

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: P450610

Luminaire Tested: **GALN-SA1B-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3286 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



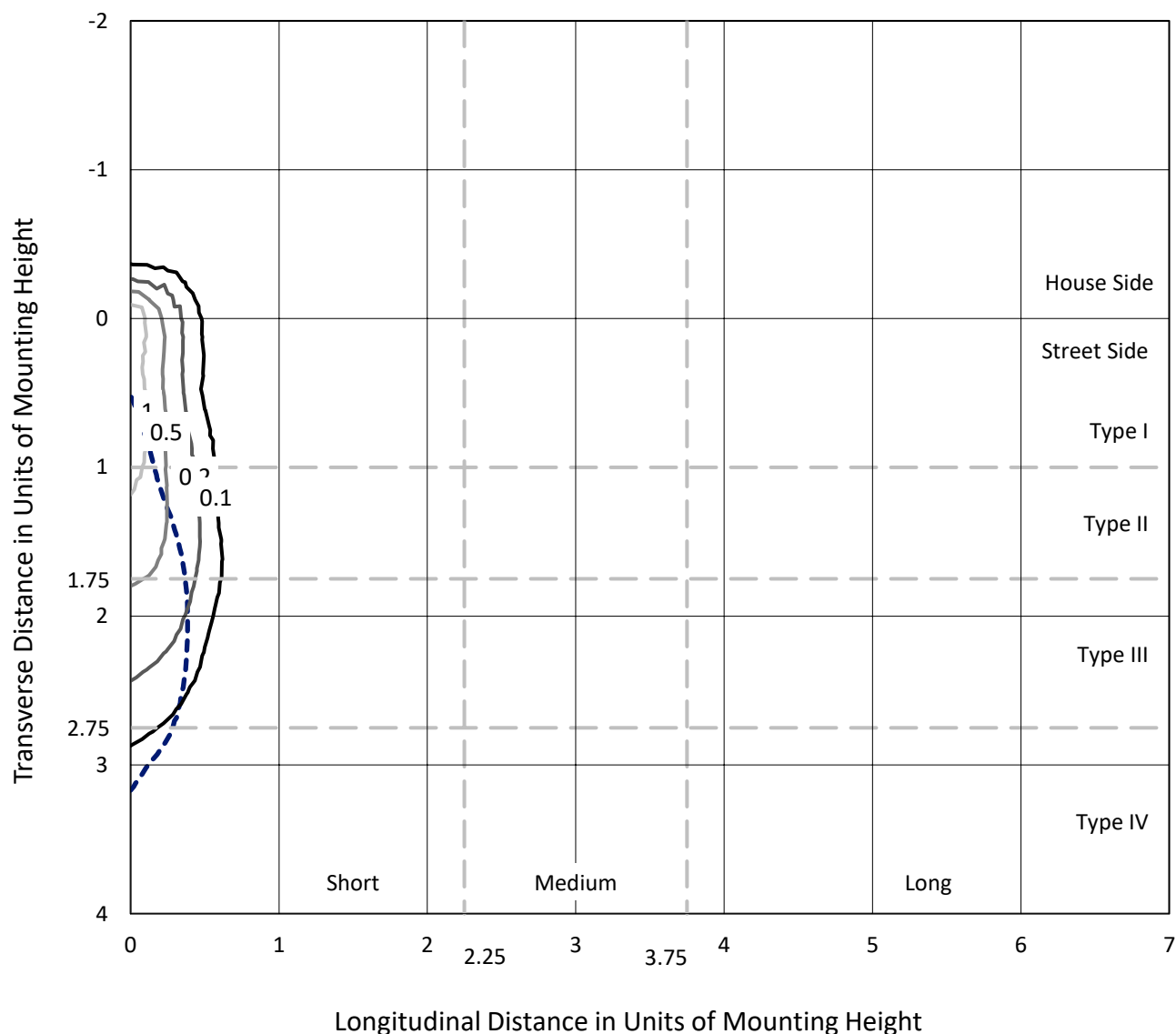
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

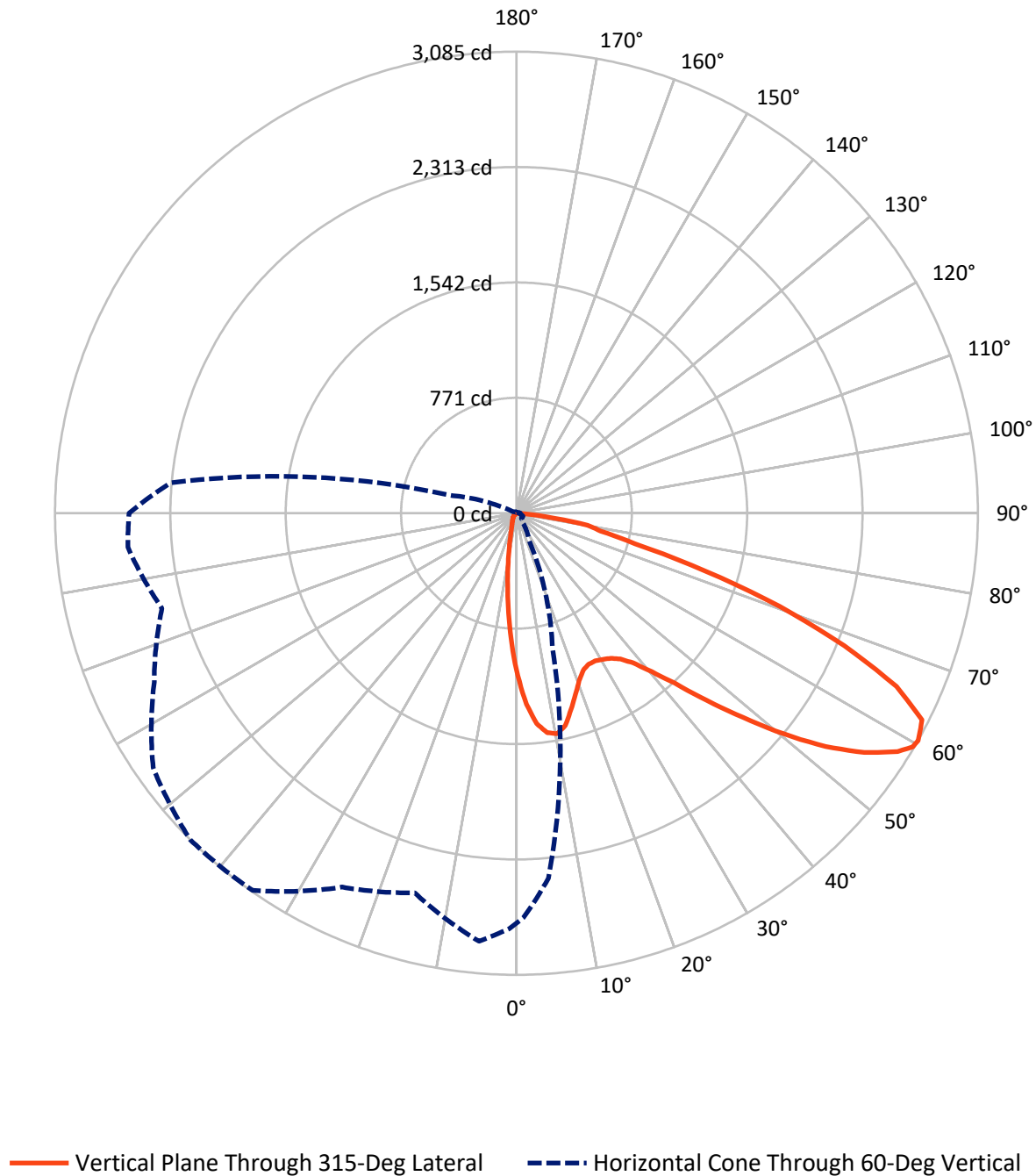
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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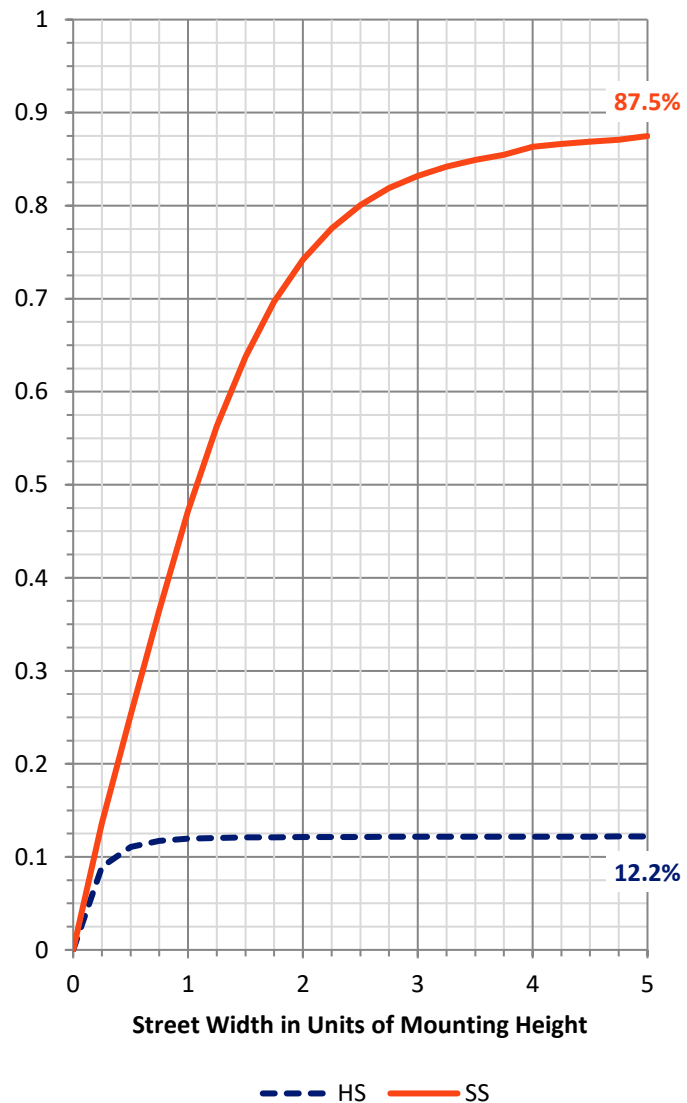
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	405.3	0.0	405.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2880.7	0.0	2880.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	3286.0	0.0	3286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	2.5
10°-20°	160.4	4.9
20°-30°	235.2	7.2
30°-40°	349.8	10.6
40°-50°	509.1	15.5
50°-60°	734.2	22.3
60°-70°	807.5	24.6
70°-80°	361.7	11.0
80°-90°	47.3	1.4
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°	3286.0	100.0
0°-180°	3286.0	100.0

Coefficient of Utilization



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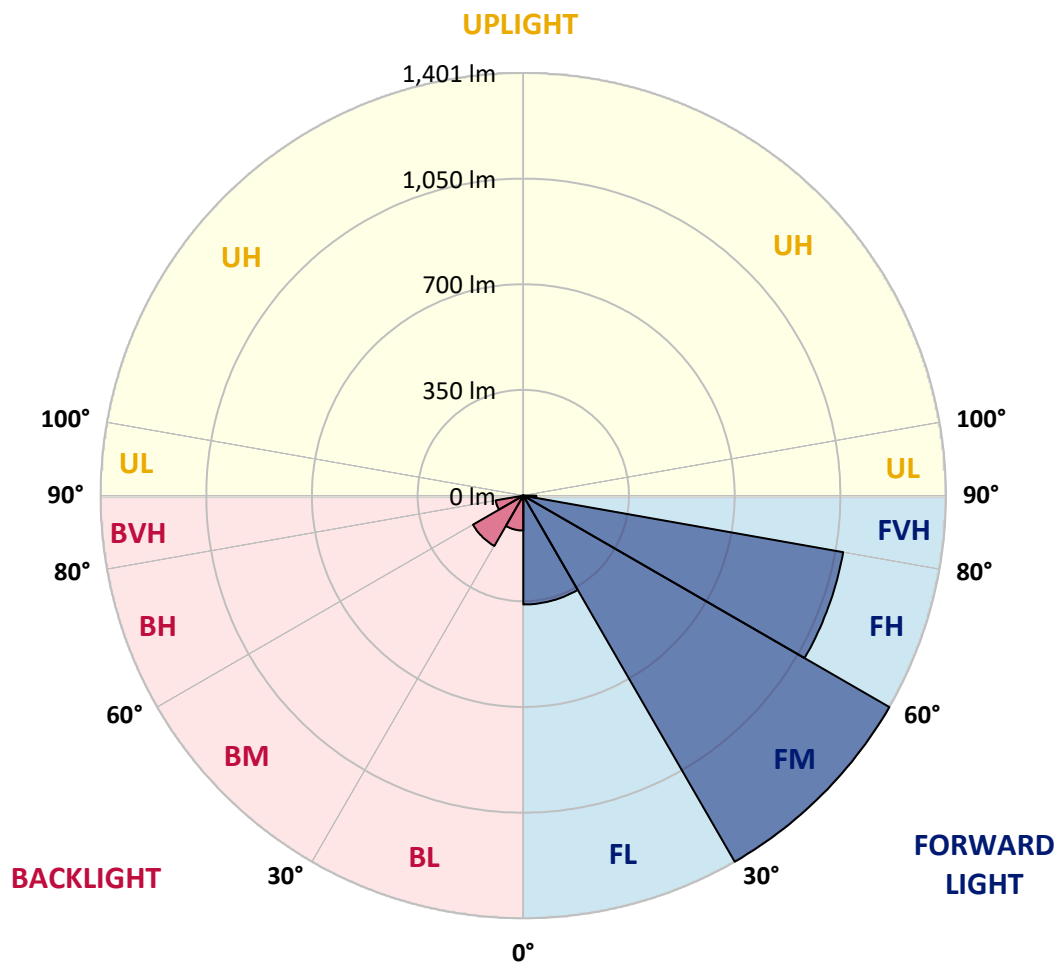
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.6	11.0			
FM	(30°-60°)	1400.6	42.6			
FH	(60°-80°)	1076.3	32.8			G1/1800
FVH	(80°-90°)	43.2	1.3			G1/100
BL	(0°-30°)	115.8	3.5	B1/500		
BM	(30°-60°)	192.5	5.9	B0/220		
BH	(60°-80°)	92.9	2.8	B0/110		G0/110
BVH	(80°-90°)	4.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1
2.5°	1194.0	1188.7	1176.7	1140.3	1108.6	1067.1	1025.1	992.2	971.9	934.7	917.7
5°	1156.8	1159.3	1124.5	1049.6	966.2	909.2	847.0	797.6	743.1	708.6	672.4
7.5°	1059.6	1054.6	1016.9	912.5	811.1	728.6	649.9	586.0	545.8	513.6	486.6
10°	976.4	972.7	924.5	790.1	681.2	619.5	566.3	510.3	467.1	419.9	382.2
12.5°	924.2	915.7	860.3	719.9	631.2	573.8	515.8	457.6	397.9	350.2	304.5
15°	906.7	894.5	832.8	695.7	599.2	526.3	453.6	386.7	318.0	265.3	230.8
17.5°	938.4	918.2	852.5	691.4	561.0	464.4	374.9	287.8	216.3	176.1	154.9
20°	1011.1	987.9	902.5	687.2	518.6	394.9	285.0	203.3	149.6	127.6	115.9
22.5°	1119.0	1087.1	976.4	693.9	479.3	327.2	205.8	143.6	118.9	105.2	96.9
25°	1248.7	1222.0	1070.1	717.9	448.4	274.0	159.1	117.4	100.2	91.7	85.4
27.5°	1390.8	1348.1	1191.2	746.6	420.1	232.8	139.6	104.9	89.2	81.4	78.2
30°	1492.0	1458.8	1292.6	766.6	384.9	201.8	127.6	103.4	89.4	80.2	74.2
32.5°	1591.9	1549.4	1377.6	775.8	359.2	180.3	110.4	90.2	78.4	73.7	67.7
35°	1698.8	1654.3	1462.2	770.8	340.0	166.1	100.2	80.4	67.2	59.2	53.2
37.5°	1807.0	1760.0	1546.4	752.9	328.0	160.4	92.2	76.4	63.4	55.2	48.7
40°	1935.3	1872.6	1625.4	738.1	315.5	157.4	86.9	73.9	60.7	52.0	45.5
42.5°	2040.3	1980.6	1700.0	730.4	307.0	150.4	86.9	71.9	58.9	49.2	42.5
45°	2139.7	2077.7	1780.7	736.6	303.5	141.6	87.9	71.7	57.7	47.2	40.5
47.5°	2222.8	2169.1	1863.7	760.1	299.0	132.1	82.7	75.2	57.0	45.5	38.5
50°	2321.0	2269.1	1973.3	807.6	291.0	122.6	76.2	80.9	56.7	44.0	36.7
52.5°	2459.4	2403.2	2124.7	861.5	278.3	108.2	70.2	80.2	55.7	41.5	35.0
55°	2628.5	2583.0	2300.0	926.2	260.8	91.9	60.7	71.2	52.7	37.2	32.0
57.5°	2736.9	2698.2	2431.4	954.2	234.0	75.2	53.5	59.7	48.2	33.2	28.5
59°	2749.6	2714.7	2458.9	944.9	216.6	68.7	50.0	51.2	47.0	31.0	26.5
60°	2738.9	2702.7	2447.9	927.0	200.3	64.2	47.0	45.5	47.2	29.7	25.0
62.5°	2670.0	2608.0	2341.2	835.8	175.1	58.9	41.7	37.2	41.7	26.7	22.2
65°	2536.8	2443.9	2130.2	707.4	165.1	56.0	35.5	31.2	31.7	23.5	19.2
67.5°	2304.3	2187.1	1849.2	574.8	160.9	56.2	30.0	28.0	24.5	20.0	17.0
70°	1936.6	1819.7	1483.7	472.8	158.9	56.2	25.5	24.0	20.5	16.7	14.7
72.5°	1372.3	1246.4	1000.9	371.4	143.1	56.0	21.7	21.7	16.7	14.0	12.0
75°	775.3	776.3	629.2	262.8	118.9	46.2	17.5	17.2	12.2	10.7	9.0
77.5°	451.9	443.9	424.1	112.9	55.2	21.0	12.2	10.5	8.5	7.7	6.5
80°	232.3	191.1	186.1	41.0	19.7	13.2	8.5	6.0	5.5	5.0	4.5
82.5°	68.7	68.9	61.4	16.5	11.0	8.7	4.2	3.2	3.0	2.7	2.7
85°	4.7	3.0	3.5	5.0	6.7	3.5	0.2	0.7	0.7	1.0	1.2
87.5°	0.5	0.2	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1
2.5°	899.0	910.0	889.5	890.0	873.0	878.5	858.5	865.0	853.3	862.3	888.7
5°	676.4	678.9	662.4	657.2	659.7	669.9	673.9	655.7	663.4	648.2	647.2
7.5°	476.6	479.6	470.1	468.8	486.8	482.6	490.3	471.6	453.9	461.6	447.4
10°	370.2	357.7	338.2	332.7	329.2	331.5	331.5	314.5	312.0	305.2	315.5
12.5°	292.2	277.0	258.5	233.6	227.3	226.8	217.6	202.6	197.8	192.1	200.6
15°	212.3	206.1	190.6	176.6	162.4	159.6	144.6	132.4	116.2	113.9	113.2
17.5°	149.4	140.1	139.9	131.9	123.6	118.1	104.2	90.2	83.9	83.2	83.2
20°	111.9	108.7	103.4	102.4	99.9	93.7	81.2	73.7	70.7	70.9	71.9
22.5°	94.2	91.9	87.2	84.9	83.9	78.4	69.2	64.2	62.7	62.7	62.9
25°	84.2	82.2	76.9	73.4	72.2	68.2	60.9	57.2	56.0	56.0	56.0
27.5°	76.7	74.2	68.7	65.7	63.4	58.9	54.5	50.7	49.5	49.5	49.7
30°	71.4	68.7	63.7	59.7	56.2	52.2	48.5	45.2	43.7	43.5	43.7
32.5°	64.4	61.9	57.0	54.5	50.5	45.7	42.7	39.7	38.2	38.5	38.2
35°	50.2	49.5	46.0	46.7	44.5	40.5	37.7	34.5	32.7	32.5	33.0
37.5°	45.7	42.7	38.7	39.0	38.2	36.7	32.2	28.7	27.5	27.5	27.7
40°	42.2	39.2	34.7	32.5	32.7	32.7	28.0	24.2	23.0	22.7	23.2
42.5°	39.2	36.2	31.2	27.5	26.5	27.7	23.7	20.0	18.7	18.2	18.7
45°	37.2	34.0	28.2	24.0	21.0	22.5	19.5	16.5	15.0	15.0	14.7
47.5°	35.2	32.2	26.0	20.7	17.5	16.7	16.0	13.2	11.7	11.5	11.7
50°	33.5	30.5	23.5	18.0	14.7	13.0	13.0	10.5	9.5	9.0	9.2
52.5°	31.7	28.5	21.2	16.0	12.7	10.5	9.2	8.5	7.7	7.5	7.7
55°	29.2	26.0	19.0	13.7	11.0	8.7	7.2	7.0	6.5	6.0	6.5
57.5°	26.2	23.2	16.7	11.7	8.7	6.7	6.0	5.7	5.2	5.0	5.0
59°	24.5	21.7	15.5	10.2	7.7	6.0	5.5	5.2	4.7	4.2	4.5
60°	23.5	21.2	14.7	9.5	7.0	5.5	5.0	4.7	4.2	4.0	4.2
62.5°	20.7	19.0	13.0	7.7	5.5	4.0	3.5	3.7	3.5	3.2	3.5
65°	18.2	16.7	11.0	6.0	4.2	2.7	2.5	3.2	3.0	2.7	3.0
67.5°	16.2	14.5	9.2	4.5	3.0	1.5	1.7	2.7	2.7	2.5	2.7
70°	14.0	12.5	7.5	3.2	1.5	0.7	1.2	2.0	2.5	2.2	2.5
72.5°	11.5	9.7	5.7	2.2	0.7	0.0	0.7	1.7	2.5	2.2	2.5
75°	9.0	7.2	4.2	1.2	0.0	0.0	0.2	1.5	2.5	2.2	2.5
77.5°	6.5	5.2	2.5	0.2	0.0	0.0	0.2	1.5	2.5	2.2	2.5
80°	4.2	3.7	1.0	0.0	0.0	0.0	0.2	1.5	2.5	2.5	2.7
82.5°	2.7	2.0	0.0	0.0	0.0	0.0	0.5	2.0	2.7	3.0	3.0
85°	1.2	0.0	0.0	0.0	0.0	0.0	1.0	2.5	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.7	3.0	3.7	3.7	3.7
90°	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1
2.5°	893.2	909.0	931.2	965.4	993.1	1036.9	1070.3	1116.0	1162.3	1176.2	1198.0
5°	657.4	677.7	728.1	774.1	803.1	895.5	953.9	1046.1	1128.8	1168.5	1211.7
7.5°	456.6	480.6	519.1	583.3	644.2	719.4	813.8	919.2	1040.4	1097.1	1158.0
10°	320.5	350.4	404.7	457.4	534.0	605.5	698.7	815.1	948.7	1015.6	1092.1
12.5°	202.3	229.1	300.7	359.9	455.6	538.5	624.5	729.9	884.7	953.4	1033.6
15°	115.7	138.1	171.6	247.5	353.7	463.4	570.5	692.9	852.0	936.7	1023.4
17.5°	86.2	92.2	107.2	150.1	246.8	374.9	520.8	681.7	874.3	973.7	1072.6
20°	72.4	76.4	83.4	100.4	157.4	288.8	472.3	683.7	946.2	1071.1	1165.0
22.5°	64.9	67.4	73.2	84.2	107.4	210.3	415.6	695.4	1033.4	1190.7	1299.1
25°	57.0	60.2	65.2	74.7	89.4	145.9	359.7	721.6	1155.5	1342.6	1444.5
27.5°	50.7	53.7	58.7	67.4	78.4	111.4	294.5	744.1	1284.4	1495.5	1578.9
30°	44.5	47.5	52.5	59.4	69.4	90.2	224.3	757.4	1409.5	1610.1	1674.3
32.5°	39.2	41.7	46.5	52.7	60.9	76.4	176.8	743.6	1505.2	1714.3	1757.2
35°	34.0	37.0	41.0	46.7	54.0	65.2	147.1	696.2	1587.4	1821.4	1836.9
37.5°	28.5	32.0	36.2	41.5	47.2	59.9	118.1	643.7	1675.3	1955.1	1929.6
40°	24.0	27.2	31.2	37.0	42.2	55.0	90.9	587.7	1770.2	2080.5	2030.8
42.5°	19.5	23.0	27.7	33.0	41.7	48.0	70.4	529.8	1855.4	2189.6	2122.2
45°	15.5	18.5	23.5	30.2	41.5	41.2	54.5	472.6	1919.6	2267.6	2190.4
47.5°	12.2	14.7	19.7	29.5	38.2	35.0	43.7	437.1	1987.0	2337.7	2242.6
50°	9.7	12.2	17.0	30.7	33.5	30.0	36.7	442.9	2052.2	2373.5	2264.1
52.5°	8.2	10.7	14.7	24.2	25.7	26.2	32.2	469.3	2136.4	2411.7	2306.8
55°	7.2	9.5	12.5	17.0	20.0	23.5	29.5	488.6	2249.1	2493.6	2400.9
57.5°	5.7	8.2	11.2	14.5	16.5	20.5	27.2	490.1	2351.0	2598.8	2526.1
59°	5.2	7.5	10.5	13.7	14.7	18.5	25.7	477.3	2354.7	2614.5	2583.5
60°	4.7	7.2	10.0	12.7	14.0	17.5	24.5	462.6	2320.8	2589.5	2607.3
62.5°	4.0	6.2	8.7	10.2	12.0	14.5	21.2	409.1	2156.2	2476.4	2563.3
65°	3.5	5.5	7.5	8.5	10.0	12.5	18.7	327.5	1974.3	2323.0	2437.4
67.5°	3.2	5.0	6.5	7.2	8.7	11.5	16.7	231.3	1738.8	2128.4	2248.3
70°	3.0	4.7	5.7	6.7	7.7	9.7	14.2	134.9	1339.4	1787.2	1913.9
72.5°	3.0	4.5	5.0	5.7	6.7	8.7	13.2	72.9	915.7	1363.3	1526.9
75°	3.0	4.2	4.5	5.0	6.0	8.0	11.7	38.2	592.0	947.2	1169.0
77.5°	3.0	4.0	4.5	4.7	5.7	7.0	10.2	24.0	394.4	663.4	790.1
80°	3.2	4.0	4.2	4.7	5.5	6.5	8.5	16.0	231.8	399.2	480.8
82.5°	3.5	4.0	4.5	5.0	5.7	6.2	7.5	10.0	106.9	264.0	298.7
85°	3.7	4.2	4.7	5.2	6.0	6.2	7.0	7.2	17.5	119.1	161.1
87.5°	4.0	4.5	5.0	5.5	6.5	6.5	6.5	6.5	6.0	12.7	32.5
90°	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1	1086.1
2.5°	1225.5	1253.7	1273.4	1278.4	1264.2	1257.7	1239.7	1211.7	1194.7	1194.0
5°	1291.4	1357.6	1403.5	1411.3	1383.8	1337.4	1282.2	1211.0	1169.2	1156.8
7.5°	1280.2	1396.1	1470.0	1480.7	1434.5	1345.8	1238.9	1124.3	1078.8	1059.6
10°	1233.9	1375.3	1481.0	1498.0	1436.3	1311.4	1175.5	1047.6	991.2	976.4
12.5°	1194.5	1337.4	1431.3	1454.8	1408.0	1283.4	1137.5	998.4	937.9	924.2
15°	1177.2	1292.4	1349.8	1361.8	1354.1	1265.9	1133.5	990.9	921.7	906.7
17.5°	1194.5	1254.2	1261.4	1273.7	1290.9	1264.2	1172.0	1031.6	956.9	938.4
20°	1239.7	1221.0	1191.0	1196.2	1235.7	1271.4	1240.4	1121.8	1030.9	1011.1
22.5°	1316.6	1212.7	1144.8	1140.3	1190.2	1295.6	1340.9	1243.9	1138.5	1119.0
25°	1411.0	1233.4	1127.8	1118.0	1172.5	1331.1	1450.0	1393.6	1278.4	1248.7
27.5°	1514.0	1276.4	1127.8	1118.3	1171.0	1362.6	1543.4	1525.9	1423.3	1390.8
30°	1570.4	1311.9	1144.0	1133.3	1189.5	1380.8	1593.4	1643.6	1532.2	1492.0
32.5°	1620.9	1361.1	1175.7	1155.5	1228.2	1407.8	1638.1	1743.5	1618.9	1591.9
35°	1667.3	1413.8	1219.5	1196.0	1279.2	1444.8	1687.6	1848.4	1739.5	1698.8
37.5°	1718.5	1475.0	1287.6	1267.7	1364.3	1516.7	1746.3	1986.3	1858.2	1807.0
40°	1774.2	1545.9	1399.8	1391.3	1499.7	1598.1	1820.4	2133.4	1993.5	1935.3
42.5°	1830.9	1627.6	1537.2	1551.2	1653.1	1712.3	1896.6	2246.6	2104.4	2040.3
45°	1882.4	1732.0	1715.8	1785.0	1831.9	1823.7	1953.1	2326.3	2201.1	2139.7
47.5°	1947.3	1884.1	1931.8	2038.5	2039.8	1944.8	1995.8	2391.5	2284.3	2222.8
50°	2020.0	2063.7	2210.9	2319.5	2290.3	2064.0	2045.7	2468.6	2370.2	2321.0
52.5°	2104.2	2264.8	2468.6	2589.3	2521.1	2193.9	2128.9	2552.1	2506.6	2459.4
55°	2202.1	2401.9	2725.7	2821.8	2753.1	2355.2	2255.3	2665.2	2660.7	2628.5
57.5°	2312.8	2546.8	2874.5	3004.7	2943.5	2544.6	2431.9	2771.9	2754.9	2736.9
59°	2400.2	2621.3	2940.2	3075.1	3038.1	2677.2	2550.6	2838.3	2776.6	2749.6
60°	2453.1	2671.7	2964.5	3084.6	3076.1	2756.1	2625.8	2870.8	2776.4	2738.9
62.5°	2610.3	2759.9	2955.2	3042.4	3075.6	2907.5	2846.3	2906.5	2724.9	2670.0
65°	2666.2	2730.7	2802.1	2791.4	2819.8	2899.8	2987.2	2867.3	2615.0	2536.8
67.5°	2557.3	2410.2	2435.4	2363.7	2349.7	2578.0	2930.0	2675.5	2399.9	2304.3
70°	2155.7	1846.4	1833.7	1866.7	1776.2	2087.2	2631.0	2306.0	2045.0	1936.6
72.5°	1696.8	1304.9	1197.5	1318.9	1316.1	1592.4	2185.6	1636.3	1381.6	1372.3
75°	1334.4	908.5	797.3	817.1	855.0	1152.8	1740.8	1039.1	850.8	775.3
77.5°	895.7	643.7	600.5	576.3	617.2	740.1	1101.3	563.5	477.1	451.9
80°	516.3	467.6	531.0	482.1	504.1	466.4	547.8	258.5	214.6	232.3
82.5°	336.0	266.3	283.8	210.8	288.3	290.8	175.8	76.4	64.7	68.7
85°	210.1	124.9	70.2	50.0	99.4	182.8	55.0	4.7	5.5	4.7
87.5°	54.5	20.7	8.7	13.0	16.0	14.2	12.7	0.7	0.2	0.5
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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