

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: P455570

Luminaire Tested: **GALN-SA6D-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36012 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

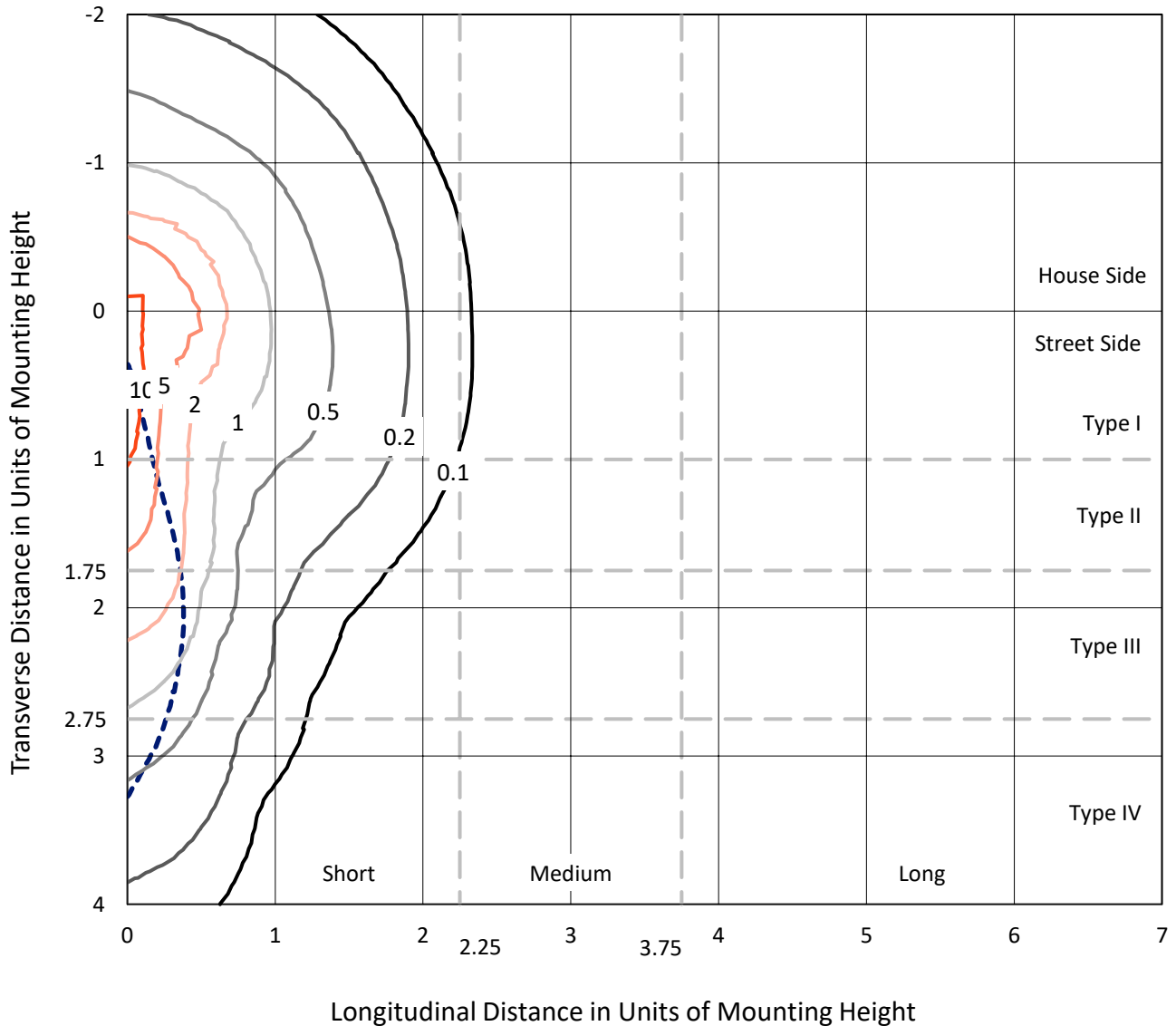
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

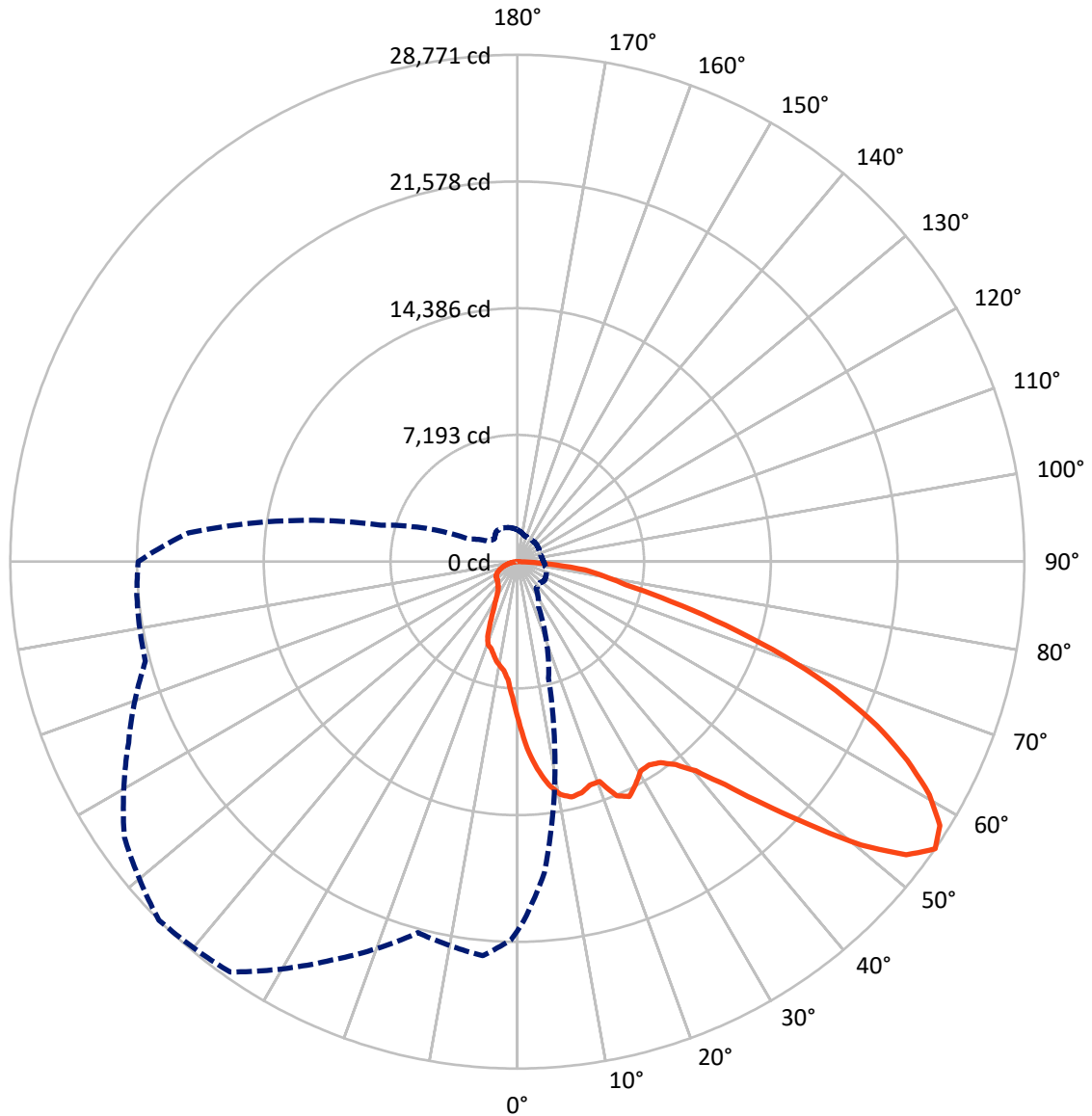
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7877.5	0.0	7877.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	28134.5	0.0	28134.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	36012.0	0.0	36012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.0	2.1
10°-20°	2032.1	5.6
20°-30°	3510.6	9.7
30°-40°	4079.9	11.3
40°-50°	5692.2	15.8
50°-60°	7723.7	21.4
60°-70°	7348.2	20.4
70°-80°	3969.7	11.0
80°-90°	889.7	2.5
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°	36012.0	100.0
0°-180°	36012.0	100.0

Coefficient of Utilization



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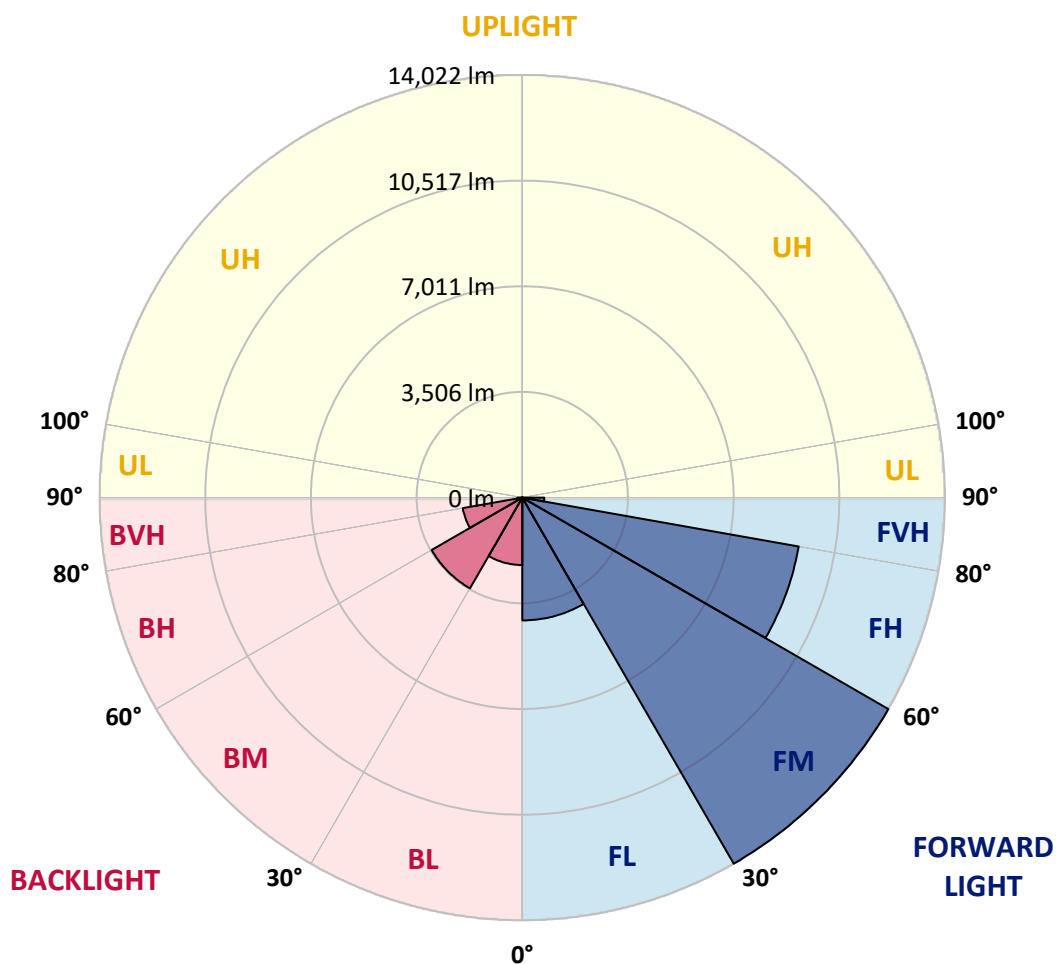
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4073.0	11.3			
FM	(30°-60°)	14022.3	38.9			
FH	(60°-80°)	9312.1	25.9			G4/12000
FVH	(80°-90°)	727.1	2.0			G4/750
BL	(0°-30°)	2235.6	6.2	B3/2500		
BM	(30°-60°)	3473.5	9.6	B3/5000		
BH	(60°-80°)	2005.8	5.6	B3/2500		G3/2500
BVH	(80°-90°)	162.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6
2.5°	10040.2	10002.2	9895.3	9614.9	9332.2	9044.7	8823.8	8548.2	8260.7	8106.3	7909.1
5°	10178.0	10135.2	9883.4	9251.4	8678.9	8077.8	7597.9	7177.3	7006.3	6754.4	6552.5
7.5°	9854.9	9835.9	9458.1	8550.6	7766.5	6980.1	6436.1	6098.7	5792.2	5678.2	5702.0
10°	9560.3	9484.3	9011.5	7825.9	6911.2	6272.2	5882.5	5552.3	5336.1	5279.1	5290.9
12.5°	9315.6	9213.4	8655.1	7338.9	6538.2	6027.4	5530.9	5186.4	4989.2	5043.9	5229.2
15°	9265.7	9127.9	8505.4	7172.6	6333.9	5675.8	5131.8	4735.0	4587.7	4706.5	5003.5
17.5°	9588.8	9415.4	8762.0	7227.2	6139.1	5317.1	4649.5	4195.7	4072.1	4262.2	4649.5
20°	10627.0	10370.4	9562.7	7543.2	6120.1	5138.9	4369.1	3913.0	3965.2	4326.4	4730.3
22.5°	12546.7	12161.8	10964.4	8004.1	6219.9	5093.8	4312.1	4074.5	4362.0	4668.5	4934.6
25°	12926.8	12625.1	11216.2	8108.7	6198.5	5062.9	4473.7	4592.5	4913.2	5065.2	4972.6
27.5°	13140.6	12796.1	11199.6	7590.7	5542.8	4592.5	4276.5	4473.7	4554.4	4407.1	4155.3
30°	13639.6	13280.8	11482.3	7046.7	4563.9	3406.9	2986.4	2905.6	2960.3	2988.8	2898.5
32.5°	14326.2	13972.2	12014.5	6690.3	3946.2	2817.7	2404.3	2290.3	2264.2	2233.3	2197.6
35°	15214.7	14670.7	12537.2	6462.2	3692.0	2606.3	2226.1	2138.2	2102.6	2059.8	2021.8
37.5°	16117.5	15547.3	13197.7	6222.3	3523.3	2459.0	2107.3	2067.0	2005.2	1960.0	1905.4
40°	17077.4	16438.3	13798.7	6013.2	3359.4	2363.9	2021.8	2017.1	1936.3	1884.0	1819.9
42.5°	17908.9	17250.8	14335.7	5884.9	3233.5	2264.2	1969.6	1983.8	1900.7	1822.3	1739.1
45°	18569.4	17923.2	14832.2	5884.9	3131.3	2164.4	1960.0	1950.5	1867.4	1770.0	1675.0
47.5°	19149.1	18481.5	15316.9	6034.6	3067.2	2081.2	1907.8	1924.4	1838.9	1715.3	1622.7
50°	19598.1	19008.9	15970.2	6267.4	3003.0	2014.7	1841.3	1931.5	1815.1	1686.8	1579.9
52.5°	20170.7	19643.2	16756.6	6585.8	2948.4	1941.0	1781.9	1931.5	1812.7	1689.2	1572.8
55°	20964.2	20408.3	17704.6	6849.5	2860.5	1872.1	1729.6	1876.9	1805.6	1677.3	1553.8
57.5°	21520.1	21104.4	18374.6	7025.3	2734.6	1784.2	1682.1	1824.6	1774.7	1632.2	1496.8
58°	21546.3	21140.0	18472.0	7065.7	2703.7	1767.6	1670.2	1800.9	1760.5	1613.2	1477.8
60°	21246.9	20897.7	18491.0	7008.7	2527.9	1684.5	1608.4	1703.5	1684.5	1501.5	1375.6
62.5°	20158.8	19785.8	17723.6	6545.4	2295.0	1582.3	1513.4	1572.8	1530.0	1344.7	1228.3
65°	18612.1	17925.5	16146.0	5818.4	2128.7	1473.0	1385.1	1389.9	1344.7	1211.7	1109.5
67.5°	16552.3	15784.9	13670.4	4903.7	2002.8	1351.8	1233.0	1221.2	1166.5	1081.0	997.8
70°	14017.3	13492.3	11109.3	3989.0	1862.6	1218.8	1062.0	1054.9	1021.6	957.5	883.8
72.5°	11361.2	10693.5	8971.1	3193.1	1691.6	1090.5	902.8	917.1	874.3	829.2	762.6
75°	8384.3	7947.1	6935.0	2561.1	1461.1	950.3	753.1	757.9	738.9	691.4	639.1
77.5°	5521.4	5390.7	4960.7	1682.1	1123.8	755.5	615.3	620.1	605.8	563.1	508.4
80°	3715.8	3627.9	3361.8	1083.4	750.8	546.4	475.2	479.9	477.5	432.4	358.7
82.5°	2290.3	2252.3	2166.7	731.8	520.3	392.0	313.6	327.9	354.0	304.1	244.7
85°	1081.0	1083.4	1309.1	399.1	306.5	251.8	171.1	182.9	182.9	182.9	137.8
87.5°	140.2	147.3	180.6	168.7	111.7	95.0	61.8	52.3	45.1	59.4	42.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6
2.5°	7840.2	7792.7	7690.5	7666.8	7652.5	7692.9	7586.0	7614.5	7567.0	7700.0	7678.6
5°	6564.4	6569.1	6652.3	6706.9	6725.9	6706.9	6635.7	6512.1	6417.1	6379.1	6388.6
7.5°	5656.8	5740.0	5882.5	6041.7	6186.6	6229.4	6189.0	5953.8	5697.2	5535.7	5483.4
10°	5355.1	5466.8	5630.7	5756.6	5884.9	5987.1	6008.4	5825.5	5521.4	5138.9	4989.2
12.5°	5371.7	5523.8	5680.6	5721.0	5709.1	5749.5	5730.5	5699.6	5500.0	5013.0	4763.5
15°	5214.9	5395.5	5504.8	5483.4	5445.4	5409.7	5359.8	5281.4	5210.2	4868.0	4592.5
17.5°	4853.8	5039.1	5129.4	5136.5	5136.5	5127.0	5005.8	4977.3	4967.8	4801.5	4632.8
20°	4920.3	5022.5	4982.1	4915.6	4934.6	4998.7	4927.4	4913.2	4967.8	5041.5	5010.6
22.5°	4958.3	4922.7	4618.6	4324.0	4257.5	4457.0	4497.4	4656.6	4877.6	5143.6	5317.1
25°	4723.1	4435.6	3891.6	3559.0	3371.3	3556.6	3798.9	4093.5	4423.8	4765.9	4967.8
27.5°	3948.6	3730.0	3340.4	3041.0	2877.1	2905.6	3112.3	3380.8	3687.3	3917.7	4065.0
30°	2974.5	2877.1	2675.2	2573.0	2473.2	2449.5	2537.4	2639.5	2775.0	2803.5	2841.5
32.5°	2190.5	2176.2	2188.1	2154.9	2135.9	2133.5	2107.3	2131.1	2145.4	2162.0	2128.7
35°	1981.4	1962.4	1929.2	1919.7	1907.8	1912.5	1900.7	1888.8	1898.3	1912.5	1922.0
37.5°	1874.5	1846.0	1798.5	1781.9	1781.9	1789.0	1770.0	1765.2	1781.9	1827.0	1850.8
40°	1791.4	1758.1	1703.5	1682.1	1696.3	1715.3	1689.2	1679.7	1720.1	1767.6	1805.6
42.5°	1713.0	1686.8	1634.6	1610.8	1622.7	1658.3	1620.3	1613.2	1665.4	1717.7	1762.9
45°	1646.4	1620.3	1572.8	1560.9	1565.7	1598.9	1572.8	1572.8	1622.7	1679.7	1720.1
47.5°	1594.2	1560.9	1530.0	1520.5	1525.3	1544.3	1539.5	1539.5	1587.0	1646.4	1686.8
50°	1541.9	1513.4	1473.0	1477.8	1489.6	1515.8	1513.4	1520.5	1568.0	1641.7	1684.5
52.5°	1518.1	1475.4	1430.2	1435.0	1470.6	1501.5	1492.0	1499.1	1553.8	1691.6	1753.4
55°	1492.0	1435.0	1382.7	1389.9	1430.2	1475.4	1463.5	1473.0	1537.2	1724.8	1810.4
57.5°	1442.1	1375.6	1318.6	1323.3	1382.7	1430.2	1411.2	1423.1	1499.1	1689.2	1779.5
58°	1420.7	1363.7	1309.1	1311.5	1368.5	1420.7	1399.4	1408.9	1487.3	1679.7	1765.2
60°	1330.5	1297.2	1249.7	1252.1	1306.7	1351.8	1340.0	1349.5	1425.5	1610.8	1675.0
62.5°	1206.9	1187.9	1176.0	1176.0	1209.3	1252.1	1263.9	1275.8	1344.7	1456.4	1513.4
65°	1073.9	1073.9	1076.2	1076.2	1097.6	1152.3	1159.4	1190.3	1254.4	1309.1	1351.8
67.5°	983.6	978.8	983.6	971.7	981.2	1014.5	1050.1	1078.6	1145.1	1183.2	1197.4
70°	867.2	864.8	867.2	850.5	862.4	890.9	914.7	962.2	1031.1	1059.6	1066.7
72.5°	753.1	753.1	757.9	746.0	746.0	776.9	793.5	845.8	909.9	926.6	928.9
75°	634.3	641.5	641.5	624.8	629.6	648.6	670.0	712.7	772.1	784.0	784.0
77.5°	503.7	529.8	529.8	513.2	520.3	522.7	551.2	572.6	617.7	622.5	603.5
80°	365.9	392.0	413.4	399.1	411.0	396.8	413.4	427.6	472.8	451.4	420.5
82.5°	261.3	280.3	297.0	299.4	287.5	261.3	282.7	285.1	306.5	278.0	261.3
85°	144.9	161.6	182.9	173.4	154.4	137.8	144.9	149.7	147.3	140.2	130.7
87.5°	38.0	40.4	45.1	33.3	30.9	26.1	35.6	35.6	40.4	42.8	40.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6
2.5°	7695.3	7799.8	8025.5	8196.6	8405.6	8659.9	8959.2	9260.9	9586.4	9688.6	9831.1
5°	6367.2	6628.5	6737.8	7049.0	7357.9	7821.2	8315.4	8887.9	9515.1	9816.9	10106.7
7.5°	5440.6	5580.8	5694.8	5922.9	6293.5	6856.6	7476.7	8191.8	9080.4	9519.9	9945.2
10°	4941.7	4956.0	5096.1	5378.8	5702.0	6198.5	6785.3	7586.0	8576.7	9111.3	9610.2
12.5°	4611.5	4549.7	4701.7	4996.3	5362.2	5820.7	6360.1	7122.7	8213.2	8762.0	9365.5
15°	4321.6	4224.2	4338.2	4640.0	5001.1	5540.4	6120.1	6927.9	8070.6	8709.7	9379.7
17.5°	4328.7	4060.3	4100.7	4354.9	4713.6	5262.4	5965.7	6920.8	8286.8	9023.4	9816.9
20°	4863.3	4433.3	4250.3	4297.9	4644.7	5243.4	6036.9	7253.4	8997.2	10071.1	10919.3
22.5°	5388.4	5129.4	4834.8	4737.4	4927.4	5554.7	6490.7	8039.8	10541.5	12159.4	13691.8
25°	5205.4	5426.4	5352.7	5214.9	5257.7	5778.0	6799.6	8686.0	11741.3	13563.5	15003.3
27.5°	4164.8	4566.3	4647.1	4644.7	4661.4	5089.0	6115.4	8251.2	11891.0	13832.0	15207.6
30°	2927.0	2962.6	3005.4	3088.6	3164.6	3547.1	4784.9	7243.9	11824.4	13953.2	15331.1
32.5°	2112.1	2159.6	2219.0	2333.1	2513.6	3000.7	4186.2	6923.1	12176.1	14454.5	15692.3
35°	1931.5	1986.2	2043.2	2173.9	2344.9	2796.3	3948.6	6790.1	12753.4	15267.0	16340.9
37.5°	1874.5	1936.3	1986.2	2081.2	2219.0	2649.0	3732.4	6699.8	13345.0	16127.0	17210.4
40°	1834.1	1905.4	1945.8	2021.8	2116.9	2513.6	3540.0	6628.5	13917.5	16913.4	17908.9
42.5°	1798.5	1872.1	1924.4	1979.1	2057.5	2392.4	3368.9	6557.3	14414.1	17676.1	18605.0
45°	1755.7	1848.4	1914.9	1957.7	2026.6	2290.3	3238.2	6500.2	14979.5	18353.2	19308.3
47.5°	1720.1	1822.3	1905.4	1955.3	1981.4	2219.0	3133.7	6578.6	15659.0	19061.2	19961.6
50°	1722.5	1819.9	1924.4	2002.8	1933.9	2159.6	3069.6	6889.9	16542.8	19902.2	20477.2
52.5°	1798.5	1917.3	2000.4	2019.4	1867.4	2088.3	3036.3	7433.9	17588.2	20645.8	20997.5
55°	1884.0	2007.6	2097.8	2086.0	1831.8	1998.1	3029.2	8013.6	18733.3	21513.0	21674.6
57.5°	1853.1	2033.7	2171.5	2109.7	1834.1	1910.2	2998.3	8481.7	19690.8	22161.6	22344.6
58°	1843.6	2024.2	2181.0	2105.0	1827.0	1884.0	2991.2	8522.1	19823.8	22206.8	22439.6
60°	1751.0	1941.0	2173.9	2069.3	1786.6	1812.7	2912.8	8652.7	19788.2	21973.9	22496.6
62.5°	1582.3	1739.1	2009.9	1895.9	1663.1	1717.7	2736.9	8491.2	18823.6	20852.5	21662.7
65°	1392.2	1508.6	1689.2	1667.8	1487.3	1620.3	2497.0	7852.1	16892.1	19032.7	19885.6
67.5°	1249.7	1344.7	1458.8	1427.9	1337.6	1489.6	2238.0	6771.1	14725.3	16846.9	17920.8
70°	1104.8	1178.4	1235.4	1214.0	1185.5	1361.3	2007.6	5495.3	12648.8	14770.5	15811.1
72.5°	957.5	1026.4	1073.9	1043.0	1026.4	1225.9	1819.9	4264.6	9990.3	12185.6	13523.1
75°	800.7	869.5	902.8	867.2	857.7	1081.0	1541.9	3186.0	7495.7	9394.0	10548.6
77.5°	620.1	693.7	736.5	724.6	729.4	888.6	1244.9	2181.0	5359.8	6402.8	7619.2
80°	434.8	515.6	544.1	532.2	565.4	677.1	879.1	1385.1	3696.8	4155.3	5013.0
82.5°	268.5	344.5	349.2	361.1	384.9	501.3	662.9	843.4	2321.2	2399.6	3022.0
85°	135.4	163.9	175.8	194.8	216.2	306.5	377.8	522.7	1494.4	1130.9	1689.2
87.5°	45.1	47.5	57.0	71.3	87.9	125.9	161.6	213.8	370.6	204.3	522.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6	9037.6
2.5°	10118.6	10320.5	10467.8	10603.3	10472.6	10460.7	10332.4	10125.7	10040.2	10040.2
5°	10714.9	11187.7	11570.2	11814.9	11710.4	11458.6	11042.8	10513.0	10227.9	10178.0
7.5°	10878.9	11812.6	12522.9	12774.8	12599.0	12043.0	11247.1	10353.8	9945.2	9854.9
10°	10779.1	11993.1	13036.1	13435.2	13190.5	12349.5	11263.7	10168.5	9664.8	9560.3
12.5°	10674.5	12016.9	13131.1	13708.5	13549.3	12596.6	11384.9	10047.3	9465.3	9315.6
15°	10750.6	12026.4	13014.7	13611.1	13713.2	12893.6	11584.5	10135.2	9424.9	9265.7
17.5°	11230.5	12206.9	12848.4	13330.7	13689.5	13297.4	12152.3	10555.8	9786.0	9588.8
20°	12233.1	12639.3	12943.4	13316.5	13893.8	14121.9	13314.1	11710.4	10800.5	10627.0
22.5°	15136.3	15062.7	14440.2	14433.1	15269.4	16184.1	16129.4	14057.7	12689.2	12546.7
25°	16224.4	15882.3	14981.9	14763.3	15131.6	16542.8	16338.5	14537.6	13273.7	12926.8
27.5°	15799.2	14951.0	14359.4	14309.5	14188.4	15521.2	16013.0	14732.4	13478.0	13140.6
30°	15773.0	14525.7	13680.0	13779.7	13896.1	15169.6	16193.6	15343.0	14000.7	13639.6
32.5°	15837.2	14585.1	13729.8	13748.8	14095.7	15221.9	16393.1	16008.3	14687.3	14326.2
35°	16096.2	14922.5	14048.2	14003.1	14544.7	15564.0	16732.9	17053.6	15625.7	15214.7
37.5°	16514.3	15594.9	14630.3	14618.4	15404.8	16181.7	17155.8	18108.5	16559.4	16117.5
40°	17129.6	16381.3	15666.1	15602.0	16573.7	17186.7	17704.6	19232.2	17645.2	17077.4
42.5°	17873.3	17324.5	17032.2	17286.4	18220.1	18315.2	18559.9	20270.5	18569.4	17908.9
45°	18562.3	18536.1	18942.4	19617.1	20161.2	19591.0	19453.2	20966.6	19286.9	18569.4
47.5°	19381.9	20089.9	21315.8	22304.2	22874.4	21075.9	20215.8	21420.4	19809.6	19149.1
50°	20213.4	21950.2	23907.8	25285.8	25407.0	22689.0	20740.9	21848.0	20284.7	19598.1
52.5°	21087.7	23435.1	26041.3	27642.6	27407.4	24093.2	21249.3	22137.9	20774.1	20170.7
55°	21848.0	24345.0	27234.0	28771.1	28426.6	24948.4	21798.1	22451.5	21472.6	20964.2
57.5°	22273.3	24421.0	26937.0	28279.3	27906.3	24782.1	22050.0	22684.3	21919.3	21520.1
58°	22335.0	24318.9	26673.3	27994.2	27614.1	24642.0	22047.6	22674.8	21947.8	21546.3
60°	22280.4	23656.0	25692.1	26868.1	26469.0	23762.9	21957.3	22496.6	21586.7	21246.9
62.5°	21774.4	22506.1	23998.1	24853.4	24739.4	22389.7	21586.7	21824.2	20486.7	20158.8
65°	21109.1	20938.1	21829.0	22434.8	22520.4	21361.0	21218.4	20370.2	19075.4	18612.1
67.5°	20301.4	19161.0	19158.6	19503.1	19645.6	19778.7	20451.0	18790.3	17041.7	16552.3
70°	18930.5	16421.6	15666.1	16072.4	15953.6	17077.4	19080.2	16571.3	14589.9	14017.3
72.5°	16416.9	13031.4	11822.1	12344.7	12045.4	13392.5	16694.9	13637.2	12064.4	11361.2
75°	13306.9	9748.0	8500.7	8980.6	8795.3	10159.0	13891.4	9904.8	8652.7	8384.3
77.5°	10332.4	7063.3	6338.7	6272.2	6410.0	7559.8	10189.9	6687.9	5704.3	5521.4
80°	6638.0	5055.7	5098.5	5013.0	5084.2	4765.9	6186.6	4267.0	3863.1	3715.8
82.5°	4369.1	3523.3	4200.4	3877.3	3682.5	3205.0	4057.9	2794.0	2371.1	2290.3
85°	2976.9	2594.4	2361.6	1805.6	2126.4	2468.5	3043.4	1503.9	1192.7	1081.0
87.5°	1344.7	902.8	662.9	408.6	646.2	746.0	1477.8	175.8	135.4	140.2
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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