

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: P647227

Luminaire Tested: **GALN-SA1D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5282.9 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

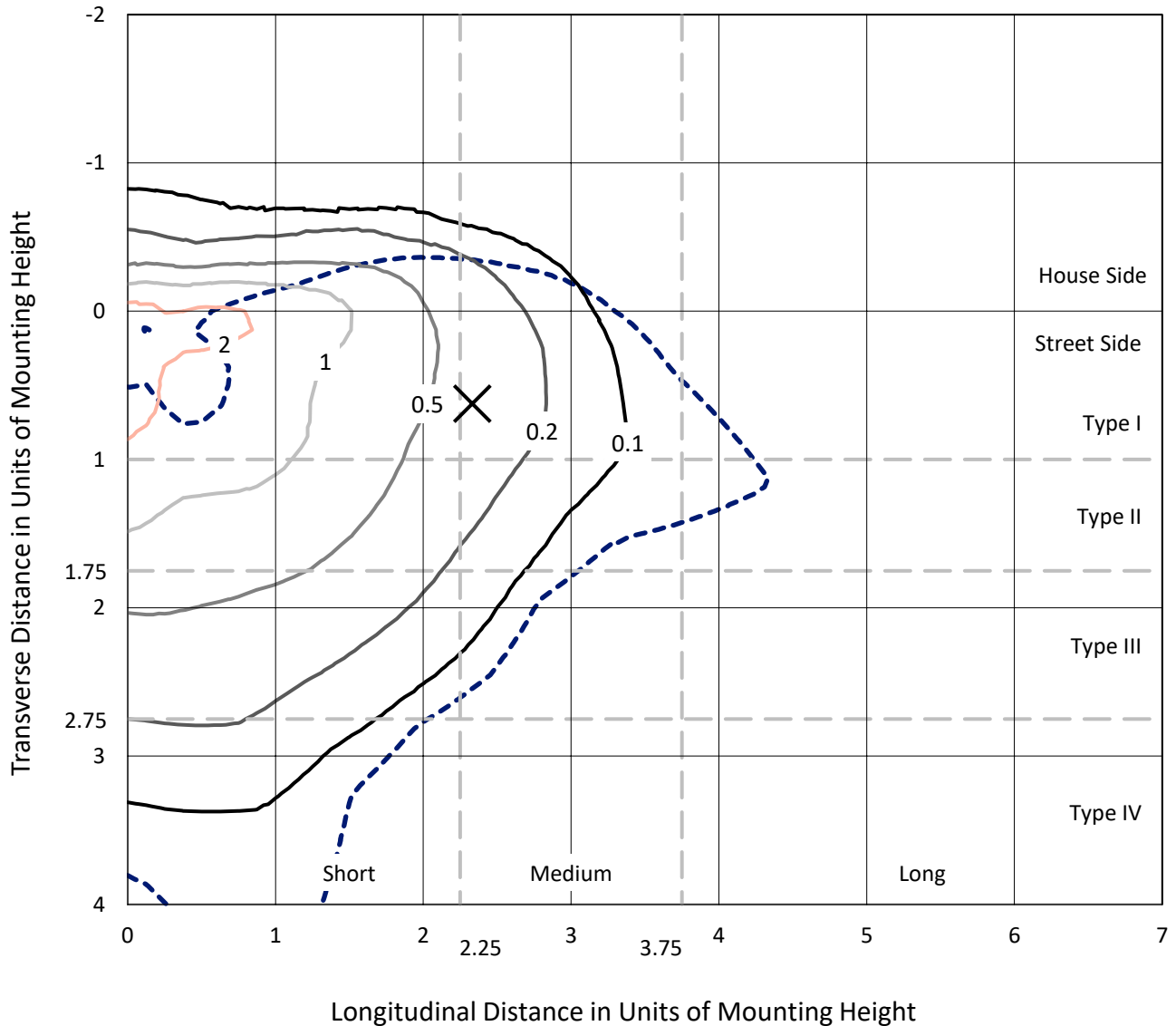
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

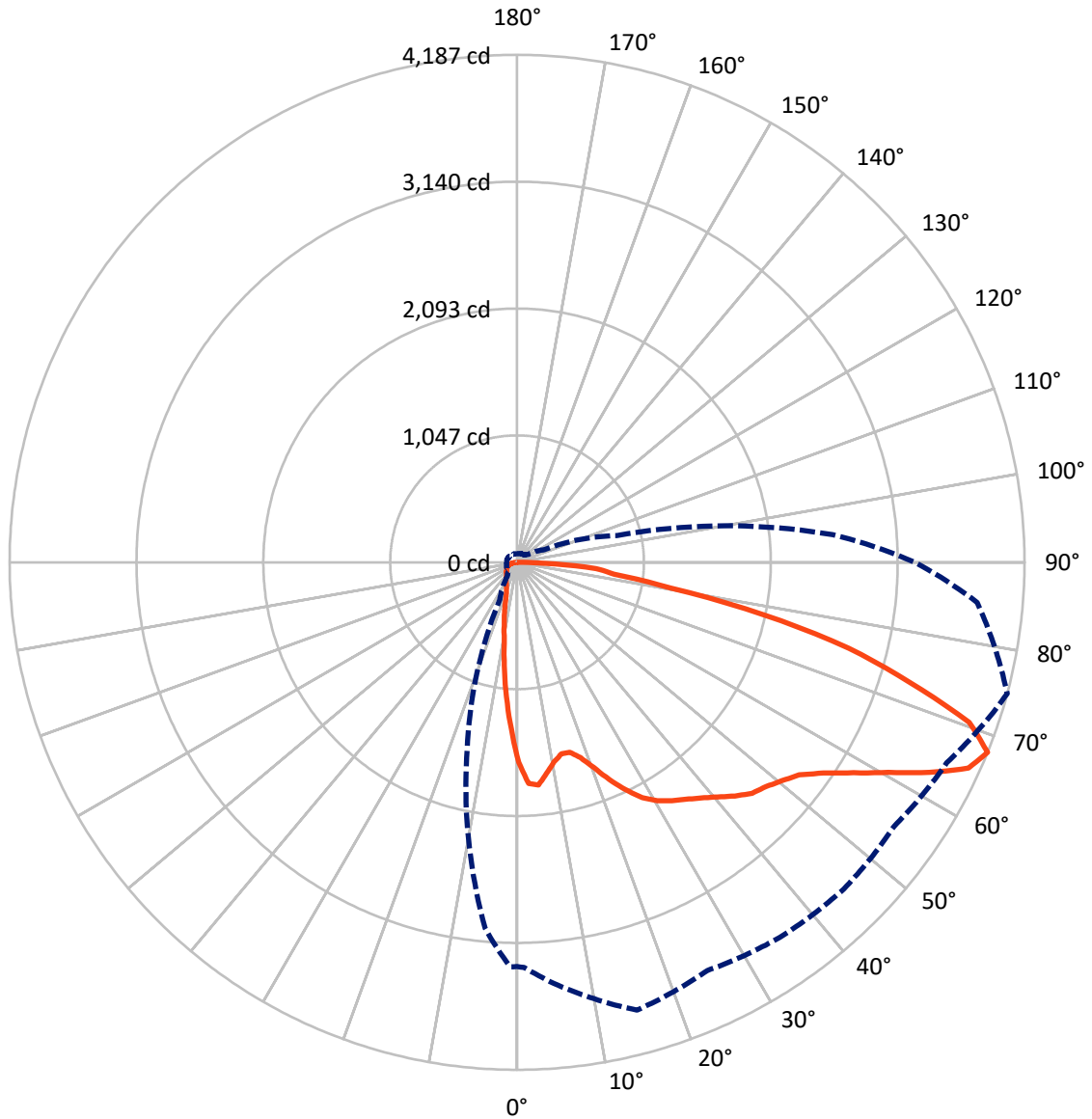
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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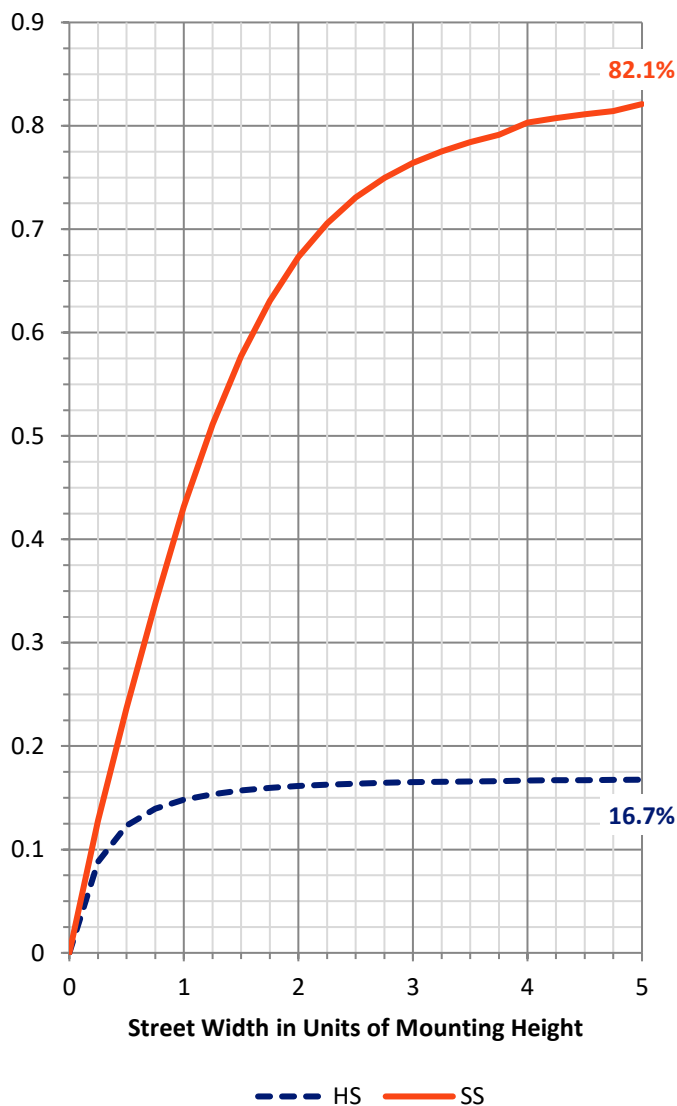
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	892.9	0.0	892.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4390.0	0.0	4390.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	5282.9	0.0	5282.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	2.4
10°-20°	261.1	4.9
20°-30°	375.7	7.1
30°-40°	541.1	10.2
40°-50°	760.1	14.4
50°-60°	1060.1	20.1
60°-70°	1260.4	23.9
70°-80°	742.3	14.1
80°-90°	157.0	3.0
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°	5282.9	100.0
0°-180°	5282.9	100.0

Coefficient of Utilization

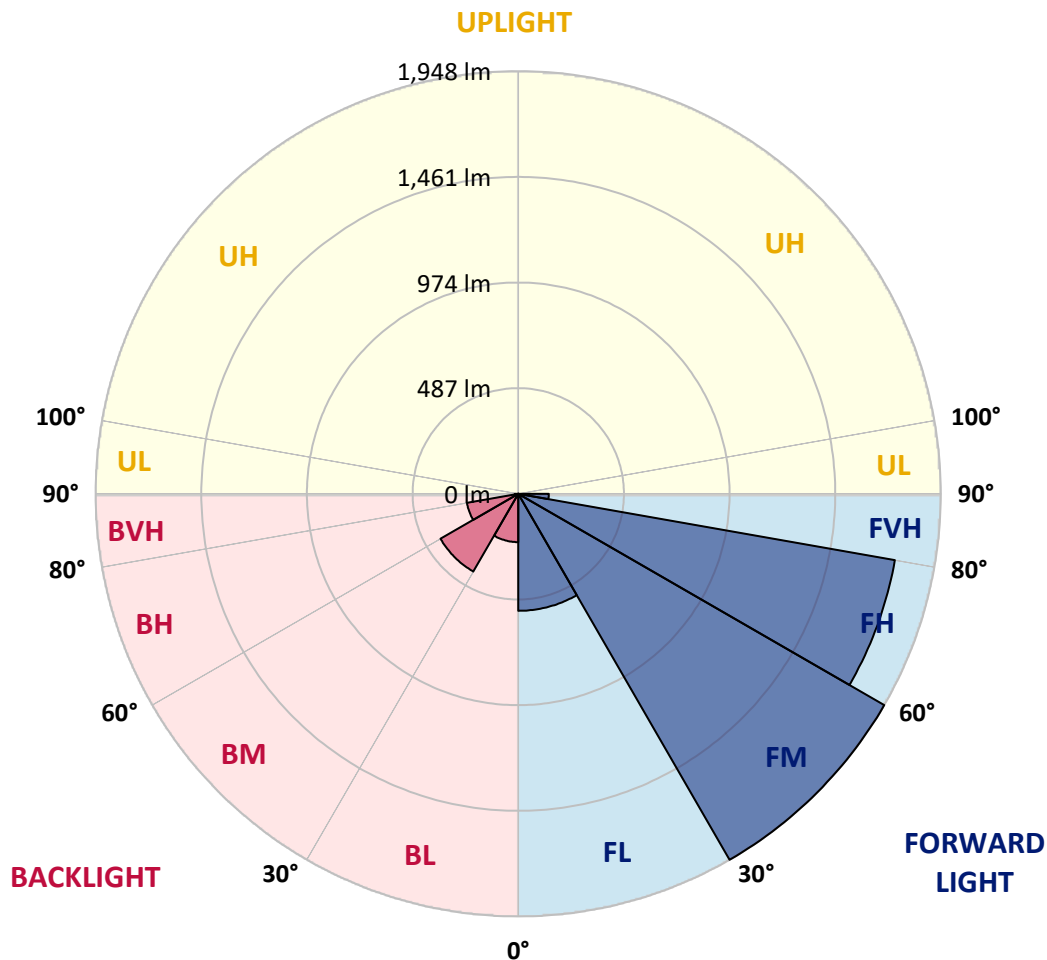


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	539.2	10.2			
FM (30°-60°)	1947.6	36.9			
FH (60°-80°)	1762.4	33.4			G1/1800
FVH (80°-90°)	140.7	2.7			G2/225
BL (0°-30°)	222.7	4.2	B1/500		
BM (30°-60°)	413.7	7.8	B1/1000		
BH (60°-80°)	240.3	4.5	B1/500		G1/500
BVH (80°-90°)	16.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1779.6	1782.0	1797.2	1841.5	1872.1	1883.3	1891.0	1876.5	1862.2	1827.7	1775.5
5°	1774.1	1788.1	1827.7	1927.3	2005.9	2039.7	2049.9	2006.2	1934.1	1845.3	1738.6
7.5°	1670.5	1689.1	1750.1	1917.1	2055.7	2134.9	2124.4	2045.5	1915.5	1757.2	1608.1
10°	1547.5	1568.2	1641.7	1843.6	2022.2	2131.2	2131.2	2035.0	1862.2	1674.2	1502.4
12.5°	1450.0	1471.6	1555.7	1768.1	1952.3	2055.7	2073.0	1990.3	1823.9	1621.7	1433.0
15°	1417.8	1438.8	1529.2	1722.3	1878.5	1941.5	1947.2	1920.2	1805.3	1625.4	1430.0
17.5°	1457.7	1484.9	1576.3	1735.9	1810.8	1814.4	1818.9	1840.2	1807.3	1693.6	1491.6
20°	1573.3	1602.4	1697.9	1779.6	1751.5	1712.8	1715.2	1770.1	1831.4	1806.0	1639.0
22.5°	1739.9	1765.4	1863.2	1856.5	1726.4	1646.8	1630.2	1706.7	1867.0	1946.2	1795.8
25°	1919.8	1949.7	2062.1	1970.7	1733.5	1607.5	1597.0	1669.5	1903.9	2077.4	1977.1
27.5°	2125.8	2155.0	2243.7	2085.8	1770.8	1604.4	1591.9	1666.1	1937.1	2198.7	2150.2
30°	2278.9	2305.7	2366.0	2182.7	1816.5	1624.7	1609.1	1692.8	1965.6	2281.7	2318.9
32.5°	2399.2	2427.0	2459.8	2243.0	1876.8	1661.7	1632.9	1741.6	2002.8	2345.0	2443.9
35°	2524.5	2557.4	2555.0	2296.5	1933.1	1704.4	1676.2	1812.1	2061.4	2400.2	2602.5
37.5°	2683.4	2696.7	2679.7	2344.6	2000.5	1781.2	1765.7	1916.8	2144.8	2466.9	2787.8
40°	2844.7	2871.1	2784.0	2402.9	2082.5	1925.9	1924.2	2071.6	2243.7	2545.2	2967.3
42.5°	2982.9	3005.2	2881.6	2453.8	2181.7	2102.4	2115.3	2279.2	2373.4	2636.0	3111.6
45°	3086.9	3106.9	2971.7	2502.9	2312.4	2306.4	2382.3	2501.8	2537.1	2717.6	3196.4
47.5°	3175.3	3194.6	3034.4	2577.4	2474.0	2549.9	2682.1	2733.9	2677.0	2764.4	3291.2
50°	3249.8	3255.6	3077.4	2666.1	2674.6	2848.4	2976.5	3010.0	2815.2	2831.5	3373.5
52.5°	3327.4	3320.0	3151.6	2777.9	2891.5	3131.6	3224.8	3259.7	2947.7	2914.1	3493.4
55°	3501.2	3508.3	3318.0	2918.9	3110.6	3409.7	3532.4	3498.8	3094.3	3066.2	3645.9
57.5°	3711.3	3705.2	3552.0	3139.4	3333.9	3668.6	3760.0	3706.2	3290.2	3275.3	3800.4
60°	3792.9	3801.1	3747.8	3376.5	3554.0	3895.2	3988.7	3905.1	3524.9	3518.2	3916.9
62.5°	3711.0	3756.7	3792.5	3587.6	3741.7	4061.9	4154.7	4059.2	3769.8	3819.0	3998.5
65°	3547.6	3557.5	3679.8	3766.5	3832.2	4089.3	4137.8	4086.9	3974.5	4093.1	3994.8
67.5°	3335.6	3344.0	3487.3	3825.1	3715.6	3777.7	3811.6	3796.6	3911.2	4186.9	3810.9
70°	3133.6	3126.9	3278.3	3675.7	3234.6	3140.5	3168.6	3121.8	3374.9	3957.5	3450.1
72.5°	2740.7	2765.1	2927.7	3260.3	2561.1	2408.0	2469.3	2348.4	2595.6	3389.5	2800.3
75°	2146.8	2152.5	2423.9	2736.3	1932.1	1690.5	1773.5	1723.0	1988.3	2827.4	1933.7
77.5°	1486.5	1473.7	1765.4	2089.9	1377.8	1237.5	1238.9	1214.8	1388.3	2081.8	1313.8
80°	944.1	924.5	1105.0	1291.1	946.9	1013.0	979.8	978.8	903.8	1284.3	794.4
82.5°	510.2	531.9	698.2	809.3	679.3	782.9	717.5	696.6	620.3	803.9	508.2
85°	232.4	252.8	372.3	550.5	515.9	521.7	348.6	411.2	513.3	652.8	271.4
87.5°	22.7	29.1	76.9	259.9	176.2	138.9	51.8	99.9	129.0	232.1	21.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1754.2	1736.5	1676.6	1627.2	1574.6	1534.7	1482.5	1447.6	1423.5	1387.2	1382.9
5°	1673.5	1630.5	1526.1	1419.8	1328.0	1258.9	1188.8	1124.4	1086.4	1074.6	1059.3
7.5°	1537.7	1465.2	1331.0	1209.1	1103.7	1000.8	921.4	865.2	827.6	805.6	779.2
10°	1425.9	1341.9	1178.6	1029.2	942.5	878.4	808.7	748.3	702.0	662.3	640.7
12.5°	1350.7	1255.9	1072.2	951.0	883.9	815.7	734.1	666.3	597.9	552.9	533.5
15°	1328.0	1227.7	1039.4	912.0	815.7	726.7	635.2	546.8	479.0	436.4	422.1
17.5°	1383.6	1262.3	1039.0	860.1	735.8	629.5	512.2	429.2	359.8	327.9	317.7
20°	1487.2	1328.7	1042.1	809.0	649.1	499.3	372.6	304.6	271.4	257.8	252.8
22.5°	1631.9	1430.0	1051.2	758.5	554.2	383.5	279.1	244.6	232.7	230.4	229.3
25°	1810.1	1555.3	1082.0	713.2	474.3	292.7	233.4	217.8	211.0	208.7	208.4
27.5°	1974.0	1717.3	1119.3	674.2	397.1	252.4	211.0	197.9	191.1	190.7	191.4
30°	2122.1	1852.7	1150.5	630.5	338.4	224.3	196.5	183.3	176.8	176.5	178.5
32.5°	2250.1	1964.2	1173.5	587.4	305.9	207.0	183.3	169.0	163.6	162.6	163.6
35°	2387.0	2075.3	1163.0	553.9	287.3	192.8	173.4	159.6	153.2	150.1	150.1
37.5°	2543.2	2189.8	1145.1	526.1	278.8	180.9	165.0	151.4	145.0	142.0	141.6
40°	2713.6	2304.4	1120.3	501.4	270.4	173.8	159.3	145.0	137.2	134.1	133.5
42.5°	2864.0	2402.2	1100.0	485.1	256.4	175.2	154.2	140.2	130.4	126.4	126.0
45°	2994.7	2500.8	1096.3	475.7	244.9	173.1	152.8	136.6	125.0	120.6	120.0
47.5°	3097.1	2603.5	1117.6	470.2	232.4	162.2	161.6	134.1	120.3	115.5	114.9
50°	3221.7	2749.1	1166.4	459.1	220.9	152.1	170.8	133.8	116.5	110.4	108.8
52.5°	3387.7	2938.8	1232.4	439.0	204.3	142.7	162.9	133.8	112.1	106.0	104.0
55°	3638.8	3180.8	1297.2	410.9	180.9	130.1	147.0	129.7	105.7	100.3	98.9
57.5°	3805.1	3357.6	1338.5	372.0	151.7	121.0	126.7	123.3	99.3	93.5	93.5
60°	3813.6	3405.0	1318.8	322.8	133.5	112.4	110.1	124.3	93.5	87.4	86.8
62.5°	3716.0	3288.8	1216.5	278.8	123.6	103.4	99.6	109.1	87.8	81.7	80.6
65°	3563.6	2992.4	1039.0	257.8	118.2	95.2	89.8	89.4	81.7	75.9	74.5
67.5°	3283.4	2615.0	853.7	245.6	115.5	86.1	81.0	79.2	74.5	69.8	69.1
70°	2870.4	2190.2	684.7	240.5	114.2	76.6	72.5	70.5	66.4	62.6	62.3
72.5°	2233.2	1776.5	565.1	237.2	113.5	67.7	63.3	60.6	58.3	54.9	54.9
75°	1604.1	1307.0	431.3	213.8	105.0	58.3	53.6	51.8	48.5	45.7	46.4
77.5°	1011.2	880.2	283.9	157.2	81.3	46.7	42.7	41.7	39.0	35.2	37.6
80°	682.9	619.0	165.7	98.9	51.1	34.2	32.9	32.5	29.4	25.4	25.8
82.5°	464.8	456.0	86.1	56.2	29.4	20.0	19.3	20.0	16.6	13.5	13.5
85°	181.6	248.0	40.6	22.0	9.5	3.1	4.4	4.8	2.7	1.3	1.7
87.5°	3.4	25.4	1.0	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°	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1376.1	1373.1	1378.2	1356.5	1360.9	1369.0	1373.1	1375.4	1408.9	1401.2	1422.5
5°	1073.6	1070.5	1090.2	1092.9	1103.0	1101.0	1110.8	1113.2	1125.4	1129.8	1159.6
7.5°	780.9	794.1	816.4	827.9	845.2	850.7	845.6	858.1	832.7	851.0	856.4
10°	627.4	611.5	602.0	628.4	631.8	656.9	646.7	638.6	653.5	654.2	668.4
12.5°	522.4	488.2	465.5	472.9	481.1	491.9	493.6	509.9	520.7	530.9	539.3
15°	409.6	397.7	377.1	366.9	378.4	382.8	393.3	406.8	418.4	421.4	432.9
17.5°	314.4	316.4	313.0	306.9	314.1	317.4	318.1	318.4	321.5	319.5	336.4
20°	253.1	260.2	268.6	270.0	272.4	274.0	271.0	259.5	259.9	266.9	272.4
22.5°	229.0	230.4	239.8	242.9	250.3	247.3	238.5	233.1	232.4	234.1	236.8
25°	210.0	212.0	218.8	223.6	229.3	223.9	217.5	212.4	211.7	213.4	216.1
27.5°	193.1	196.1	202.2	207.0	212.4	207.3	201.2	196.8	196.5	196.1	197.9
30°	179.5	182.9	187.4	192.8	196.5	192.1	186.4	183.9	183.6	182.9	183.6
32.5°	166.0	171.4	175.9	178.5	182.3	178.8	174.5	173.1	170.8	168.7	167.7
35°	150.7	156.5	163.3	166.7	170.4	167.0	164.0	158.2	154.2	153.8	154.5
37.5°	142.0	144.3	149.7	155.5	159.3	157.5	151.7	146.0	145.0	145.0	145.6
40°	134.1	135.1	137.6	145.0	151.7	146.7	139.6	137.9	137.9	137.6	137.9
42.5°	126.4	127.4	127.4	133.1	144.0	135.9	130.4	130.4	130.4	130.8	131.8
45°	119.3	119.6	119.3	123.3	133.5	126.7	123.0	124.0	124.7	125.4	126.0
47.5°	113.1	113.5	113.1	116.5	121.6	118.9	116.9	118.2	119.6	120.6	121.3
50°	107.7	107.4	108.1	110.1	112.4	113.1	111.8	113.8	114.5	115.9	117.5
52.5°	103.0	102.7	103.4	104.4	107.7	107.7	107.7	109.4	110.8	112.1	114.5
55°	97.6	97.9	98.9	100.3	104.7	104.0	104.4	105.7	107.0	109.1	110.4
57.5°	92.5	93.2	94.5	96.5	100.9	100.6	100.9	101.6	103.4	104.4	105.7
60°	86.8	88.1	89.8	91.1	95.5	95.2	96.9	98.3	99.3	99.3	99.9
62.5°	81.0	83.0	84.7	85.7	90.4	90.8	93.2	94.2	94.8	94.2	95.2
65°	75.2	78.2	78.9	80.3	85.0	85.3	88.1	90.4	89.8	89.1	90.8
67.5°	69.5	73.2	72.8	74.5	79.2	79.9	82.3	86.4	85.0	84.3	85.7
70°	63.0	65.7	66.1	67.1	73.5	72.5	76.2	79.9	78.9	79.2	79.2
72.5°	55.9	58.3	58.3	60.3	67.1	65.4	68.4	72.5	72.5	72.2	72.2
75°	47.4	48.8	50.1	53.2	60.3	58.3	60.3	64.0	64.7	64.0	64.0
77.5°	38.3	40.3	41.0	45.0	50.1	49.8	51.8	53.6	54.9	54.2	54.2
80°	27.1	29.1	31.9	36.3	39.3	40.3	41.3	42.7	43.4	43.4	44.0
82.5°	15.3	18.3	20.7	25.1	26.4	31.5	31.2	32.2	31.2	27.4	30.5
85°	3.4	6.4	9.2	11.5	13.2	18.3	19.3	21.7	17.9	16.6	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	5.4	7.4	6.4	5.4	5.4
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°	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1440.5	1469.9	1505.5	1566.9	1609.8	1656.3	1703.0	1752.8	1766.1	1779.6
5°	1167.8	1225.7	1257.2	1339.5	1425.9	1535.7	1625.4	1723.7	1764.6	1774.1
7.5°	884.6	923.9	1006.5	1089.9	1196.9	1312.1	1449.6	1602.7	1650.5	1670.5
10°	701.3	754.8	827.3	916.7	1010.5	1134.6	1289.7	1468.6	1536.3	1547.5
12.5°	596.9	656.5	735.5	830.0	918.8	1012.3	1168.8	1353.4	1425.9	1450.0
15°	477.3	549.5	640.7	740.2	836.8	939.1	1097.6	1306.0	1389.7	1417.8
17.5°	375.1	433.3	531.9	639.9	754.4	883.9	1082.7	1328.7	1431.6	1457.7
20°	287.0	328.6	411.6	525.8	659.9	829.4	1086.4	1414.4	1537.7	1573.3
22.5°	248.0	269.4	319.8	428.5	578.6	781.9	1101.7	1531.9	1680.6	1739.9
25°	224.6	235.8	264.3	335.4	501.0	735.8	1136.6	1690.1	1880.5	1919.8
27.5°	204.6	212.7	230.4	281.5	430.6	693.1	1177.2	1865.7	2067.2	2125.8
30°	185.6	196.5	213.1	250.0	385.5	654.2	1228.4	2007.9	2224.3	2278.9
32.5°	171.1	181.9	197.2	228.0	347.3	613.2	1258.9	2132.9	2352.8	2399.2
35°	159.3	168.3	184.3	210.4	318.1	582.0	1252.8	2232.2	2477.1	2524.5
37.5°	150.7	158.6	174.5	193.8	296.1	549.5	1249.7	2363.3	2628.5	2683.4
40°	143.0	151.1	165.7	182.9	274.0	511.2	1251.4	2493.4	2789.8	2844.7
42.5°	136.9	146.0	157.9	179.9	251.3	480.4	1251.4	2606.5	2930.1	2982.9
45°	131.8	141.6	153.2	179.5	233.4	457.0	1242.9	2703.8	3041.9	3086.9
47.5°	127.4	138.2	154.8	173.4	229.0	440.0	1235.5	2781.7	3132.9	3175.3
50°	124.3	137.2	164.7	166.3	230.4	435.0	1271.4	2879.9	3213.3	3249.8
52.5°	122.0	137.6	164.3	155.8	228.0	438.4	1346.3	3033.3	3324.7	3327.4
55°	117.2	137.2	155.8	144.0	218.1	444.1	1442.5	3256.3	3499.2	3501.2
57.5°	112.4	133.5	144.6	133.8	198.2	444.1	1558.3	3467.4	3709.5	3711.3
60°	107.7	138.9	127.0	125.0	172.1	436.0	1680.6	3560.1	3775.6	3792.9
62.5°	103.0	139.9	113.5	117.2	153.2	416.3	1771.8	3457.5	3686.2	3711.0
65°	97.6	112.8	104.7	109.1	143.3	383.5	1743.0	3269.5	3518.2	3547.6
67.5°	91.1	95.5	95.2	100.6	139.9	335.0	1591.2	3031.7	3337.2	3335.6
70°	83.3	85.7	86.8	92.5	133.5	297.5	1325.9	2723.0	3095.7	3133.6
72.5°	75.2	77.2	78.2	83.3	127.0	276.1	1029.2	2297.9	2681.4	2740.7
75°	66.4	67.7	69.1	73.5	120.3	244.6	733.1	1754.2	2053.7	2146.8
77.5°	57.2	57.2	59.0	63.3	101.3	201.9	491.9	1230.4	1391.3	1486.5
80°	46.4	46.7	46.0	50.8	74.5	138.2	279.5	821.8	925.9	944.1
82.5°	35.5	34.5	34.9	37.3	55.6	94.2	149.1	510.5	520.4	510.2
85°	22.4	22.4	21.7	24.4	35.5	49.1	81.3	312.7	244.2	232.4
87.5°	9.2	7.4	8.5	9.8	16.9	20.0	31.9	64.4	24.7	22.7
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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