
Efficacy:	105.9 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B3 - U0 - G3
Input Watts (W):	249.5
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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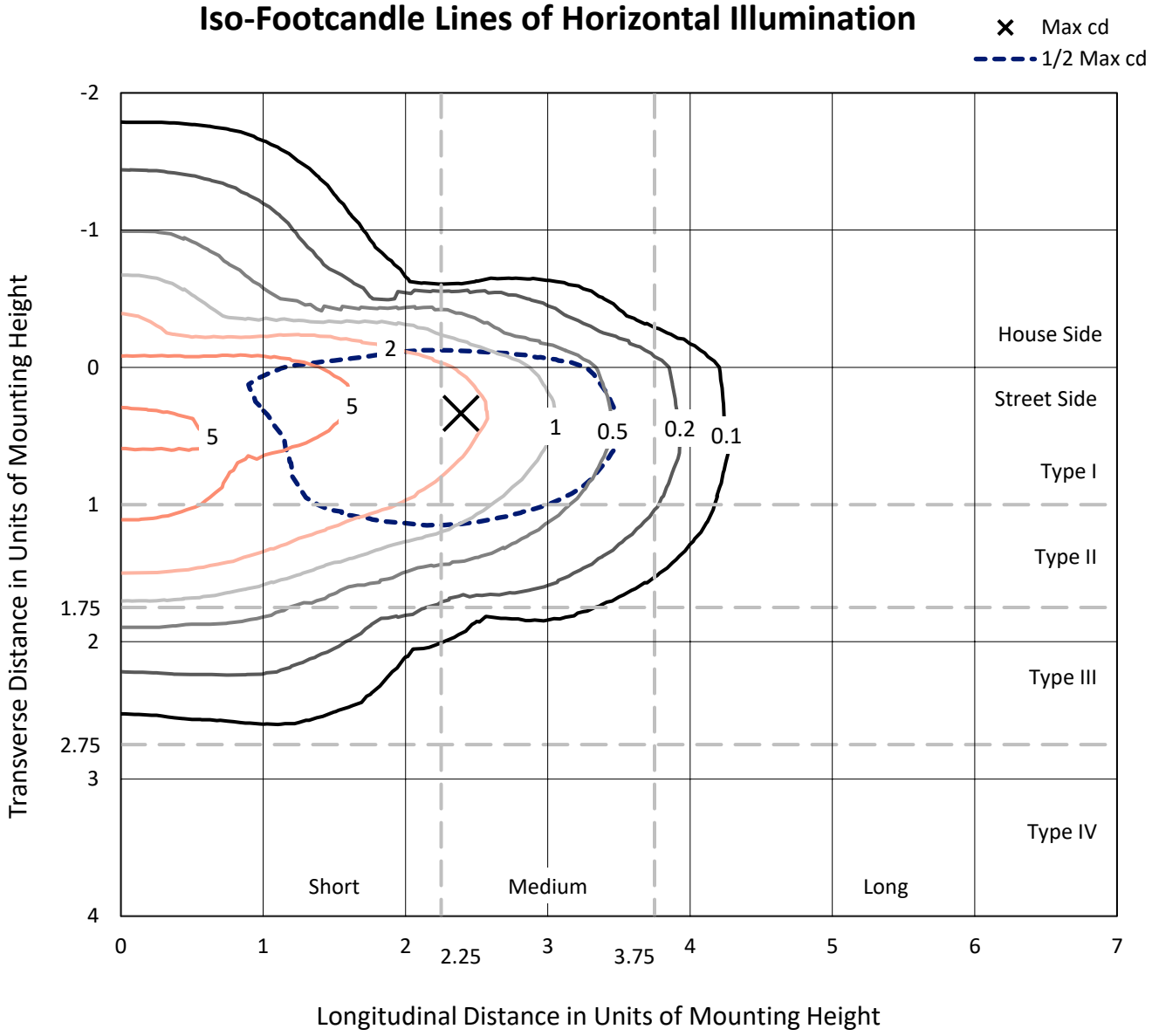
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Medium - N/A

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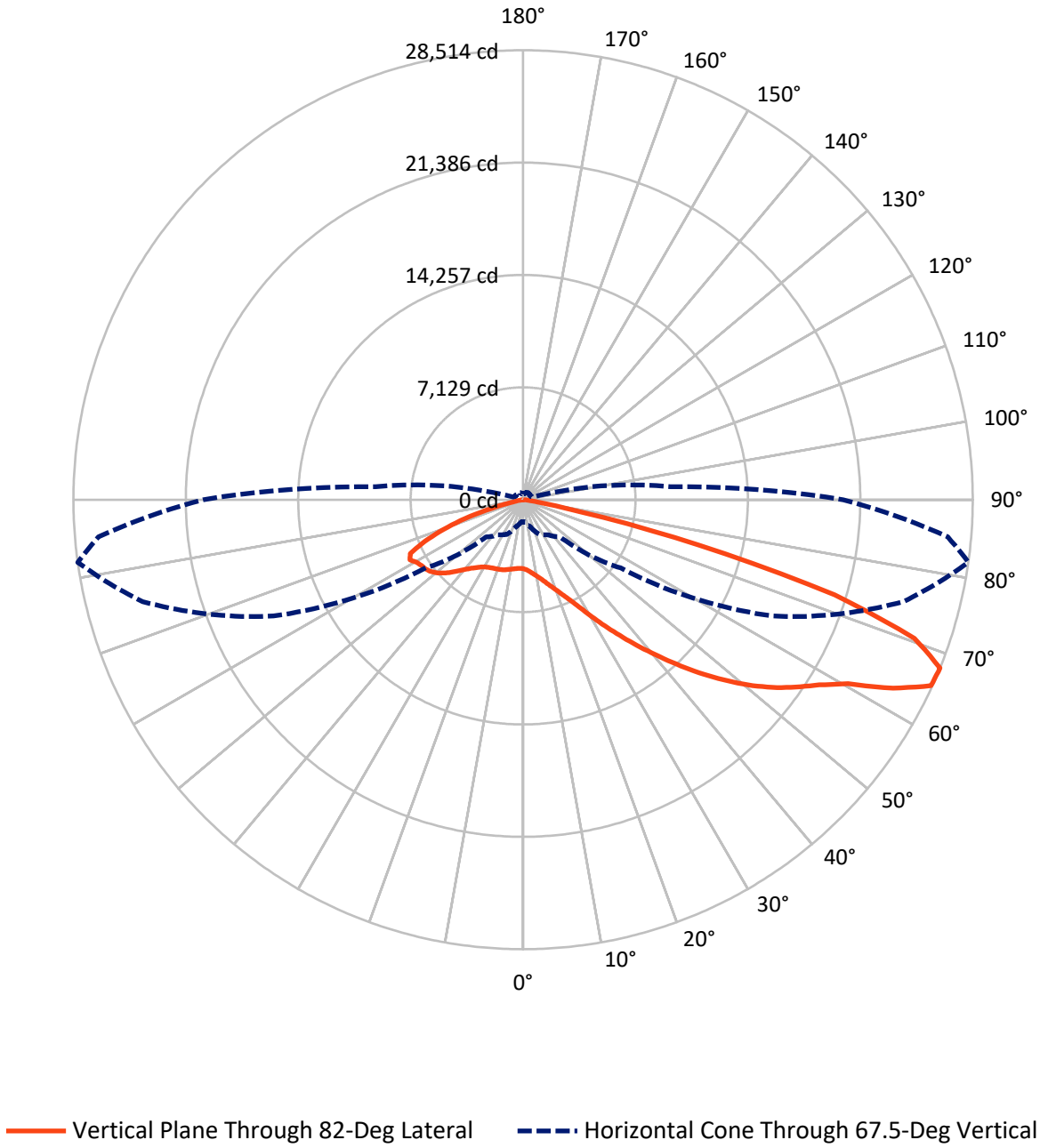
Luminous Intensity Polar Plot



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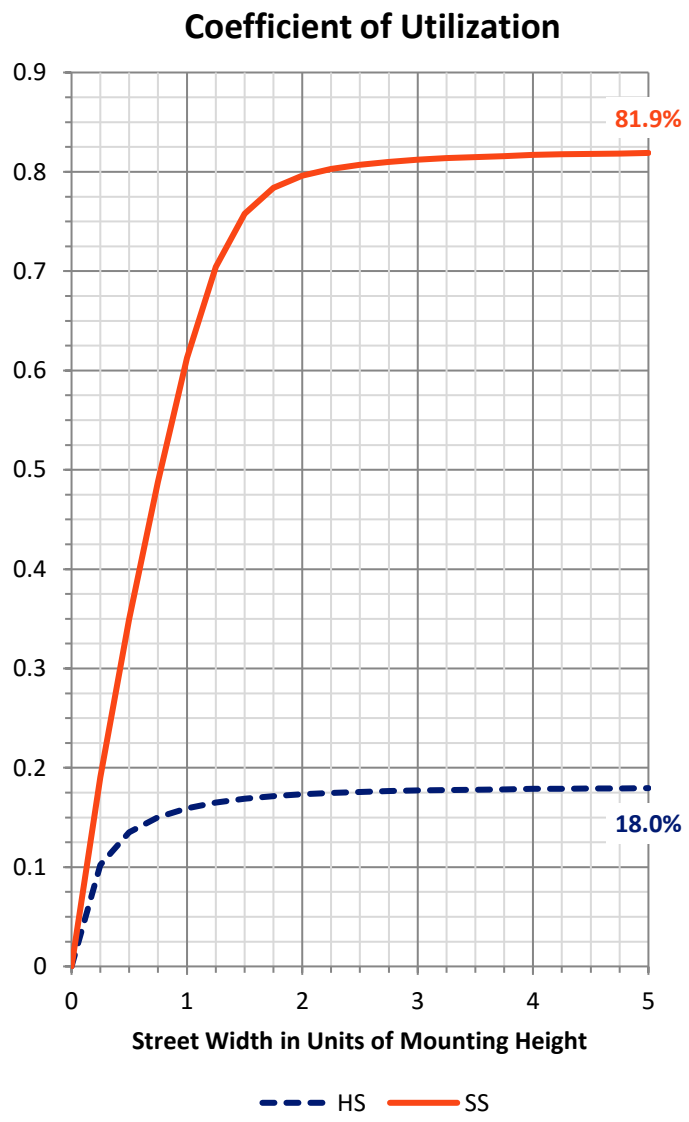
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4786.5	0.0	4786.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21637.5	0.0	21637.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	26424.0	0.0	26424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.0	1.5
10°-20°	1013.5	3.8
20°-30°	1623.3	6.1
30°-40°	2870.4	10.9
40°-50°	5029.3	19.0
50°-60°	6707.6	25.4
60°-70°	6244.5	23.6
70°-80°	2396.6	9.1
80°-90°	148.8	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°	26424.0	100.0
0°-180°	26424.0	100.0



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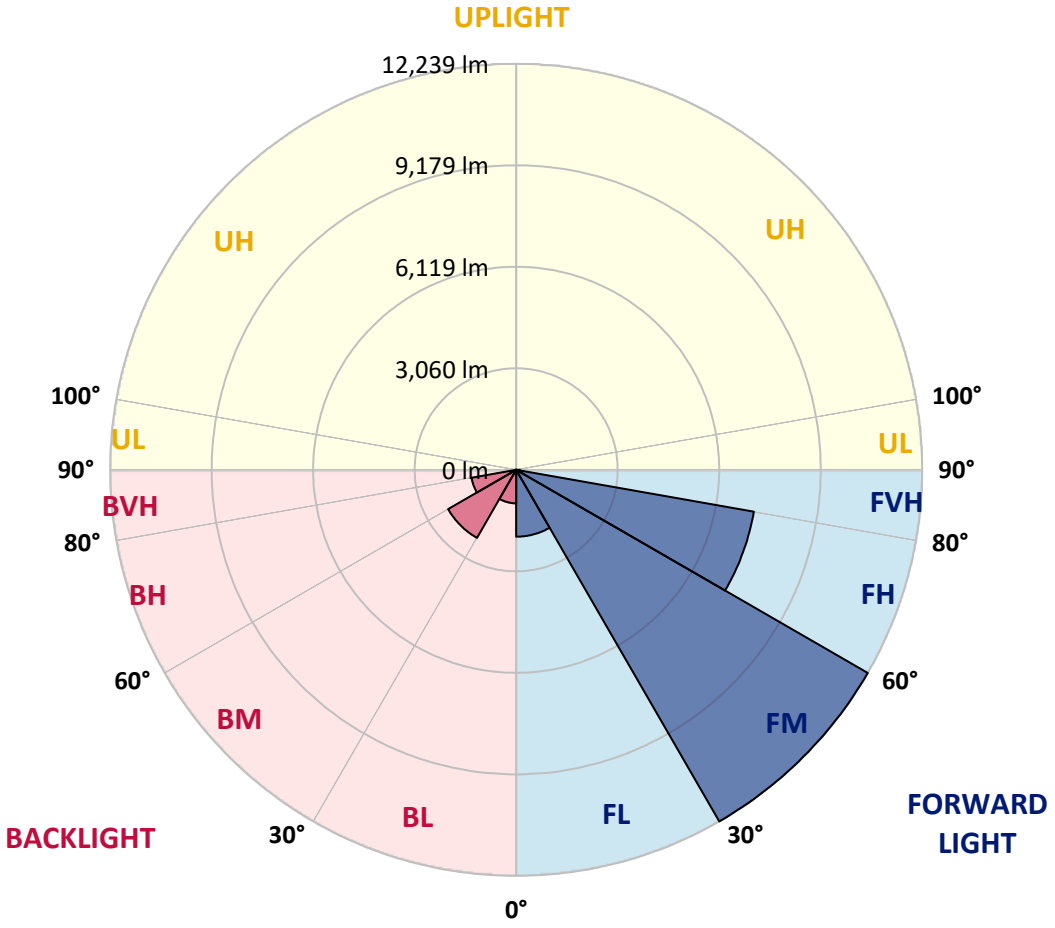
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2015.9	7.6			
FM	(30°-60°)	12238.5	46.3			
FH	(60°-80°)	7274.9	27.5			G3/7500
FVH	(80°-90°)	108.2	0.4			G2/225
BL	(0°-30°)	1010.9	3.8	B3/2500		
BM	(30°-60°)	2368.8	9.0	B2/2500		
BH	(60°-80°)	1366.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	40.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	*4377.6*
2.5°	4626.8	4653.4	4638.2	4630.6	4617.3	4598.2	4583.0	4535.5	4486.0	*4453.7*
5°	4720.0	4746.6	4744.7	4752.3	4761.9	4767.6	4763.8	4710.5	4640.1	*4584.9*
7.5°	4640.1	4670.5	4695.3	4733.3	4799.9	4870.3	4904.5	4893.1	4820.8	*4744.7*
10°	4413.7	4446.1	4505.0	4594.4	4735.2	4887.4	5014.9	5073.9	5028.2	*4944.5*
12.5°	3999.0	4031.3	4147.4	4341.4	4577.3	4841.8	5085.3	5243.2	5254.6	*5170.9*
15°	3532.9	3565.2	3688.9	3932.4	4292.0	4716.2	5123.3	5422.0	5522.8	*5450.6*
17.5°	3243.7	3272.2	3365.5	3561.4	3936.2	4465.1	5110.0	5612.3	5842.5	*5785.4*
20°	3156.2	3180.9	3224.7	3361.6	3673.7	4204.4	5022.5	5791.1	6186.8	*6154.5*
22.5°	3249.4	3272.2	3285.6	3346.4	3542.4	4033.2	4912.2	5973.7	6586.3	*6590.1*
25°	3464.4	3487.2	3472.0	3510.0	3595.7	3979.9	4870.3	6188.7	7088.6	*7130.4*
27.5°	3818.2	3820.1	3784.0	3782.1	3795.4	4059.9	4914.1	6418.9	7722.1	*7800.1*
30°	4527.9	4499.3	4360.4	4210.1	4141.7	4299.6	5035.8	6691.0	8469.8	*8608.6*
32.5°	5621.8	5579.9	5325.0	4965.4	4604.0	4685.8	5254.6	7001.1	9284.0	*9535.1*
35°	6808.9	6797.5	6531.1	5996.6	5364.9	5235.6	5610.4	7408.2	10172.5	*10572.0*
37.5°	7912.3	7906.6	7754.4	7124.7	6356.1	6002.3	6181.1	7940.9	11123.7	*11702.0*
40°	8920.6	8937.8	8785.6	8222.4	7448.1	6985.8	6957.3	8599.1	12181.5	*12932.9*
42.5°	9792.0	9811.0	9656.9	9240.3	8526.8	8074.0	7910.4	9405.8	13214.5	*14255.1*
45°	10383.6	10501.6	10478.8	10145.8	9634.1	9164.2	9055.7	10417.9	14392.1	*15657.3*
47.5°	10551.0	10659.5	10830.7	10876.4	10564.4	10102.1	10231.4	11637.4	15583.1	*17061.3*
50°	10138.2	10239.0	10594.8	11068.5	11285.4	11142.7	11374.8	12944.3	16802.5	*18461.5*
52.5°	9324.0	9426.7	9875.7	10625.2	11509.9	11958.9	12522.0	14232.3	17984.0	*19787.5*
55°	8146.3	8254.8	8831.2	9679.7	11081.8	12295.6	13478.9	15518.4	19066.5	*20980.3*
57.5°	6544.5	6624.4	7223.6	8410.8	10005.0	11960.8	14184.7	16922.4	20086.2	*22152.3*
60°	4265.3	4335.7	5032.0	6356.1	8220.5	10842.1	14325.5	18488.1	21440.7	*23676.1*
62.5°	2836.6	2884.1	3297.0	4269.1	5789.2	8694.2	13501.8	19738.0	23426.9	*26328.2*
65°	1946.2	1993.8	2406.6	3083.9	3740.2	5751.1	11133.2	19572.5	25226.6	*28434.2*
67.5°	*1388.8*	*1428.7*	*1778.8*	*2418.0*	*2707.2*	*3340.7*	*7547.1*	*17457.0*	*24967.9*	*28514.1*
70°	995.0	1017.8	1307.0	1883.4	2151.7	2007.1	4196.8	13351.5	21861.2	*26330.1*
72.5°	696.3	703.9	907.5	1434.5	1733.1	1464.9	1997.6	8901.6	16534.3	*20666.4*
75°	471.8	481.3	610.7	1052.1	1390.7	1118.6	1057.8	4773.3	9706.4	*11439.5*
77.5°	289.2	293.0	393.8	719.1	1040.6	852.3	681.1	2022.3	3755.5	*3687.0*
80°	163.6	163.6	251.1	447.1	709.6	549.8	477.5	859.9	1189.0	*1044.5*
82.5°	91.3	93.2	182.6	277.8	469.9	325.3	262.5	397.6	513.7	*454.7*
85°	38.0	41.9	112.2	131.3	224.5	161.7	106.5	167.4	190.2	*169.3*
87.5°	3.8	5.7	34.2	24.7	26.6	32.3	15.2	32.3	26.6	*26.6*
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°
4377.6	0°	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6	4377.6
4442.2	2.5°	4406.1	4377.6	4305.3	4221.6	4111.2	4057.9	3985.7	3936.2	3894.3	3898.1
4552.6	5°	4491.7	4419.4	4257.7	4056.0	3804.9	3626.1	3435.8	3304.6	3198.0	3175.2
4704.8	7.5°	4609.7	4495.5	4212.0	3848.7	3424.4	3102.9	2815.6	2631.1	2499.8	2458.0
4889.3	10°	4761.9	4596.3	4153.1	3588.0	2977.4	2568.3	2260.1	2115.5	2026.1	1995.7
5106.2	12.5°	4938.8	4712.4	4075.1	3270.3	2517.0	2123.1	1927.2	1854.9	1826.4	1816.9
5372.5	15°	5161.4	4857.0	3957.1	2893.6	2127.0	1851.1	1767.4	1757.9	1761.7	1757.9
5692.2	17.5°	5425.8	5014.9	3765.0	2505.5	1864.4	1712.2	1681.8	1689.4	1698.9	1697.0
6049.8	20°	5715.0	5170.9	3519.6	2161.2	1685.6	1613.3	1596.2	1603.8	1611.4	1607.6
6462.7	22.5°	6044.1	5338.3	3247.5	1892.9	1565.7	1522.0	1502.9	1504.8	1504.8	1497.2
6985.8	25°	6437.9	5522.8	2962.1	1702.7	1474.4	1440.2	1417.3	1409.7	1398.3	1375.5
7621.3	27.5°	6907.8	5718.8	2688.2	1569.5	1402.1	1369.8	1343.1	1324.1	1295.6	1257.5
8384.1	30°	7436.7	5956.6	2456.1	1485.8	1345.0	1312.7	1282.3	1253.7	1211.9	1164.3
9261.2	32.5°	8058.8	6211.5	2286.8	1430.7	1293.7	1259.4	1223.3	1189.0	1143.4	1095.8
10246.7	35°	8800.8	6519.7	2187.8	1392.6	1253.7	1208.1	1168.1	1130.1	1095.8	1054.0
11317.7	37.5°	9605.5	6847.0	2157.4	1373.6	1227.1	1156.7	1111.0	1084.4	1080.6	1055.9
12476.3	40°	10486.4	7235.1	2180.2	1362.2	1198.6	1107.2	1057.8	1052.1	1061.6	1017.8
13714.8	42.5°	11418.6	7695.5	2218.3	1348.8	1158.6	1057.8	1010.2	1010.2	1002.6	941.7
15023.7	45°	12426.9	8226.2	2256.3	1316.5	1111.0	1008.3	972.2	958.8	926.5	867.5
16340.2	47.5°	13442.8	8766.5	2284.9	1257.5	1054.0	966.5	934.1	903.7	856.1	802.8
17632.0	50°	14407.3	9251.7	2254.4	1170.0	989.3	926.5	892.3	850.4	799.0	762.9
18855.3	52.5°	15269.2	9672.1	2125.0	1067.3	920.8	884.6	854.2	810.4	768.6	730.5
19958.7	55°	16018.7	10012.7	1896.8	970.3	859.9	848.5	818.1	762.9	705.8	673.5
21052.6	57.5°	16737.9	10271.4	1611.4	890.4	804.7	808.5	762.9	713.4	660.2	625.9
22527.0	60°	17694.8	10617.6	1322.2	816.2	745.8	757.2	707.7	671.6	605.0	561.2
25055.4	62.5°	19224.4	11156.0	1050.2	724.8	677.3	681.1	660.2	616.4	536.5	485.1
26929.3	65°	20438.1	10958.2	827.6	625.9	599.3	605.0	605.0	557.4	471.8	412.8
27030.2	67.5°	*20301.2*	*9382.9*	*660.2*	*528.9*	*525.1*	*528.9*	*542.2*	*502.2*	*418.5*	*371.0*
24971.7	70°	18701.2	7463.4	528.9	439.5	456.6	447.1	485.1	458.5	376.7	329.1
19359.4	72.5°	15259.6	5376.4	403.3	363.4	350.1	365.3	437.6	412.8	313.9	260.6
10254.3	75°	8916.8	2868.9	300.6	287.3	253.0	304.4	388.1	352.0	239.7	192.1
3142.9	77.5°	2903.2	1000.7	220.7	211.2	188.3	245.4	331.0	296.8	196.0	152.2
920.8	80°	778.1	302.5	150.3	138.9	121.8	182.6	262.5	235.9	140.8	98.9
395.7	82.5°	312.0	127.5	87.5	78.0	66.6	125.6	207.4	190.2	104.6	62.8
123.7	85°	100.8	41.9	32.3	24.7	30.4	78.0	123.7	129.4	74.2	32.3
19.0	87.5°	13.3	5.7	5.7	7.6	5.7	13.3	38.0	36.1	20.9	3.8
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

180°
4377.6
3860.1
3123.8
2416.1
1972.9
1811.1
1756.0
1693.2
1605.7
1493.4
1371.7
1253.7
1160.5
1097.7
1050.2
1054.0
1019.7
941.7
865.6
800.9
757.2
726.7
669.7
622.1
555.5
481.3
407.1
363.4
323.4
254.9
186.4
146.5
97.0
62.8
24.7
0.0
0.0

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