

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: P647778

Luminaire Tested: **GALN-SA2A-835-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647778
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-835-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 3980.8 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

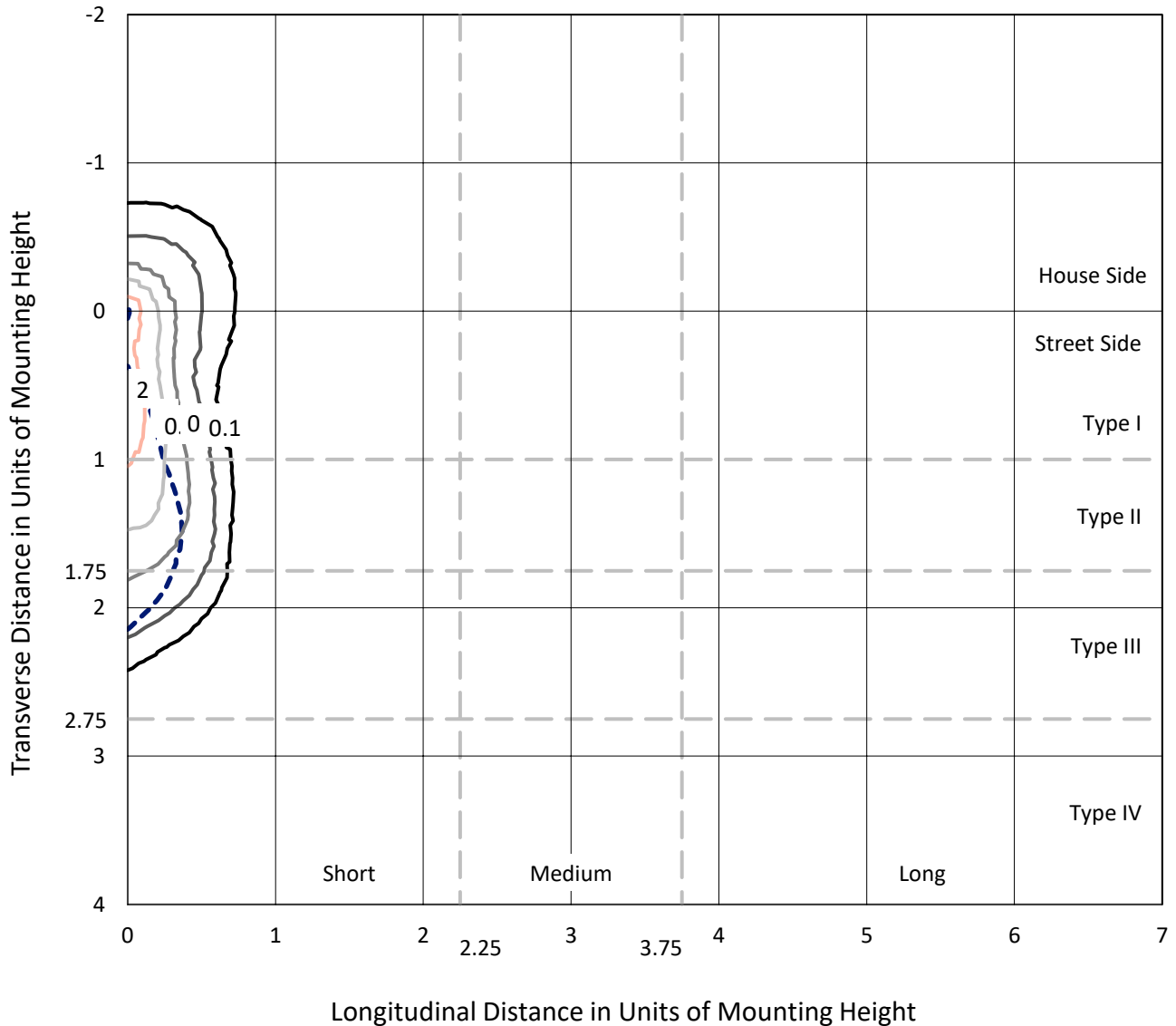
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

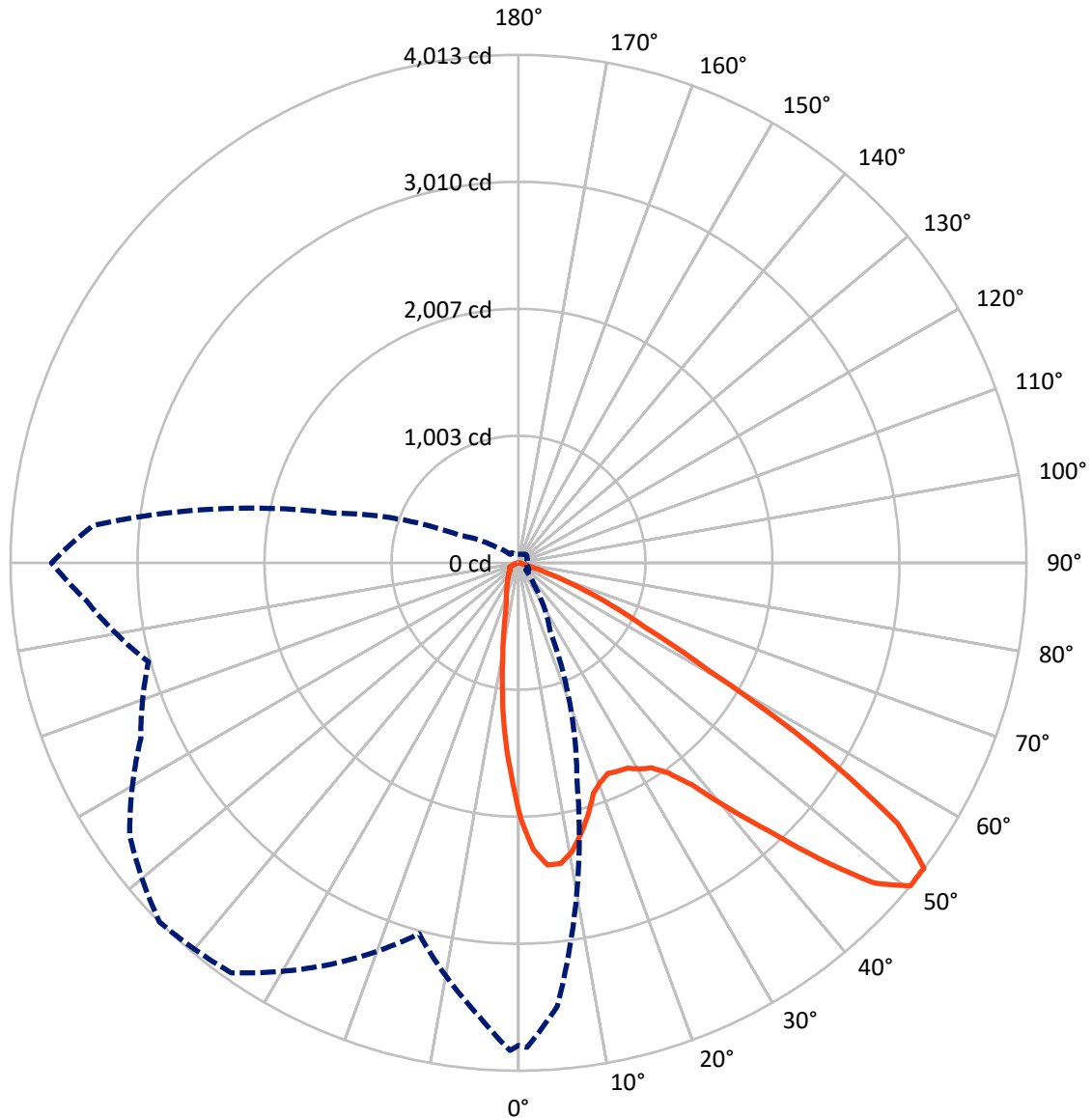
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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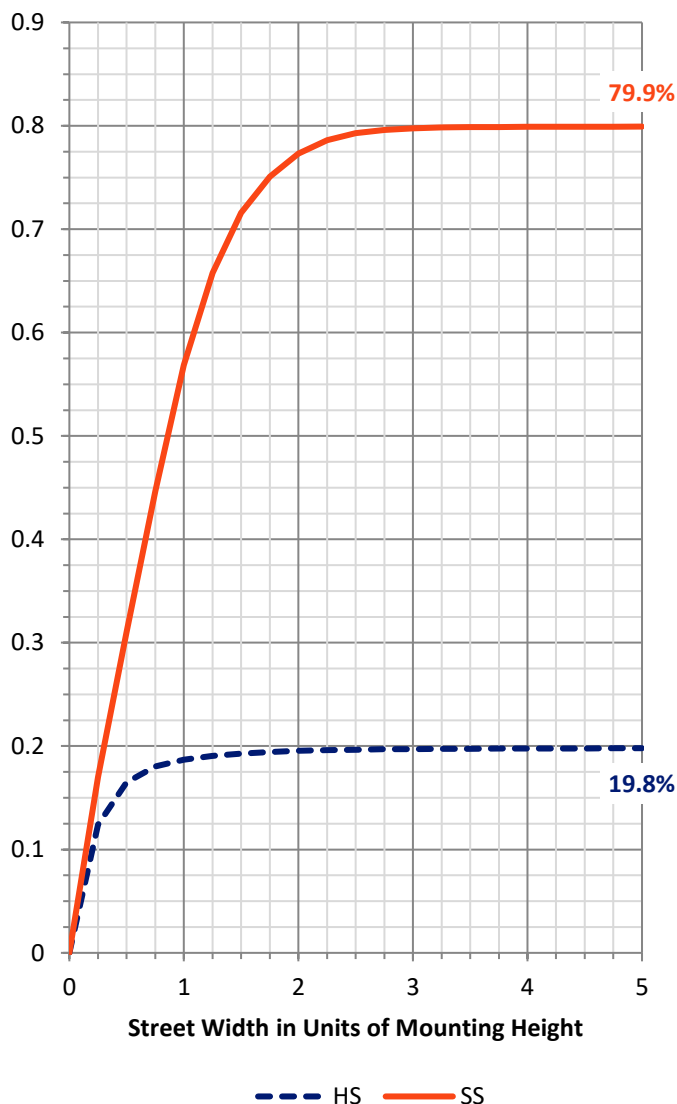
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	797.4	0.0	797.4
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	3183.4	0.0	3183.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	3980.8	0.0	3980.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.7
10°-20°	292.4	7.3
20°-30°	439.3	11.0
30°-40°	659.4	16.6
40°-50°	926.8	23.3
50°-60°	999.7	25.1
60°-70°	464.2	11.7
70°-80°	43.7	1.1
80°-90°	8.1	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°	3980.8	100.0
0°-180°	3980.8	100.0

Coefficient of Utilization

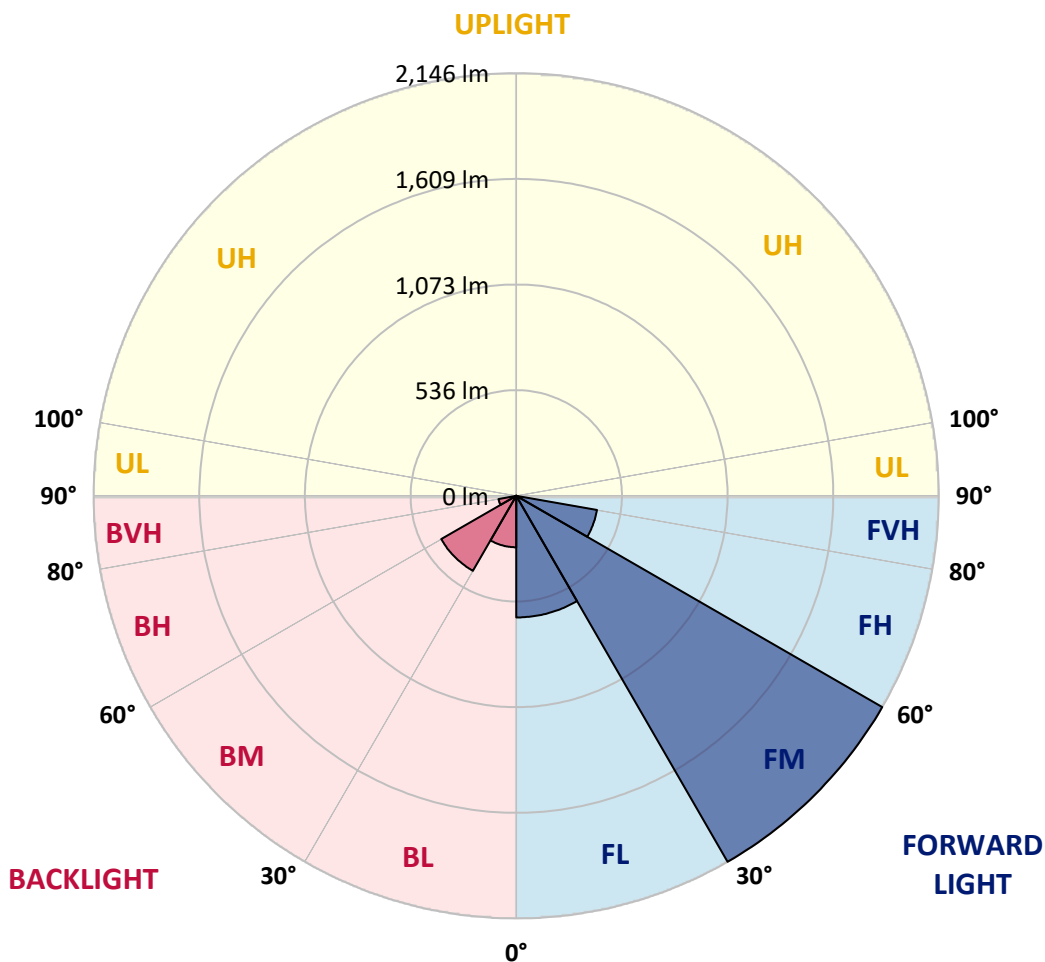


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.6	15.5			
FM (30°-60°)	2145.9	53.9			
FH (60°-80°)	416.3	10.5			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	261.4	6.6	B1/500		
BM (30°-60°)	440.0	11.1	B1/1000		
BH (60°-80°)	91.6	2.3	B0/110		G0/110
BVH (80°-90°)	4.4	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°	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7
2.5°	2098.5	2066.2	2025.1	1991.1	1940.6	1838.6	1811.0	1777.9	1750.2	1713.1	1661.0
5°	1908.2	1897.9	1879.0	1751.0	1658.6	1535.4	1434.3	1391.6	1335.6	1289.8	1256.6
7.5°	1762.8	1721.8	1661.8	1533.0	1385.4	1253.4	1141.3	1075.7	1001.5	976.2	931.2
10°	1607.3	1616.7	1528.3	1347.4	1168.9	1062.3	992.8	929.6	862.5	818.2	754.3
12.5°	1557.5	1526.7	1458.8	1235.3	1082.8	983.3	898.8	820.6	749.6	678.5	616.8
15°	1589.9	1542.5	1447.7	1211.5	1016.5	892.5	786.7	680.8	615.3	524.5	460.5
17.5°	1706.0	1668.1	1540.9	1236.8	982.5	805.6	648.4	539.4	439.1	357.0	324.6
20°	1899.5	1845.8	1686.3	1269.2	932.0	700.6	526.0	391.7	297.0	262.2	244.1
22.5°	2089.0	2059.8	1858.5	1331.6	887.0	607.4	394.9	263.8	221.9	215.6	203.7
25°	2450.0	2362.3	2121.5	1444.6	852.2	519.7	297.8	212.4	188.0	183.2	184.8
27.5°	2664.8	2591.3	2364.7	1519.6	813.5	452.6	252.0	195.0	178.5	168.3	164.3
30°	2870.9	2785.7	2485.6	1563.8	730.5	381.5	223.5	187.2	183.2	168.3	163.5
32.5°	3029.7	2946.0	2660.1	1630.2	696.6	335.7	184.0	146.1	135.9	134.3	148.5
35°	3272.9	3183.8	2809.3	1666.5	670.6	311.9	159.6	130.3	118.5	113.8	114.6
37.5°	3499.6	3438.9	2947.6	1680.7	642.9	304.9	143.0	116.9	106.6	103.4	102.7
40°	3689.2	3553.3	3078.7	1695.7	631.0	291.4	132.7	106.6	99.5	94.7	94.7
42.5°	3776.1	3637.9	3225.6	1687.1	627.9	270.1	132.7	98.0	92.4	87.7	86.9
45°	3757.1	3701.1	3291.1	1683.1	627.9	248.8	120.8	95.6	87.7	81.4	79.8
47.5°	3806.1	3732.6	3373.2	1699.7	615.3	233.8	101.9	100.3	82.9	75.0	73.4
50°	3814.8	3829.0	3516.2	1785.8	587.6	214.9	79.8	98.7	79.8	67.9	66.3
52°	3871.6	3783.2	3559.7	1831.6	558.4	200.6	67.1	84.5	76.6	63.2	61.6
52.5°	3793.5	3851.1	3569.9	1848.2	561.6	191.1	64.8	82.9	75.0	63.2	59.3
55°	3705.8	3761.1	3528.0	1883.7	515.0	150.1	50.6	60.1	67.9	55.3	52.9
57.5°	3220.9	3276.9	3066.1	1724.9	419.4	105.9	41.9	45.0	60.1	51.4	48.9
60°	2863.0	2822.8	2573.2	1439.0	297.8	59.3	33.2	34.8	65.5	47.4	46.6
62.5°	2616.6	2530.6	2150.7	1111.2	181.7	39.5	26.1	26.9	50.6	44.2	44.2
65°	1935.8	1839.5	1428.7	672.1	89.3	27.6	19.7	21.3	31.6	37.9	37.9
67.5°	1105.0	1067.9	690.3	303.3	37.1	17.4	15.0	16.6	24.5	30.8	29.2
70°	507.9	455.7	265.4	64.0	17.4	11.8	11.8	13.4	19.7	22.9	21.3
72.5°	148.5	140.5	64.8	10.3	7.1	7.1	7.9	10.3	15.0	17.4	15.8
75°	11.0	7.1	4.8	3.1	3.1	4.8	6.3	10.3	15.0	16.6	13.4
77.5°	0.8	1.6	0.8	0.8	2.3	4.8	7.1	12.6	19.7	20.5	15.0
80°	0.8	0.8	0.0	0.8	2.3	4.8	7.9	14.3	22.1	23.7	12.6
82.5°	0.0	0.0	0.0	0.8	3.1	6.3	9.5	15.0	20.5	25.3	13.4
85°	0.0	0.0	0.0	0.8	4.8	8.7	11.0	3.9	2.3	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°	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7
2.5°	1698.1	1677.6	1669.7	1676.8	1674.4	1672.0	1715.5	1706.0	1704.4	1718.6	1715.5
5°	1274.7	1238.4	1337.9	1297.7	1339.5	1364.8	1369.5	1371.9	1401.1	1370.3	1410.6
7.5°	908.3	917.8	917.0	943.8	992.0	1034.7	1059.9	1040.2	1038.6	1034.7	1017.3
10°	725.8	709.2	706.1	699.8	714.8	751.1	781.9	757.4	740.0	763.7	756.6
12.5°	593.1	570.3	557.6	532.4	533.1	557.6	557.6	557.6	575.0	588.4	598.7
15°	454.9	436.0	436.0	410.7	405.2	406.0	418.6	420.2	447.8	455.7	459.7
17.5°	318.3	308.0	319.9	330.1	323.8	325.4	330.1	331.8	335.7	332.5	340.4
20°	244.8	243.3	246.4	264.6	278.0	285.9	280.4	272.5	267.7	256.7	256.7
22.5°	207.7	210.9	216.4	231.4	248.8	253.5	247.2	229.0	214.9	213.2	214.1
25°	184.8	188.0	196.7	206.2	215.6	223.5	217.2	203.7	195.9	188.8	188.8
27.5°	170.6	172.2	176.9	184.0	191.9	198.3	195.9	188.8	180.1	176.9	169.8
30°	159.6	161.9	167.4	169.0	176.1	179.3	175.3	173.7	168.3	164.3	161.9
32.5°	154.0	153.2	157.1	158.7	159.6	161.9	157.1	159.6	158.7	152.5	150.1
35°	116.1	122.4	132.7	141.4	143.8	146.9	146.1	143.0	134.3	127.2	118.5
37.5°	104.2	108.2	113.8	120.8	130.3	134.3	132.7	124.8	114.6	109.8	108.2
40°	96.4	98.7	103.4	108.2	117.7	124.8	119.3	112.1	104.2	100.3	98.0
42.5°	89.3	90.0	92.4	97.2	104.2	115.3	105.9	96.4	93.2	90.8	89.3
45°	81.4	81.4	84.5	86.9	94.7	105.1	95.6	86.9	85.3	83.7	82.9
47.5°	75.0	75.8	77.4	80.6	86.9	94.0	87.7	80.6	76.6	75.8	74.2
50°	67.1	67.9	71.1	74.2	82.1	86.1	82.1	74.2	70.3	67.9	67.9
52°	60.8	63.2	66.3	72.7	78.2	84.5	79.8	71.1	66.3	64.0	62.4
52.5°	60.1	61.6	64.8	71.9	78.2	83.7	79.0	70.3	64.8	63.2	61.6
55°	53.7	56.1	61.6	70.3	77.4	83.7	77.4	69.5	61.6	57.6	56.1
57.5°	51.4	52.9	60.1	71.1	76.6	83.7	77.4	69.5	61.6	54.5	52.9
60°	48.9	52.1	60.1	68.7	75.8	84.5	78.2	68.7	60.1	51.4	51.4
62.5°	46.6	48.9	59.3	67.1	72.7	81.4	75.0	67.1	57.6	48.9	48.2
65°	40.2	44.2	52.1	56.1	62.4	70.3	64.0	58.4	50.6	43.5	42.7
67.5°	30.8	32.4	38.7	43.5	47.4	54.5	51.4	44.2	38.7	33.2	33.2
70°	21.3	22.9	27.6	30.0	34.0	37.9	35.5	30.0	26.1	22.9	22.1
72.5°	15.0	15.8	17.4	18.9	20.5	22.1	21.3	17.4	15.0	14.3	13.4
75°	11.8	13.4	14.3	13.4	12.6	11.8	11.8	10.3	8.7	7.9	7.9
77.5°	11.8	12.6	11.8	10.3	8.7	7.9	7.1	6.3	4.8	3.9	4.8
80°	10.3	10.3	10.3	8.7	7.9	7.1	6.3	5.6	4.8	3.9	3.9
82.5°	11.0	11.0	10.3	8.7	8.7	7.1	7.1	6.3	5.6	3.9	3.9
85°	0.0	0.0	0.0	1.6	3.9	7.1	7.1	6.3	5.6	4.8	4.8
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	3.1	3.9	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°	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7
2.5°	1743.9	1773.9	1830.8	1887.7	1922.4	1963.5	2037.7	2077.2	2128.5	2153.8	2203.6
5°	1405.1	1476.2	1501.4	1566.2	1635.7	1705.2	1815.8	1937.4	2038.5	2108.0	2198.0
7.5°	1025.2	1041.8	1139.7	1183.1	1296.9	1423.3	1574.1	1727.3	1855.2	1969.0	2037.7
10°	768.5	829.3	890.9	973.8	1065.4	1195.8	1340.3	1509.3	1675.2	1788.9	1875.8
12.5°	617.6	665.8	747.9	837.2	950.2	1036.2	1181.5	1349.0	1563.8	1675.2	1789.7
15°	467.5	529.2	622.4	714.8	834.1	924.9	1071.8	1282.6	1559.1	1712.3	1811.0
17.5°	346.7	388.6	472.3	575.7	697.4	825.4	1023.6	1275.5	1612.0	1794.5	1896.3
20°	265.4	279.6	332.5	424.9	556.8	724.3	945.4	1306.4	1768.4	1994.3	2097.7
22.5°	214.9	221.1	241.7	305.7	433.6	635.8	908.3	1327.7	1944.5	2233.6	2371.8
25°	187.2	185.6	199.0	226.7	338.8	552.9	860.9	1408.2	2160.1	2514.8	2638.8
27.5°	170.6	170.6	176.9	196.7	281.2	499.2	830.8	1465.9	2377.3	2762.0	2829.1
30°	161.9	163.5	181.7	188.0	233.8	435.2	781.1	1524.3	2585.1	2920.0	3012.4
32.5°	150.1	143.8	139.8	155.6	196.7	377.6	731.4	1548.9	2753.3	3113.4	3192.4
35°	115.3	112.1	116.9	128.7	169.0	328.5	676.0	1576.5	2946.7	3337.8	3353.5
37.5°	104.2	103.4	106.6	116.9	142.2	285.9	636.6	1569.4	3094.5	3523.3	3480.7
40°	96.4	96.4	98.7	107.4	127.2	255.9	595.5	1563.0	3237.4	3731.9	3607.0
42.5°	90.0	90.0	94.0	99.5	120.8	236.2	564.7	1554.3	3357.5	3859.8	3681.3
45°	81.4	83.7	90.0	95.6	122.4	222.8	541.8	1521.1	3398.5	3858.2	3645.7
47.5°	75.0	78.2	84.5	92.4	110.6	218.8	526.0	1491.9	3384.4	3763.4	3534.4
50°	67.9	71.9	80.6	94.0	94.0	210.9	509.4	1518.0	3374.1	3690.0	3427.7
52°	63.2	66.3	77.4	91.6	82.1	194.3	499.2	1568.6	3415.9	3680.5	3380.4
52.5°	62.4	64.8	75.0	90.0	78.2	191.1	492.0	1580.4	3429.4	3656.8	3412.8
55°	55.3	58.4	68.7	70.3	64.0	157.1	469.2	1607.3	3363.0	3610.3	3381.9
57.5°	52.1	53.7	60.8	57.6	55.3	118.5	403.6	1565.4	2987.1	3206.6	3146.6
60°	48.2	49.7	56.8	45.0	46.6	82.9	303.3	1359.3	2398.6	2671.9	2780.1
62.5°	46.6	45.8	53.7	36.3	39.5	60.1	214.1	1105.0	1848.2	2199.6	2386.8
65°	41.1	40.2	38.7	30.8	34.0	46.6	127.9	721.1	1302.4	1664.1	1766.8
67.5°	31.6	33.2	28.4	24.5	28.4	36.3	71.1	323.1	683.2	998.3	1081.2
70°	22.1	23.7	22.9	21.3	25.3	30.0	41.1	110.6	282.7	524.5	578.2
72.5°	13.4	16.6	17.4	18.2	22.1	26.1	29.2	35.5	75.0	185.6	230.6
75°	7.9	11.0	13.4	15.8	18.2	22.1	24.5	25.3	26.1	34.8	56.1
77.5°	5.6	7.9	11.8	15.0	18.2	22.1	26.1	27.6	26.1	24.5	26.1
80°	4.8	7.9	11.0	14.3	18.9	22.9	26.1	26.1	25.3	22.1	23.7
82.5°	4.8	7.9	11.8	15.0	18.2	22.1	25.3	26.1	23.7	22.1	22.9
85°	5.6	8.7	12.6	15.8	19.7	18.2	16.6	13.4	12.6	10.3	11.0
87.5°	5.6	7.9	7.9	8.7	9.5	9.5	9.5	8.7	7.1	6.3	6.3
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°	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7	2018.7
2.5°	2205.9	2269.1	2266.8	2268.4	2258.9	2194.9	2164.1	2085.9	2108.0	2098.5
5°	2290.4	2352.8	2406.6	2400.2	2327.5	2240.7	2112.0	1990.3	1957.2	1908.2
7.5°	2205.9	2356.0	2405.8	2398.6	2291.2	2179.9	1974.5	1852.9	1795.3	1762.8
10°	2071.7	2245.4	2307.0	2319.6	2247.0	2078.0	1889.2	1694.2	1663.3	1607.3
12.5°	1995.1	2121.5	2159.4	2193.3	2168.0	2041.7	1824.5	1637.3	1594.7	1557.5
15°	1932.7	2007.7	2023.5	2062.2	2077.2	2009.3	1858.5	1698.9	1593.9	1589.9
17.5°	1990.3	1959.5	1901.8	1913.7	1961.1	2010.0	1946.1	1820.5	1718.6	1706.0
20°	2085.9	1950.1	1819.7	1849.0	1888.4	2038.5	2078.8	1990.3	1931.9	1899.5
22.5°	2195.7	1966.7	1793.7	1807.9	1882.9	2102.5	2293.6	2244.6	2135.6	2089.0
25°	2398.6	2012.5	1814.2	1823.7	1926.3	2191.7	2487.9	2524.2	2459.5	2450.0
27.5°	2596.9	2130.9	1859.2	1837.9	1948.5	2278.6	2605.6	2800.6	2686.9	2664.8
30°	2698.0	2227.2	1926.3	1890.0	2040.1	2331.5	2676.7	2980.7	2881.2	2870.9
32.5°	2852.8	2314.9	1978.5	1931.9	2091.4	2397.1	2809.3	3177.4	3081.0	3029.7
35°	2917.5	2410.5	2093.0	2038.5	2238.3	2488.7	2877.3	3352.7	3322.7	3272.9
37.5°	3042.3	2513.2	2228.0	2224.9	2416.0	2607.9	2999.7	3591.2	3585.7	3499.6
40°	3052.6	2625.3	2441.3	2540.8	2690.9	2815.7	3107.1	3657.6	3747.7	3689.2
42.5°	3068.4	2822.0	2810.1	2892.2	3021.0	2994.2	3111.1	3673.4	3810.9	3776.1
45°	3075.5	3018.6	3185.3	3336.9	3390.6	3227.9	3073.9	3643.4	3844.0	3757.1
47.5°	3018.6	3187.7	3488.6	3781.6	3797.4	3371.7	3058.2	3612.6	3863.7	3806.1
50°	3026.5	3293.5	3750.8	4013.0	3955.4	3498.8	3033.7	3593.7	3853.5	3814.8
52°	3007.6	3295.9	3787.9	4008.3	3968.0	3428.6	2991.8	3521.0	3844.0	3871.6
52.5°	3029.0	3281.6	3749.2	4011.5	3959.3	3463.3	2986.3	3561.2	3849.5	3793.5
55°	2955.4	3112.7	3522.6	3633.9	3626.0	3143.4	2816.5	3427.7	3705.0	3705.8
57.5°	2671.1	2698.0	2762.7	2760.4	2724.1	2471.3	2408.9	3152.1	3303.0	3220.9
60°	2353.6	1975.4	1800.7	1729.6	1689.4	1648.4	2130.9	2883.6	2897.8	2863.0
62.5°	2033.8	1369.5	1137.3	1117.6	1127.1	1277.2	2059.8	2777.0	2691.6	2616.6
65°	1641.2	998.3	826.1	800.1	892.5	1054.4	1667.3	2129.3	1998.2	1935.8
67.5°	1030.7	728.2	558.4	509.4	620.8	725.8	1095.5	1337.9	1191.0	1105.0
70°	611.3	406.8	252.8	226.7	255.1	387.0	613.7	667.4	552.1	507.9
72.5°	240.9	149.2	70.3	60.1	62.4	135.9	225.9	220.3	166.6	148.5
75°	64.8	45.0	24.5	19.7	16.6	25.3	36.3	23.7	8.7	11.0
77.5°	30.0	26.9	21.3	16.6	12.6	9.5	4.8	1.6	1.6	0.8
80°	26.1	22.9	19.7	16.6	12.6	7.9	3.9	0.8	0.8	0.8
82.5°	24.5	21.3	18.2	15.0	11.8	7.9	3.9	0.8	0.0	0.0
85°	10.3	13.4	15.0	14.3	12.6	7.9	3.9	0.8	0.0	0.0
87.5°	5.6	4.8	3.9	3.1	2.3	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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