

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: P527171

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4040 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

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



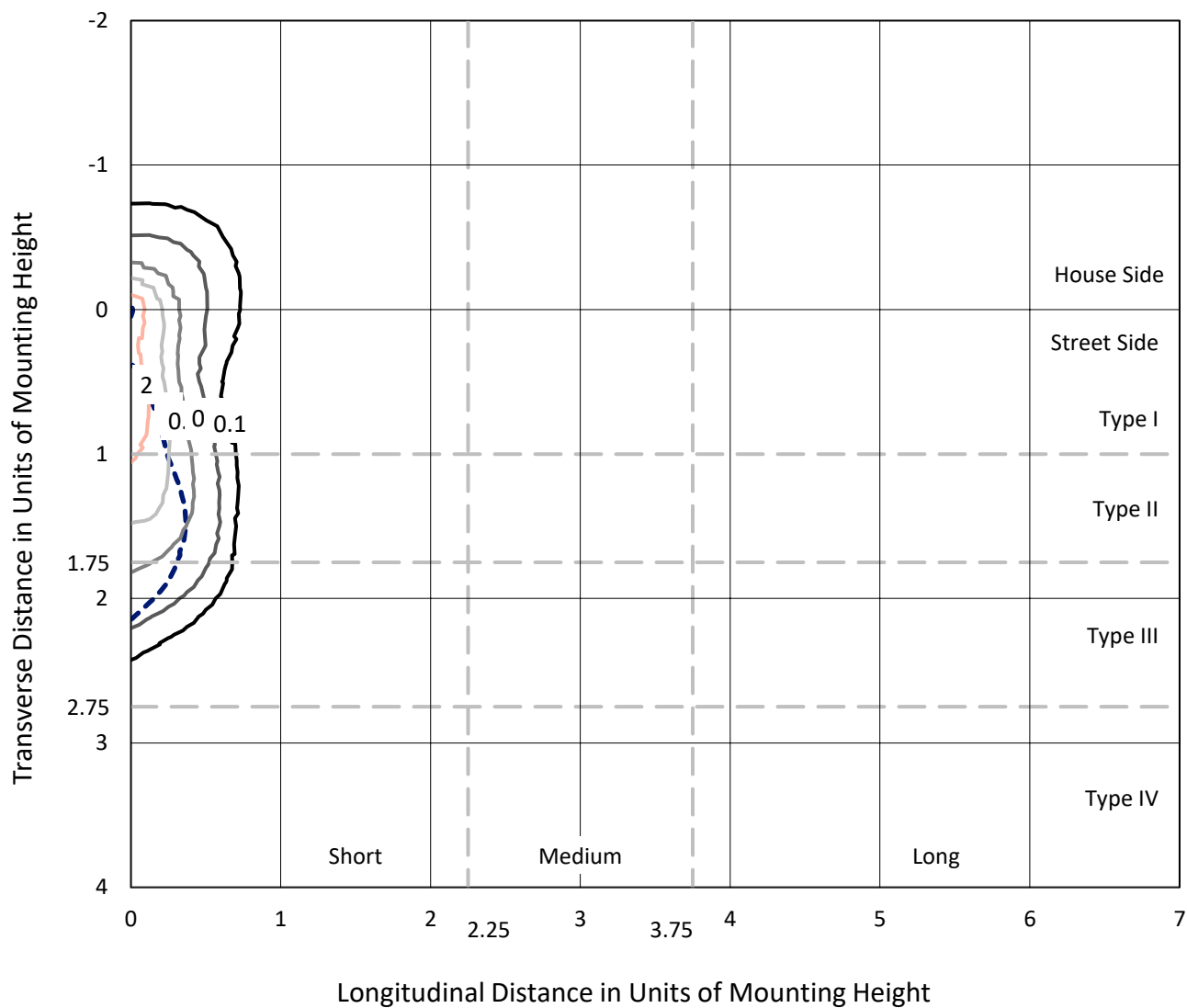
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



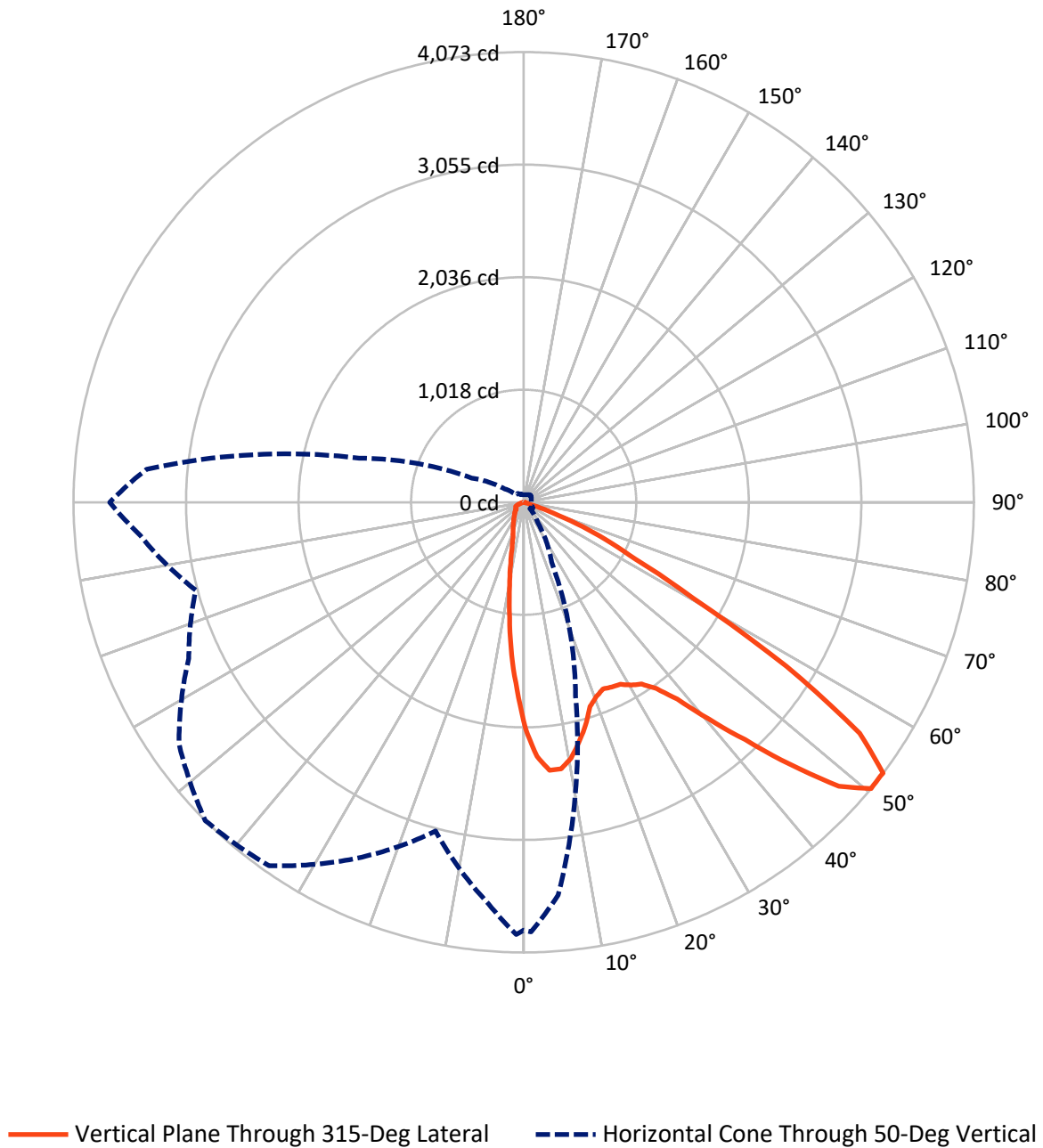
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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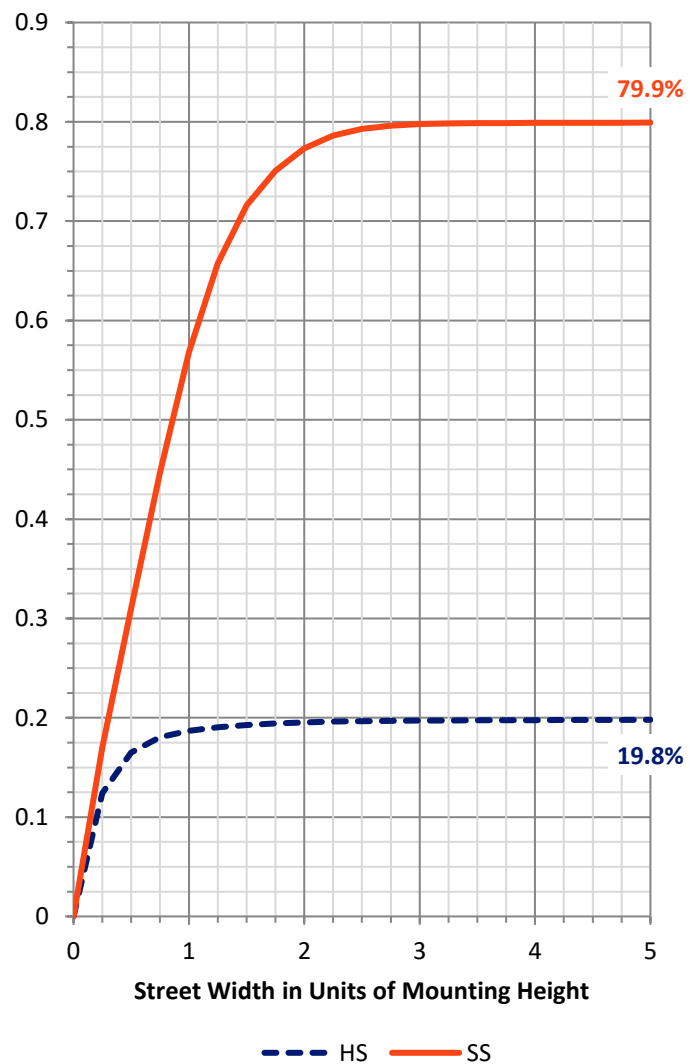
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.2	0.0	809.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3230.8	0.0	3230.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	4040.0	0.0	4040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	3.7
10°-20°	296.8	7.3
20°-30°	445.9	11.0
30°-40°	669.3	16.6
40°-50°	940.6	23.3
50°-60°	1014.6	25.1
60°-70°	471.1	11.7
70°-80°	44.3	1.1
80°-90°	8.2	0.2
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°	4040.0	100.0
0°-180°	4040.0	100.0

Coefficient of Utilization



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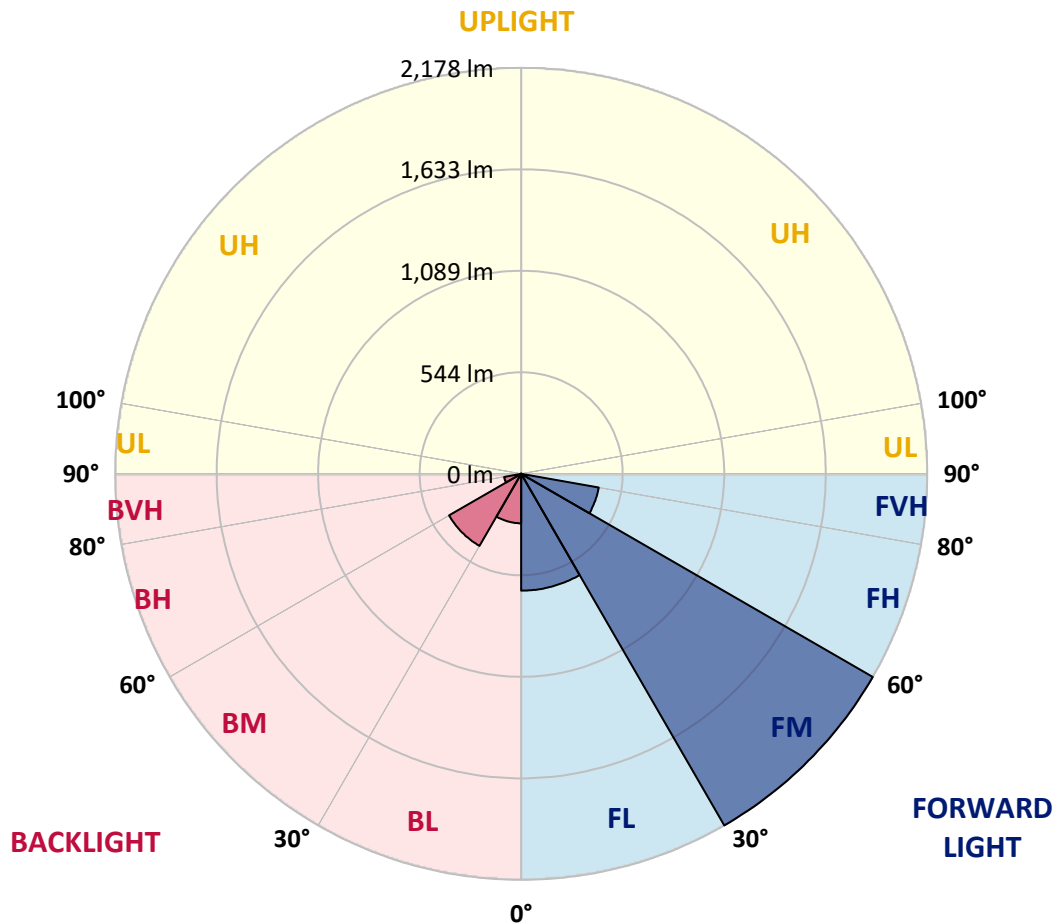
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.8	15.5			
FM	(30°-60°)	2177.9	53.9			
FH	(60°-80°)	422.5	10.5			G0/660
FVH	(80°-90°)	3.7	0.1			G0/10
BL	(0°-30°)	265.2	6.6	B1/500		
BM	(30°-60°)	446.6	11.1	B1/1000		
BH	(60°-80°)	92.9	2.3	B0/110		G0/110
BVH	(80°-90°)	4.5	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-G0

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8
2.5°	2129.7	2096.9	2055.2	2020.7	1969.4	1866.0	1838.0	1804.3	1776.3	1738.6	1685.7
5°	1936.6	1926.2	1906.9	1777.1	1683.3	1558.2	1455.6	1412.4	1355.4	1308.9	1275.3
7.5°	1789.1	1747.4	1686.5	1555.8	1405.9	1272.1	1158.3	1091.7	1016.4	990.7	945.0
10°	1631.2	1640.8	1551.0	1367.5	1186.3	1078.1	1007.6	943.4	875.3	830.4	765.5
12.5°	1580.7	1549.4	1480.5	1253.6	1098.9	997.9	912.2	832.8	760.7	688.5	626.0
15°	1613.5	1565.4	1469.3	1229.6	1031.6	905.8	798.4	690.9	624.4	532.2	467.3
17.5°	1731.4	1692.9	1563.8	1255.2	997.1	817.6	658.1	547.5	445.7	362.3	329.4
20°	1927.8	1873.2	1711.3	1288.1	945.8	711.0	533.8	397.6	301.4	266.1	247.7
22.5°	2120.1	2090.5	1886.1	1351.4	900.2	616.4	400.8	267.7	225.2	218.8	206.8
25°	2486.4	2397.5	2153.0	1466.1	864.9	527.4	302.2	215.6	190.8	186.0	187.6
27.5°	2704.5	2629.9	2399.9	1542.2	825.6	459.3	255.7	198.0	181.2	170.7	166.7
30°	2913.7	2827.1	2522.5	1587.1	741.4	387.2	226.8	190.0	186.0	170.7	165.9
32.5°	3074.8	2989.8	2699.7	1654.4	707.0	340.7	186.8	148.3	137.9	136.3	150.7
35°	3321.7	3231.1	2851.2	1691.3	680.5	316.6	161.9	132.3	120.2	115.4	116.2
37.5°	3551.7	3490.0	2991.4	1705.7	652.5	309.4	145.1	118.6	108.2	105.0	104.2
40°	3744.1	3606.2	3124.5	1721.0	640.4	295.8	134.7	108.2	101.0	96.2	96.2
42.5°	3832.3	3692.0	3273.6	1712.1	637.2	274.1	134.7	99.4	93.8	89.0	88.2
45°	3813.0	3756.1	3340.1	1708.1	637.2	252.5	122.6	97.0	89.0	82.6	81.0
47.5°	3862.7	3788.2	3423.5	1725.0	624.4	237.3	103.4	101.8	84.2	76.1	74.5
50°	3871.5	3886.0	3568.5	1812.3	596.4	218.0	81.0	100.2	81.0	68.9	67.3
52°	3929.3	3839.5	3612.6	1858.8	566.7	203.6	68.1	85.8	77.8	64.1	62.5
52.5°	3849.9	3908.4	3623.1	1875.7	569.9	194.0	65.7	84.2	76.1	64.1	60.1
55°	3760.9	3817.0	3580.6	1911.7	522.6	152.3	51.3	60.9	68.9	56.1	53.7
57.5°	3268.8	3325.7	3111.7	1750.6	425.6	107.4	42.5	45.7	60.9	52.1	49.7
60°	2905.7	2864.8	2611.5	1460.4	302.2	60.1	33.7	35.3	66.5	48.1	47.3
62.5°	2655.6	2568.2	2182.6	1127.8	184.4	40.1	26.5	27.3	51.3	44.9	44.9
65°	1964.6	1866.8	1450.0	682.1	90.6	28.1	20.0	21.6	32.1	38.5	38.5
67.5°	1121.4	1083.7	700.6	307.8	37.7	17.6	15.2	16.8	24.8	31.3	29.7
70°	515.4	462.5	269.3	64.9	17.6	12.0	12.0	13.6	20.0	23.2	21.6
72.5°	150.7	142.7	65.7	10.4	7.2	7.2	8.0	10.4	15.2	17.6	16.0
75°	11.2	7.2	4.8	3.2	3.2	4.8	6.4	10.4	15.2	16.8	13.6
77.5°	0.8	1.6	0.8	0.8	2.4	4.8	7.2	12.8	20.0	20.8	15.2
80°	0.8	0.8	0.0	0.8	2.4	4.8	8.0	14.4	22.4	24.0	12.8
82.5°	0.0	0.0	0.0	0.8	3.2	6.4	9.6	15.2	20.8	25.6	13.6
85°	0.0	0.0	0.0	0.8	4.8	8.8	11.2	4.0	2.4	0.0	0.0
87.5°	0.0	0.0	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°	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8
2.5°	1723.4	1702.5	1694.5	1701.7	1699.3	1696.9	1741.0	1731.4	1729.8	1744.2	1741.0
5°	1293.7	1256.8	1357.8	1317.0	1359.4	1385.1	1389.9	1392.3	1422.0	1390.7	1431.6
7.5°	921.8	931.4	930.6	957.9	1006.8	1050.0	1075.7	1055.7	1054.1	1050.0	1032.4
10°	736.6	719.8	716.6	710.2	725.4	762.3	793.5	768.7	751.1	775.1	767.9
12.5°	602.0	578.7	565.9	540.3	541.1	565.9	565.9	565.9	583.5	597.2	607.6
15°	461.7	442.5	442.5	416.8	411.2	412.0	424.8	426.4	454.5	462.5	466.5
17.5°	323.0	312.6	324.6	335.1	328.6	330.2	335.1	336.7	340.7	337.5	345.5
20°	248.5	246.9	250.1	268.5	282.1	290.2	284.6	276.5	271.7	260.5	260.5
22.5°	210.8	214.0	219.6	234.9	252.5	257.3	250.9	232.5	218.0	216.4	217.2
25°	187.6	190.8	199.6	209.2	218.8	226.8	220.4	206.8	198.8	191.6	191.6
27.5°	173.1	174.7	179.5	186.8	194.8	201.2	198.8	191.6	182.8	179.5	172.3
30°	161.9	164.3	169.9	171.5	178.7	182.0	177.9	176.3	170.7	166.7	164.3
32.5°	156.3	155.5	159.5	161.1	161.9	164.3	159.5	161.9	161.1	154.7	152.3
35°	117.8	124.2	134.7	143.5	145.9	149.1	148.3	145.1	136.3	129.1	120.2
37.5°	105.8	109.8	115.4	122.6	132.3	136.3	134.7	126.6	116.2	111.4	109.8
40°	97.8	100.2	105.0	109.8	119.4	126.6	121.0	113.8	105.8	101.8	99.4
42.5°	90.6	91.4	93.8	98.6	105.8	117.0	107.4	97.8	94.6	92.2	90.6
45°	82.6	82.6	85.8	88.2	96.2	106.6	97.0	88.2	86.6	85.0	84.2
47.5°	76.1	76.9	78.6	81.8	88.2	95.4	89.0	81.8	77.8	76.9	75.3
50°	68.1	68.9	72.1	75.3	83.4	87.4	83.4	75.3	71.3	68.9	68.9
52°	61.7	64.1	67.3	73.7	79.4	85.8	81.0	72.1	67.3	64.9	63.3
52.5°	60.9	62.5	65.7	72.9	79.4	85.0	80.2	71.3	65.7	64.1	62.5
55°	54.5	56.9	62.5	71.3	78.6	85.0	78.6	70.5	62.5	58.5	56.9
57.5°	52.1	53.7	60.9	72.1	77.8	85.0	78.6	70.5	62.5	55.3	53.7
60°	49.7	52.9	60.9	69.7	76.9	85.8	79.4	69.7	60.9	52.1	52.1
62.5°	47.3	49.7	60.1	68.1	73.7	82.6	76.1	68.1	58.5	49.7	48.9
65°	40.9	44.9	52.9	56.9	63.3	71.3	64.9	59.3	51.3	44.1	43.3
67.5°	31.3	32.9	39.3	44.1	48.1	55.3	52.1	44.9	39.3	33.7	33.7
70°	21.6	23.2	28.1	30.5	34.5	38.5	36.1	30.5	26.5	23.2	22.4
72.5°	15.2	16.0	17.6	19.2	20.8	22.4	21.6	17.6	15.2	14.4	13.6
75°	12.0	13.6	14.4	13.6	12.8	12.0	12.0	10.4	8.8	8.0	8.0
77.5°	12.0	12.8	12.0	10.4	8.8	8.0	7.2	6.4	4.8	4.0	4.8
80°	10.4	10.4	10.4	8.8	8.0	7.2	6.4	5.6	4.8	4.0	4.0
82.5°	11.2	11.2	10.4	8.8	8.8	7.2	7.2	6.4	5.6	4.0	4.0
85°	0.0	0.0	0.0	1.6	4.0	7.2	7.2	6.4	5.6	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	3.2	4.0	4.8	4.8	4.8
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°	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8
2.5°	1769.8	1800.3	1858.0	1915.7	1951.0	1992.7	2068.0	2108.1	2160.2	2185.9	2236.4
5°	1426.0	1498.1	1523.8	1589.5	1660.0	1730.6	1842.8	1966.2	2068.8	2139.4	2230.7
7.5°	1040.4	1057.3	1156.7	1200.7	1316.2	1444.4	1597.5	1753.0	1882.9	1998.3	2068.0
10°	779.9	841.6	904.2	988.3	1081.3	1213.6	1360.2	1531.8	1700.1	1815.5	1903.7
12.5°	626.8	675.7	759.1	849.7	964.3	1051.6	1199.1	1369.1	1587.1	1700.1	1816.3
15°	474.5	537.0	631.6	725.4	846.4	938.6	1087.7	1301.7	1582.3	1737.8	1838.0
17.5°	351.9	394.4	479.3	584.3	707.8	837.6	1038.8	1294.5	1636.0	1821.1	1924.5
20°	269.3	283.8	337.5	431.2	565.1	735.0	959.5	1325.8	1794.7	2023.9	2128.9
22.5°	218.0	224.4	245.3	310.2	440.1	645.3	921.8	1347.4	1973.4	2266.8	2407.1
25°	190.0	188.4	202.0	230.0	343.9	561.1	873.7	1429.2	2192.3	2552.2	2678.0
27.5°	173.1	173.1	179.5	199.6	285.4	506.6	843.2	1487.7	2412.7	2803.1	2871.2
30°	164.3	165.9	184.4	190.8	237.3	441.7	792.7	1547.0	2623.5	2963.4	3057.2
32.5°	152.3	145.9	141.9	157.9	199.6	383.1	742.2	1571.9	2794.2	3159.8	3239.9
35°	117.0	113.8	118.6	130.7	171.5	333.4	686.1	1599.9	2990.6	3387.4	3403.4
37.5°	105.8	105.0	108.2	118.6	144.3	290.2	646.1	1592.7	3140.5	3575.8	3532.5
40°	97.8	97.8	100.2	109.0	129.1	259.7	604.4	1586.3	3285.6	3787.4	3660.7
42.5°	91.4	91.4	95.4	101.0	122.6	239.7	573.1	1577.5	3407.4	3917.2	3736.1
45°	82.6	85.0	91.4	97.0	124.2	226.0	549.9	1543.8	3449.1	3915.6	3700.0
47.5°	76.1	79.4	85.8	93.8	112.2	222.0	533.8	1514.1	3434.7	3819.4	3587.0
50°	68.9	72.9	81.8	95.4	95.4	214.0	517.0	1540.6	3424.3	3744.9	3478.8
52°	64.1	67.3	78.6	93.0	83.4	197.2	506.6	1591.9	3466.8	3735.3	3430.7
52.5°	63.3	65.7	76.1	91.4	79.4	194.0	499.4	1603.9	3480.4	3711.2	3463.5
55°	56.1	59.3	69.7	71.3	64.9	159.5	476.1	1631.2	3413.0	3663.9	3432.3
57.5°	52.9	54.5	61.7	58.5	56.1	120.2	409.6	1588.7	3031.5	3254.3	3193.4
60°	48.9	50.5	57.7	45.7	47.3	84.2	307.8	1379.5	2434.3	2711.7	2821.5
62.5°	47.3	46.5	54.5	36.9	40.1	60.9	217.2	1121.4	1875.7	2232.3	2422.3
65°	41.7	40.9	39.3	31.3	34.5	47.3	129.9	731.8	1321.8	1688.9	1793.1
67.5°	32.1	33.7	28.9	24.8	28.9	36.9	72.1	327.8	693.4	1013.2	1097.3
70°	22.4	24.0	23.2	21.6	25.6	30.5	41.7	112.2	287.0	532.2	586.7
72.5°	13.6	16.8	17.6	18.4	22.4	26.5	29.7	36.1	76.1	188.4	234.1
75°	8.0	11.2	13.6	16.0	18.4	22.4	24.8	25.6	26.5	35.3	56.9
77.5°	5.6	8.0	12.0	15.2	18.4	22.4	26.5	28.1	26.5	24.8	26.5
80°	4.8	8.0	11.2	14.4	19.2	23.2	26.5	26.5	25.6	22.4	24.0
82.5°	4.8	8.0	12.0	15.2	18.4	22.4	25.6	26.5	24.0	22.4	23.2
85°	5.6	8.8	12.8	16.0	20.0	18.4	16.8	13.6	12.8	10.4	11.2
87.5°	5.6	8.0	8.0	8.8	9.6	9.6	9.6	8.8	7.2	6.4	6.4
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°	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8	2048.8
2.5°	2238.8	2302.9	2300.5	2302.1	2292.5	2227.5	2196.3	2116.9	2139.4	2129.7
5°	2324.5	2387.8	2442.4	2435.9	2362.2	2274.0	2143.4	2019.9	1986.3	1936.6
7.5°	2238.8	2391.1	2441.6	2434.3	2325.3	2212.3	2003.9	1880.5	1821.9	1789.1
10°	2102.5	2278.8	2341.4	2354.2	2280.4	2108.9	1917.3	1719.3	1688.1	1631.2
12.5°	2024.7	2153.0	2191.5	2225.9	2200.3	2072.0	1851.6	1661.6	1618.4	1580.7
15°	1961.4	2037.6	2053.6	2092.9	2108.1	2039.2	1886.1	1724.2	1617.5	1613.5
17.5°	2019.9	1988.7	1930.2	1942.2	1990.3	2040.0	1975.0	1847.6	1744.2	1731.4
20°	2116.9	1979.1	1846.8	1876.5	1916.5	2068.8	2109.7	2019.9	1960.6	1927.8
22.5°	2228.3	1995.9	1820.3	1834.8	1910.9	2133.8	2327.7	2278.0	2167.4	2120.1
25°	2434.3	2042.4	1841.2	1850.8	1955.0	2224.3	2524.9	2561.8	2496.1	2486.4
27.5°	2635.5	2162.6	1886.9	1865.2	1977.5	2312.5	2644.3	2842.3	2726.9	2704.5
30°	2738.1	2260.4	1955.0	1918.1	2070.4	2366.2	2716.5	3025.1	2924.1	2913.7
32.5°	2895.2	2349.4	2007.9	1960.6	2122.5	2432.7	2851.2	3224.7	3126.9	3074.8
35°	2961.0	2446.4	2124.1	2068.8	2271.6	2525.7	2920.1	3402.6	3372.2	3321.7
37.5°	3087.6	2550.6	2261.2	2258.0	2452.0	2646.8	3044.3	3644.7	3639.1	3551.7
40°	3098.0	2664.4	2477.6	2578.6	2730.9	2857.6	3153.3	3712.0	3803.4	3744.1
42.5°	3114.1	2864.0	2852.0	2935.3	3066.0	3038.7	3157.3	3728.1	3867.5	3832.3
45°	3121.3	3063.6	3232.7	3386.6	3441.1	3276.0	3119.7	3697.6	3901.2	3813.0
47.5°	3063.6	3235.1	3540.5	3837.9	3853.9	3421.9	3103.6	3666.3	3921.2	3862.7
50°	3071.6	3342.5	3806.6	4072.7	4014.2	3550.9	3078.8	3647.1	3910.8	3871.5
52°	3052.3	3344.9	3844.3	4067.9	4027.0	3479.6	3036.3	3573.4	3901.2	3929.3
52.5°	3074.0	3330.5	3805.0	4071.1	4018.2	3514.8	3030.7	3614.2	3906.8	3849.9
55°	2999.4	3159.0	3575.0	3688.0	3680.0	3190.2	2858.4	3478.8	3760.1	3760.9
57.5°	2710.9	2738.1	2803.9	2801.5	2764.6	2508.1	2444.8	3199.0	3352.1	3268.8
60°	2388.7	2004.7	1827.6	1755.4	1714.5	1672.9	2162.6	2926.5	2940.9	2905.7
62.5°	2064.0	1389.9	1154.2	1134.2	1143.8	1296.1	2090.5	2818.3	2731.7	2655.6
65°	1665.6	1013.2	838.4	812.0	905.8	1070.1	1692.1	2161.0	2027.9	1964.6
67.5°	1046.0	739.0	566.7	517.0	630.0	736.6	1111.8	1357.8	1208.8	1121.4
70°	620.4	412.8	256.5	230.0	258.9	392.8	622.8	677.3	560.3	515.4
72.5°	244.5	151.5	71.3	60.9	63.3	137.9	229.2	223.6	169.1	150.7
75°	65.7	45.7	24.8	20.0	16.8	25.6	36.9	24.0	8.8	11.2
77.5°	30.5	27.3	21.6	16.8	12.8	9.6	4.8	1.6	1.6	0.8
80°	26.5	23.2	20.0	16.8	12.8	8.0	4.0	0.8	0.8	0.8
82.5°	24.8	21.6	18.4	15.2	12.0	8.0	4.0	0.8	0.0	0.0
85°	10.4	13.6	15.2	14.4	12.8	8.0	4.0	0.8	0.0	0.0
87.5°	5.6	4.8	4.0	3.2	2.4	1.6	1.6	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

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