

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: P451075

Luminaire Tested: **GALN-SA1D-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451075
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-SA1D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5362 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
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

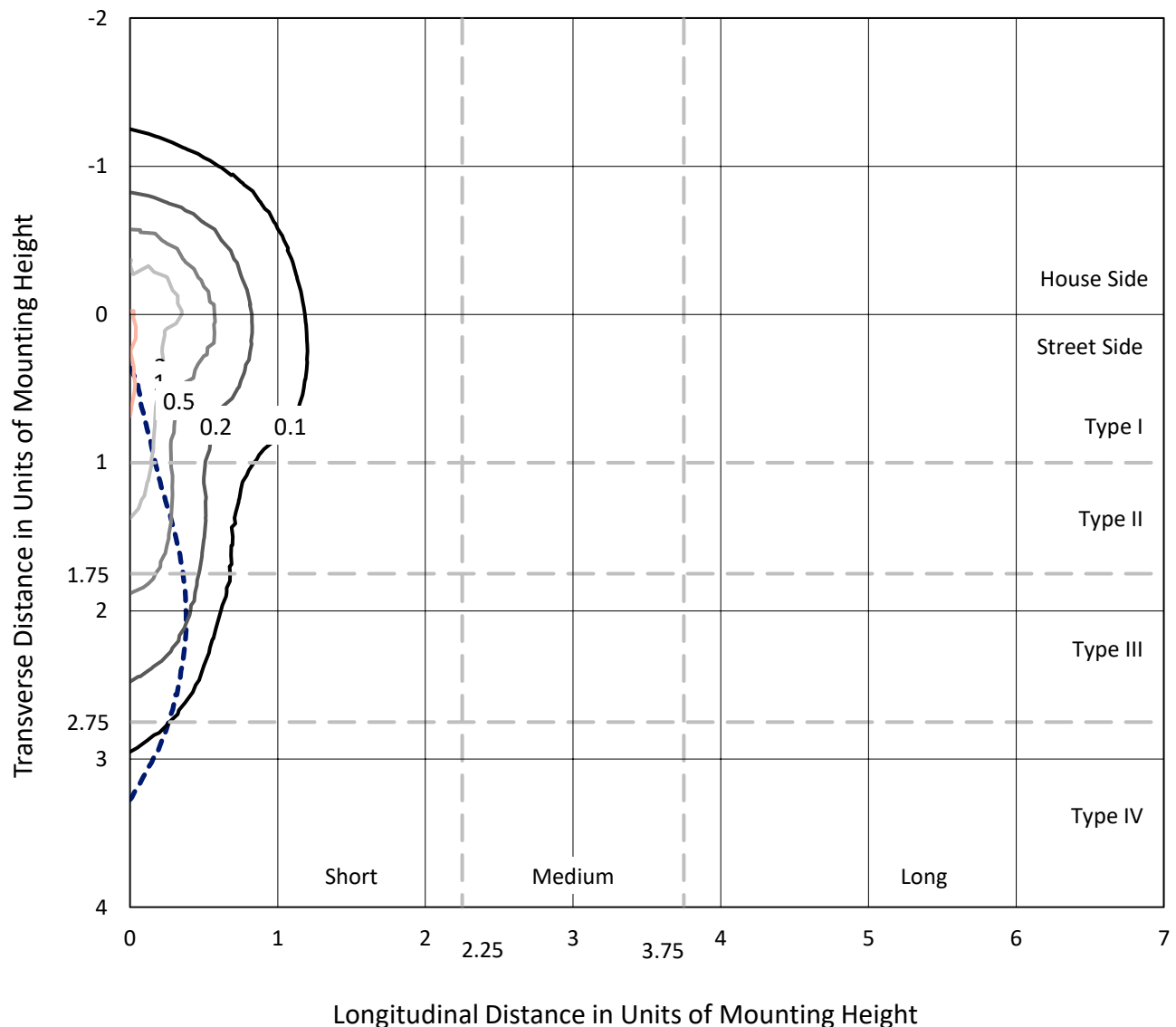


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

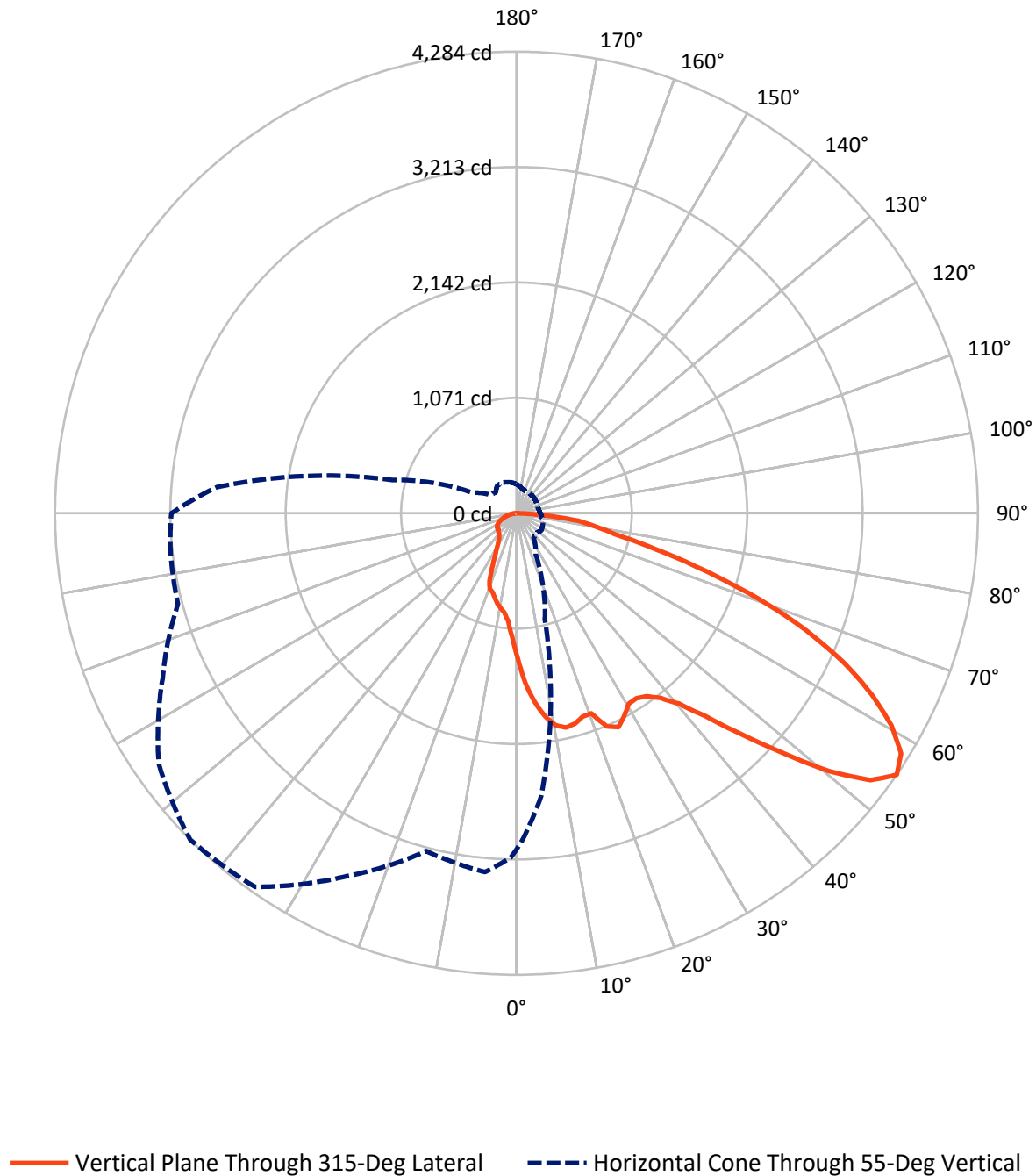


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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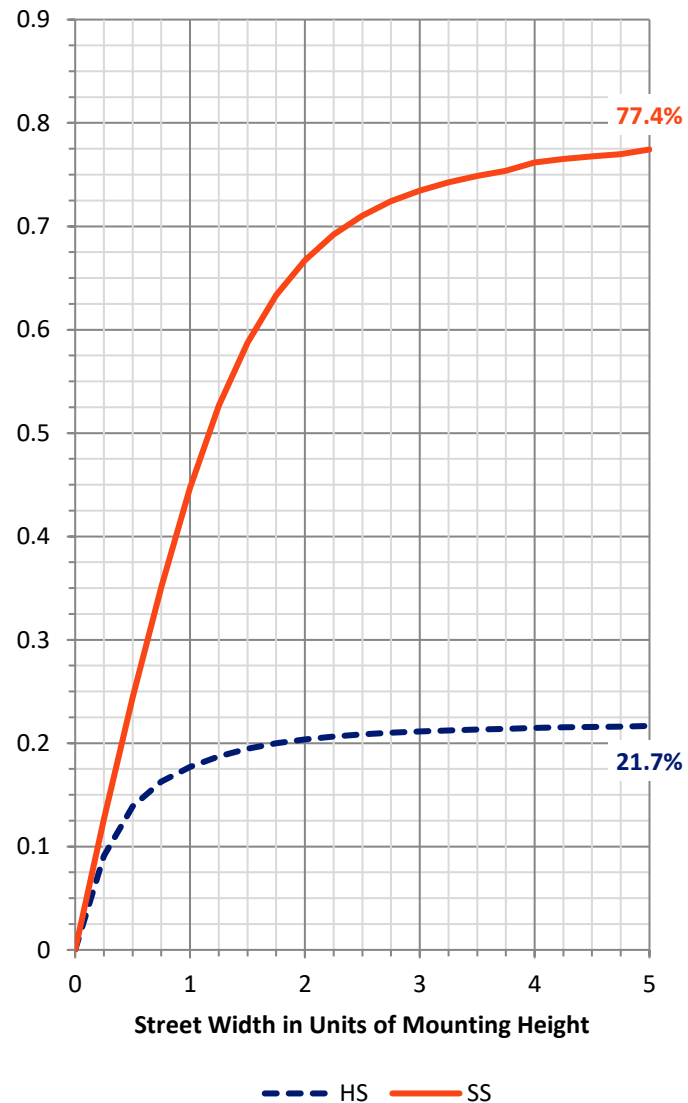
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1172.9	0.0	1172.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4189.1	0.0	4189.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	5362.0	0.0	5362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	2.1
10°-20°	302.6	5.6
20°-30°	522.7	9.7
30°-40°	607.5	11.3
40°-50°	847.5	15.8
50°-60°	1150.0	21.4
60°-70°	1094.1	20.4
70°-80°	591.1	11.0
80°-90°	132.5	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°	5362.0	100.0
0°-180°	5362.0	100.0

Coefficient of Utilization



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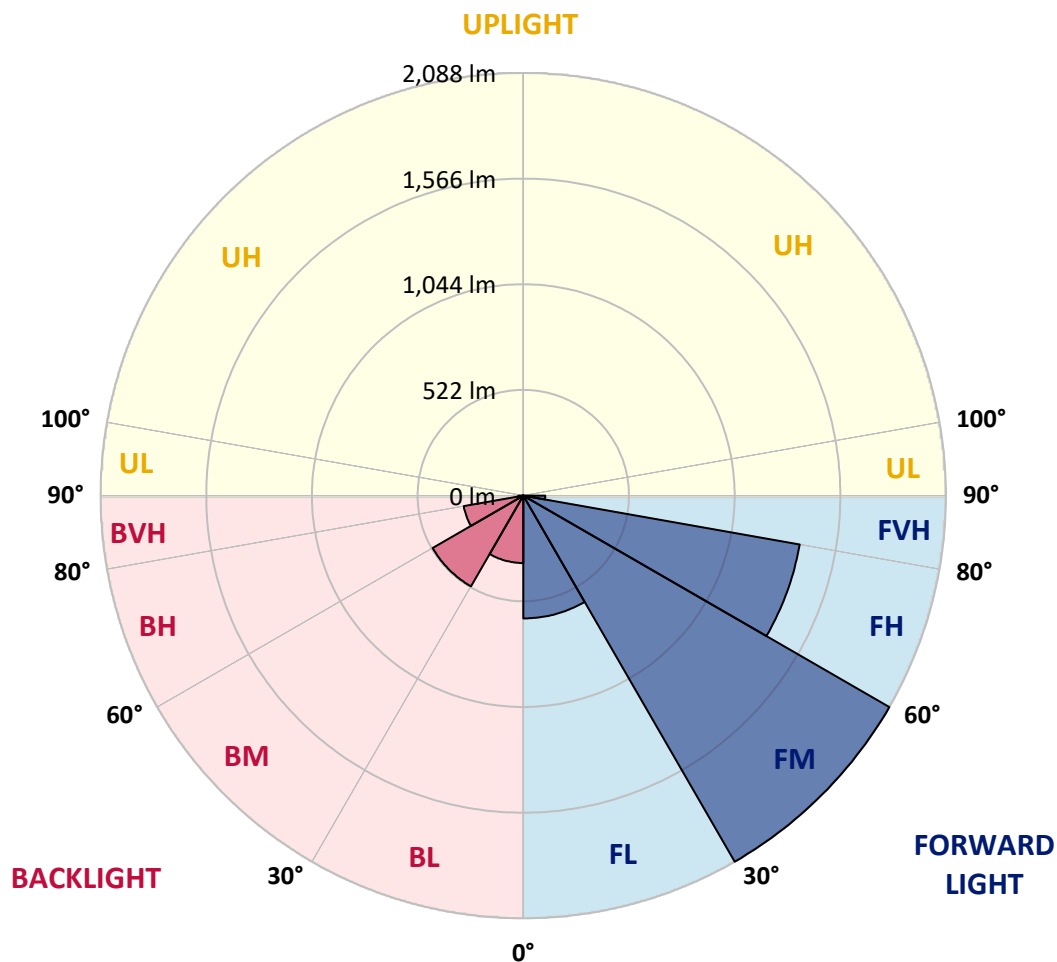
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.5	11.3			
FM	(30°-60°)	2087.9	38.9			
FH	(60°-80°)	1386.5	25.9			G1/1800
FVH	(80°-90°)	108.3	2.0			G2/225
BL	(0°-30°)	332.9	6.2	B1/500		
BM	(30°-60°)	517.2	9.6	B1/1000		
BH	(60°-80°)	298.7	5.6	B1/500		G1/500
BVH	(80°-90°)	24.2	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1494.9	1489.3	1473.4	1431.6	1389.5	1346.7	1313.8	1272.8	1230.0	1207.0	1177.6
5°	1515.5	1509.1	1471.6	1377.5	1292.2	1202.7	1131.3	1068.7	1043.2	1005.7	975.6
7.5°	1467.3	1464.5	1408.3	1273.1	1156.4	1039.3	958.3	908.1	862.4	845.5	849.0
10°	1423.5	1412.2	1341.8	1165.2	1029.0	933.9	875.9	826.7	794.5	786.0	787.8
12.5°	1387.0	1371.8	1288.7	1092.7	973.5	897.5	823.5	772.2	742.9	751.0	778.6
15°	1379.6	1359.1	1266.4	1068.0	943.1	845.1	764.1	705.0	683.1	700.8	745.0
17.5°	1427.7	1401.9	1304.6	1076.1	914.1	791.7	692.3	624.7	606.3	634.6	692.3
20°	1582.3	1544.1	1423.8	1123.1	911.3	765.2	650.5	582.6	590.4	644.2	704.3
22.5°	1868.1	1810.8	1632.5	1191.8	926.1	758.4	642.1	606.7	649.5	695.1	734.7
25°	1924.7	1879.8	1670.0	1207.3	922.9	753.8	666.1	683.8	731.5	754.2	740.4
27.5°	1956.6	1905.3	1667.6	1130.2	825.3	683.8	636.7	666.1	678.1	656.2	618.7
30°	2030.9	1977.4	1709.7	1049.2	679.5	507.3	444.7	432.6	440.8	445.0	431.6
32.5°	2133.1	2080.4	1788.9	996.2	587.6	419.5	358.0	341.0	337.1	332.5	327.2
35°	2265.4	2184.4	1866.7	962.2	549.7	388.1	331.5	318.4	313.1	306.7	301.0
37.5°	2399.8	2314.9	1965.1	926.5	524.6	366.1	313.8	307.8	298.6	291.8	283.7
40°	2542.7	2447.6	2054.6	895.3	500.2	352.0	301.0	300.3	288.3	280.5	271.0
42.5°	2666.5	2568.6	2134.5	876.2	481.4	337.1	293.3	295.4	283.0	271.3	258.9
45°	2764.9	2668.7	2208.4	876.2	466.2	322.3	291.8	290.4	278.0	263.5	249.4
47.5°	2851.2	2751.8	2280.6	898.5	456.7	309.9	284.1	286.5	273.8	255.4	241.6
50°	2918.1	2830.3	2377.9	933.2	447.1	300.0	274.2	287.6	270.3	251.2	235.2
52.5°	3003.3	2924.8	2495.0	980.6	439.0	289.0	265.3	287.6	269.9	251.5	234.2
55°	3121.5	3038.7	2636.1	1019.9	425.9	278.8	257.5	279.5	268.8	249.7	231.4
57.5°	3204.2	3142.3	2735.9	1046.0	407.2	265.7	250.5	271.7	264.2	243.0	222.9
58°	3208.1	3147.6	2750.4	1052.0	402.6	263.2	248.7	268.1	262.1	240.2	220.0
60°	3163.6	3111.6	2753.2	1043.6	376.4	250.8	239.5	253.6	250.8	223.6	204.8
62.5°	3001.5	2946.0	2639.0	974.6	341.7	235.6	225.3	234.2	227.8	200.2	182.9
65°	2771.3	2669.0	2404.1	866.3	317.0	219.3	206.2	206.9	200.2	180.4	165.2
67.5°	2464.6	2350.3	2035.5	730.1	298.2	201.3	183.6	181.8	173.7	161.0	148.6
70°	2087.1	2008.9	1654.1	593.9	277.3	181.5	158.1	157.1	152.1	142.6	131.6
72.5°	1691.6	1592.2	1335.7	475.4	251.9	162.4	134.4	136.5	130.2	123.5	113.6
75°	1248.4	1183.3	1032.6	381.3	217.6	141.5	112.1	112.8	110.0	102.9	95.2
77.5°	822.1	802.7	738.6	250.5	167.3	112.5	91.6	92.3	90.2	83.8	75.7
80°	553.3	540.2	500.6	161.3	111.8	81.4	70.7	71.5	71.1	64.4	53.4
82.5°	341.0	335.4	322.6	109.0	77.5	58.4	46.7	48.8	52.7	45.3	36.4
85°	161.0	161.3	194.9	59.4	45.6	37.5	25.5	27.2	27.2	27.2	20.5
87.5°	20.9	21.9	26.9	25.1	16.6	14.1	9.2	7.8	6.7	8.8	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1167.4	1160.3	1145.1	1141.5	1139.4	1145.4	1129.5	1133.8	1126.7	1146.5	1143.3
5°	977.4	978.1	990.5	998.6	1001.5	998.6	988.0	969.6	955.5	949.8	951.2
7.5°	842.3	854.7	875.9	899.6	921.2	927.5	921.5	886.5	848.3	824.2	816.4
10°	797.3	814.0	838.4	857.1	876.2	891.4	894.6	867.4	822.1	765.2	742.9
12.5°	799.8	822.5	845.8	851.8	850.1	856.1	853.2	848.6	818.9	746.4	709.3
15°	776.5	803.4	819.6	816.4	810.8	805.5	798.1	786.4	775.8	724.8	683.8
17.5°	722.7	750.3	763.7	764.8	764.8	763.4	745.3	741.1	739.7	714.9	689.8
20°	732.6	747.8	741.8	731.9	734.7	744.3	733.7	731.5	739.7	750.7	746.1
22.5°	738.3	733.0	687.7	643.8	633.9	663.6	669.6	693.3	726.2	765.9	791.7
25°	703.2	660.4	579.4	529.9	502.0	529.6	565.6	609.5	658.7	709.6	739.7
27.5°	587.9	555.4	497.4	452.8	428.4	432.6	463.4	503.4	549.0	583.3	605.3
30°	442.9	428.4	398.3	383.1	368.3	364.7	377.8	393.0	413.2	417.4	423.1
32.5°	326.2	324.0	325.8	320.8	318.0	317.7	313.8	317.3	319.4	321.9	317.0
35°	295.0	292.2	287.2	285.8	284.1	284.8	283.0	281.2	282.6	284.8	286.2
37.5°	279.1	274.9	267.8	265.3	265.3	266.4	263.5	262.8	265.3	272.0	275.6
40°	266.7	261.8	253.6	250.5	252.6	255.4	251.5	250.1	256.1	263.2	268.8
42.5°	255.1	251.2	243.4	239.8	241.6	246.9	241.3	240.2	248.0	255.8	262.5
45°	245.1	241.3	234.2	232.4	233.1	238.1	234.2	234.2	241.6	250.1	256.1
47.5°	237.4	232.4	227.8	226.4	227.1	229.9	229.2	229.2	236.3	245.1	251.2
50°	229.6	225.3	219.3	220.0	221.8	225.7	225.3	226.4	233.5	244.4	250.8
52.5°	226.0	219.7	213.0	213.7	219.0	223.6	222.2	223.2	231.4	251.9	261.1
55°	222.2	213.7	205.9	206.9	213.0	219.7	217.9	219.3	228.9	256.8	269.6
57.5°	214.7	204.8	196.3	197.0	205.9	213.0	210.1	211.9	223.2	251.5	265.0
58°	211.5	203.1	194.9	195.3	203.8	211.5	208.4	209.8	221.4	250.1	262.8
60°	198.1	193.1	186.1	186.4	194.6	201.3	199.5	200.9	212.2	239.8	249.4
62.5°	179.7	176.9	175.1	175.1	180.1	186.4	188.2	190.0	200.2	216.8	225.3
65°	159.9	159.9	160.2	160.2	163.4	171.6	172.6	177.2	186.8	194.9	201.3
67.5°	146.5	145.7	146.5	144.7	146.1	151.0	156.4	160.6	170.5	176.2	178.3
70°	129.1	128.8	129.1	126.6	128.4	132.7	136.2	143.3	153.5	157.8	158.8
72.5°	112.1	112.1	112.8	111.1	111.1	115.7	118.2	125.9	135.5	138.0	138.3
75°	94.5	95.5	95.5	93.0	93.7	96.6	99.8	106.1	115.0	116.7	116.7
77.5°	75.0	78.9	78.9	76.4	77.5	77.8	82.1	85.3	92.0	92.7	89.9
80°	54.5	58.4	61.6	59.4	61.2	59.1	61.6	63.7	70.4	67.2	62.6
82.5°	38.9	41.7	44.2	44.6	42.8	38.9	42.1	42.4	45.6	41.4	38.9
85°	21.6	24.1	27.2	25.8	23.0	20.5	21.6	22.3	21.9	20.9	19.5
87.5°	5.7	6.0	6.7	5.0	4.6	3.9	5.3	5.3	6.0	6.4	6.0
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°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1145.8	1161.4	1195.0	1220.4	1251.6	1289.4	1334.0	1378.9	1427.4	1442.6	1463.8
5°	948.0	987.0	1003.2	1049.6	1095.6	1164.5	1238.1	1323.4	1416.8	1461.7	1504.8
7.5°	810.1	831.0	847.9	881.9	937.1	1020.9	1113.2	1219.7	1352.0	1417.5	1480.8
10°	735.8	737.9	758.8	800.9	849.0	922.9	1010.3	1129.5	1277.0	1356.6	1430.9
12.5°	686.6	677.4	700.1	743.9	798.4	866.7	947.0	1060.5	1222.9	1304.6	1394.5
15°	643.5	629.0	645.9	690.9	744.6	824.9	911.3	1031.5	1201.7	1296.8	1396.6
17.5°	644.5	604.6	610.6	648.4	701.8	783.5	888.3	1030.5	1233.9	1343.5	1461.7
20°	724.1	660.1	632.9	639.9	691.6	780.7	898.9	1080.0	1339.6	1499.5	1625.8
22.5°	802.3	763.7	719.9	705.4	733.7	827.1	966.4	1197.1	1569.6	1810.5	2038.6
25°	775.1	808.0	797.0	776.5	782.8	860.3	1012.4	1293.3	1748.2	2019.5	2233.9
27.5°	620.1	679.9	691.9	691.6	694.1	757.7	910.5	1228.6	1770.5	2059.5	2264.3
30°	435.8	441.1	447.5	459.9	471.2	528.1	712.4	1078.6	1760.6	2077.6	2282.7
32.5°	314.5	321.6	330.4	347.4	374.3	446.8	623.3	1030.8	1813.0	2152.2	2336.5
35°	287.6	295.7	304.2	323.7	349.1	416.4	587.9	1011.0	1898.9	2273.2	2433.1
37.5°	279.1	288.3	295.7	309.9	330.4	394.4	555.7	997.6	1987.0	2401.2	2562.5
40°	273.1	283.7	289.7	301.0	315.2	374.3	527.1	987.0	2072.2	2518.3	2666.5
42.5°	267.8	278.8	286.5	294.7	306.3	356.2	501.6	976.3	2146.2	2631.9	2770.2
45°	261.4	275.2	285.1	291.5	301.7	341.0	482.2	967.9	2230.4	2732.7	2874.9
47.5°	256.1	271.3	283.7	291.1	295.0	330.4	466.6	979.5	2331.5	2838.1	2972.2
50°	256.5	271.0	286.5	298.2	287.9	321.6	457.0	1025.9	2463.1	2963.3	3048.9
52.5°	267.8	285.5	297.9	300.7	278.0	310.9	452.1	1106.9	2618.8	3074.1	3126.4
55°	280.5	298.9	312.4	310.6	272.7	297.5	451.0	1193.2	2789.3	3203.2	3227.2
57.5°	275.9	302.8	323.3	314.1	273.1	284.4	446.4	1262.9	2931.9	3299.7	3327.0
58°	274.5	301.4	324.7	313.4	272.0	280.5	445.4	1268.9	2951.7	3306.5	3341.1
60°	260.7	289.0	323.7	308.1	266.0	269.9	433.7	1288.3	2946.4	3271.8	3349.6
62.5°	235.6	258.9	299.3	282.3	247.6	255.8	407.5	1264.3	2802.7	3104.8	3225.5
65°	207.3	224.6	251.5	248.3	221.4	241.3	371.8	1169.1	2515.1	2833.9	2960.9
67.5°	186.1	200.2	217.2	212.6	199.2	221.8	333.2	1008.2	2192.5	2508.4	2668.3
70°	164.5	175.5	183.9	180.8	176.5	202.7	298.9	818.2	1883.3	2199.2	2354.2
72.5°	142.6	152.8	159.9	155.3	152.8	182.5	271.0	635.0	1487.5	1814.4	2013.5
75°	119.2	129.5	134.4	129.1	127.7	161.0	229.6	474.4	1116.1	1398.7	1570.6
77.5°	92.3	103.3	109.7	107.9	108.6	132.3	185.4	324.7	798.1	953.3	1134.5
80°	64.7	76.8	81.0	79.2	84.2	100.8	130.9	206.2	550.4	618.7	746.4
82.5°	40.0	51.3	52.0	53.8	57.3	74.6	98.7	125.6	345.6	357.3	450.0
85°	20.2	24.4	26.2	29.0	32.2	45.6	56.2	77.8	222.5	168.4	251.5
87.5°	6.7	7.1	8.5	10.6	13.1	18.7	24.1	31.8	55.2	30.4	77.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1506.6	1536.7	1558.6	1578.8	1559.3	1557.5	1538.4	1507.7	1494.9	1494.9
5°	1595.4	1665.8	1722.7	1759.2	1743.6	1706.1	1644.2	1565.3	1522.9	1515.5
7.5°	1619.8	1758.8	1864.6	1902.1	1875.9	1793.1	1674.6	1541.6	1480.8	1467.3
10°	1604.9	1785.7	1941.0	2000.4	1964.0	1838.8	1677.1	1514.0	1439.0	1423.5
12.5°	1589.4	1789.3	1955.2	2041.1	2017.4	1875.6	1695.2	1496.0	1409.3	1387.0
15°	1600.7	1790.7	1937.8	2026.6	2041.8	1919.8	1724.9	1509.1	1403.3	1379.6
17.5°	1672.2	1817.6	1913.1	1984.9	2038.3	1979.9	1809.4	1571.7	1457.1	1427.7
20°	1821.4	1881.9	1927.2	1982.8	2068.7	2102.7	1982.4	1743.6	1608.1	1582.3
22.5°	2253.7	2242.8	2150.1	2149.0	2273.5	2409.7	2401.6	2093.1	1889.4	1868.1
25°	2415.7	2364.8	2230.7	2198.2	2253.0	2463.1	2432.7	2164.6	1976.4	1924.7
27.5°	2352.4	2226.1	2138.0	2130.6	2112.6	2311.0	2384.3	2193.6	2006.8	1956.6
30°	2348.5	2162.8	2036.9	2051.7	2069.1	2258.7	2411.1	2284.5	2084.6	2030.9
32.5°	2358.1	2171.7	2044.3	2047.1	2098.8	2266.5	2440.9	2383.5	2186.9	2133.1
35°	2396.6	2221.9	2091.7	2085.0	2165.6	2317.4	2491.4	2539.2	2326.6	2265.4
37.5°	2458.9	2322.0	2178.4	2176.6	2293.7	2409.4	2554.4	2696.3	2465.6	2399.8
40°	2550.5	2439.1	2332.6	2323.1	2467.7	2559.0	2636.1	2863.6	2627.3	2542.7
42.5°	2661.2	2579.5	2536.0	2573.9	2712.9	2727.0	2763.5	3018.2	2764.9	2666.5
45°	2763.8	2759.9	2820.4	2920.9	3001.9	2917.0	2896.5	3121.8	2871.7	2764.9
47.5°	2885.9	2991.3	3173.8	3321.0	3405.9	3138.1	3010.0	3189.4	2949.5	2851.2
50°	3009.7	3268.3	3559.8	3764.9	3783.0	3378.3	3088.2	3253.1	3020.3	2918.1
52.5°	3139.9	3489.4	3877.4	4115.8	4080.8	3587.3	3163.9	3296.2	3093.2	3003.3
55°	3253.1	3624.8	4055.0	4283.9	4232.6	3714.7	3245.6	3342.9	3197.2	3121.5
57.5°	3316.4	3636.2	4010.8	4210.6	4155.1	3689.9	3283.1	3377.6	3263.7	3204.2
58°	3325.6	3621.0	3971.5	4168.2	4111.6	3669.1	3282.8	3376.2	3267.9	3208.1
60°	3317.4	3522.3	3825.4	4000.5	3941.1	3538.2	3269.3	3349.6	3214.1	3163.6
62.5°	3242.1	3351.0	3573.2	3700.5	3683.6	3333.7	3214.1	3249.5	3050.4	3001.5
65°	3143.0	3117.6	3250.2	3340.4	3353.2	3180.5	3159.3	3033.0	2840.2	2771.3
67.5°	3022.8	2853.0	2852.6	2903.9	2925.1	2944.9	3045.1	2797.8	2537.4	2464.6
70°	2818.7	2445.1	2332.6	2393.1	2375.4	2542.7	2840.9	2467.4	2172.4	2087.1
72.5°	2444.4	1940.3	1760.2	1838.1	1793.5	1994.1	2485.8	2030.5	1796.3	1691.6
75°	1981.3	1451.4	1265.7	1337.2	1309.6	1512.6	2068.4	1474.8	1288.3	1248.4
77.5°	1538.4	1051.7	943.8	933.9	954.4	1125.6	1517.2	995.8	849.3	822.1
80°	988.4	752.8	759.1	746.4	757.0	709.6	921.2	635.3	575.2	553.3
82.5°	650.5	524.6	625.4	577.3	548.3	477.2	604.2	416.0	353.0	341.0
85°	443.2	386.3	351.6	268.8	316.6	367.5	453.1	223.9	177.6	161.0
87.5°	200.2	134.4	98.7	60.8	96.2	111.1	220.0	26.2	20.2	20.9
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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