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: P953569

Luminaire Tested: **GALN-SB7A-830-U-AFL**

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:	P953569
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB7A-830-U-AFL
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	29153 lumens
Efficiency:	N/A
Efficacy:	146.4 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3
Input Watts (W):	199.1
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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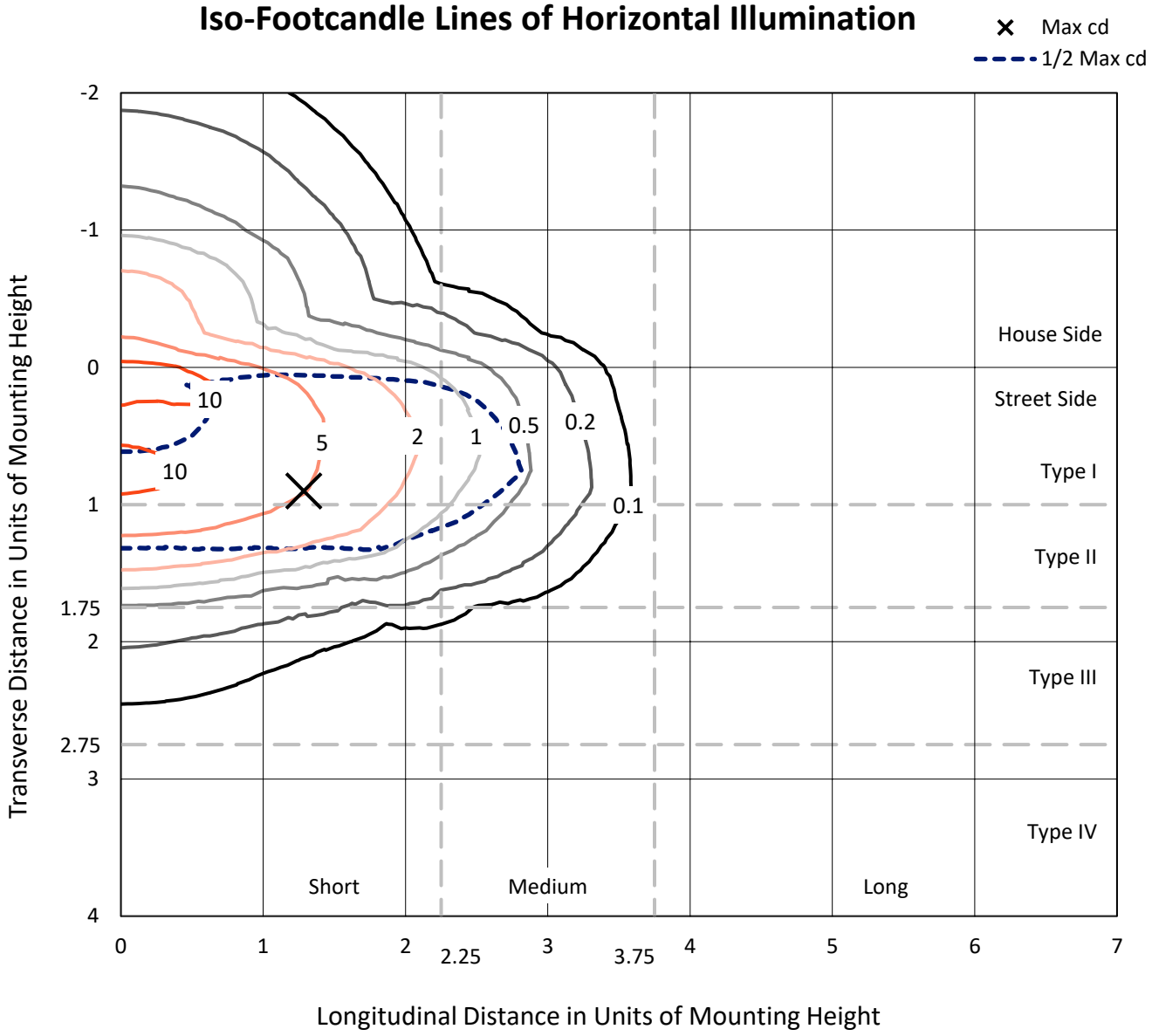
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type II - Short - N/A

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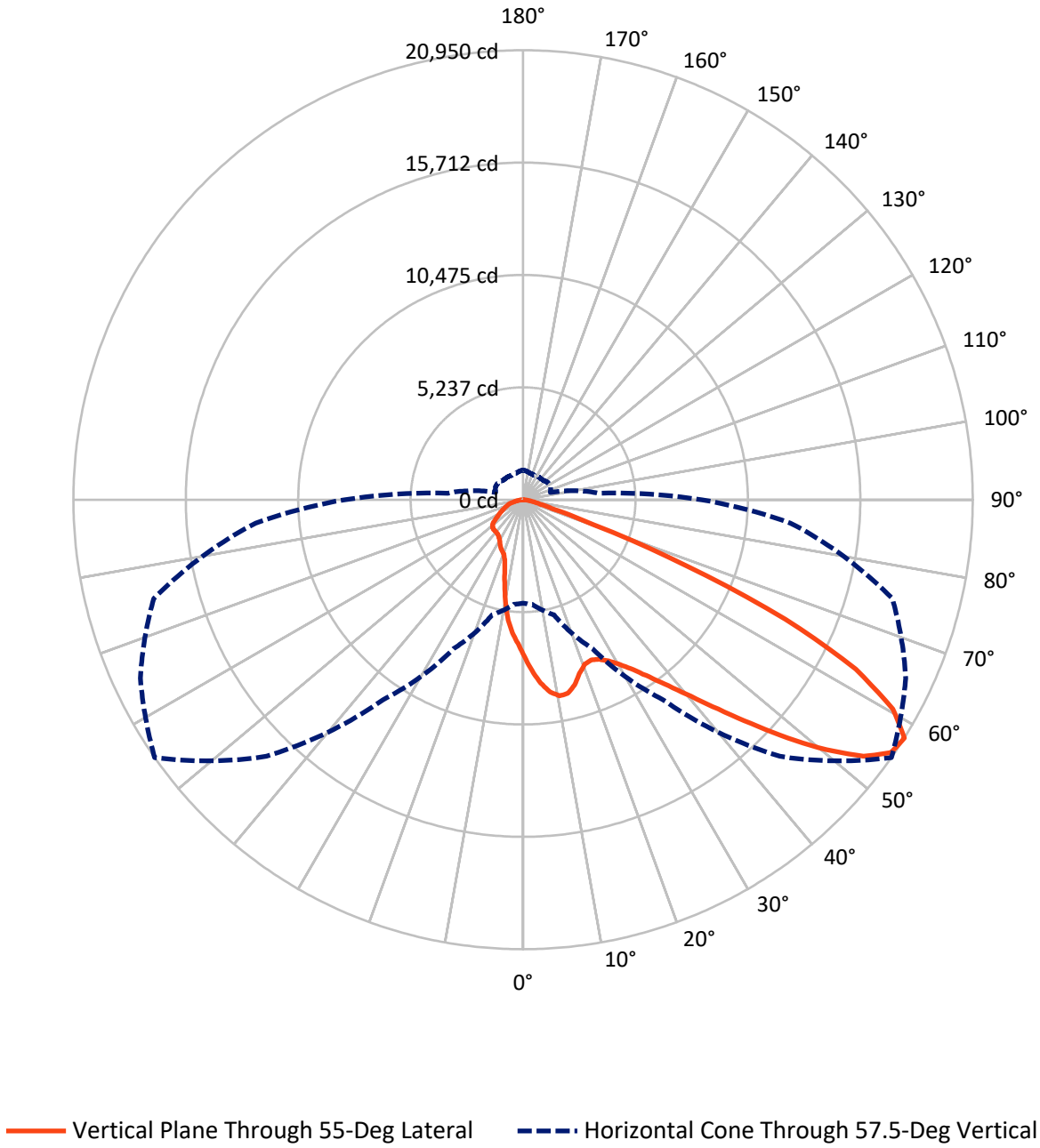
Luminous Intensity Polar Plot



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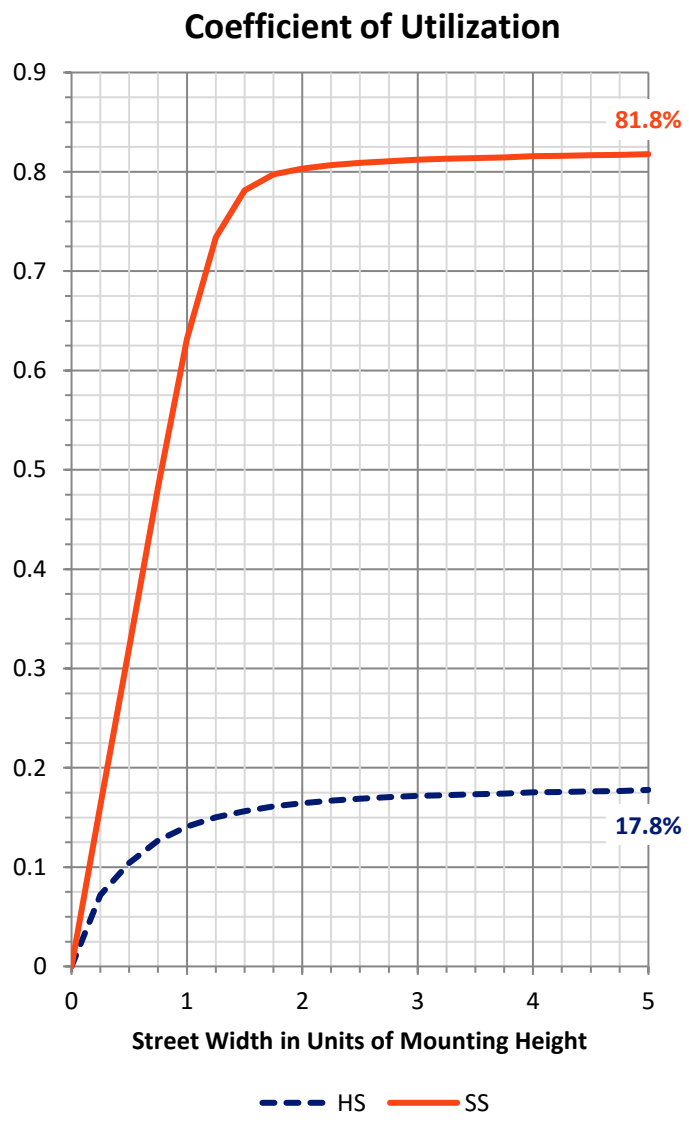
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5275.1	0.0	5275.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23877.9	0.0	23877.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	29153.0	0.0	29153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.8	2.3
10°-20°	1710.9	5.9
20°-30°	2730.1	9.4
30°-40°	4322.4	14.8
40°-50°	6615.9	22.7
50°-60°	7086.3	24.3
60°-70°	4458.0	15.3
70°-80°	1318.3	4.5
80°-90°	233.1	0.8
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°	29153.0	100.0
0°-180°	29153.0	100.0



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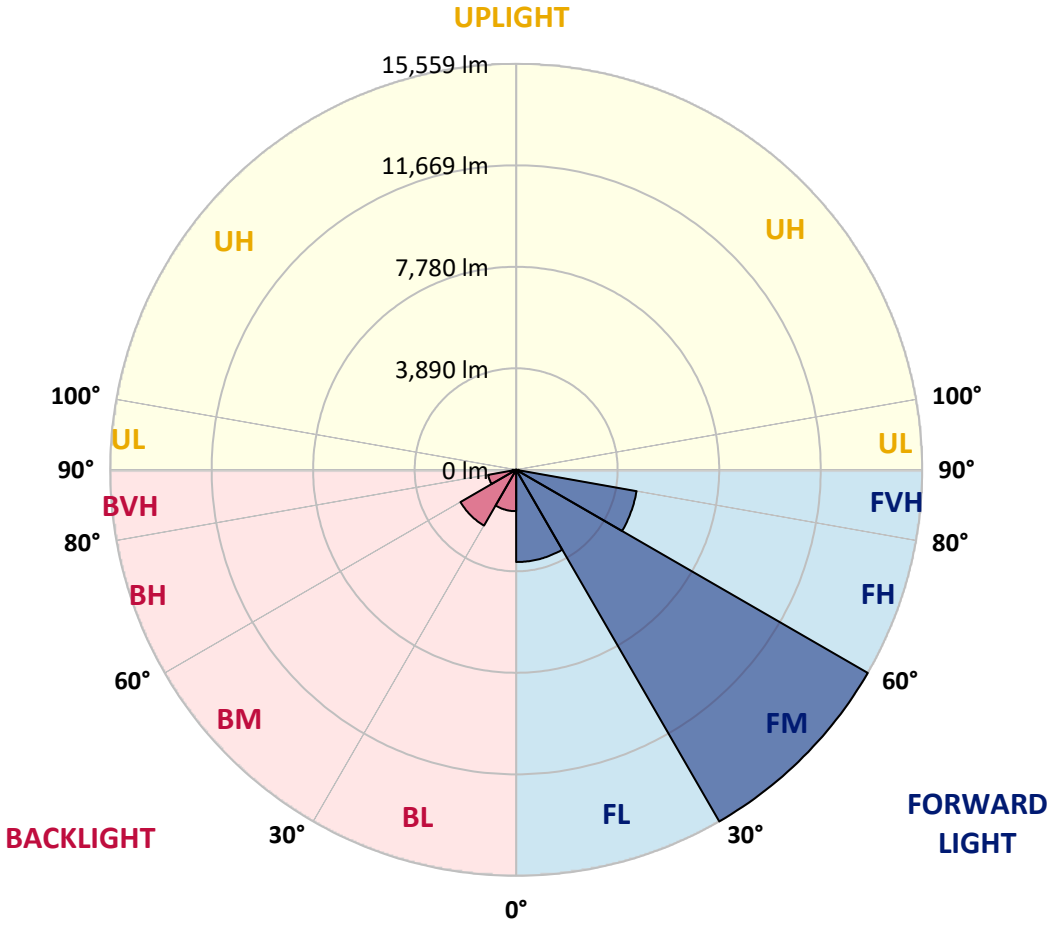
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3533.3	12.1			
FM	(30°-60°)	15559.2	53.4			
FH	(60°-80°)	4686.9	16.1			G2/5000
FVH	(80°-90°)	98.5	0.3			G1/100
BL	(0°-30°)	1585.5	5.4	B3/2500		
BM	(30°-60°)	2465.5	8.5	B2/2500		
BH	(60°-80°)	1089.4	3.7	B3/2500		G3/2500
BVH	(80°-90°)	134.6	0.5			G2/225
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7304.8	7304.8	7304.8	7304.8	7304.8	7304.8	*7304.8*	7304.8	7304.8	7304.8
2.5°	8380.8	8374.8	8408.0	8294.9	8218.1	8114.1	*7977.0*	7802.1	7613.7	7414.8
5°	9135.9	9083.1	9117.8	9033.4	8949.0	8792.3	*8588.8*	8304.0	7955.9	7559.5
7.5°	9016.8	8980.7	9069.6	9144.9	9208.2	9188.6	*9039.4*	8741.0	8291.9	7716.2
10°	8056.8	8016.1	8141.2	8401.9	8784.7	9117.8	*9298.7*	9113.3	8635.5	7888.0
12.5°	7209.8	7190.3	7273.1	7484.1	7909.1	8548.1	*9265.5*	9438.8	8992.7	8091.5
15°	6848.2	6824.0	6876.8	6983.8	7255.1	7850.4	*8964.1*	9661.9	9343.9	8326.6
17.5°	6768.3	6741.1	6763.8	6819.5	6994.3	7448.0	*8508.9*	9771.9	9710.1	8588.8
20°	6916.0	6893.4	6896.4	6893.4	7015.4	7375.6	*8192.5*	9729.7	10029.6	8830.0
22.5°	7273.1	7235.5	7237.0	7157.1	7223.4	7502.2	*8109.6*	9616.6	10314.4	9040.9
25°	7854.9	7787.1	7800.6	7597.2	7579.1	7785.6	*8239.2*	9529.2	10597.8	9209.7
27.5°	8650.6	8573.8	8533.1	8230.1	8085.5	8187.9	*8502.9*	9559.4	10866.0	9355.9
30°	9645.3	9551.8	9469.0	9039.4	8777.2	8739.5	*8912.8*	9758.3	11182.5	9509.6
32.5°	10864.5	10756.0	10605.3	10035.6	9666.4	9469.0	*9443.3*	10112.5	11553.2	9705.6
35°	12315.8	12174.2	11960.2	11223.2	10756.0	10352.1	*10142.6*	10623.4	12061.1	10001.0
37.5°	13810.8	13651.1	13455.2	12578.1	12003.9	11408.6	*10995.6*	11316.6	12737.8	10401.8
40°	15189.8	15010.5	14828.1	14047.5	13431.1	12713.7	*12040.0*	12193.7	13565.2	10881.1
42.5°	16003.6	15871.0	15801.7	15379.7	14903.5	14175.6	*13339.1*	13233.6	14495.1	11432.7
45°	15967.5	15913.2	16127.2	16302.0	16189.0	15785.1	*14861.3*	14383.5	15427.9	11910.4
47.5°	15114.5	15150.6	15628.4	16611.0	17043.5	17254.5	*16594.4*	15512.3	16238.7	12267.6
50°	12793.6	12823.7	13929.9	16048.8	17263.6	18452.6	*18314.0*	16614.0	16867.2	12486.1
52.5°	10956.4	10976.0	11450.8	14382.0	16537.1	19055.5	*19863.3*	17652.4	17326.8	12546.4
55°	8252.7	8320.6	8852.6	11283.5	14647.3	18577.7	*20806.7*	18722.4	17617.7	12552.4
57.5°	*4821.1*	*4895.0*	*5552.1*	*7659.0*	*11384.4*	*16912.4*	*20949.9*	*19671.9*	*17815.1*	*12504.2*
60°	2361.6	2393.2	2679.6	4025.4	7020.0	13703.8	*19798.5*	20131.5	17925.2	12478.6
62.5°	1591.5	1587.0	1599.0	1986.3	3458.7	8804.3	*17399.2*	19326.7	17866.4	12380.6
65°	1368.4	1351.8	1306.6	1394.0	1791.9	4026.9	*13443.1*	16924.5	17418.8	12135.0
67.5°	1183.1	1184.6	1186.1	1158.9	1279.5	1858.2	*8215.1*	13331.6	15812.2	10971.5
70°	979.6	993.2	999.2	999.2	1042.9	1219.2	*3507.0*	9137.4	12472.6	8602.4
72.5°	892.2	863.6	866.6	851.5	851.5	928.4	*1412.1*	5179.8	7857.9	4839.2
75°	727.9	746.0	749.0	738.5	703.8	708.3	*837.9*	2173.2	3362.3	2007.4
77.5°	628.5	628.5	634.5	626.9	599.8	530.5	*559.1*	842.5	1143.9	822.9
80°	504.9	503.4	529.0	544.1	501.9	391.8	*357.2*	465.7	507.9	361.7
82.5°	245.7	260.7	363.2	414.4	381.3	283.3	*218.5*	289.4	271.3	159.8
85°	143.2	135.6	162.8	230.6	218.5	156.7	*105.5*	150.7	141.7	81.4
87.5°	45.2	42.2	33.2	78.4	63.3	43.7	*28.6*	43.7	39.2	18.1
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7304.8	0°	7304.8	7304.8	7304.8	7304.8	7304.8	7304.8	7304.8	7304.8	7304.8	7304.8
7328.9	2.5°	7221.9	7044.1	6867.7	6706.5	6608.5	6545.2	6481.9	6411.1	6384.0	6343.3
7348.5	5°	7149.6	6806.0	6500.0	6236.3	5996.7	5808.3	5618.4	5464.7	5395.3	5442.1
7410.3	7.5°	7107.4	6610.0	6138.3	5654.5	5188.9	4816.6	4492.6	4265.0	4162.5	4188.2
7470.6	10°	7069.7	6388.5	5669.6	4905.5	4236.4	3775.2	3443.7	3270.4	3205.5	3219.1
7552.0	12.5°	7035.0	6139.8	5104.5	4099.2	3387.9	3083.5	2988.5	2990.0	3002.1	3011.1
7681.6	15°	7029.0	5839.9	4473.0	3393.9	2929.8	2910.2	3012.6	3077.4	3112.1	3122.7
7790.1	17.5°	7020.0	5481.2	3829.5	2913.2	2818.2	2950.9	3045.8	3088.0	3115.1	3116.6
7895.6	20°	6983.8	5026.1	3235.7	2684.1	2794.1	2908.7	2967.4	3000.6	3023.2	3030.7
7975.4	22.5°	6872.3	4519.7	2773.0	2581.6	2697.7	2789.6	2858.9	2896.6	2910.2	2919.2
7990.5	25°	6671.8	3953.1	2453.5	2483.7	2563.5	2679.6	2735.3	2742.9	2738.4	2751.9
7952.8	27.5°	6409.6	3345.7	2254.6	2351.0	2453.5	2553.0	2583.1	2578.6	2569.6	2584.6
7888.0	30°	6093.1	2800.1	2128.0	2201.8	2342.0	2432.4	2459.5	2449.0	2430.9	2447.5
7854.9	32.5°	5758.5	2354.1	2024.0	2097.8	2250.1	2339.0	2366.1	2355.6	2342.0	2355.6
7892.6	35°	5446.6	2042.1	1927.5	2028.5	2177.7	2265.1	2299.8	2301.3	2301.3	2317.9
7992.0	37.5°	5160.2	1859.7	1847.7	1984.8	2128.0	2206.4	2256.1	2259.1	2194.3	2198.8
8160.8	40°	4895.0	1782.9	1811.5	1956.2	2079.8	2155.1	2158.1	1989.3	1870.3	1867.3
8353.7	42.5°	4678.0	1767.8	1822.1	1953.2	2045.1	2048.1	1835.6	1704.5	1671.3	1672.9
8531.6	45°	4474.5	1763.3	1846.2	1953.2	1993.9	1769.3	1626.1	1591.5	1594.5	1606.5
8611.4	47.5°	4246.9	1745.2	1850.7	1926.0	1846.2	1573.4	1531.2	1516.1	1510.1	1513.1
8593.3	50°	3998.3	1680.4	1793.4	1871.8	1593.0	1489.0	1436.2	1431.7	1439.3	1443.8
8492.4	52.5°	3736.0	1574.9	1695.5	1773.8	1476.9	1415.1	1356.4	1366.9	1400.1	1410.6
8386.9	55°	3564.2	1451.3	1565.9	1577.9	1395.6	1345.8	1296.1	1320.2	1382.0	1401.6
8323.6	57.5°	*3519.0*	*1320.2*	*1418.2*	*1404.6*	*1291.6*	*1285.5*	*1255.4*	*1276.5*	*1354.9*	*1383.5*
8320.6	60°	3505.5	1202.6	1273.5	1262.9	1190.6	1219.2	1211.7	1222.2	1249.4	1258.4
8290.4	62.5°	3400.0	1109.2	1143.9	1128.8	1100.2	1149.9	1168.0	1145.4	1166.5	1177.0
8084.0	65°	3131.7	1033.9	1017.3	1006.7	1018.8	1064.0	1100.2	1055.0	1074.5	1104.7
7288.2	67.5°	2688.6	931.4	886.2	898.2	935.9	960.0	1006.7	955.5	972.1	1023.3
5870.1	70°	2174.7	801.8	761.1	795.7	831.9	881.6	889.2	854.5	893.7	951.0
3582.3	72.5°	1538.7	670.6	642.0	712.8	724.9	789.7	773.1	756.6	810.8	830.4
1770.8	75°	1067.0	541.0	524.5	578.7	622.4	678.2	666.1	685.7	800.3	809.3
884.7	77.5°	675.2	420.5	409.9	444.6	504.9	566.7	586.3	809.3	1366.9	1421.2
459.7	80°	391.8	313.5	301.4	328.5	381.3	438.6	565.2	993.2	901.2	890.7
206.5	82.5°	218.5	215.5	200.4	208.0	254.7	316.5	798.8	699.3	568.2	586.3
82.9	85°	102.5	126.6	108.5	104.0	143.2	370.7	533.5	399.4	265.2	259.2
18.1	87.5°	27.1	24.1	24.1	27.1	60.3	319.5	212.5	170.3	101.0	98.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI

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