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: P939854

Luminaire Tested: **GALN-SB2C-927-U-T2-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:	P939854
	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-SB2C-927-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 90 CRI, 2700K, 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:	6657 lumens
Efficiency:	N/A
Efficacy:	66.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G2
Input Watts (W):	100.9
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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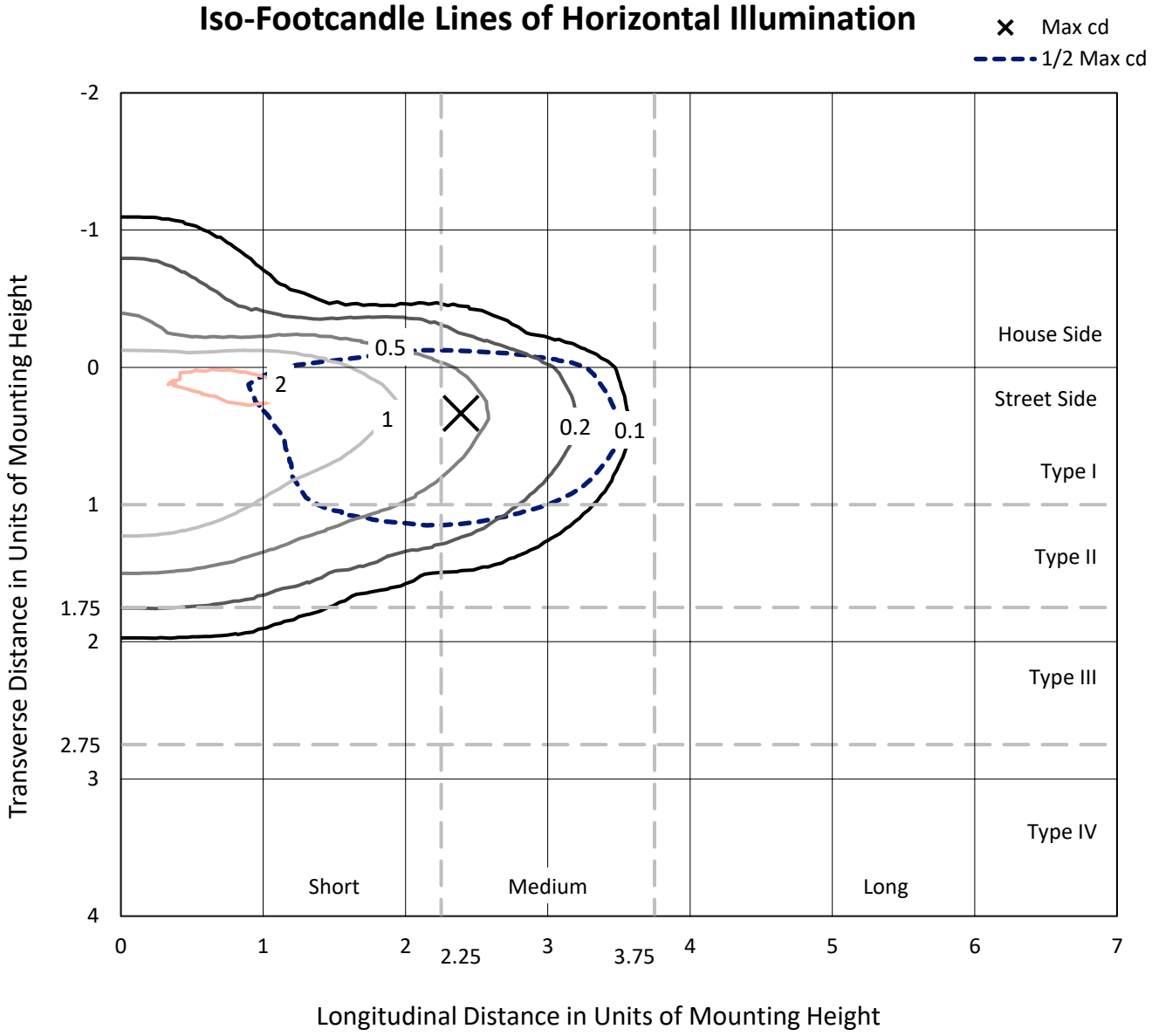
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type II - Medium - N/A

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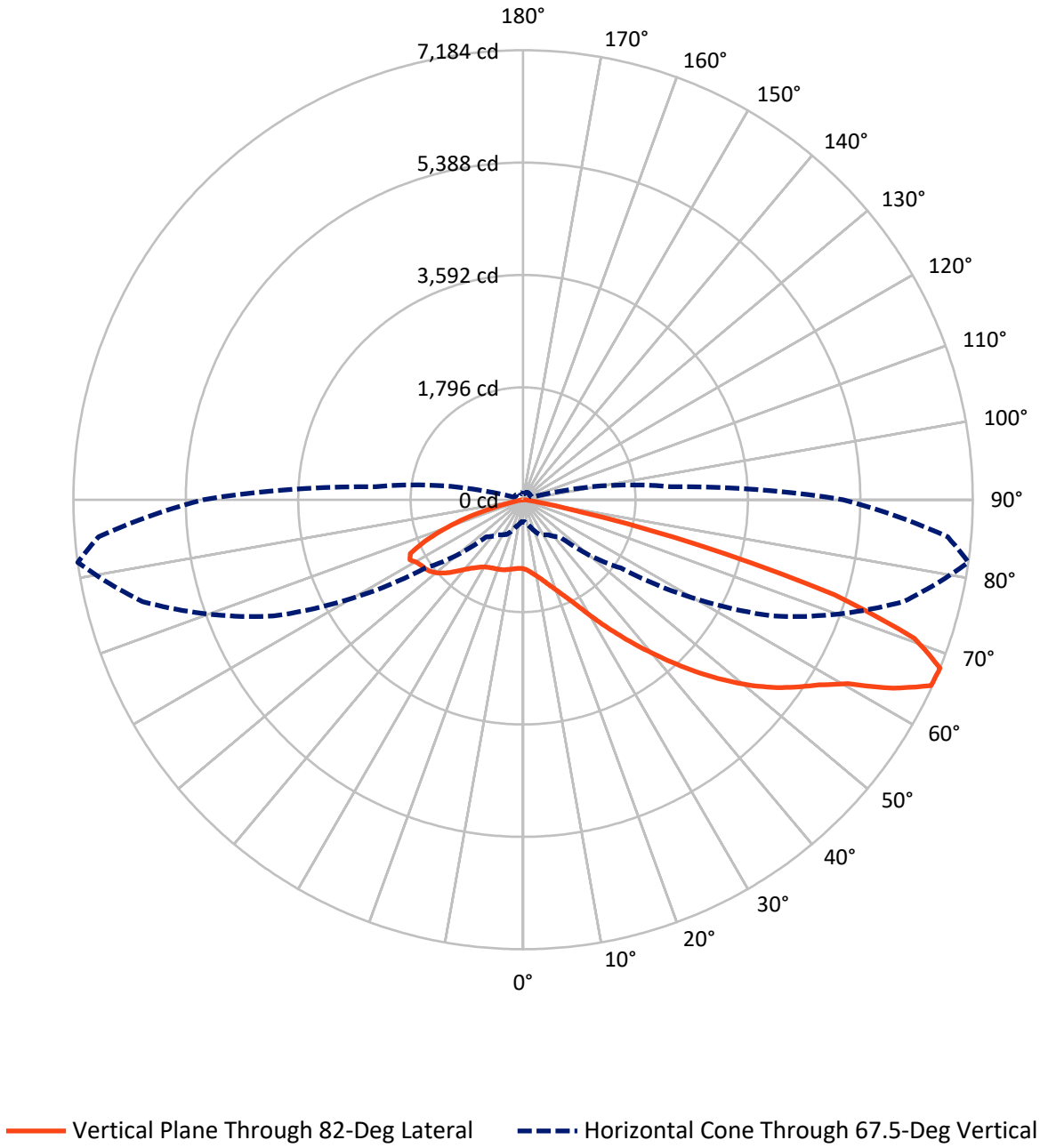
Luminous Intensity Polar Plot



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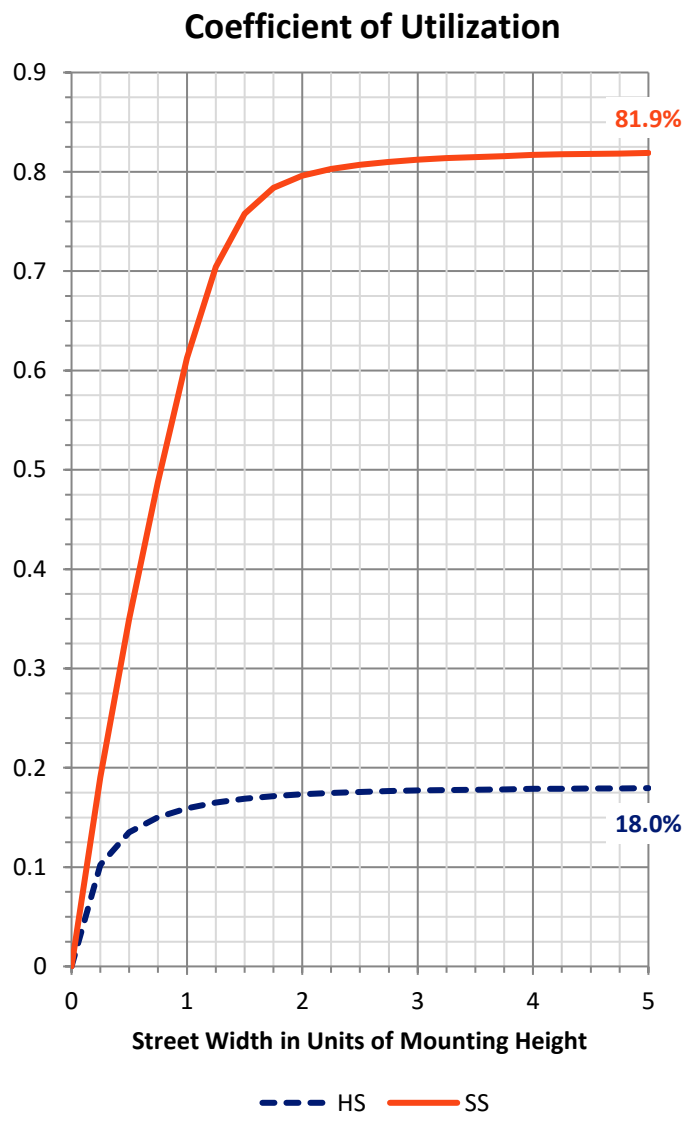
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.9	0.0	1205.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5451.1	0.0	5451.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	6657.0	0.0	6657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.5
10°-20°	255.3	3.8
20°-30°	408.9	6.1
30°-40°	723.1	10.9
40°-50°	1267.0	19.0
50°-60°	1689.9	25.4
60°-70°	1573.2	23.6
70°-80°	603.8	9.1
80°-90°	37.5	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°	6657.0	100.0
0°-180°	6657.0	100.0



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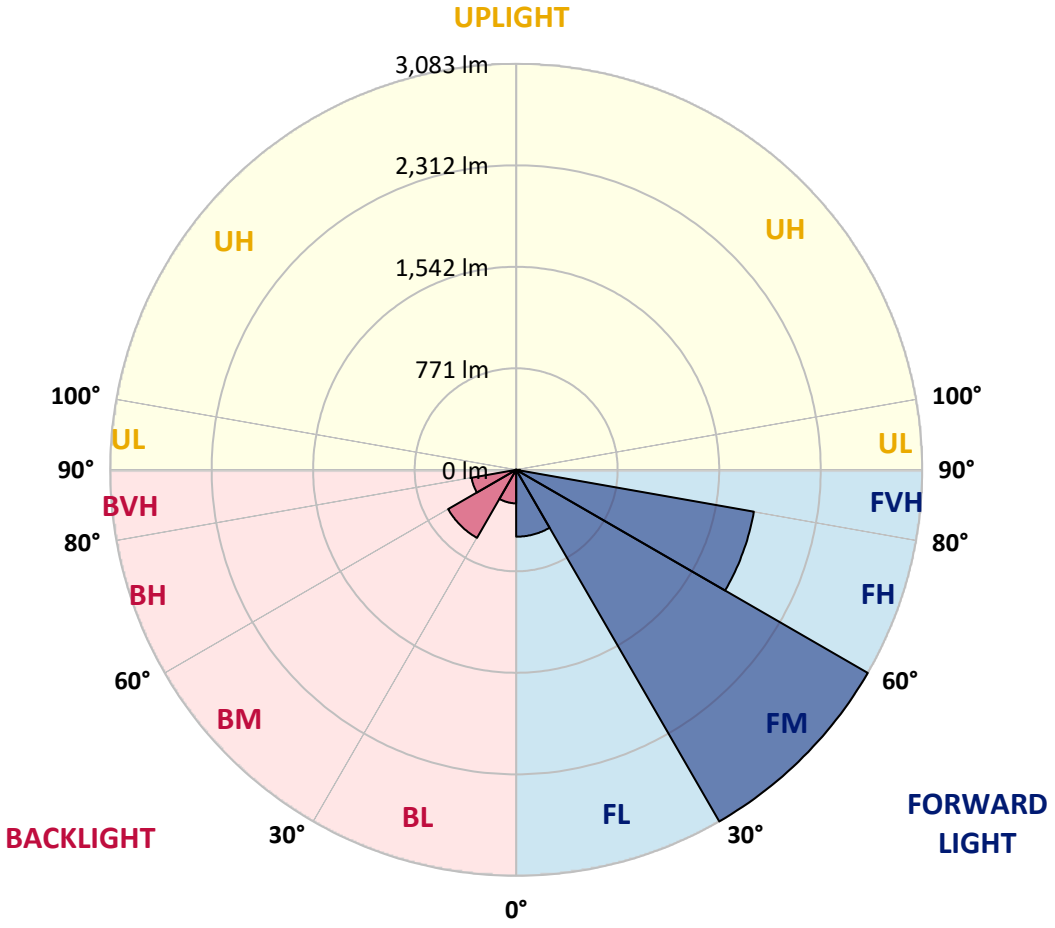
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	507.9	7.6			
FM	(30°-60°)	3083.2	46.3			
FH	(60°-80°)	1832.8	27.5			G2/5000
FVH	(80°-90°)	27.3	0.4			G1/100
BL	(0°-30°)	254.7	3.8	B1/500		
BM	(30°-60°)	596.8	9.0	B1/1000		
BH	(60°-80°)	344.2	5.2	B1/500		G1/500
BVH	(80°-90°)	10.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	*1102.8*
2.5°	1165.6	1172.3	1168.5	1166.6	1163.2	1158.4	1154.6	1142.6	1130.2	*1122.0*
5°	1189.1	1195.8	1195.3	1197.3	1199.7	1201.1	1200.1	1186.7	1169.0	*1155.1*
7.5°	1169.0	1176.6	1182.9	1192.5	1209.2	1227.0	1235.6	1232.7	1214.5	*1195.3*
10°	1111.9	1120.1	1135.0	1157.5	1192.9	1231.3	1263.4	1278.3	1266.8	*1245.7*
12.5°	1007.5	1015.6	1044.8	1093.7	1153.2	1219.8	1281.1	1320.9	1323.8	*1302.7*
15°	890.0	898.2	929.3	990.7	1081.3	1188.2	1290.7	1366.0	1391.4	*1373.2*
17.5°	817.2	824.4	847.9	897.2	991.6	1124.9	1287.4	1413.9	1471.9	*1457.5*
20°	795.1	801.4	812.4	846.9	925.5	1059.2	1265.3	1458.9	1558.6	*1550.5*
22.5°	818.6	824.4	827.7	843.1	892.4	1016.1	1237.5	1505.0	1659.3	*1660.3*
25°	872.8	878.5	874.7	884.3	905.9	1002.7	1227.0	1559.1	1785.8	*1796.4*
27.5°	961.9	962.4	953.3	952.8	956.2	1022.8	1238.0	1617.1	1945.4	*1965.1*
30°	1140.7	1133.5	1098.5	1060.7	1043.4	1083.2	1268.7	1685.7	2133.8	*2168.8*
32.5°	1416.3	1405.7	1341.5	1250.9	1159.9	1180.5	1323.8	1763.8	2338.9	*2402.2*
35°	1715.4	1712.5	1645.4	1510.7	1351.6	1319.0	1413.4	1866.3	2562.7	*2663.4*
37.5°	1993.4	1991.9	1953.6	1794.9	1601.3	1512.2	1557.2	2000.5	2802.4	*2948.1*
40°	2247.4	2251.7	2213.3	2071.5	1876.4	1759.9	1752.8	2166.4	3068.9	*3258.2*
42.5°	2466.9	2471.7	2432.9	2327.9	2148.2	2034.1	1992.9	2369.6	3329.1	*3591.3*
45°	2615.9	2645.7	2639.9	2556.0	2427.1	2308.7	2281.4	2624.6	3625.8	*3944.5*
47.5°	2658.1	2685.4	2728.6	2740.1	2661.5	2545.0	2577.6	2931.8	3925.8	*4298.2*
50°	2554.1	2579.5	2669.1	2788.5	2843.1	2807.2	2865.7	3261.1	4233.1	*4651.0*
52.5°	2349.0	2374.9	2488.0	2676.8	2899.7	3012.8	3154.7	3585.5	4530.7	*4985.1*
55°	2052.3	2079.6	2224.9	2438.6	2791.8	3097.6	3395.7	3909.5	4803.4	*5285.6*
57.5°	1648.7	1668.9	1819.9	2118.9	2520.6	3013.3	3573.6	4263.3	5060.3	*5580.8*
60°	1074.6	1092.3	1267.7	1601.3	2071.0	2731.5	3609.0	4657.7	5401.6	*5964.7*
62.5°	714.6	726.6	830.6	1075.5	1458.5	2190.3	3401.5	4972.6	5901.9	*6632.9*
65°	490.3	502.3	606.3	776.9	942.3	1448.9	2804.8	4930.9	6355.3	*7163.4*
67.5°	*349.9*	*359.9*	*448.1*	*609.2*	*682.0*	*841.6*	*1901.3*	*4397.9*	*6290.2*	*7183.6*
70°	250.7	256.4	329.3	474.5	542.1	505.6	1057.3	3363.6	5507.5	*6633.3*
72.5°	175.4	177.3	228.6	361.4	436.6	369.1	503.3	2242.6	4165.5	*5206.5*
75°	118.9	121.3	153.9	265.0	350.4	281.8	266.5	1202.5	2445.3	*2882.0*
77.5°	72.9	73.8	99.2	181.2	262.2	214.7	171.6	509.5	946.1	*928.9*
80°	41.2	41.2	63.3	112.6	178.8	138.5	120.3	216.6	299.6	*263.1*
82.5°	23.0	23.5	46.0	70.0	118.4	82.0	66.1	100.2	129.4	*114.5*
85°	9.6	10.5	28.3	33.1	56.6	40.7	26.8	42.2	47.9	*42.7*
87.5°	1.0	1.4	8.6	6.2	6.7	8.1	3.8	8.1	6.7	*6.7*
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°
1102.8	0°	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8	1102.8
1119.1	2.5°	1110.0	1102.8	1084.6	1063.5	1035.7	1022.3	1004.1	991.6	981.1	982.1
1146.9	5°	1131.6	1113.4	1072.6	1021.8	958.6	913.5	865.6	832.5	805.7	799.9
1185.3	7.5°	1161.3	1132.6	1061.1	969.6	862.7	781.7	709.3	662.9	629.8	619.2
1231.8	10°	1199.7	1158.0	1046.3	903.9	750.1	647.0	569.4	533.0	510.4	502.8
1286.4	12.5°	1244.2	1187.2	1026.6	823.9	634.1	534.9	485.5	467.3	460.1	457.7
1353.5	15°	1300.3	1223.6	996.9	729.0	535.8	466.3	445.3	442.9	443.8	442.9
1434.0	17.5°	1366.9	1263.4	948.5	631.2	469.7	431.4	423.7	425.6	428.0	427.5
1524.1	20°	1439.8	1302.7	886.7	544.5	424.6	406.4	402.1	404.0	406.0	405.0
1628.1	22.5°	1522.7	1344.9	818.1	476.9	394.5	383.4	378.6	379.1	379.1	377.2
1759.9	25°	1621.9	1391.4	746.3	429.0	371.4	362.8	357.1	355.2	352.3	346.5
1920.0	27.5°	1740.3	1440.7	677.2	395.4	353.2	345.1	338.4	333.6	326.4	316.8
2112.2	30°	1873.5	1500.6	618.8	374.3	338.9	330.7	323.0	315.9	305.3	293.3
2333.2	32.5°	2030.3	1564.9	576.1	360.4	325.9	317.3	308.2	299.6	288.1	276.1
2581.4	35°	2217.2	1642.5	551.2	350.8	315.9	304.3	294.3	284.7	276.1	265.5
2851.3	37.5°	2419.9	1725.0	543.5	346.0	309.1	291.4	279.9	273.2	272.2	266.0
3143.2	40°	2641.8	1822.7	549.3	343.2	302.0	278.9	266.5	265.0	267.4	256.4
3455.2	42.5°	2876.7	1938.7	558.8	339.8	291.9	266.5	254.5	254.5	252.6	237.2
3784.9	45°	3130.7	2072.4	568.4	331.7	279.9	254.0	244.9	241.6	233.4	218.6
4116.6	47.5°	3386.6	2208.6	575.6	316.8	265.5	243.5	235.3	227.7	215.7	202.3
4442.0	50°	3629.6	2330.8	568.0	294.8	249.2	233.4	224.8	214.2	201.3	192.2
4750.2	52.5°	3846.8	2436.7	535.4	268.9	232.0	222.9	215.2	204.2	193.6	184.0
5028.2	55°	4035.6	2522.5	477.8	244.4	216.6	213.8	206.1	192.2	177.8	169.7
5303.8	57.5°	4216.8	2587.7	406.0	224.3	202.7	203.7	192.2	179.7	166.3	157.7
5675.2	60°	4457.8	2674.9	333.1	205.6	187.9	190.8	178.3	169.2	152.4	141.4
6312.2	62.5°	4843.2	2810.5	264.6	182.6	170.6	171.6	166.3	155.3	135.2	122.2
6784.3	65°	5149.0	2760.7	208.5	157.7	151.0	152.4	152.4	140.4	118.9	104.0
6809.7	67.5°	*5114.5*	*2363.8*	*166.3*	*133.2*	*132.3*	*133.2*	*136.6*	*126.5*	*105.4*	*93.5*
6291.1	70°	4711.4	1880.2	133.2	110.7	115.0	112.6	122.2	115.5	94.9	82.9
4877.2	72.5°	3844.4	1354.5	101.6	91.5	88.2	92.0	110.2	104.0	79.1	65.7
2583.4	75°	2246.4	722.8	75.7	72.4	63.7	76.7	97.8	88.7	60.4	48.4
791.8	77.5°	731.4	252.1	55.6	53.2	47.4	61.8	83.4	74.8	49.4	38.3
232.0	80°	196.0	76.2	37.9	35.0	30.7	46.0	66.1	59.4	35.5	24.9
99.7	82.5°	78.6	32.1	22.0	19.7	16.8	31.6	52.2	47.9	26.4	15.8
31.2	85°	25.4	10.5	8.1	6.2	7.7	19.7	31.2	32.6	18.7	8.1
4.8	87.5°	3.4	1.4	1.4	1.9	1.4	3.4	9.6	9.1	5.3	1.0
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°
1102.8
972.5
787.0
608.7
497.0
456.3
442.4
426.6
404.5
376.2
345.6
315.9
292.4
276.5
264.6
265.5
256.9
237.2
218.1
201.8
190.8
183.1
168.7
156.7
140.0
121.3
102.6
91.5
81.5
64.2
47.0
36.9
24.4
15.8
6.2
0.0
0.0

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