

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: P647774

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
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-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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

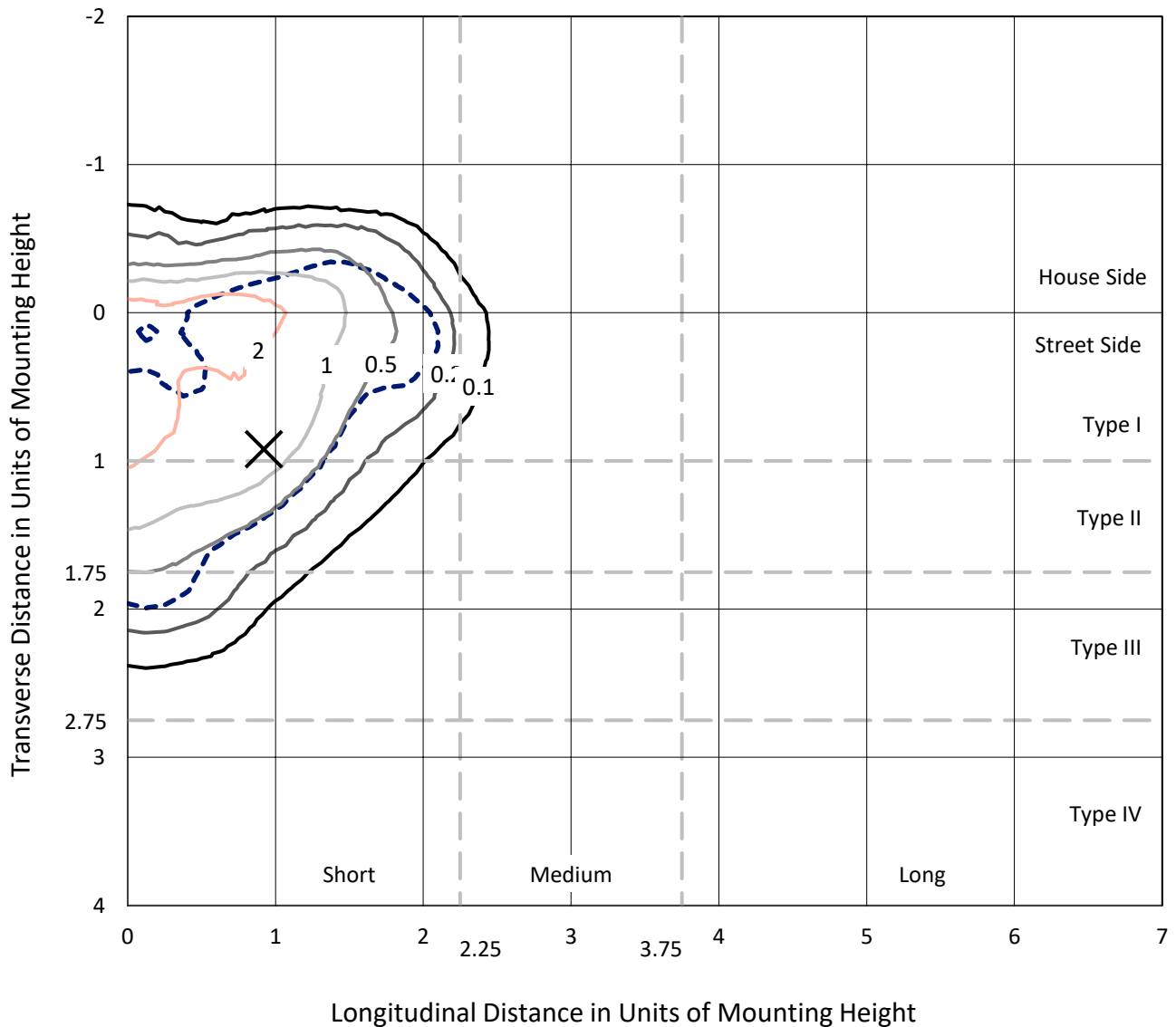
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

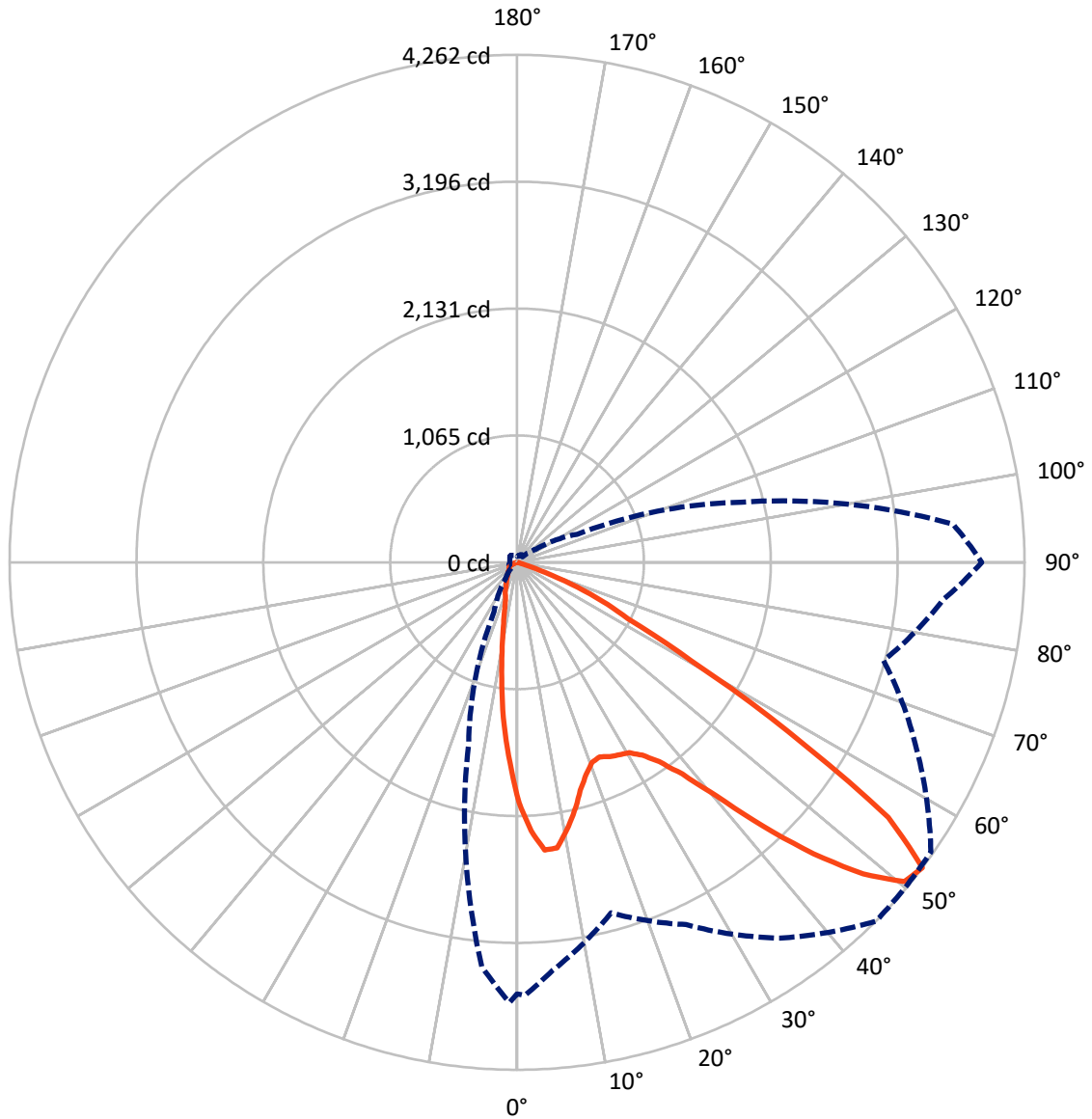
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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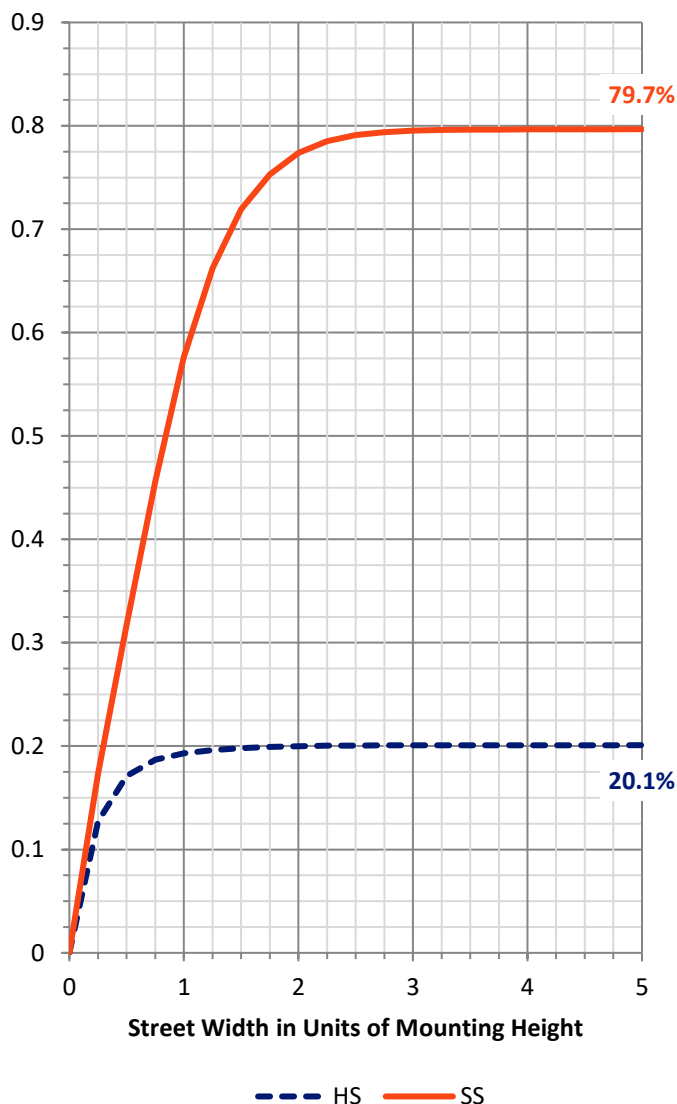
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.9	0.0	807.9
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	3172.9	0.0	3172.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	3980.8	0.0	3980.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	3.7
10°-20°	290.4	7.3
20°-30°	442.0	11.1
30°-40°	660.6	16.6
40°-50°	940.7	23.6
50°-60°	1011.3	25.4
60°-70°	448.1	11.3
70°-80°	36.3	0.9
80°-90°	4.2	0.1
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

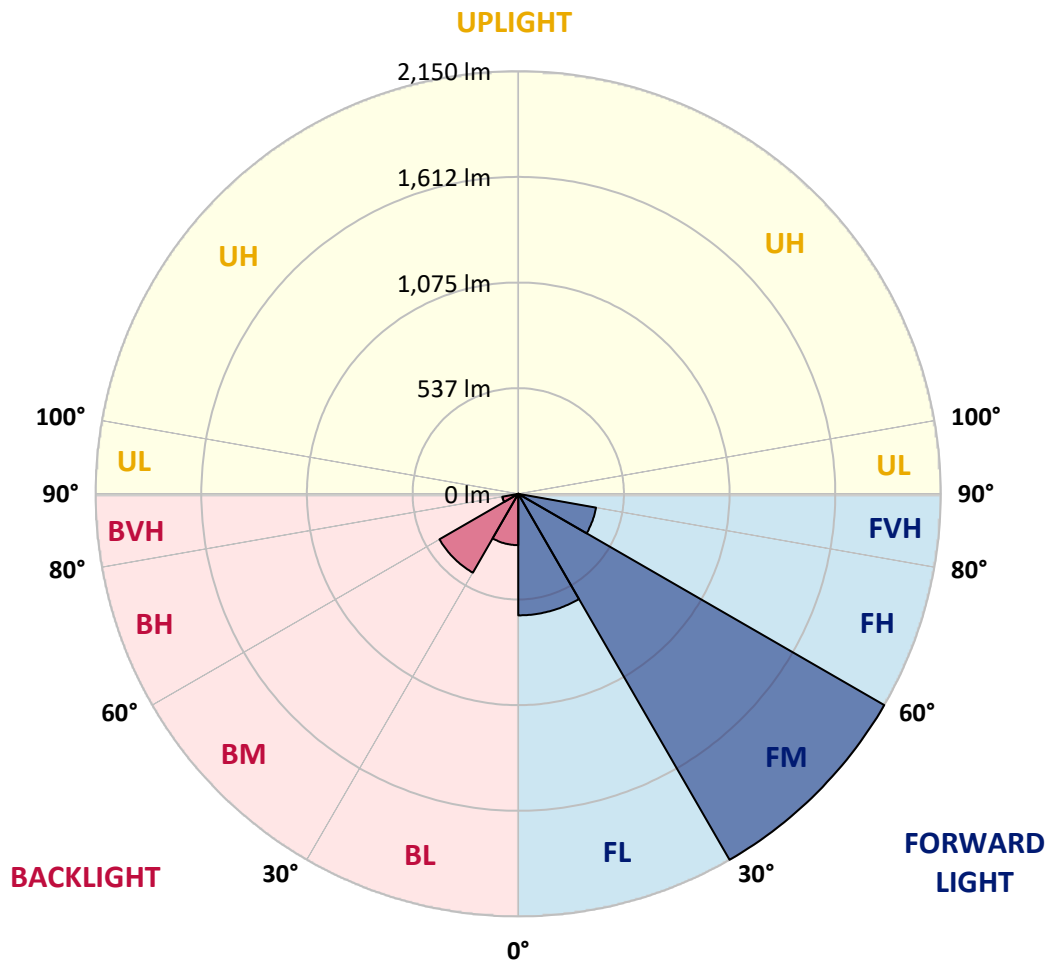


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.3	15.5			
FM (30°-60°)	2149.7	54.0			
FH (60°-80°)	401.7	10.1			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	261.3	6.6	B1/500		
BM (30°-60°)	462.8	11.6	B1/1000		
BH (60°-80°)	82.7	2.1	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			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°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	2135.9	2142.1	2176.6	2219.6	2242.4	2294.0	2258.0	2267.4	2247.8	2178.9	2124.9
5°	2070.9	2070.1	2113.9	2220.4	2321.4	2424.0	2427.1	2372.3	2276.0	2170.3	2019.2
7.5°	1875.1	1905.7	1951.1	2121.0	2308.1	2384.9	2421.7	2357.5	2209.5	2058.4	1894.7
10°	1727.1	1742.8	1819.5	2024.7	2161.7	2264.3	2287.0	2250.2	2136.7	1947.9	1764.7
12.5°	1641.9	1649.7	1739.7	1911.9	2056.8	2132.7	2143.7	2160.9	2079.5	1902.5	1682.6
15°	1642.7	1648.9	1770.2	1914.3	1971.4	1951.1	1987.1	1986.3	2021.5	1893.9	1751.4
17.5°	1760.8	1767.9	1877.5	1948.7	1923.7	1875.9	1873.6	1909.6	1984.0	2001.2	1855.6
20°	1964.4	1980.8	2061.5	2057.6	1916.6	1820.3	1793.7	1821.1	1994.1	2092.0	2065.4
22.5°	2238.4	2261.1	2317.5	2209.5	1948.7	1782.7	1774.1	1827.4	2061.5	2294.8	2303.4
25°	2556.3	2594.7	2622.1	2483.5	2063.0	1847.7	1807.0	1898.6	2152.3	2514.8	2606.5
27.5°	2767.0	2806.9	2800.6	2602.5	2139.8	1864.9	1830.5	1915.8	2231.4	2567.3	2764.6
30°	2931.3	2955.6	2999.4	2666.7	2216.5	1913.5	1854.8	1988.7	2257.2	2658.1	2955.6
32.5°	3123.2	3139.6	3142.7	2780.3	2334.7	1974.6	1929.9	2079.5	2371.6	2745.0	3124.7
35°	3316.6	3340.8	3289.9	2920.4	2407.6	2088.1	2055.2	2236.9	2463.2	2835.1	3311.1
37.5°	3526.4	3538.9	3421.5	2978.3	2511.7	2272.9	2254.9	2406.8	2622.1	2997.9	3517.8
40°	3702.6	3714.3	3561.6	3049.6	2621.3	2531.3	2577.5	2730.9	2838.2	3103.6	3621.1
42.5°	3800.4	3827.9	3608.6	3010.4	2841.4	2824.1	3029.2	3083.2	3088.7	3133.3	3713.5
45°	3827.1	3814.5	3531.1	3042.5	3033.9	3305.6	3491.9	3563.2	3337.7	3188.1	3737.0
47.5°	3704.1	3720.6	3416.8	3014.3	3286.8	3670.5	3911.6	4043.9	3523.3	3140.4	3679.1
50°	3604.7	3583.6	3380.0	2994.0	3354.9	3842.7	4214.6	4244.3	3694.0	3199.1	3615.7
52.5°	3624.3	3637.6	3438.7	3048.0	3356.5	3852.9	4261.6	4241.2	3699.4	3185.8	3593.0
55°	3665.8	3607.0	3413.6	2929.0	3131.8	3568.7	3782.4	3751.1	3414.4	3044.1	3537.4
57.5°	3163.1	3253.9	3138.8	2615.1	2570.4	2688.7	2684.8	2781.1	2546.9	2619.8	3220.2
60°	2567.3	2583.0	2626.0	2236.9	1778.8	1738.1	1681.8	1620.7	1713.9	2240.0	2929.0
62.5°	2258.0	2239.2	2392.7	2034.9	1255.9	1051.5	1042.1	1079.7	1322.4	2136.7	2747.4
65°	1641.1	1664.6	1775.7	1579.2	942.7	802.5	788.4	899.6	1070.3	1712.3	2096.7
67.5°	1002.2	1047.6	1057.8	974.0	639.6	508.2	487.8	588.7	772.7	1107.9	1229.2
70°	462.8	517.6	569.2	531.7	370.4	209.1	197.3	247.4	389.9	637.3	652.2
72.5°	140.2	140.9	197.3	205.9	119.8	47.0	41.5	54.8	132.3	210.6	221.6
75°	10.2	11.0	26.6	30.5	22.7	11.7	12.5	14.9	28.2	47.0	35.2
77.5°	0.8	0.8	0.8	3.9	7.0	7.8	10.2	11.7	14.9	17.2	15.7
80°	0.8	0.0	0.8	3.1	5.5	7.8	9.4	11.0	11.7	13.3	11.7
82.5°	0.0	0.0	0.0	2.3	5.5	7.8	8.6	11.7	13.3	15.7	13.3
85°	0.0	0.0	0.0	2.3	5.5	8.6	7.8	3.9	0.0	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°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	2134.3	2103.8	2034.1	1998.8	1915.8	1904.1	1822.7	1809.4	1782.0	1767.1	1731.1
5°	1952.6	1915.8	1802.3	1706.9	1595.7	1518.2	1458.7	1404.6	1373.3	1344.3	1357.6
7.5°	1804.7	1697.5	1571.4	1411.7	1283.3	1200.3	1109.4	1035.0	991.2	961.4	968.5
10°	1649.7	1580.0	1404.6	1225.3	1070.3	1011.6	940.3	883.1	821.3	768.0	743.0
12.5°	1601.2	1497.8	1277.8	1095.3	977.9	920.7	839.3	773.5	694.4	629.5	606.7
15°	1609.8	1510.3	1243.3	1048.4	909.8	811.1	714.0	632.6	545.8	500.3	476.8
17.5°	1749.8	1577.7	1266.0	999.0	815.0	678.0	558.3	454.9	389.9	343.0	332.8
20°	1922.1	1723.3	1314.6	963.0	737.5	539.5	407.9	318.7	264.7	256.8	254.5
22.5°	2174.2	1961.3	1418.7	938.7	642.8	420.5	279.5	231.8	216.9	215.3	216.1
25°	2526.6	2259.6	1532.3	918.4	571.6	324.2	228.6	196.5	191.8	189.5	193.4
27.5°	2679.3	2439.7	1592.5	874.5	506.6	292.1	225.5	195.0	181.7	177.7	180.1
30°	2868.0	2559.5	1687.3	799.4	411.1	240.4	210.6	212.2	205.9	186.4	180.1
32.5°	3118.5	2709.0	1735.0	746.1	367.2	198.9	154.3	141.7	158.2	161.3	166.8
35°	3279.0	2860.9	1759.2	714.8	344.5	169.9	130.8	119.0	115.1	115.9	119.0
37.5°	3577.3	3066.0	1789.8	681.9	327.3	148.0	118.2	107.3	101.8	101.8	104.9
40°	3755.8	3228.9	1831.3	663.9	310.1	134.7	107.3	97.9	93.2	93.2	94.7
42.5°	3800.4	3309.5	1817.2	657.6	290.5	131.5	97.9	90.8	85.3	84.6	83.8
45°	3880.3	3432.4	1819.5	650.6	270.1	119.8	92.4	84.6	76.7	76.0	75.2
47.5°	3968.0	3520.9	1824.2	623.2	250.6	100.2	96.3	78.3	68.9	67.3	67.3
50°	3892.8	3591.4	1864.9	595.8	225.5	81.4	94.7	73.6	61.1	58.7	59.5
52.5°	3902.2	3674.4	1951.1	557.5	194.2	65.0	76.7	69.7	55.6	51.7	52.5
55°	3751.9	3586.7	1962.8	516.8	151.9	50.1	58.7	61.1	47.0	45.4	45.4
57.5°	3229.6	3037.0	1731.8	418.9	100.2	41.5	42.3	53.2	40.7	39.2	39.9
60°	2763.8	2438.1	1393.7	276.4	62.6	32.9	30.5	54.0	36.0	35.2	37.6
62.5°	2519.5	2003.5	1057.0	171.5	43.1	25.1	21.1	43.8	31.3	31.3	34.5
65°	1820.3	1345.9	614.6	90.0	30.5	19.6	15.7	25.1	25.8	26.6	28.2
67.5°	1127.4	679.6	259.2	43.8	20.4	13.3	10.2	15.7	17.2	17.2	18.8
70°	556.7	270.9	86.1	25.1	15.7	11.0	7.0	8.6	8.6	7.8	8.6
72.5°	172.3	81.4	21.9	15.7	11.0	7.0	3.9	3.1	1.6	0.0	0.8
75°	19.6	15.7	14.1	11.0	7.0	3.1	0.8	0.0	0.0	0.0	0.0
77.5°	11.7	13.3	13.3	11.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0
80°	9.4	10.2	11.0	10.2	6.3	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	13.3	14.9	13.3	8.6	3.9	1.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	2.3	0.8	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	1716.3	1699.0	1723.3	1687.3	1686.5	1687.3	1677.1	1667.7	1682.6	1722.5	1726.4
5°	1309.9	1346.7	1358.4	1396.8	1375.7	1344.3	1350.6	1329.5	1381.1	1403.8	1385.8
7.5°	953.6	951.3	1030.3	1035.0	1045.2	1046.0	1044.4	1002.9	960.7	970.1	998.2
10°	739.9	699.9	738.3	734.4	759.4	752.4	762.6	717.9	732.8	732.8	750.8
12.5°	602.8	560.6	553.6	543.4	553.6	557.5	561.4	552.8	577.8	589.5	602.0
15°	460.4	436.9	430.6	411.1	414.2	425.2	434.6	438.5	430.6	448.7	450.2
17.5°	334.3	333.6	337.5	336.7	333.6	331.2	330.4	320.2	317.1	318.7	324.9
20°	253.7	260.0	273.3	286.6	293.6	285.0	273.3	256.0	249.0	250.6	251.3
22.5°	216.9	226.3	244.3	259.2	266.2	250.6	229.4	214.5	211.4	210.6	209.8
25°	196.5	207.5	220.8	225.5	224.7	215.3	199.7	193.4	191.8	190.3	183.2
27.5°	185.6	189.5	191.8	197.3	199.7	193.4	189.5	180.1	178.5	178.5	173.8
30°	179.3	177.0	180.1	176.2	179.3	174.6	175.4	175.4	171.5	173.0	173.0
32.5°	166.8	167.6	167.6	159.7	162.1	156.6	162.1	166.8	167.6	168.3	174.6
35°	122.1	136.2	143.3	143.3	145.6	141.7	140.9	135.5	128.4	121.4	118.2
37.5°	107.3	112.8	122.1	127.6	131.5	128.4	121.4	112.8	108.8	105.7	102.6
40°	95.5	100.2	106.5	112.8	120.6	116.7	105.7	101.8	97.1	97.1	94.0
42.5°	86.1	88.5	92.4	101.8	110.4	102.6	94.7	91.6	89.3	88.5	87.7
45°	77.5	78.3	82.2	90.0	100.2	92.4	84.6	80.6	81.4	82.2	81.4
47.5°	69.7	71.3	73.6	83.0	89.3	85.3	76.7	74.4	74.4	74.4	75.2
50°	60.3	64.2	68.9	76.7	81.4	79.1	72.0	68.9	67.3	67.3	68.1
52.5°	54.0	57.2	63.4	72.8	79.1	75.2	68.1	63.4	60.3	59.5	61.1
55°	47.0	52.5	62.6	69.7	78.3	74.4	66.6	61.1	55.6	54.8	54.8
57.5°	42.3	50.9	60.3	68.9	76.0	72.8	66.6	59.5	52.5	51.7	51.7
60°	39.9	49.3	58.7	66.6	76.0	71.3	65.8	57.9	50.1	50.1	49.3
62.5°	37.6	46.2	55.6	63.4	72.8	68.9	63.4	55.6	47.8	47.8	46.2
65°	31.3	39.9	46.2	53.2	63.4	59.5	54.0	48.5	42.3	40.7	41.5
67.5°	21.9	27.4	33.7	40.7	47.0	45.4	43.1	39.2	33.7	32.9	32.1
70°	11.0	14.9	20.4	27.4	32.9	31.3	29.8	26.6	23.5	22.7	22.7
72.5°	1.6	4.7	8.6	12.5	17.2	18.0	17.2	16.4	15.7	14.9	15.7
75°	0.0	0.0	0.0	3.1	7.0	8.6	10.2	11.7	11.7	10.2	12.5
77.5°	0.0	0.0	0.0	0.0	0.8	3.9	7.8	10.2	12.5	11.0	14.9
80°	0.0	0.0	0.0	0.0	0.8	4.7	7.8	11.0	12.5	11.0	15.7
82.5°	0.0	0.0	0.0	0.0	0.8	5.5	7.8	10.2	11.7	11.0	14.1
85°	0.0	0.0	0.0	0.0	2.3	4.7	3.1	1.6	0.8	0.8	2.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	1748.3	1803.9	1863.4	1886.1	1956.6	2009.8	2045.8	2123.3	2135.1	2135.9
5°	1404.6	1432.8	1534.6	1582.4	1687.3	1768.6	1855.6	1980.8	2064.6	2070.9
7.5°	998.2	1076.5	1119.6	1244.1	1373.3	1500.9	1630.1	1775.7	1872.8	1875.1
10°	803.3	854.2	930.9	1024.1	1132.9	1262.9	1435.2	1604.3	1702.9	1727.1
12.5°	646.7	735.9	823.6	919.9	1002.9	1100.8	1286.4	1511.9	1593.3	1641.9
15°	498.0	579.3	682.7	795.4	889.4	1020.2	1231.6	1489.2	1626.2	1642.7
17.5°	367.2	440.0	535.6	642.0	782.9	968.5	1241.0	1604.3	1733.4	1760.8
20°	263.9	306.2	381.3	505.0	684.3	908.2	1250.4	1721.0	1917.4	1964.4
22.5°	209.1	226.3	275.6	385.2	573.9	844.8	1316.9	1944.0	2170.3	2238.4
25°	181.7	191.1	214.5	303.8	504.3	838.5	1423.4	2211.8	2507.0	2556.3
27.5°	175.4	177.0	197.3	278.7	466.7	797.0	1464.1	2402.1	2716.9	2767.0
30°	184.8	209.8	211.4	235.7	397.0	714.8	1485.3	2586.1	2894.5	2931.3
32.5°	159.7	151.9	157.4	182.4	349.2	667.0	1525.2	2746.6	3097.3	3123.2
35°	111.2	116.7	129.2	158.2	305.4	616.9	1535.4	2923.5	3289.9	3316.6
37.5°	102.6	105.7	115.9	134.7	268.6	588.7	1521.3	3052.7	3489.6	3526.4
40°	95.5	99.4	104.9	122.1	241.2	557.5	1501.7	3169.3	3611.7	3702.6
42.5°	90.0	93.2	97.9	116.7	217.7	526.2	1474.3	3333.8	3721.4	3800.4
45°	83.8	88.5	94.0	113.5	204.4	505.0	1454.0	3323.6	3784.8	3827.1
47.5°	77.5	85.3	91.6	105.7	200.4	494.9	1462.6	3285.2	3733.1	3704.1
50°	71.3	81.4	92.4	87.7	191.1	474.5	1472.7	3337.7	3610.2	3604.7
52.5°	65.8	77.5	86.1	72.0	169.9	454.9	1571.4	3406.6	3697.1	3624.3
55°	57.9	69.7	68.9	57.9	137.8	440.0	1648.9	3408.2	3638.4	3665.8
57.5°	52.5	61.9	54.0	48.5	101.8	368.0	1522.9	2857.8	3114.5	3163.1
60°	48.5	60.3	40.7	38.4	66.6	265.4	1329.5	2213.4	2475.7	2567.3
62.5°	44.6	57.2	32.1	31.3	46.2	188.7	1093.0	1852.4	2133.5	2258.0
65°	39.2	40.7	25.8	24.3	32.9	101.8	665.5	1275.4	1594.9	1641.1
67.5°	32.1	31.3	21.1	19.6	21.9	49.3	293.6	638.8	924.6	1002.2
70°	25.8	25.8	18.0	15.7	15.7	22.7	76.7	254.5	418.1	462.8
72.5°	18.8	19.6	14.1	12.5	11.7	11.0	12.5	50.9	109.6	140.2
75°	16.4	17.2	14.1	11.0	8.6	7.0	5.5	4.7	6.3	10.2
77.5°	18.0	18.0	14.9	10.2	7.8	5.5	3.1	1.6	1.6	0.8
80°	22.7	23.5	19.6	13.3	9.4	6.3	3.9	1.6	0.8	0.8
82.5°	24.3	26.6	21.9	16.4	11.7	7.0	3.9	0.8	0.0	0.0
85°	6.3	10.2	17.2	14.9	11.7	7.0	3.9	0.8	0.0	0.0
87.5°	0.0	0.8	2.3	2.3	3.1	3.1	2.3	0.8	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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