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: P945253

Luminaire Tested: **GALN-SB1B-735-U-AFL**

Issue Date: 1/21/2025

Report Generated By 670246001

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Test Information

Test Method:	LM-79-08
Report Number:	P945253
	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-SB1B-735-U-AFL
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	5729 lumens
Efficiency:	N/A
Efficacy:	143.9 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B1 - U0 - G1
Input Watts (W):	39.8
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

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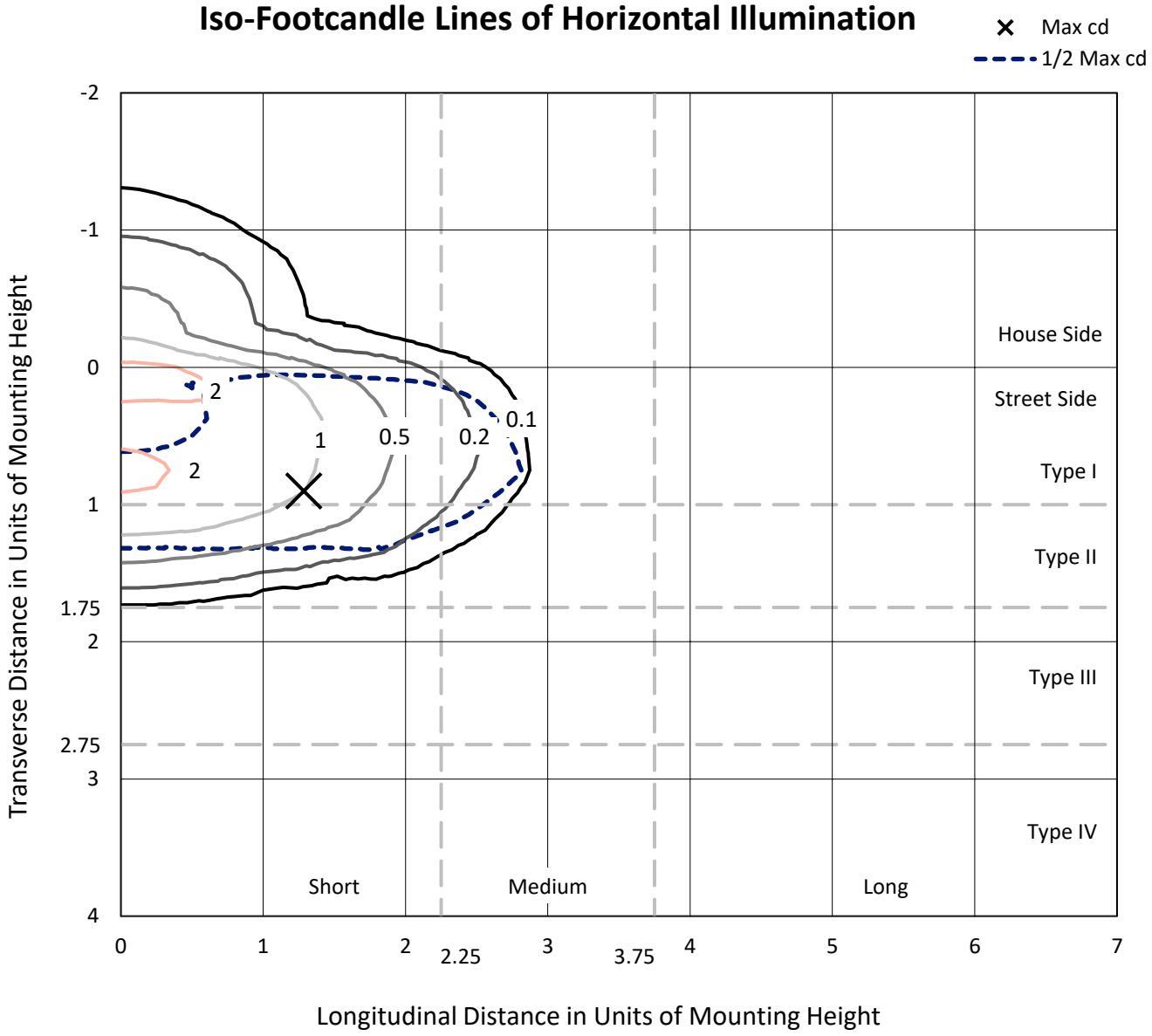
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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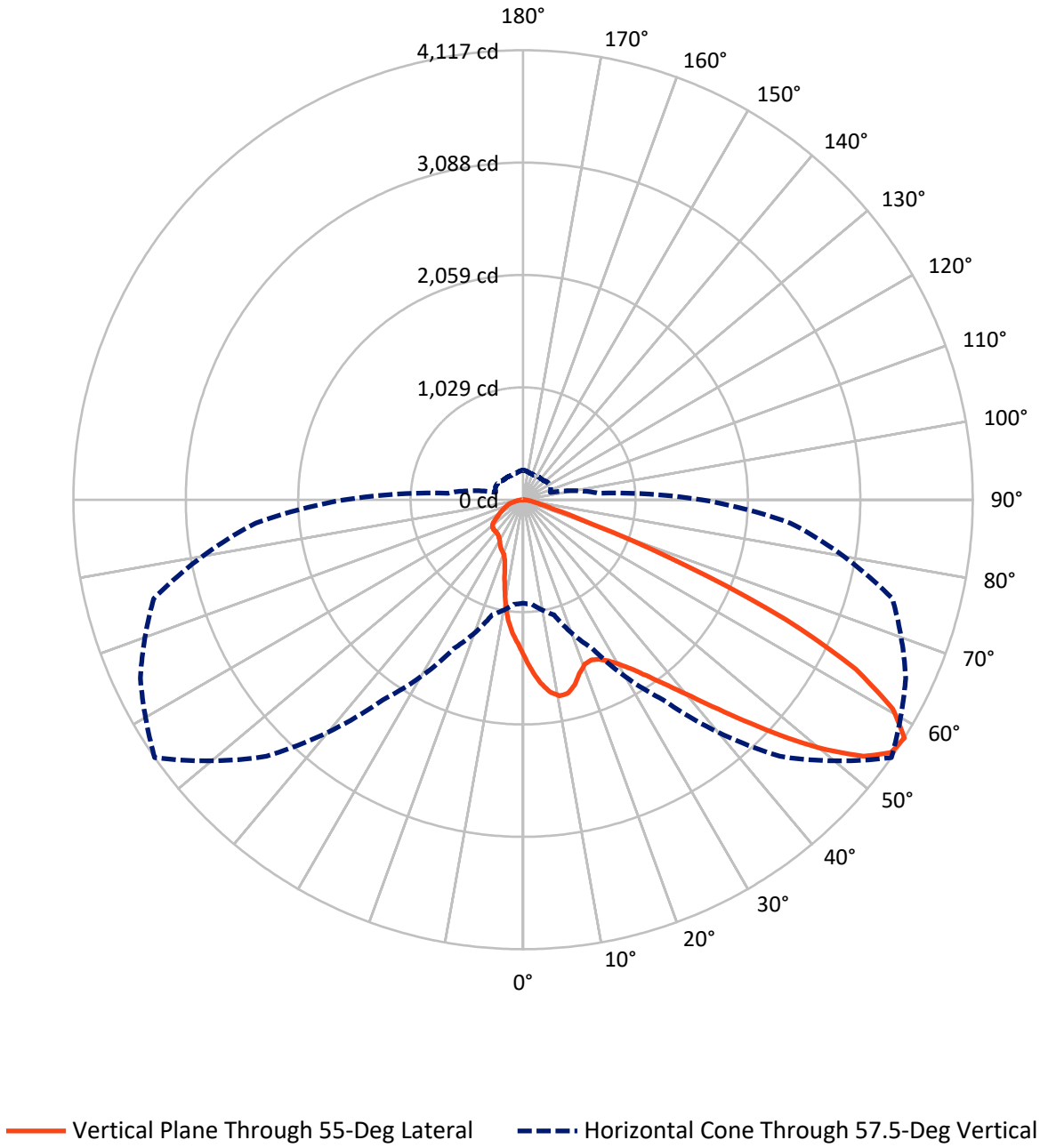
Luminous Intensity Polar Plot



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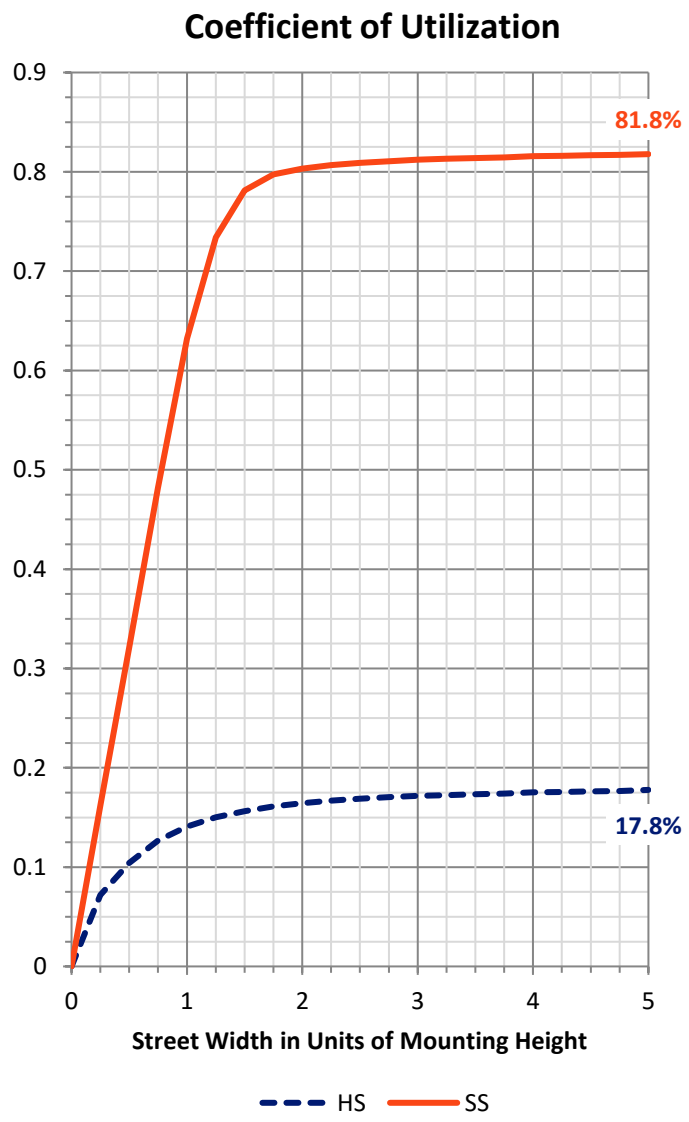
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1036.6	0.0	1036.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	4692.4	0.0	4692.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	5729.0	0.0	5729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	2.3
10°-20°	336.2	5.9
20°-30°	536.5	9.4
30°-40°	849.4	14.8
40°-50°	1300.1	22.7
50°-60°	1392.6	24.3
60°-70°	876.1	15.3
70°-80°	259.1	4.5
80°-90°	45.8	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°	5729.0	100.0
0°-180°	5729.0	100.0



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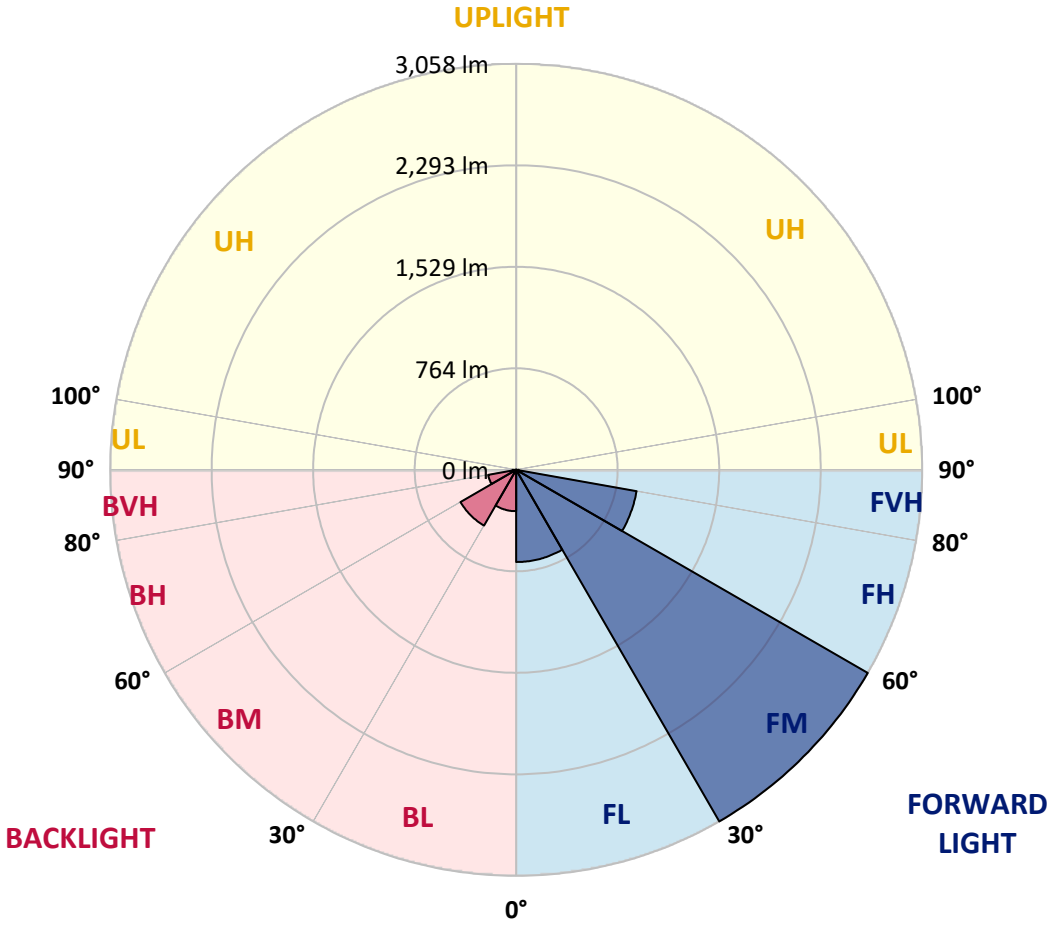
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	694.4	12.1			
FM	(30°-60°)	3057.6	53.4			
FH	(60°-80°)	921.1	16.1			G1/1800
FVH	(80°-90°)	19.4	0.3			G1/100
BL	(0°-30°)	311.6	5.4	B1/500		
BM	(30°-60°)	484.5	8.5	B1/1000		
BH	(60°-80°)	214.1	3.7	B1/500		G1/500
BVH	(80°-90°)	26.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1435.5	1435.5	1435.5	1435.5	1435.5	1435.5	*1435.5*	1435.5	1435.5	1435.5
2.5°	1647.0	1645.8	1652.3	1630.1	1615.0	1594.5	*1567.6*	1533.2	1496.2	1457.1
5°	1795.3	1785.0	1791.8	1775.2	1758.6	1727.8	*1687.8*	1631.9	1563.4	1485.6
7.5°	1771.9	1764.8	1782.3	1797.1	1809.6	1805.7	*1776.4*	1717.7	1629.5	1516.4
10°	1583.3	1575.3	1599.9	1651.1	1726.3	1791.8	*1827.3*	1790.9	1697.0	1550.1
12.5°	1416.8	1413.0	1429.3	1470.7	1554.3	1679.8	*1820.8*	1854.9	1767.2	1590.1
15°	1345.8	1341.0	1351.4	1372.4	1425.7	1542.7	*1761.6*	1898.7	1836.2	1636.3
17.5°	1330.1	1324.7	1329.2	1340.1	1374.5	1463.6	*1672.1*	1920.3	1908.2	1687.8
20°	1359.1	1354.6	1355.2	1354.6	1378.6	1449.4	*1609.9*	1912.0	1971.0	1735.2
22.5°	1429.3	1421.9	1422.2	1406.5	1419.5	1474.3	*1593.7*	1889.8	2026.9	1776.7
25°	1543.6	1530.3	1532.9	1493.0	1489.4	1530.0	*1619.1*	1872.6	2082.6	1809.9
27.5°	1700.0	1684.9	1676.9	1617.3	1588.9	1609.1	*1671.0*	1878.6	2135.3	1838.6
30°	1895.4	1877.1	1860.8	1776.4	1724.9	1717.4	*1751.5*	1917.7	2197.5	1868.8
32.5°	2135.0	2113.7	2084.1	1972.1	1899.6	1860.8	*1855.8*	1987.3	2270.4	1907.3
35°	2420.2	2392.4	2350.3	2205.5	2113.7	2034.3	*1993.2*	2087.7	2370.2	1965.3
37.5°	2714.0	2682.6	2644.1	2471.8	2358.9	2242.0	*2160.8*	2223.9	2503.2	2044.1
40°	2985.0	2949.8	2913.9	2760.5	2639.4	2498.4	*2366.0*	2396.3	2665.8	2138.3
42.5°	3145.0	3118.9	3105.3	3022.3	2928.8	2785.7	*2621.3*	2600.6	2848.5	2246.7
45°	3137.8	3127.2	3169.2	3203.6	3181.4	3102.0	*2920.5*	2826.6	3031.8	2340.6
47.5°	2970.2	2977.3	3071.2	3264.3	3349.3	3390.8	*3261.0*	3048.4	3191.2	2410.8
50°	2514.1	2520.0	2737.4	3153.8	3392.5	3626.2	*3599.0*	3264.9	3314.7	2453.7
52.5°	2153.1	2157.0	2250.2	2826.3	3249.8	3744.7	*3903.4*	3469.0	3405.0	2465.6
55°	1621.8	1635.1	1739.7	2217.4	2878.4	3650.8	*4088.8*	3679.2	3462.1	2466.7
57.5°	*947.4*	*961.9*	*1091.1*	*1505.1*	*2237.2*	*3323.5*	*4117.0*	*3865.8*	*3500.9*	*2457.3*
60°	464.1	470.3	526.6	791.1	1379.5	2693.0	*3890.7*	3956.1	3522.6	2452.2
62.5°	312.7	311.9	314.2	390.3	679.7	1730.2	*3419.2*	3798.0	3511.0	2433.0
65°	268.9	265.7	256.8	274.0	352.1	791.3	*2641.8*	3325.9	3423.1	2384.7
67.5°	232.5	232.8	233.1	227.7	251.4	365.2	*1614.4*	2619.9	3107.3	2156.1
70°	192.5	195.2	196.4	196.4	204.9	239.6	*689.2*	1795.6	2451.0	1690.5
72.5°	175.3	169.7	170.3	167.3	167.3	182.4	*277.5*	1017.9	1544.2	951.0
75°	143.0	146.6	147.2	145.1	138.3	139.2	*164.7*	427.1	660.7	394.5
77.5°	123.5	123.5	124.7	123.2	117.9	104.2	*109.9*	165.6	224.8	161.7
80°	99.2	98.9	104.0	106.9	98.6	77.0	*70.2*	91.5	99.8	71.1
82.5°	48.3	51.2	71.4	81.4	74.9	55.7	*42.9*	56.9	53.3	31.4
85°	28.1	26.7	32.0	45.3	42.9	30.8	*20.7*	29.6	27.8	16.0
87.5°	8.9	8.3	6.5	15.4	12.4	8.6	*5.6*	8.6	7.7	3.6
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1435.5	0°	1435.5	1435.5	1435.5	1435.5	1435.5	1435.5	1435.5	1435.5	1435.5	1435.5
1440.2	2.5°	1419.2	1384.3	1349.6	1317.9	1298.7	1286.2	1273.8	1259.9	1254.5	1246.5
1444.1	5°	1405.0	1337.5	1277.4	1225.5	1178.4	1141.4	1104.1	1073.9	1060.3	1069.4
1456.2	7.5°	1396.7	1299.0	1206.3	1111.2	1019.7	946.5	882.9	838.1	818.0	823.0
1468.1	10°	1389.3	1255.4	1114.2	964.0	832.5	741.9	676.7	642.7	629.9	632.6
1484.1	12.5°	1382.5	1206.6	1003.1	805.6	665.8	605.9	587.3	587.6	590.0	591.7
1509.5	15°	1381.3	1147.6	879.0	667.0	575.7	571.9	592.0	604.8	611.6	613.6
1530.9	17.5°	1379.5	1077.1	752.5	572.5	553.8	579.9	598.5	606.8	612.2	612.5
1551.6	20°	1372.4	987.7	635.9	527.5	549.1	571.6	583.1	589.7	594.1	595.6
1567.3	22.5°	1350.5	888.2	544.9	507.3	530.1	548.2	561.8	569.2	571.9	573.7
1570.3	25°	1311.1	776.8	482.2	488.1	503.8	526.6	537.5	539.0	538.1	540.8
1562.9	27.5°	1259.6	657.5	443.1	462.0	482.2	501.7	507.6	506.7	505.0	507.9
1550.1	30°	1197.4	550.3	418.2	432.7	460.2	478.0	483.3	481.3	477.7	481.0
1543.6	32.5°	1131.6	462.6	397.7	412.3	442.2	459.6	465.0	462.9	460.2	462.9
1551.0	35°	1070.3	401.3	378.8	398.6	428.0	445.1	451.9	452.2	452.2	455.5
1570.6	37.5°	1014.1	365.5	363.1	390.0	418.2	433.6	443.4	443.9	431.2	432.1
1603.7	40°	961.9	350.4	356.0	384.4	408.7	423.5	424.1	390.9	367.5	366.9
1641.6	42.5°	919.3	347.4	358.1	383.8	401.9	402.5	360.7	335.0	328.4	328.7
1676.6	45°	879.3	346.5	362.8	383.8	391.8	347.7	319.6	312.7	313.3	315.7
1692.3	47.5°	834.6	343.0	363.7	378.5	362.8	309.2	300.9	297.9	296.8	297.3
1688.7	50°	785.7	330.2	352.4	367.8	313.0	292.6	282.2	281.4	282.8	283.7
1668.9	52.5°	734.2	309.5	333.2	348.6	290.2	278.1	266.5	268.6	275.1	277.2
1648.1	55°	700.4	285.2	307.7	310.1	274.2	264.5	254.7	259.4	271.6	275.4
1635.7	57.5°	*691.5*	*259.4*	*278.7*	*276.0*	*253.8*	*252.6*	*246.7*	*250.8*	*266.3*	*271.9*
1635.1	60°	688.9	236.3	250.3	248.2	234.0	239.6	238.1	240.2	245.5	247.3
1629.2	62.5°	668.1	218.0	224.8	221.8	216.2	226.0	229.5	225.1	229.2	231.3
1588.6	65°	615.4	203.2	199.9	197.8	200.2	209.1	216.2	207.3	211.2	217.1
1432.2	67.5°	528.4	183.0	174.1	176.5	183.9	188.7	197.8	187.8	191.0	201.1
1153.6	70°	427.4	157.6	149.6	156.4	163.5	173.3	174.7	167.9	175.6	186.9
704.0	72.5°	302.4	131.8	126.2	140.1	142.5	155.2	151.9	148.7	159.3	163.2
348.0	75°	209.7	106.3	103.1	113.7	122.3	133.3	130.9	134.8	157.3	159.0
173.8	77.5°	132.7	82.6	80.6	87.4	99.2	111.4	115.2	159.0	268.6	279.3
90.3	80°	77.0	61.6	59.2	64.6	74.9	86.2	111.1	195.2	177.1	175.0
40.6	82.5°	42.9	42.4	39.4	40.9	50.1	62.2	157.0	137.4	111.7	115.2
16.3	85°	20.1	24.9	21.3	20.4	28.1	72.9	104.8	78.5	52.1	50.9
3.6	87.5°	5.3	4.7	4.7	5.3	11.8	62.8	41.8	33.5	19.8	19.3
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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