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: P943966

Luminaire Tested: **GALN-SB8C-940-U-T3-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

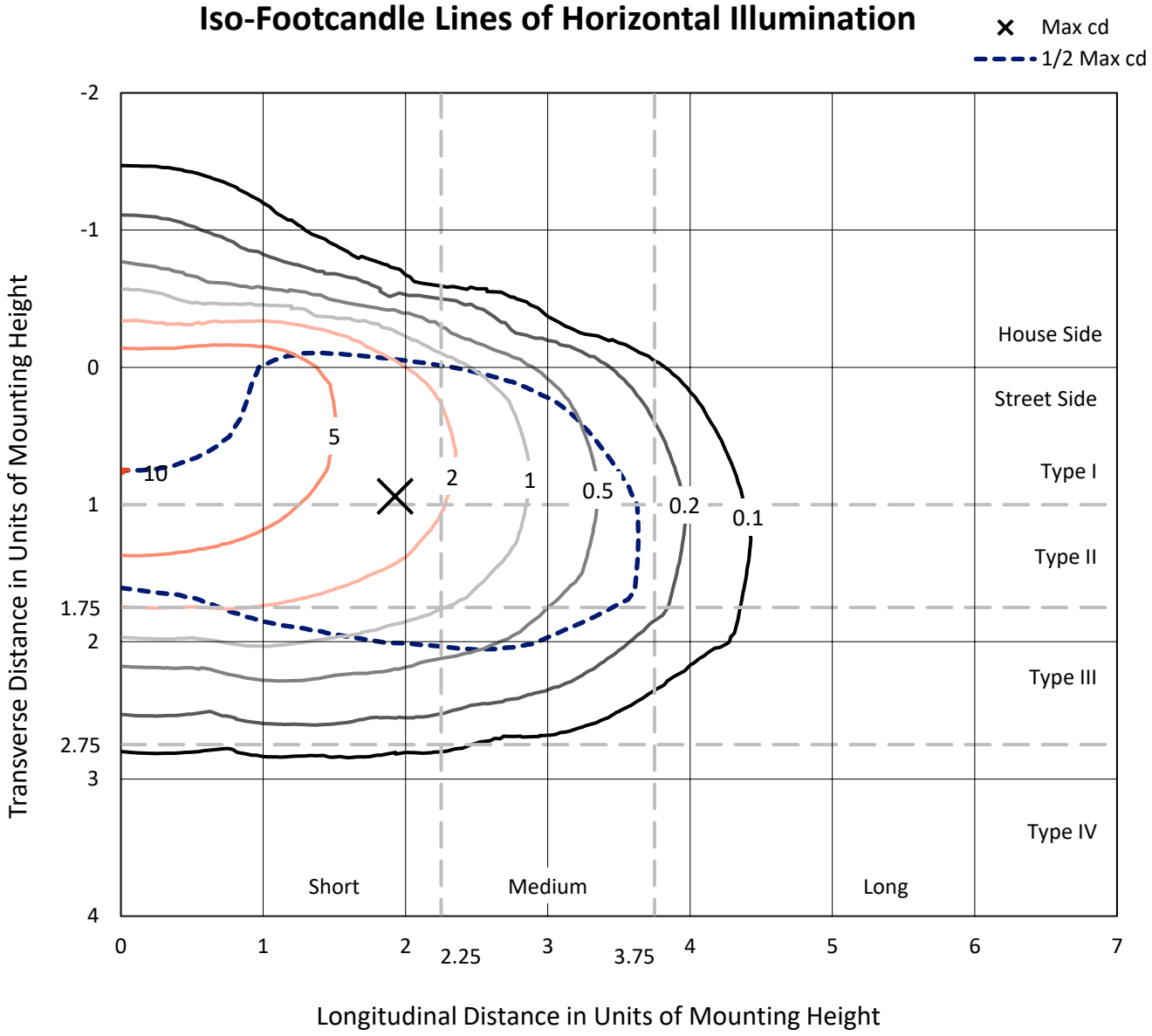
Test Method:	LM-79-08
Report Number:	P943966
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB8C-940-U-T3-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	34416 lumens
Efficiency:	N/A
Efficacy:	86.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type III - Short
BUG Rating:	B3 - U0 - G4
Input Watts (W):	399.8
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

REPORT NUMBER: P943966
CATALOG NUMBER: GALN-SB8C-940-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
Type III - Short - N/A

REPORT NUMBER: P943966
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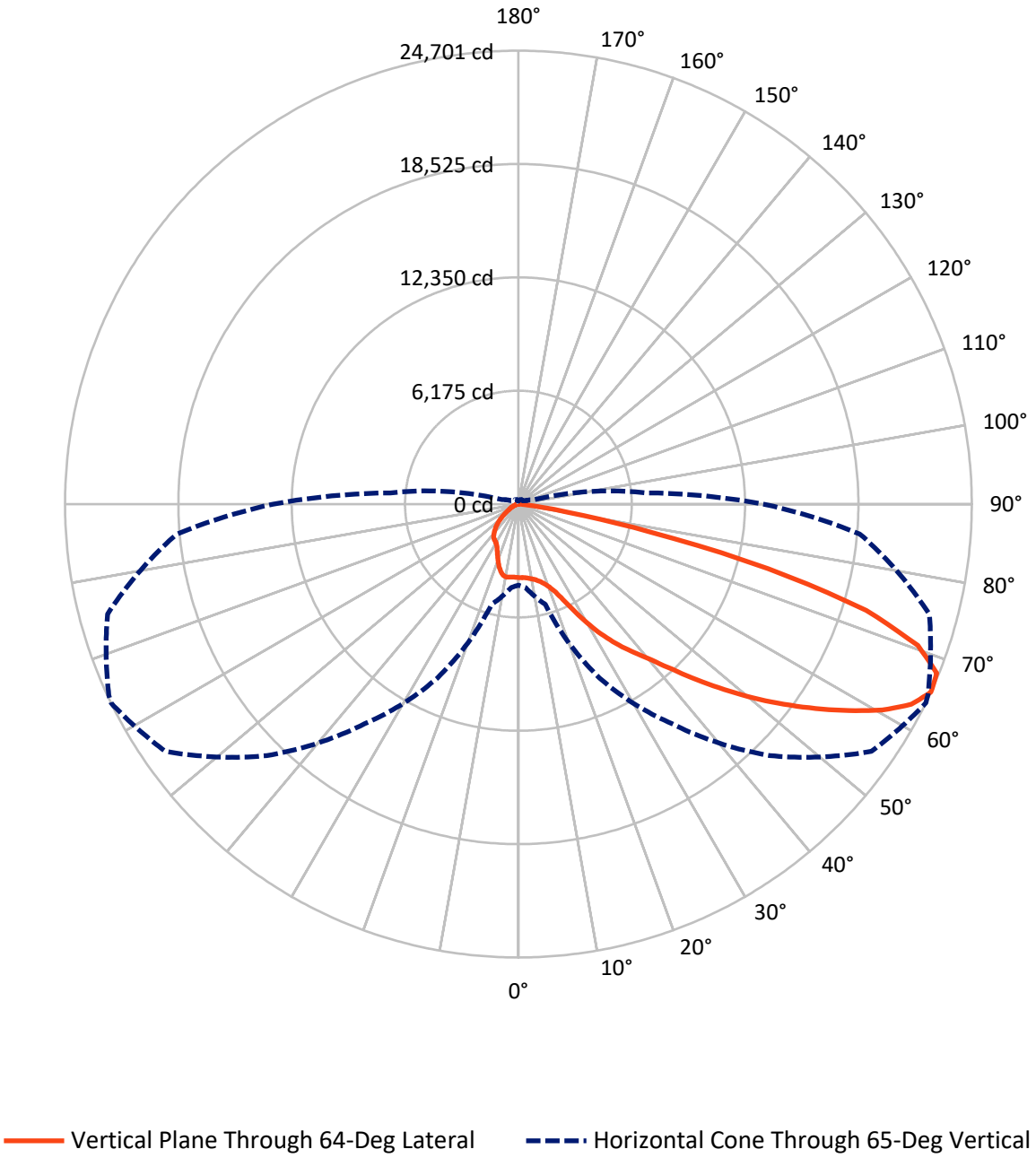
Luminous Intensity Polar Plot



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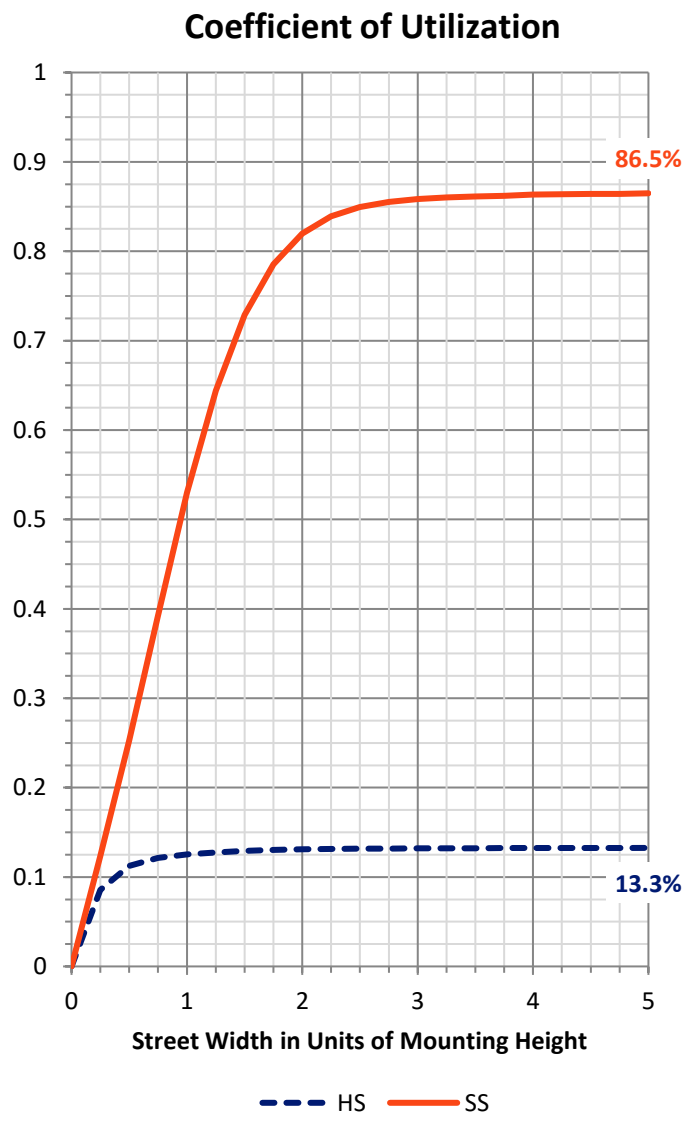
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4602.5	0.0	4602.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29813.5	0.0	29813.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	34416.0	0.0	34416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	1.1
10°-20°	1001.7	2.9
20°-30°	1898.1	5.5
30°-40°	3840.8	11.2
40°-50°	6542.9	19.0
50°-60°	8897.9	25.9
60°-70°	8355.5	24.3
70°-80°	3347.6	9.7
80°-90°	162.2	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°	34416.0	100.0
0°-180°	34416.0	100.0



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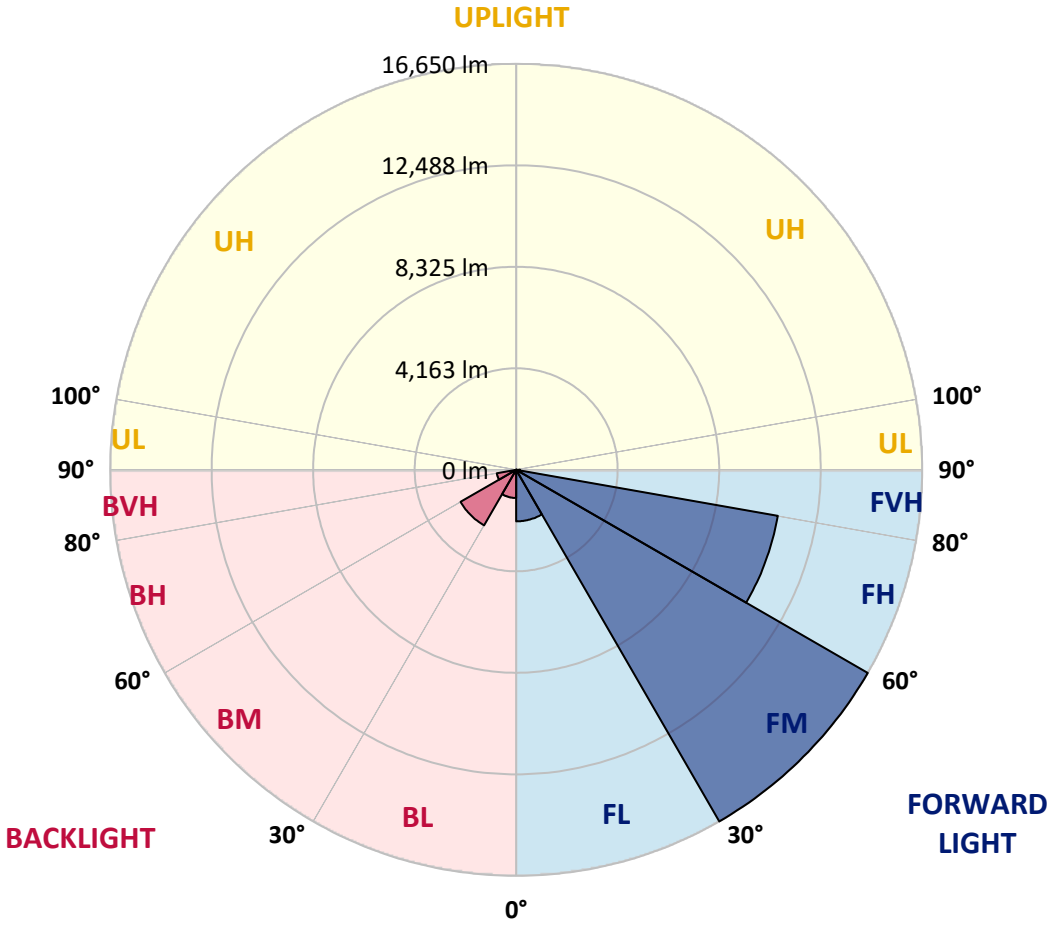
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2113.5	6.1			
FM	(30°-60°)	16650.4	48.4			
FH	(60°-80°)	10895.3	31.7			G4/12000
FVH	(80°-90°)	154.3	0.4			G2/225
BL	(0°-30°)	1155.5	3.4	B3/2500		
BM	(30°-60°)	2631.2	7.6	B3/5000		
BH	(60°-80°)	807.8	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.9	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-G4
Type III Short



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CATALOG NUMBER: GALN-SB8C-940-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4002.9	4002.9	4002.9	4002.9	4002.9	4002.9	4002.9	*4002.9*	4002.9	4002.9
2.5°	3989.1	4016.8	4009.9	4002.9	4000.6	4005.2	4007.6	*4005.2*	4005.2	4005.2
5°	3913.0	3936.0	3936.0	3952.2	3975.3	4002.9	4023.7	*4028.3*	4032.9	4039.9
7.5°	3767.6	3786.1	3799.9	3853.0	3910.7	3984.5	4046.8	*4079.1*	4083.7	4109.1
10°	3668.4	3691.5	3714.5	3769.9	3853.0	3963.7	4069.8	*4148.3*	4159.8	4219.8
12.5°	3663.8	3686.9	3716.8	3776.8	3873.7	3991.4	4120.6	*4233.7*	4254.4	4342.1
15°	3712.2	3739.9	3767.6	3841.4	3945.3	4088.3	4226.7	*4367.5*	4388.2	4512.8
17.5°	3811.4	3848.4	3869.1	3943.0	4053.7	4212.9	4395.2	*4556.7*	4575.1	4720.5
20°	4007.6	4051.4	4058.3	4118.3	4226.7	4397.5	4614.3	*4815.1*	4838.1	5004.2
22.5°	4413.6	4475.9	4420.5	4450.5	4547.4	4718.2	4953.5	*5207.3*	5239.6	5428.8
25°	5128.8	5216.5	5073.5	5022.7	5064.2	5241.9	5537.2	*5857.9*	5894.8	6047.1
27.5°	6533.9	6420.9	6204.0	5991.7	5867.1	5968.6	6300.9	*6697.7*	6743.9	6891.5
30°	8077.4	7978.2	7685.2	7214.5	6919.2	6903.0	7209.9	*7652.9*	7705.9	7846.7
32.5°	9623.2	9528.6	9210.2	8631.1	8118.9	7865.1	8077.4	*8568.8*	8596.5	8686.5
35°	11143.6	11046.7	10728.3	10135.4	9505.5	8928.7	8887.2	*9440.9*	9450.2	9544.8
37.5°	12673.3	12592.5	12253.4	11672.0	11051.3	10255.4	9870.1	*10266.9*	10278.4	10370.7
40°	13764.6	13799.2	13566.2	13116.3	12583.3	11713.5	10972.9	*11145.9*	11076.7	11231.3
42.5°	14701.3	14770.5	14567.5	14341.4	14032.2	13266.2	12338.7	*12308.7*	12198.0	12281.1
45°	15511.1	15568.8	15386.5	15333.4	15326.5	14789.0	13831.5	*13651.5*	13496.9	13480.8
47.5°	15808.7	15919.5	15997.9	16175.6	16521.6	16295.5	15375.0	*15095.8*	14922.8	14795.9
50°	15921.8	16039.4	16307.1	16823.9	17642.9	17739.8	16911.5	*16597.8*	16385.5	16154.8
52.5°	15769.5	15979.5	16339.4	17209.2	18397.4	18898.0	18385.8	*18111.3*	17869.0	17493.0
55°	14872.0	15082.0	15818.0	17204.6	18773.4	19710.1	19779.4	*19657.1*	19384.8	18791.9
57.5°	12980.1	13291.6	14456.7	16618.5	18766.5	20409.2	21145.2	*21232.9*	20928.3	20079.3
60°	10359.2	10781.4	12202.6	15319.6	18187.4	20787.6	22342.6	*22781.0*	22458.0	21348.2
62.5°	7228.4	7717.5	9062.6	13284.7	16863.1	20515.3	23217.0	*24026.9*	23782.3	22483.4
65°	*4409.0*	*4565.9*	*5650.3*	*10453.8*	*14611.3*	*19375.6*	*23487.0*	*24700.6*	*24619.8*	*23177.8*
67.5°	2937.0	3068.5	3380.0	7168.4	11342.0	17098.4	22841.0	*24582.9*	24606.0	23064.8
70°	1769.6	1882.6	2085.7	4169.1	7350.6	13533.9	20840.7	*23083.2*	23217.0	21553.6
72.5°	729.1	805.2	989.8	1889.6	3806.8	8589.6	16595.5	*19818.6*	20130.0	18122.8
75°	413.0	452.2	581.4	948.2	1651.9	4002.9	10052.3	*14069.1*	14528.2	12491.0
77.5°	274.6	293.0	376.1	613.7	929.8	1365.8	4295.9	*7329.9*	8206.6	6822.3
80°	184.6	200.7	258.4	410.7	604.5	586.0	1368.2	*2715.5*	3340.8	2344.1
82.5°	124.6	126.9	184.6	269.9	383.0	283.8	403.8	*844.4*	1061.3	678.3
85°	71.5	69.2	136.1	156.9	170.7	117.7	122.3	*253.8*	332.2	286.1
87.5°	9.2	13.8	53.1	41.5	23.1	25.4	25.4	*43.8*	64.6	69.2
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°
4002.9	0°	4002.9	4002.9	4002.9	4002.9	4002.9	4002.9	4002.9	4002.9	4002.9	4002.9
4007.6	2.5°	4007.6	4005.2	3998.3	3991.4	3975.3	3966.0	3970.6	3966.0	3963.7	3966.0
4037.5	5°	4037.5	4030.6	4012.2	3989.1	3956.8	3917.6	3892.2	3855.3	3820.7	3799.9
4118.3	7.5°	4118.3	4111.4	4086.0	4021.4	3917.6	3753.8	3603.8	3472.3	3373.1	3315.4
4247.5	10°	4247.5	4236.0	4196.7	4053.7	3781.4	3423.8	3126.2	2879.3	2717.8	2641.7
4399.8	12.5°	4399.8	4385.9	4316.7	4023.7	3523.0	2964.7	2554.0	2279.5	2129.5	2062.6
4575.1	15°	4579.7	4561.3	4425.2	3880.7	3147.0	2457.1	2081.1	1875.7	1778.8	1718.8
4798.9	17.5°	4803.5	4771.2	4505.9	3666.1	2738.6	2069.5	1790.4	1635.8	1550.4	1492.7
5091.9	20°	5094.2	5041.2	4570.5	3410.0	2362.5	1825.0	1594.3	1465.1	1400.5	1349.7
5507.2	22.5°	5500.3	5424.2	4648.9	3133.1	2097.2	1656.5	1448.9	1354.3	1301.2	1243.6
6086.3	25°	6003.3	5913.3	4745.8	2877.0	1915.0	1511.2	1342.8	1264.3	1202.0	1135.1
6845.4	27.5°	6706.9	6545.4	4861.2	2667.1	1758.1	1386.6	1245.9	1158.2	1086.7	1031.3
7705.9	30°	7491.4	7226.1	4962.7	2540.2	1615.0	1271.3	1119.0	1031.3	964.4	925.2
8478.8	32.5°	8234.3	7874.4	5029.6	2484.8	1485.8	1139.7	980.5	886.0	835.2	823.7
9235.6	35°	8935.7	8460.4	5022.7	2431.8	1370.5	1008.2	844.4	747.5	708.3	715.2
10050.0	37.5°	9743.2	9085.6	4974.3	2348.7	1275.9	888.3	726.8	641.4	606.8	609.1
11039.8	40°	10682.2	9807.8	4944.3	2191.8	1172.0	777.5	629.9	560.6	535.3	526.0
12082.6	42.5°	11683.5	10506.8	4948.9	2014.2	1042.8	678.3	562.9	505.3	482.2	475.3
13243.1	45°	12689.4	11173.6	4955.8	1829.6	906.7	602.2	514.5	466.0	452.2	443.0
14419.8	47.5°	13635.4	11741.2	4826.6	1631.2	772.9	544.5	475.3	443.0	431.4	419.9
15601.1	50°	14516.7	12119.6	4515.1	1400.5	666.8	498.3	445.3	422.2	410.7	399.1
16671.6	52.5°	15201.9	12179.5	4000.6	1162.8	592.9	463.7	426.8	406.1	392.2	380.7
17536.8	55°	15506.5	11803.5	3269.3	941.3	535.3	433.7	408.4	387.6	371.5	359.9
18217.4	57.5°	15428.0	11012.1	2549.4	756.8	479.9	403.8	385.3	371.5	353.0	334.5
18768.8	60°	15042.7	9953.1	1921.9	629.9	429.1	371.5	359.9	348.4	323.0	295.3
18981.1	62.5°	14376.0	8621.9	1370.5	521.4	373.8	334.5	329.9	320.7	283.8	233.0
18667.3	65°	*13356.2*	*7004.6*	*922.9*	*433.7*	*320.7*	*293.0*	*295.3*	*279.2*	*230.7*	*173.0*
17518.3	67.5°	11865.8	5121.9	590.6	355.3	267.6	244.6	246.9	237.6	196.1	147.7
15340.4	70°	9967.0	3391.5	385.3	269.9	214.6	189.2	203.0	205.3	166.1	120.0
11773.5	72.5°	7306.8	2002.6	269.9	200.7	156.9	131.5	166.1	170.7	133.8	90.0
7083.0	75°	4164.4	950.6	203.0	145.4	96.9	92.3	129.2	129.2	92.3	60.0
3066.2	77.5°	1748.8	396.8	143.0	94.6	55.4	53.1	87.7	80.8	46.1	27.7
747.5	80°	505.3	177.7	76.1	46.1	23.1	20.8	34.6	25.4	11.5	4.6
283.8	82.5°	198.4	78.4	30.0	18.5	9.2	9.2	4.6	0.0	0.0	0.0
161.5	85°	117.7	32.3	13.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0
34.6	87.5°	30.0	6.9	4.6	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°
4002.9
3975.3
3804.5
3317.7
2634.8
2055.7
1721.1
1488.1
1340.5
1234.3
1128.2
1019.8
918.3
830.6
715.2
618.3
523.7
473.0
443.0
419.9
399.1
378.4
357.6
332.2
290.7
228.4
168.4
140.7
115.4
85.4
55.4
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