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: P952477

Luminaire Tested: **GALN-SB6B-827-U-AFL**

Issue Date: 1/21/2025

Report Generated By 670246001

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Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P952477
	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-SB6B-827-U-AFL
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	30199 lumens
Efficiency:	N/A
Efficacy:	137.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B3 - U0 - G3
Input Watts (W):	220.4
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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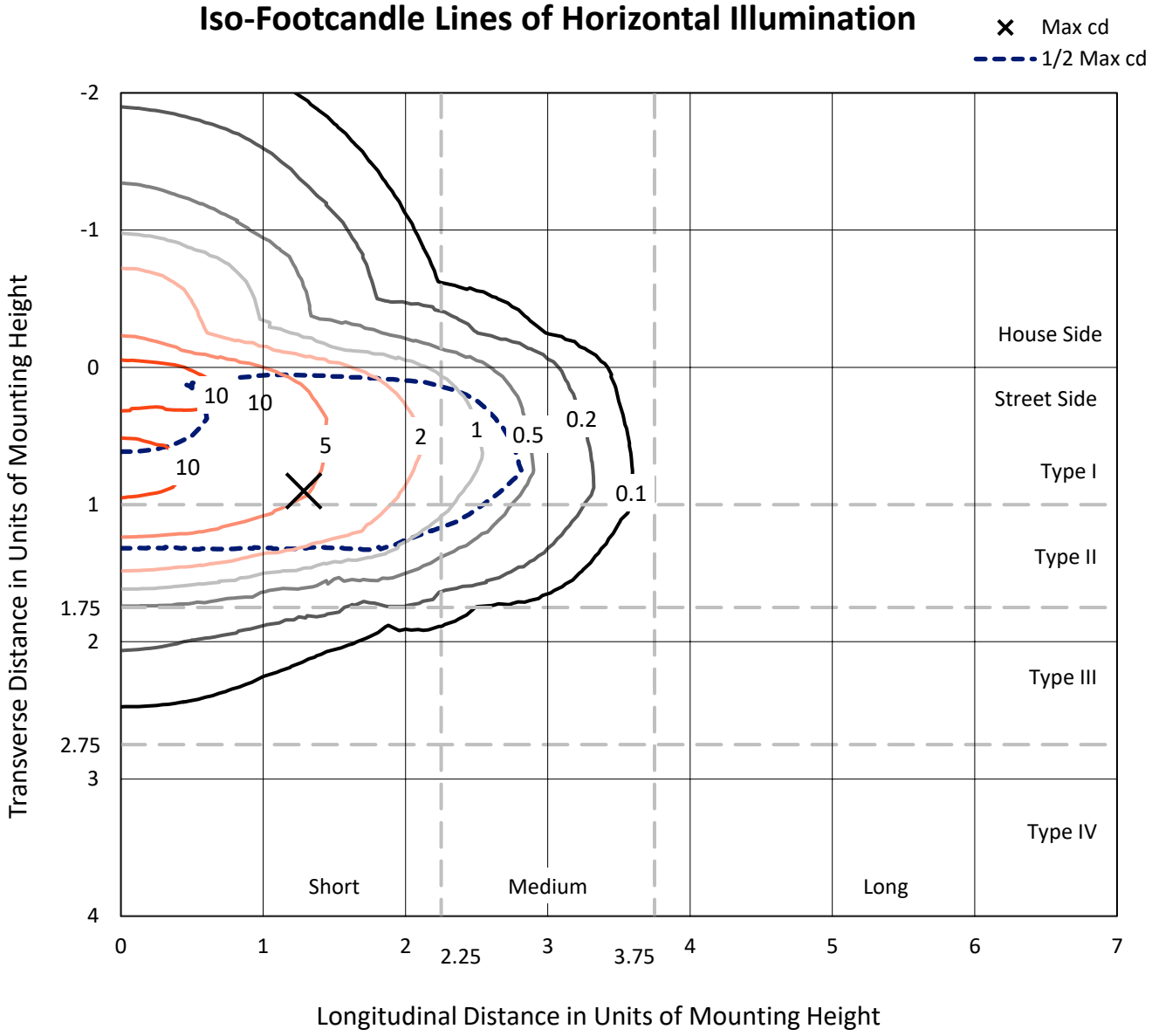
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
Type II - Short - N/A

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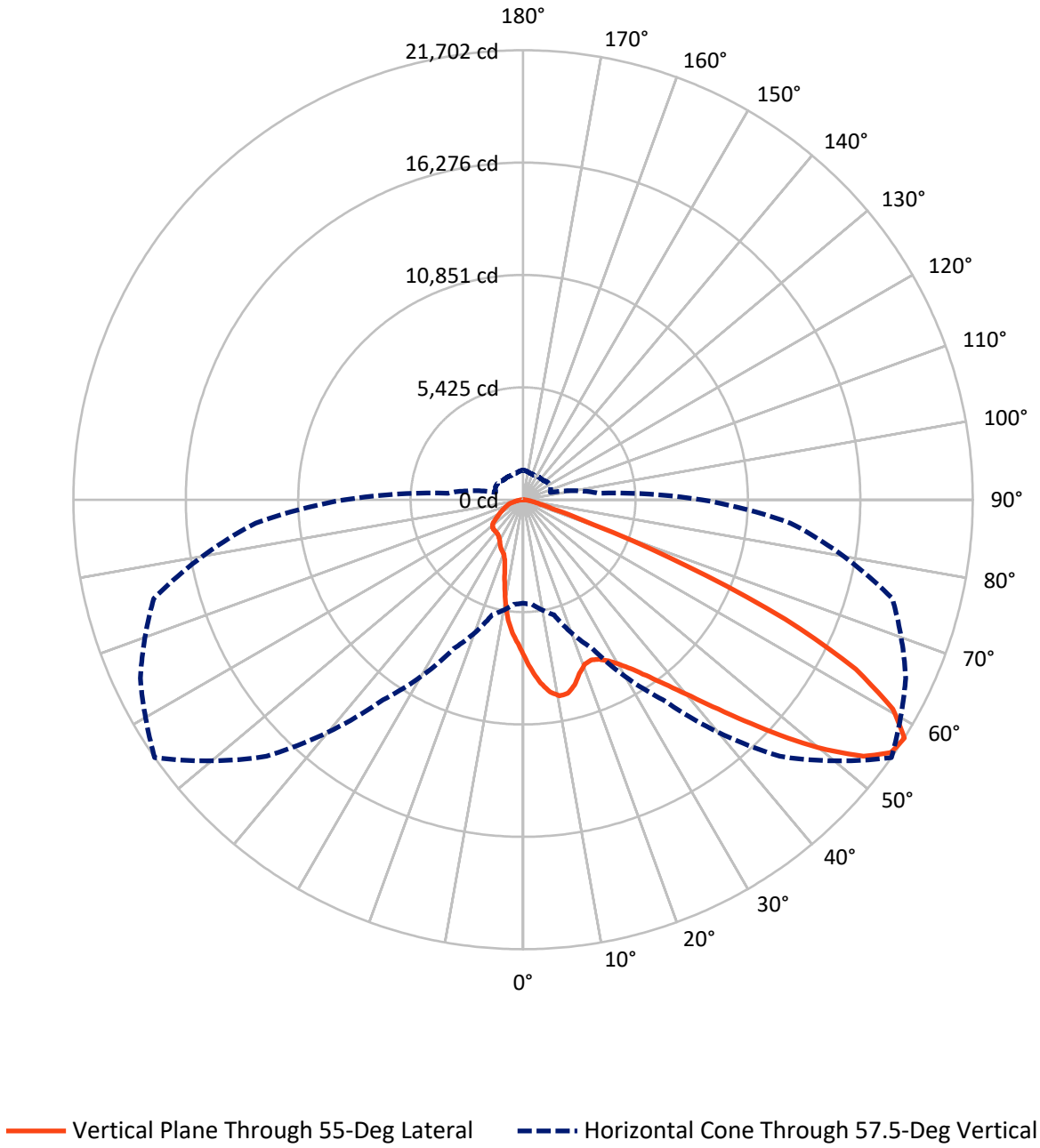
Luminous Intensity Polar Plot



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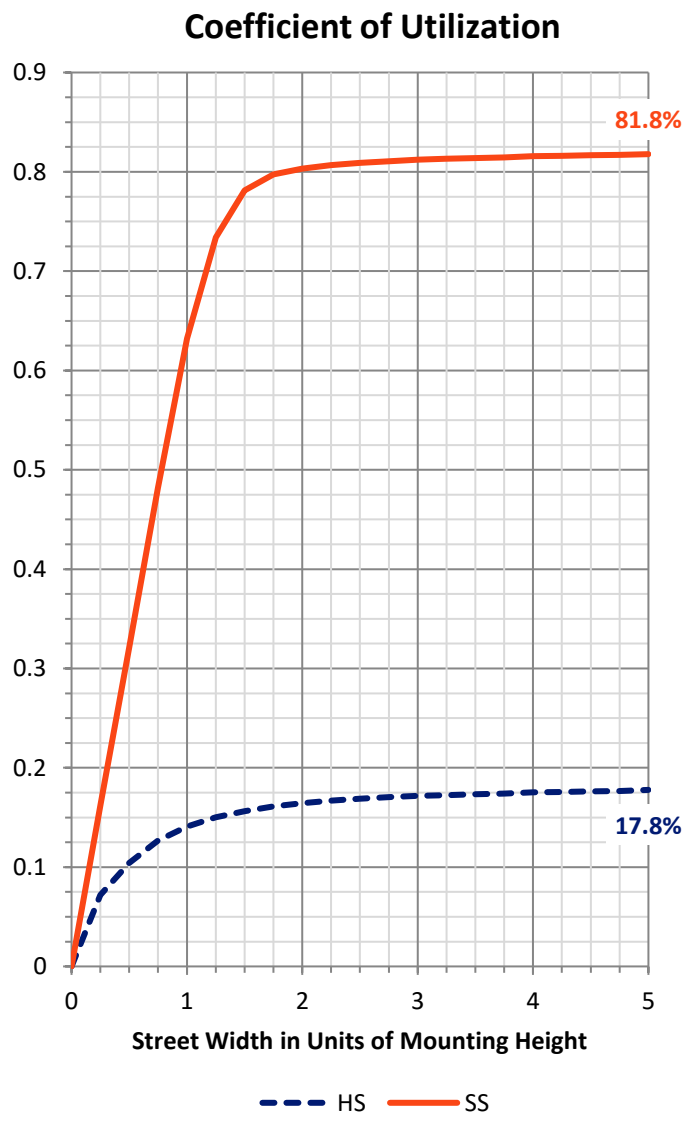
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5464.4	0.0	5464.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24734.6	0.0	24734.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	30199.0	0.0	30199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.2	2.3
10°-20°	1772.3	5.9
20°-30°	2828.1	9.4
30°-40°	4477.5	14.8
40°-50°	6853.3	22.7
50°-60°	7340.6	24.3
60°-70°	4618.0	15.3
70°-80°	1365.6	4.5
80°-90°	241.5	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°	30199.0	100.0
0°-180°	30199.0	100.0



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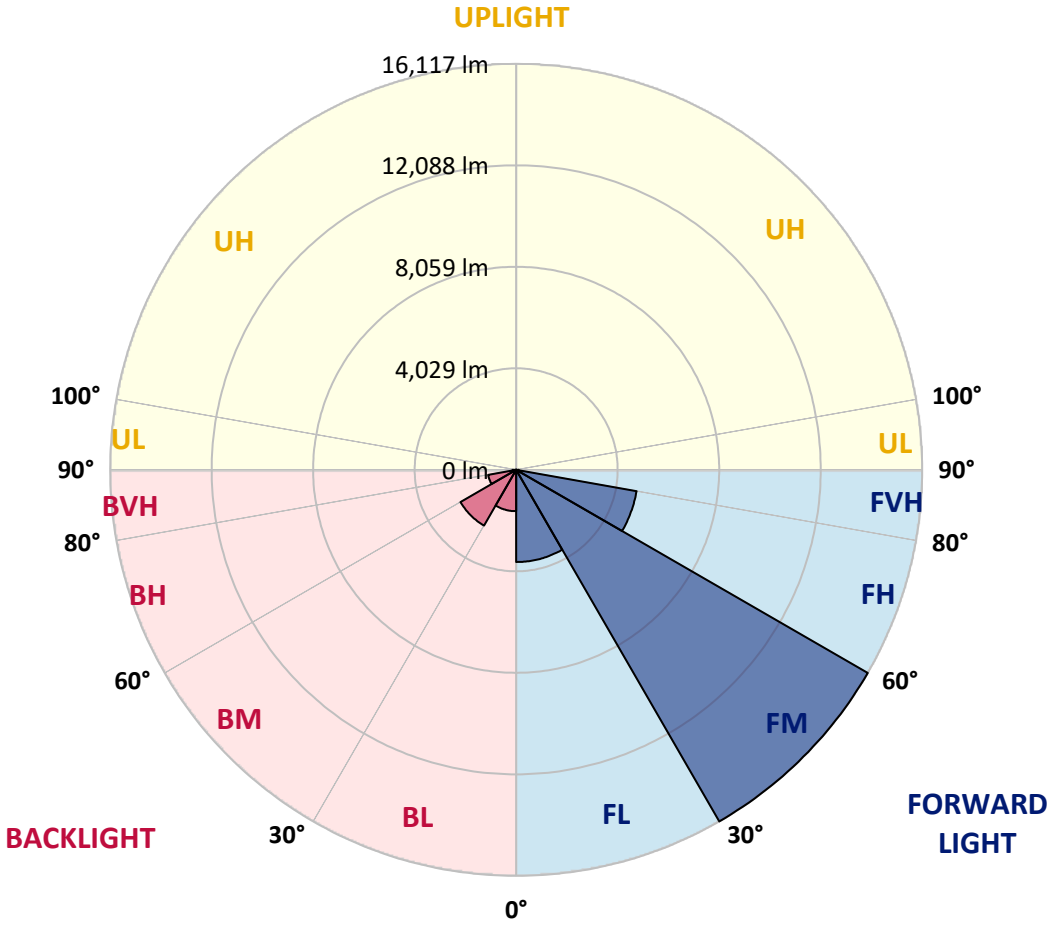
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	3660.1	12.1			
FM	(30°-60°)	16117.4	53.4			
FH	(60°-80°)	4855.1	16.1			G2/5000
FVH	(80°-90°)	102.0	0.3			G2/225
BL	(0°-30°)	1642.4	5.4	B3/2500		
BM	(30°-60°)	2554.0	8.5	B3/5000		
BH	(60°-80°)	1128.5	3.7	B3/2500		G3/2500
BVH	(80°-90°)	139.4	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°	7566.9	7566.9	7566.9	7566.9	7566.9	7566.9	*7566.9*	7566.9	7566.9	7566.9
2.5°	8681.5	8675.3	8709.7	8592.6	8512.9	8405.2	*8263.2*	8082.1	7886.9	7680.9
5°	9463.7	9409.0	9445.0	9357.5	9270.1	9107.7	*8897.0*	8601.9	8241.3	7830.7
7.5°	9340.4	9302.9	9395.0	9473.1	9538.6	9518.3	*9363.8*	9054.7	8589.4	7993.1
10°	8345.9	8303.8	8433.3	8703.4	9099.9	9445.0	*9632.3*	9440.3	8945.4	8171.1
12.5°	7468.5	7448.2	7534.1	7752.7	8192.9	8854.8	*9597.9*	9777.5	9315.4	8381.8
15°	7093.9	7068.9	7123.5	7234.4	7515.4	8132.0	*9285.7*	10008.5	9679.1	8625.3
17.5°	7011.1	6983.0	7006.4	7064.2	7245.3	7715.2	*8814.2*	10122.5	10058.5	8897.0
20°	7164.1	7140.7	7143.8	7140.7	7267.1	7640.3	*8486.4*	10078.8	10389.4	9146.8
22.5°	7534.1	7495.1	7496.6	7413.9	7482.6	7771.4	*8400.5*	9961.7	10684.5	9365.3
25°	8136.7	8066.5	8080.5	7869.8	7851.0	8064.9	*8534.8*	9871.1	10978.0	9540.2
27.5°	8961.0	8881.4	8839.2	8525.4	8375.6	8481.7	*8808.0*	9902.4	11255.9	9691.6
30°	9991.4	9894.6	9808.7	9363.8	9092.1	9053.1	*9232.6*	10108.4	11583.7	9850.9
32.5°	11254.3	11141.9	10985.8	10395.7	10013.2	9808.7	*9782.2*	10475.3	11967.8	10053.8
35°	12757.7	12611.0	12389.3	11625.9	11141.9	10723.5	*10506.5*	11004.5	12493.9	10359.8
37.5°	14306.4	14140.9	13937.9	13029.3	12434.6	11817.9	*11390.1*	11722.7	13194.8	10775.1
40°	15734.8	15549.0	15360.1	14551.5	13913.0	13169.9	*12472.0*	12631.3	14051.9	11271.5
42.5°	16577.8	16440.5	16368.6	15931.5	15438.2	14684.2	*13817.7*	13708.4	15015.1	11842.9
45°	16540.4	16484.2	16705.9	16886.9	16769.9	16351.5	*15394.5*	14899.6	15981.5	12337.8
47.5°	15656.8	15694.2	16189.1	17207.0	17655.0	17873.6	*17189.8*	16068.9	16821.4	12707.8
50°	13252.6	13283.8	14429.7	16624.7	17883.0	19114.7	*18971.1*	17210.1	17472.4	12934.1
52.5°	11349.6	11369.8	11861.6	14898.0	17130.5	19739.2	*20575.9*	18285.7	17948.5	12996.6
55°	8548.9	8619.1	9170.2	11688.3	15172.8	19244.3	*21553.2*	19394.2	18249.8	13002.8
57.5°	*4994.1*	*5070.6*	*5751.3*	*7933.8*	*11792.9*	*17519.2*	*21701.5*	*20377.7*	*18454.3*	*12952.9*
60°	2446.3	2479.1	2775.7	4169.8	7271.8	14195.5	*20508.8*	20853.8	18568.3	12926.3
62.5°	1648.6	1643.9	1656.4	2057.6	3582.8	9120.2	*18023.5*	20020.2	18507.4	12824.8
65°	1417.5	1400.4	1353.5	1444.1	1856.2	4171.4	*13925.4*	17531.7	18043.8	12570.4
67.5°	1225.5	1227.1	1228.6	1200.5	1325.4	1924.9	*8509.8*	13809.9	16379.6	11365.2
70°	1014.7	1028.8	1035.0	1035.0	1080.3	1263.0	*3632.8*	9465.2	12920.1	8911.0
72.5°	924.2	894.5	897.7	882.0	882.0	961.7	*1462.8*	5365.7	8139.8	5012.8
75°	754.0	772.8	775.9	765.0	729.1	733.7	*868.0*	2251.2	3482.9	2079.5
77.5°	651.0	651.0	657.2	649.4	621.3	549.5	*579.2*	872.7	1184.9	852.4
80°	523.0	521.4	548.0	563.6	519.9	405.9	*370.0*	482.4	526.1	374.7
82.5°	254.5	270.1	376.2	429.3	395.0	293.5	*226.4*	299.7	281.0	165.5
85°	148.3	140.5	168.6	238.9	226.4	162.4	*109.3*	156.1	146.7	84.3
87.5°	46.8	43.7	34.3	81.2	65.6	45.3	*29.7*	45.3	40.6	18.7
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7566.9	0°	7566.9	7566.9	7566.9	7566.9	7566.9	7566.9	7566.9	7566.9	7566.9	7566.9
7591.9	2.5°	7481.0	7296.8	7114.2	6947.1	6845.6	6780.1	6714.5	6641.1	6613.0	6570.9
7612.2	5°	7406.1	7050.1	6733.2	6460.0	6211.8	6016.7	5820.0	5660.7	5588.9	5637.3
7676.2	7.5°	7362.4	6847.2	6358.6	5857.4	5375.0	4989.4	4653.8	4418.1	4311.9	4338.4
7738.6	10°	7323.3	6617.7	5873.0	5081.5	4388.4	3910.7	3567.2	3387.7	3320.6	3334.6
7822.9	12.5°	7287.4	6360.1	5287.6	4246.3	3509.5	3194.1	3095.8	3097.3	3109.8	3119.2
7957.2	15°	7281.2	6049.5	4633.5	3515.7	3034.9	3014.6	3120.7	3187.9	3223.8	3234.7
8069.6	17.5°	7271.8	5677.9	3966.9	3017.7	2919.3	3056.7	3155.1	3198.8	3226.9	3228.5
8178.9	20°	7234.4	5206.4	3351.8	2780.4	2894.4	3013.0	3073.9	3108.2	3131.7	3139.5
8261.6	22.5°	7118.8	4681.9	2872.5	2674.2	2794.5	2889.7	2961.5	3000.5	3014.6	3023.9
8277.2	25°	6911.2	4094.9	2541.6	2572.8	2655.5	2775.7	2833.5	2841.3	2836.6	2850.7
8238.2	27.5°	6639.6	3465.8	2335.5	2435.4	2541.6	2644.6	2675.8	2671.1	2661.8	2677.4
8171.1	30°	6311.7	2900.6	2204.3	2280.8	2426.0	2519.7	2547.8	2536.9	2518.1	2535.3
8136.7	32.5°	5965.2	2438.5	2096.6	2173.1	2330.8	2422.9	2451.0	2440.1	2426.0	2440.1
8175.7	35°	5642.0	2115.4	1996.7	2101.3	2255.9	2346.4	2382.3	2383.9	2383.9	2401.0
8278.8	37.5°	5345.4	1926.5	1914.0	2056.0	2204.3	2285.5	2337.0	2340.2	2273.0	2277.7
8453.6	40°	5070.6	1846.8	1876.5	2026.4	2154.4	2232.4	2235.6	2060.7	1937.4	1934.3
8653.4	42.5°	4845.8	1831.2	1887.4	2023.2	2118.5	2121.6	1901.5	1765.7	1731.3	1732.9
8837.7	45°	4635.1	1826.5	1912.4	2023.2	2065.4	1832.8	1684.5	1648.6	1651.7	1664.2
8920.4	47.5°	4399.3	1807.8	1917.1	1995.1	1912.4	1629.8	1586.1	1570.5	1564.3	1567.4
8901.7	50°	4141.7	1740.7	1857.8	1938.9	1650.1	1542.4	1487.8	1483.1	1490.9	1495.6
8797.1	52.5°	3870.1	1631.4	1756.3	1837.5	1529.9	1465.9	1405.0	1416.0	1450.3	1461.2
8687.8	55°	3692.1	1503.4	1622.0	1634.5	1445.6	1394.1	1342.6	1367.6	1431.6	1451.9
8622.2	57.5°	*3645.3*	*1367.6*	*1469.0*	*1455.0*	*1337.9*	*1331.7*	*1300.4*	*1322.3*	*1403.5*	*1433.1*
8619.1	60°	3631.2	1245.8	1319.2	1308.2	1233.3	1263.0	1255.2	1266.1	1294.2	1303.6
8587.9	62.5°	3522.0	1149.0	1184.9	1169.3	1139.6	1191.2	1209.9	1186.5	1208.3	1219.3
8374.0	65°	3244.1	1070.9	1053.8	1042.8	1055.3	1102.2	1139.6	1092.8	1113.1	1144.3
7549.7	67.5°	2785.1	964.8	918.0	930.4	969.5	994.5	1042.8	989.8	1006.9	1060.0
6080.7	70°	2252.7	830.5	788.4	824.3	861.8	913.3	921.1	885.2	925.8	985.1
3710.9	72.5°	1593.9	694.7	665.0	738.4	750.9	818.0	800.9	783.7	839.9	860.2
1834.4	75°	1105.3	560.5	543.3	599.5	644.8	702.5	690.0	710.3	829.0	838.3
916.4	77.5°	699.4	435.6	424.6	460.5	523.0	587.0	607.3	838.3	1416.0	1472.2
476.2	80°	405.9	324.7	312.2	340.3	395.0	454.3	585.4	1028.8	933.6	922.6
213.9	82.5°	226.4	223.2	207.6	215.4	263.8	327.8	827.4	724.4	588.6	607.3
85.9	85°	106.2	131.1	112.4	107.7	148.3	384.0	552.6	413.7	274.8	268.5
18.7	87.5°	28.1	25.0	25.0	28.1	62.4	331.0	220.1	176.4	104.6	101.5
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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