

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: P451306

Luminaire Tested: **GALN-SA2A-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451306
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-SA2A-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5248 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
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



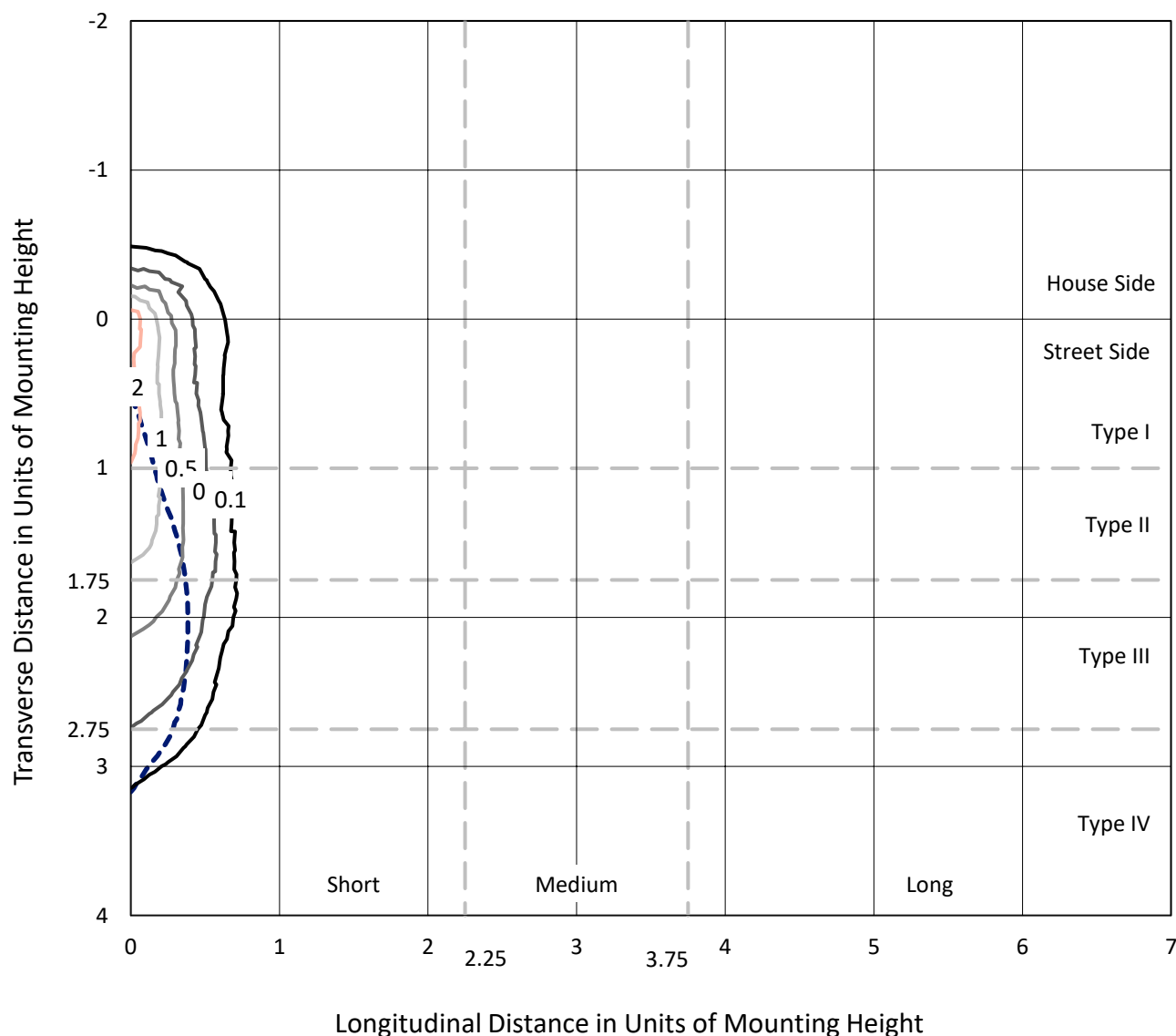
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

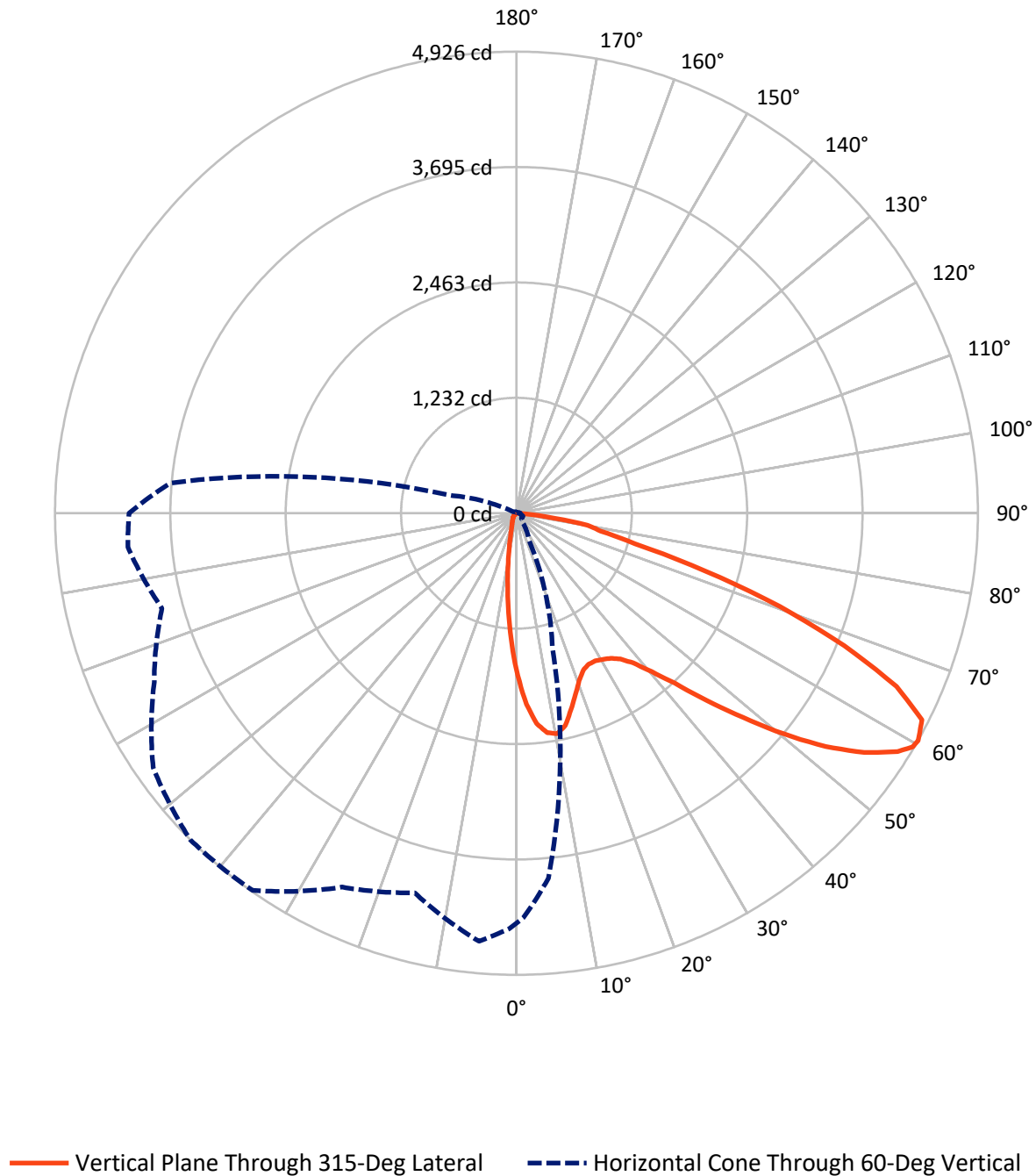


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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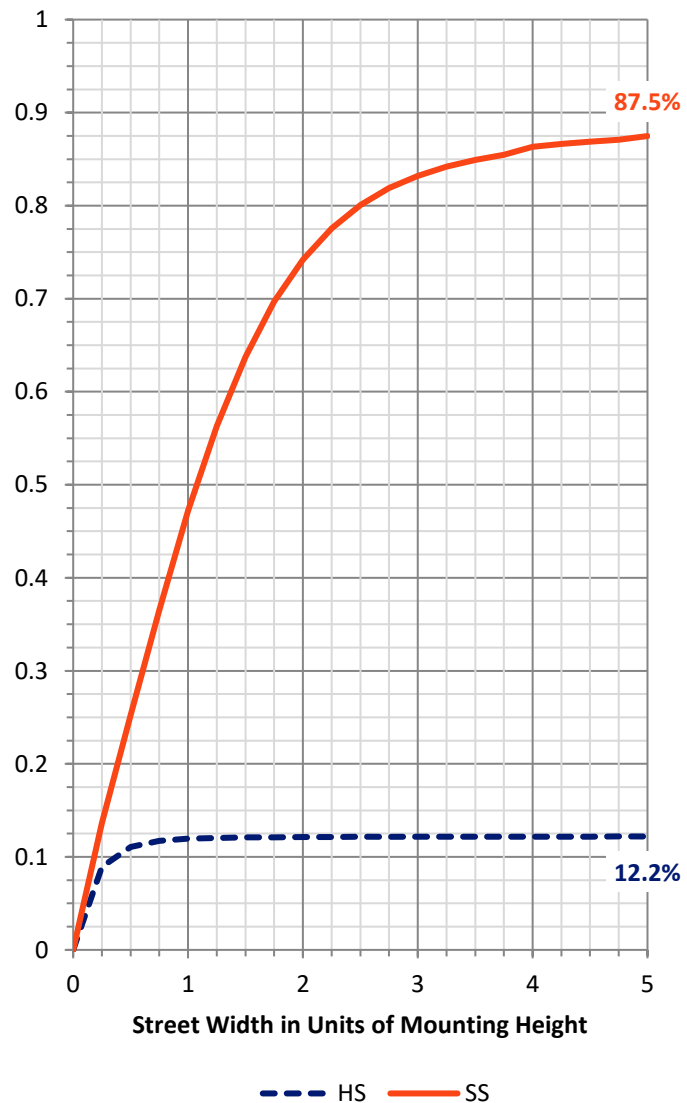
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	647.3	0.0	647.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4600.7	0.0	4600.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	5248.0	0.0	5248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	2.5
10°-20°	256.2	4.9
20°-30°	375.7	7.2
30°-40°	558.7	10.6
40°-50°	813.1	15.5
50°-60°	1172.5	22.3
60°-70°	1289.7	24.6
70°-80°	577.7	11.0
80°-90°	75.5	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°	5248.0	100.0
0°-180°	5248.0	100.0

Coefficient of Utilization



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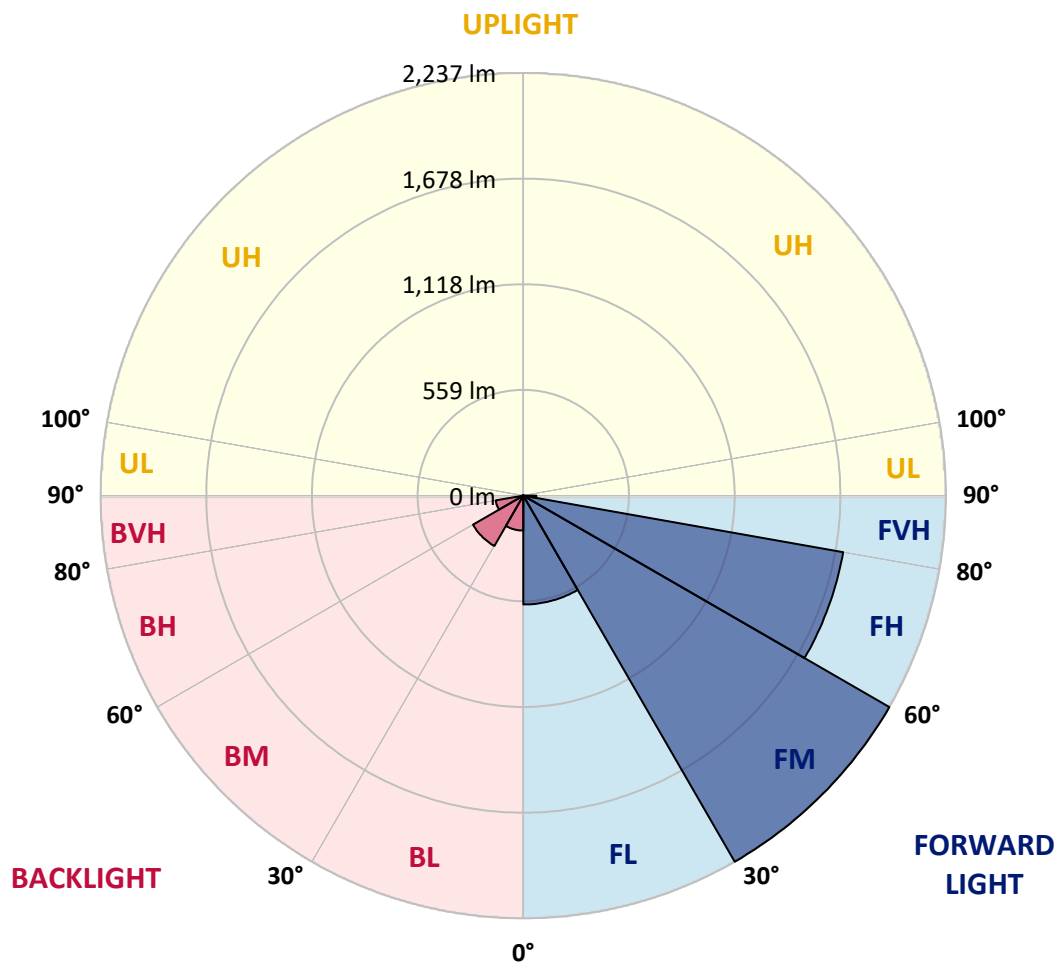
CATALOG NUMBER: GALN-SA2A-830-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.0	11.0			
FM	(30°-60°)	2236.9	42.6			
FH	(60°-80°)	1718.9	32.8			G1/1800
FVH	(80°-90°)	69.0	1.3			G1/100
BL	(0°-30°)	185.0	3.5	B1/500		
BM	(30°-60°)	307.4	5.9	B1/1000		
BH	(60°-80°)	148.4	2.8	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1906.9	1898.5	1879.3	1821.1	1770.4	1704.2	1637.2	1584.5	1552.2	1492.8	1465.7
5°	1847.4	1851.4	1796.0	1676.3	1543.1	1452.1	1352.8	1273.8	1186.8	1131.8	1073.9
7.5°	1692.3	1684.3	1624.0	1457.3	1295.3	1163.7	1038.0	935.9	871.7	820.2	777.1
10°	1559.4	1553.4	1476.4	1261.8	1087.9	989.3	904.4	815.0	746.0	670.6	610.4
12.5°	1476.0	1462.5	1373.9	1149.7	1008.1	916.3	823.8	730.8	635.5	559.3	486.3
15°	1448.1	1428.6	1330.0	1111.0	957.0	840.5	724.5	617.5	507.8	423.7	368.6
17.5°	1498.8	1466.5	1361.5	1104.2	896.0	741.6	598.8	459.6	345.5	281.2	247.3
20°	1614.9	1577.8	1441.3	1097.5	828.2	630.7	455.2	324.7	239.0	203.9	185.1
22.5°	1787.2	1736.1	1559.4	1108.2	765.5	522.6	328.7	229.4	189.9	167.9	154.8
25°	1994.2	1951.6	1709.0	1146.5	716.1	437.6	254.1	187.5	160.0	146.4	136.4
27.5°	2221.2	2153.0	1902.5	1192.4	671.0	371.8	223.0	167.5	142.4	130.1	124.9
30°	2382.8	2329.7	2064.5	1224.3	614.7	322.3	203.9	165.2	142.8	128.1	118.5
32.5°	2542.4	2474.6	2200.1	1239.1	573.7	288.0	176.3	144.0	125.3	117.7	108.1
35°	2713.1	2642.1	2335.3	1231.1	542.9	265.3	160.0	128.5	107.3	94.5	85.0
37.5°	2885.8	2810.8	2469.8	1202.4	523.8	256.1	147.2	122.1	101.3	88.2	77.8
40°	3090.9	2990.8	2595.8	1178.8	503.8	251.3	138.8	118.1	96.9	83.0	72.6
42.5°	3258.4	3163.1	2715.1	1166.5	490.3	240.2	138.8	114.9	94.1	78.6	67.8
45°	3417.2	3318.3	2844.0	1176.4	484.7	226.2	140.4	114.5	92.2	75.4	64.6
47.5°	3550.1	3464.3	2976.4	1213.9	477.5	211.0	132.0	120.1	91.0	72.6	61.4
50°	3706.8	3623.9	3151.5	1289.7	464.8	195.9	121.7	129.3	90.6	70.2	58.6
52.5°	3927.8	3838.1	3393.3	1375.9	444.4	172.7	112.1	128.1	89.0	66.2	55.8
55°	4197.9	4125.3	3673.3	1479.2	416.5	146.8	96.9	113.7	84.2	59.4	51.1
57.5°	4371.1	4309.2	3883.2	1523.9	373.8	120.1	85.4	95.3	77.0	53.1	45.5
59°	4391.4	4335.5	3927.0	1509.1	345.9	109.7	79.8	81.8	75.0	49.5	42.3
60°	4374.2	4316.4	3909.5	1480.4	319.9	102.5	75.0	72.6	75.4	47.5	39.9
62.5°	4264.1	4165.2	3739.2	1334.8	279.6	94.1	66.6	59.4	66.6	42.7	35.5
65°	4051.5	3903.1	3402.1	1129.8	263.7	89.4	56.6	49.9	50.7	37.5	30.7
67.5°	3680.1	3493.0	2953.3	917.9	256.9	89.8	47.9	44.7	39.1	31.9	27.1
70°	3092.9	2906.2	2369.6	755.2	253.7	89.8	40.7	38.3	32.7	26.7	23.5
72.5°	2191.7	1990.7	1598.5	593.2	228.6	89.4	34.7	34.7	26.7	22.3	19.1
75°	1238.3	1239.9	1004.9	419.7	189.9	73.8	27.9	27.5	19.5	17.2	14.4
77.5°	721.7	708.9	677.4	180.3	88.2	33.5	19.5	16.8	13.6	12.4	10.4
80°	371.0	305.2	297.2	65.4	31.5	21.1	13.6	9.6	8.8	8.0	7.2
82.5°	109.7	110.1	98.1	26.3	17.6	14.0	6.8	5.2	4.8	4.4	4.4
85°	7.6	4.8	5.6	8.0	10.8	5.6	0.4	1.2	1.2	1.6	2.0
87.5°	0.8	0.4	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°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1435.7	1453.3	1420.6	1421.4	1394.3	1403.0	1371.1	1381.5	1362.7	1377.1	1419.4
5°	1080.3	1084.3	1058.0	1049.6	1053.6	1069.9	1076.3	1047.2	1059.6	1035.2	1033.6
7.5°	761.2	765.9	750.8	748.8	777.5	770.7	783.1	753.2	724.9	737.2	714.5
10°	591.2	571.3	540.1	531.4	525.8	529.4	529.4	502.3	498.3	487.5	503.8
12.5°	466.7	442.4	412.9	373.0	363.0	362.2	347.5	323.5	316.0	306.8	320.3
15°	339.1	329.1	304.4	282.0	259.3	254.9	231.0	211.4	185.5	181.9	180.7
17.5°	238.6	223.8	223.4	210.6	197.5	188.7	166.4	144.0	134.0	132.8	132.8
20°	178.7	173.5	165.2	163.6	159.6	149.6	129.7	117.7	112.9	113.3	114.9
22.5°	150.4	146.8	139.2	135.6	134.0	125.3	110.5	102.5	100.1	100.1	100.5
25°	134.4	131.2	122.9	117.3	115.3	108.9	97.3	91.4	89.4	89.4	89.4
27.5°	122.5	118.5	109.7	104.9	101.3	94.1	87.0	81.0	79.0	79.0	79.4
30°	114.1	109.7	101.7	95.3	89.8	83.4	77.4	72.2	69.8	69.4	69.8
32.5°	102.9	98.9	91.0	87.0	80.6	73.0	68.2	63.4	61.0	61.4	61.0
35°	80.2	79.0	73.4	74.6	71.0	64.6	60.2	55.1	52.3	51.9	52.7
37.5°	73.0	68.2	61.8	62.2	61.0	58.6	51.5	45.9	43.9	43.9	44.3
40°	67.4	62.6	55.5	51.9	52.3	52.3	44.7	38.7	36.7	36.3	37.1
42.5°	62.6	57.8	49.9	43.9	42.3	44.3	37.9	31.9	29.9	29.1	29.9
45°	59.4	54.3	45.1	38.3	33.5	35.9	31.1	26.3	23.9	23.9	23.5
47.5°	56.2	51.5	41.5	33.1	27.9	26.7	25.5	21.1	18.7	18.4	18.7
50°	53.5	48.7	37.5	28.7	23.5	20.7	20.7	16.8	15.2	14.4	14.8
52.5°	50.7	45.5	33.9	25.5	20.3	16.8	14.8	13.6	12.4	12.0	12.4
55°	46.7	41.5	30.3	21.9	17.6	14.0	11.6	11.2	10.4	9.6	10.4
57.5°	41.9	37.1	26.7	18.7	14.0	10.8	9.6	9.2	8.4	8.0	8.0
59°	39.1	34.7	24.7	16.4	12.4	9.6	8.8	8.4	7.6	6.8	7.2
60°	37.5	33.9	23.5	15.2	11.2	8.8	8.0	7.6	6.8	6.4	6.8
62.5°	33.1	30.3	20.7	12.4	8.8	6.4	5.6	6.0	5.6	5.2	5.6
65°	29.1	26.7	17.6	9.6	6.8	4.4	4.0	5.2	4.8	4.4	4.8
67.5°	25.9	23.1	14.8	7.2	4.8	2.4	2.8	4.4	4.4	4.0	4.4
70°	22.3	19.9	12.0	5.2	2.4	1.2	2.0	3.2	4.0	3.6	4.0
72.5°	18.4	15.6	9.2	3.6	1.2	0.0	1.2	2.8	4.0	3.6	4.0
75°	14.4	11.6	6.8	2.0	0.0	0.0	0.4	2.4	4.0	3.6	4.0
77.5°	10.4	8.4	4.0	0.4	0.0	0.0	0.4	2.4	4.0	3.6	4.0
80°	6.8	6.0	1.6	0.0	0.0	0.0	0.4	2.4	4.0	4.0	4.4
82.5°	4.4	3.2	0.0	0.0	0.0	0.0	0.8	3.2	4.4	4.8	4.8
85°	2.0	0.0	0.0	0.0	0.0	0.0	1.6	4.0	5.2	5.2	5.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.8	4.8	6.0	6.0	6.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1426.6	1451.7	1487.2	1541.9	1586.1	1656.0	1709.4	1782.4	1856.2	1878.6	1913.3
5°	1050.0	1082.3	1162.9	1236.3	1282.6	1430.2	1523.5	1670.7	1802.8	1866.2	1935.2
7.5°	729.2	767.5	829.0	931.5	1028.8	1148.9	1299.7	1468.1	1661.5	1752.1	1849.4
10°	511.8	559.7	646.3	730.4	852.9	967.0	1115.8	1301.7	1515.1	1622.0	1744.1
12.5°	323.1	365.8	480.3	574.9	727.6	860.1	997.3	1165.7	1413.0	1522.7	1650.8
15°	184.7	220.6	274.1	395.3	564.9	740.0	911.2	1106.6	1360.7	1496.0	1634.4
17.5°	137.6	147.2	171.1	239.8	394.1	598.8	831.8	1088.7	1396.2	1555.0	1713.0
20°	115.7	122.1	133.2	160.4	251.3	461.2	754.4	1091.9	1511.1	1710.6	1860.6
22.5°	103.7	107.7	116.9	134.4	171.5	335.9	663.8	1110.6	1650.4	1901.7	2074.8
25°	91.0	96.1	104.1	119.3	142.8	233.0	574.5	1152.5	1845.4	2144.2	2307.0
27.5°	81.0	85.8	93.7	107.7	125.3	177.9	470.3	1188.4	2051.3	2388.4	2521.6
30°	71.0	75.8	83.8	94.9	110.9	144.0	358.2	1209.5	2251.2	2571.5	2674.0
32.5°	62.6	66.6	74.2	84.2	97.3	122.1	282.4	1187.6	2403.9	2737.8	2806.5
35°	54.3	59.0	65.4	74.6	86.2	104.1	235.0	1111.8	2535.2	2909.0	2933.7
37.5°	45.5	51.1	57.8	66.2	75.4	95.7	188.7	1028.0	2675.6	3122.4	3081.7
40°	38.3	43.5	49.9	59.0	67.4	87.8	145.2	938.7	2827.2	3322.7	3243.3
42.5°	31.1	36.7	44.3	52.7	66.6	76.6	112.5	846.1	2963.2	3497.0	3389.3
45°	24.7	29.5	37.5	48.3	66.2	65.8	87.0	754.8	3065.8	3621.5	3498.2
47.5°	19.5	23.5	31.5	47.1	61.0	55.8	69.8	698.1	3173.5	3733.6	3581.6
50°	15.6	19.5	27.1	49.1	53.5	47.9	58.6	707.3	3277.6	3790.6	3615.9
52.5°	13.2	17.2	23.5	38.7	41.1	41.9	51.5	749.6	3412.0	3851.6	3684.1
55°	11.6	15.2	19.9	27.1	31.9	37.5	47.1	780.3	3591.9	3982.5	3834.5
57.5°	9.2	13.2	18.0	23.1	26.3	32.7	43.5	782.7	3754.7	4150.4	4034.4
59°	8.4	12.0	16.8	21.9	23.5	29.5	41.1	762.4	3760.7	4175.6	4126.1
60°	7.6	11.6	16.0	20.3	22.3	27.9	39.1	738.8	3706.4	4135.7	4164.0
62.5°	6.4	10.0	14.0	16.4	19.1	23.1	33.9	653.4	3443.5	3955.0	4093.8
65°	5.6	8.8	12.0	13.6	16.0	19.9	29.9	523.0	3153.1	3710.0	3892.7
67.5°	5.2	8.0	10.4	11.6	14.0	18.4	26.7	369.4	2776.9	3399.3	3590.8
70°	4.8	7.6	9.2	10.8	12.4	15.6	22.7	215.4	2139.1	2854.3	3056.6
72.5°	4.8	7.2	8.0	9.2	10.8	14.0	21.1	116.5	1462.5	2177.3	2438.6
75°	4.8	6.8	7.2	8.0	9.6	12.8	18.7	61.0	945.5	1512.7	1867.0
77.5°	4.8	6.4	7.2	7.6	9.2	11.2	16.4	38.3	629.9	1059.6	1261.8
80°	5.2	6.4	6.8	7.6	8.8	10.4	13.6	25.5	370.2	637.5	767.9
82.5°	5.6	6.4	7.2	8.0	9.2	10.0	12.0	16.0	170.7	421.7	477.1
85°	6.0	6.8	7.6	8.4	9.6	10.0	11.2	11.6	27.9	190.3	257.3
87.5°	6.4	7.2	8.0	8.8	10.4	10.4	10.4	10.4	9.6	20.3	51.9
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°	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5	1734.5
2.5°	1957.1	2002.2	2033.7	2041.7	2019.0	2008.6	1979.9	1935.2	1908.1	1906.9
5°	2062.5	2168.2	2241.6	2253.9	2210.1	2135.9	2047.7	1934.0	1867.4	1847.4
7.5°	2044.5	2229.6	2347.7	2364.8	2291.0	2149.4	1978.7	1795.6	1723.0	1692.3
10°	1970.7	2196.5	2365.2	2392.4	2293.8	2094.4	1877.4	1673.1	1582.9	1559.4
12.5°	1907.7	2135.9	2285.9	2323.4	2248.8	2049.7	1816.7	1594.5	1498.0	1476.0
15°	1880.1	2064.1	2155.8	2175.0	2162.6	2021.8	1810.3	1582.5	1472.0	1448.1
17.5°	1907.7	2003.0	2014.6	2034.1	2061.7	2019.0	1871.8	1647.6	1528.3	1498.8
20°	1979.9	1950.0	1902.1	1910.5	1973.5	2030.5	1981.1	1791.6	1646.4	1614.9
22.5°	2102.7	1936.8	1828.3	1821.1	1900.9	2069.2	2141.4	1986.7	1818.3	1787.2
25°	2253.5	1969.9	1801.2	1785.6	1872.6	2125.9	2315.8	2225.6	2041.7	1994.2
27.5°	2417.9	2038.5	1801.2	1786.0	1870.2	2176.2	2465.0	2437.1	2273.1	2221.2
30°	2508.1	2095.2	1827.1	1809.9	1899.7	2205.3	2544.8	2624.9	2447.0	2382.8
32.5°	2588.6	2173.8	1877.8	1845.4	1961.5	2248.4	2616.2	2784.5	2585.5	2542.4
35°	2662.8	2257.9	1947.6	1910.1	2042.9	2307.4	2695.2	2952.1	2778.1	2713.1
37.5°	2744.6	2355.7	2056.5	2024.6	2178.9	2422.3	2788.9	3172.3	2967.6	2885.8
40°	2833.6	2469.0	2235.6	2222.0	2395.2	2552.3	2907.4	3407.2	3183.8	3090.9
42.5°	2924.1	2599.4	2455.0	2477.3	2640.1	2734.7	3029.1	3588.0	3361.0	3258.4
45°	3006.3	2766.2	2740.2	2850.7	2925.7	2912.6	3119.2	3715.2	3515.4	3417.2
47.5°	3110.0	3009.1	3085.3	3255.7	3257.6	3106.1	3187.4	3819.3	3648.2	3550.1
50°	3226.1	3295.9	3530.9	3704.4	3657.8	3296.3	3267.2	3942.6	3785.4	3706.8
52.5°	3360.6	3617.1	3942.6	4135.3	4026.4	3503.8	3400.1	4075.8	4003.2	3927.8
55°	3516.9	3836.1	4353.1	4506.7	4397.0	3761.5	3601.9	4256.6	4249.4	4197.9
57.5°	3693.7	4067.5	4590.9	4798.7	4701.0	4063.9	3884.0	4426.9	4399.8	4371.1
59°	3833.3	4186.4	4695.8	4911.2	4852.2	4275.7	4073.5	4533.0	4434.5	4391.4
60°	3917.9	4266.9	4734.5	4926.4	4912.8	4401.8	4193.5	4584.9	4434.1	4374.2
62.5°	4168.8	4407.8	4719.7	4858.9	4912.0	4643.5	4545.8	4641.9	4351.9	4264.1
65°	4258.2	4361.1	4475.2	4458.0	4503.5	4631.2	4770.8	4579.3	4176.4	4051.5
67.5°	4084.2	3849.3	3889.5	3775.1	3752.7	4117.3	4679.4	4272.9	3832.9	3680.1
70°	3442.7	2948.9	2928.5	2981.2	2836.8	3333.4	4201.9	3682.9	3266.0	3092.9
72.5°	2709.9	2084.0	1912.5	2106.3	2102.0	2543.2	3490.6	2613.4	2206.5	2191.7
75°	2131.1	1450.9	1273.4	1304.9	1365.5	1841.1	2780.1	1659.5	1358.7	1238.3
77.5°	1430.6	1028.0	959.0	920.3	985.8	1182.0	1758.9	900.0	762.0	721.7
80°	824.6	746.8	848.1	769.9	805.0	744.8	874.8	412.9	342.7	371.0
82.5°	536.6	425.3	453.2	336.7	460.4	464.4	280.8	122.1	103.3	109.7
85°	335.5	199.5	112.1	79.8	158.8	292.0	87.8	7.6	8.8	7.6
87.5°	87.0	33.1	14.0	20.7	25.5	22.7	20.3	1.2	0.4	0.8
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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