

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: P651796

Luminaire Tested: **GALN-SA3A-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651796
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-SA3A-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA 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: 9896.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93
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

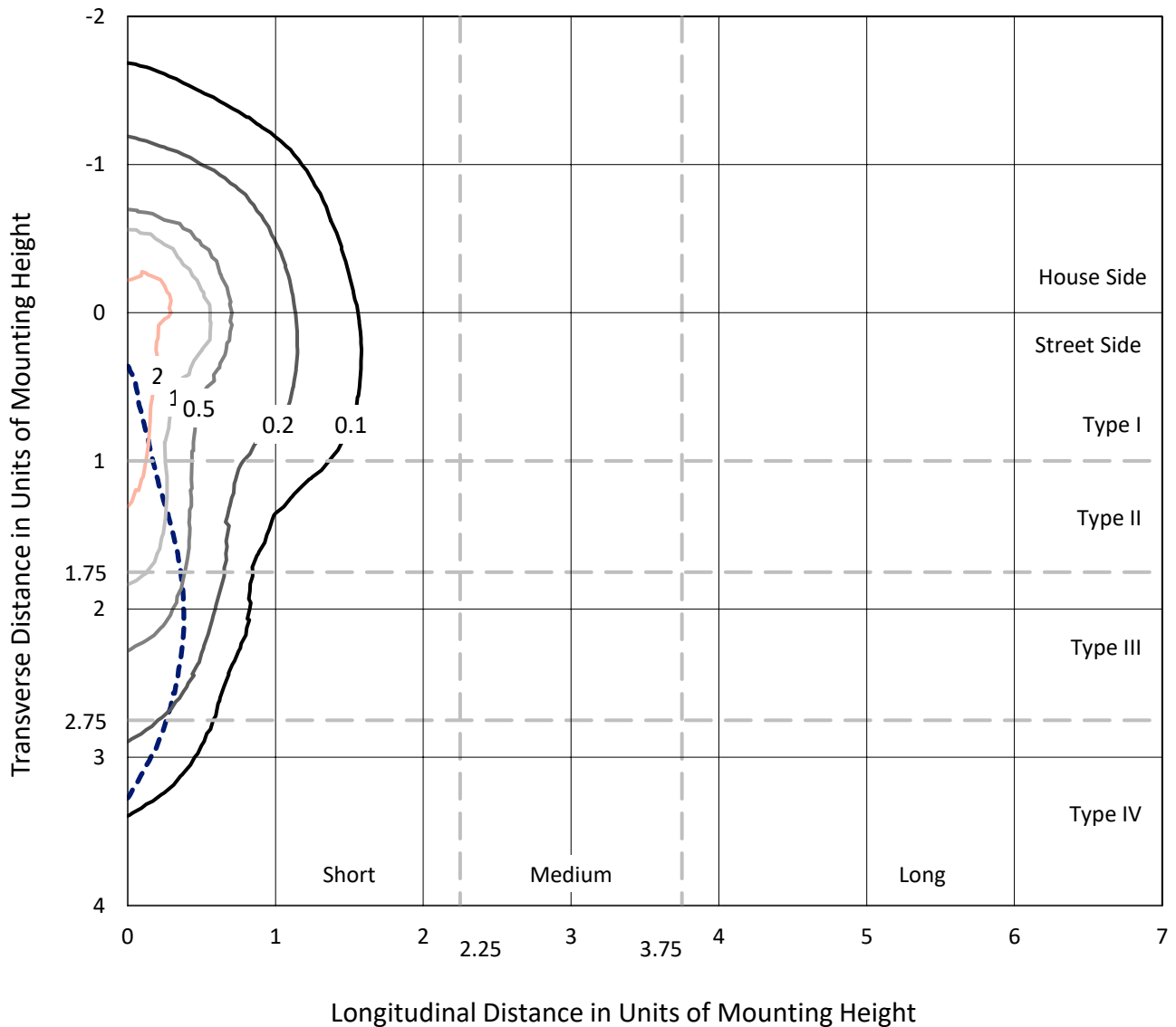




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Iso-Footcandle Lines of Horizontal Illumination

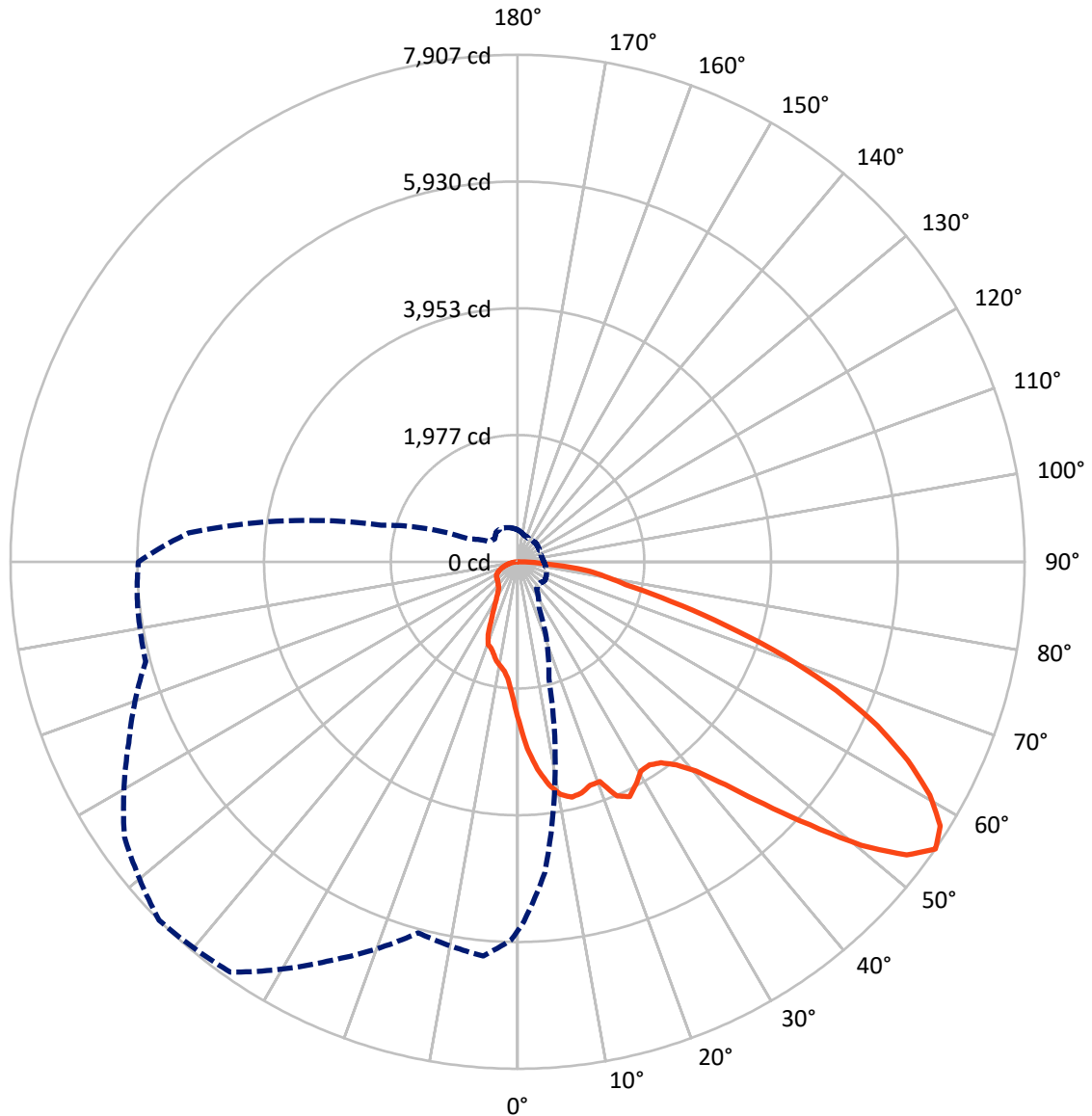
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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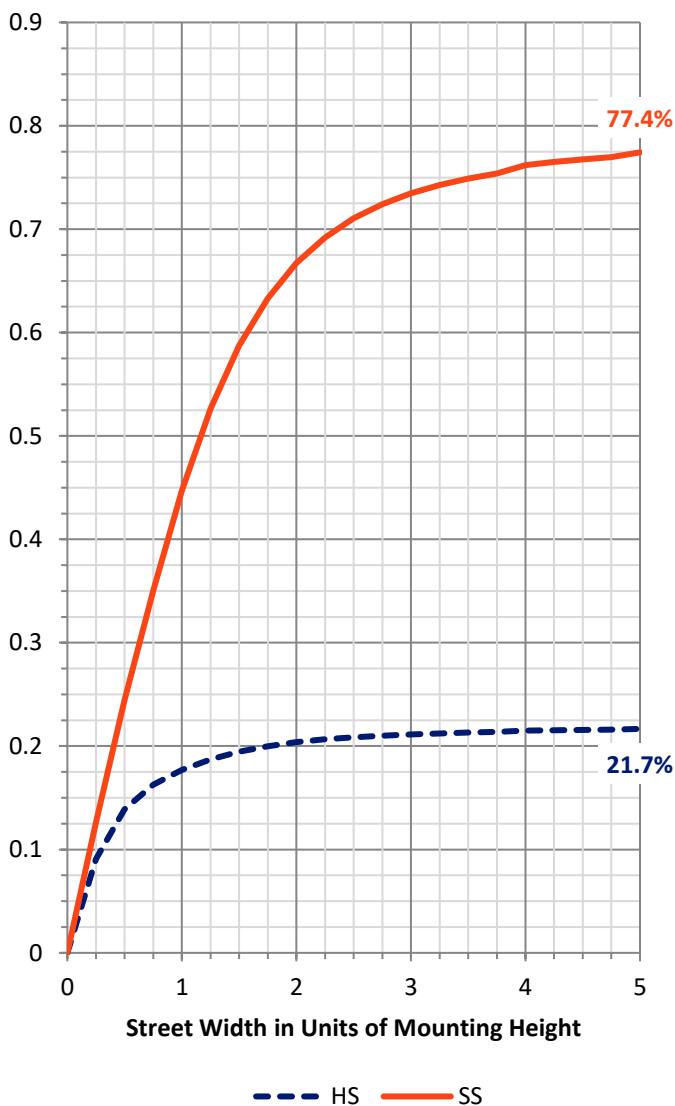
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2164.9	0.0	2164.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	7732.0	0.0	7732.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	9896.9	0.0	9896.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	2.1
10°-20°	558.5	5.6
20°-30°	964.8	9.7
30°-40°	1121.2	11.3
40°-50°	1564.3	15.8
50°-60°	2122.6	21.4
60°-70°	2019.4	20.4
70°-80°	1091.0	11.0
80°-90°	244.5	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°	9896.9	100.0
0°-180°	9896.9	100.0

Coefficient of Utilization



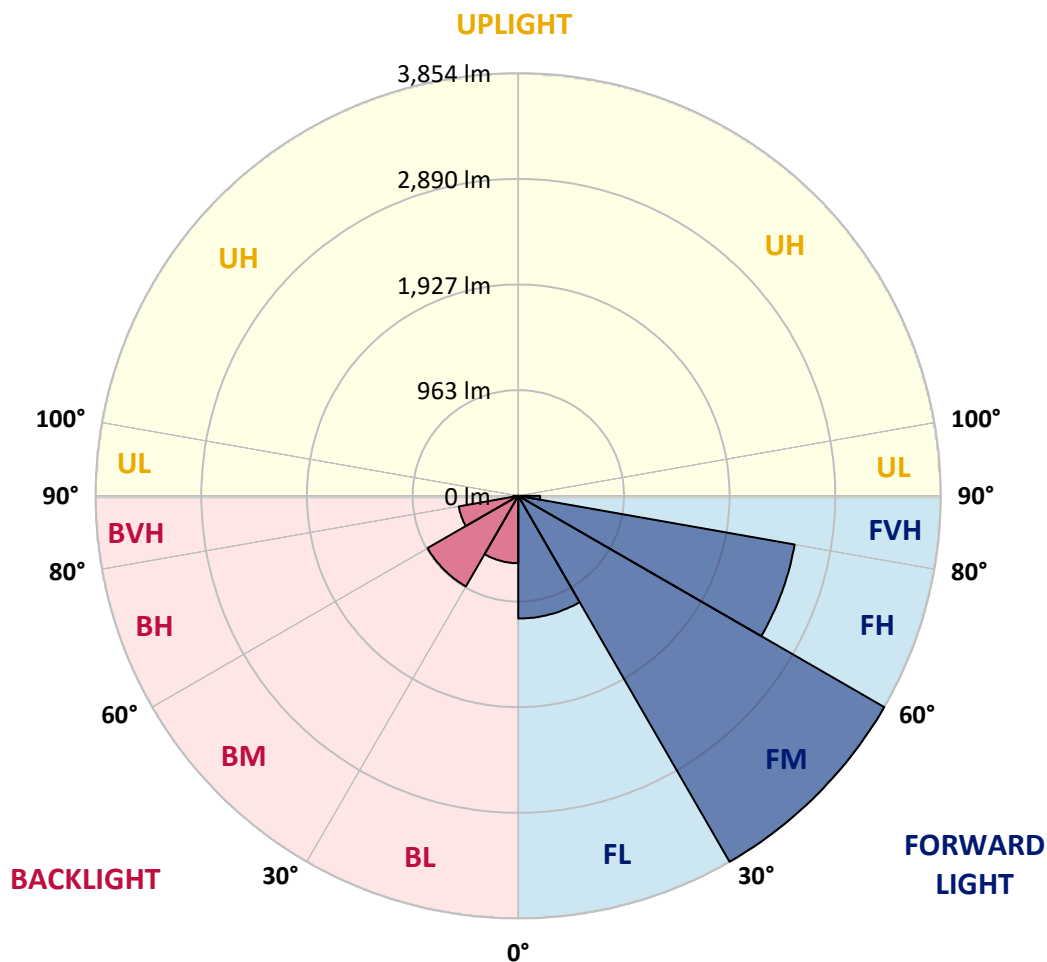
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.4	11.3			
FM (30°-60°)	3853.6	38.9			
FH (60°-80°)	2559.2	25.9			G2/5000
FVH (80°-90°)	199.8	2.0			G2/225
BL (0°-30°)	614.4	6.2	B2/1000		
BM (30°-60°)	954.6	9.6	B1/1000		
BH (60°-80°)	551.2	5.6	B2/1000		G2/1000
BVH (80°-90°)	44.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7
2.5°	2759.2	2748.8	2719.5	2642.4	2564.7	2485.7	2424.9	2349.2	2270.2	2227.8	2173.6
5°	2797.2	2785.4	2716.2	2542.5	2385.2	2220.0	2088.0	1972.5	1925.5	1856.3	1800.7
7.5°	2708.4	2703.1	2599.3	2349.9	2134.5	1918.3	1768.8	1676.0	1591.8	1560.5	1567.0
10°	2627.4	2606.5	2476.6	2150.8	1899.4	1723.7	1616.7	1525.9	1466.5	1450.8	1454.1
12.5°	2560.1	2532.1	2378.6	2016.9	1796.9	1656.4	1520.0	1425.3	1371.2	1386.1	1437.1
15°	2546.4	2508.5	2337.5	1971.2	1740.7	1559.8	1410.4	1301.3	1260.8	1293.5	1375.0
17.5°	2635.2	2587.6	2408.0	1986.2	1687.1	1461.2	1277.8	1153.1	1119.1	1171.3	1277.8
20°	2920.5	2850.1	2628.0	2073.1	1681.9	1412.3	1200.7	1075.4	1089.8	1189.0	1300.0
22.5°	3448.1	3342.3	3013.2	2199.7	1709.3	1399.8	1185.1	1119.8	1198.8	1283.0	1356.1
25°	3552.6	3469.6	3082.4	2228.4	1703.4	1391.4	1229.5	1262.1	1350.2	1392.0	1366.5
27.5°	3611.3	3516.6	3077.9	2086.1	1523.3	1262.1	1175.3	1229.5	1251.7	1211.2	1142.0
30°	3748.4	3649.9	3155.6	1936.6	1254.3	936.3	820.7	798.5	813.6	821.4	796.6
32.5°	3937.1	3839.8	3301.9	1838.7	1084.5	774.4	660.8	629.4	622.3	613.8	603.9
35°	4181.4	4031.8	3445.5	1775.9	1014.7	716.3	611.8	587.6	577.9	566.1	555.6
37.5°	4429.5	4272.8	3627.0	1710.0	968.3	675.7	579.1	568.0	551.1	538.7	523.6
40°	4693.2	4517.6	3792.2	1652.6	923.2	649.7	555.6	554.3	532.1	517.8	500.1
42.5°	4921.8	4740.9	3939.7	1617.3	888.6	622.3	541.3	545.2	522.3	500.8	477.9
45°	5103.3	4925.7	4076.2	1617.3	860.6	594.8	538.7	536.1	513.2	486.4	460.3
47.5°	5262.6	5079.1	4209.5	1658.5	842.9	572.0	524.3	528.9	505.4	471.4	446.0
50°	5386.0	5224.0	4389.0	1722.5	825.3	553.7	506.0	530.8	498.8	463.6	434.2
52.5°	5543.4	5398.4	4605.1	1809.9	810.3	533.4	489.7	530.8	498.2	464.2	432.3
55°	5761.4	5608.6	4865.6	1882.4	786.1	514.5	475.3	515.8	496.2	461.0	427.0
57.5°	5914.2	5800.0	5049.7	1930.7	751.5	490.4	462.3	501.5	487.7	448.6	411.3
58°	5921.4	5809.7	5076.5	1941.8	743.0	485.8	459.0	494.9	483.8	443.4	406.1
60°	5839.1	5743.1	5081.7	1926.1	694.8	462.9	442.0	468.2	462.9	412.7	378.0
62.5°	5540.1	5437.6	4870.8	1798.8	630.8	434.9	415.9	432.3	420.5	369.5	337.6
65°	5115.0	4926.3	4437.3	1599.0	585.0	404.8	380.6	382.0	369.5	333.0	304.9
67.5°	4549.0	4338.0	3756.9	1347.6	550.4	371.6	338.8	335.6	320.6	297.0	274.3
70°	3852.3	3708.0	3053.1	1096.2	511.9	335.0	291.8	289.9	280.7	263.1	242.9
72.5°	3122.3	2938.8	2465.5	877.5	464.9	299.7	248.1	252.0	240.3	227.9	209.6
75°	2304.2	2184.1	1905.9	703.8	401.6	261.1	207.0	208.3	203.1	190.0	175.6
77.5°	1517.4	1481.5	1363.3	462.3	308.8	207.6	169.1	170.4	166.5	154.7	139.7
80°	1021.1	997.0	923.9	297.7	206.3	150.2	130.6	131.9	131.3	118.8	98.6
82.5°	629.4	619.0	595.4	201.1	143.0	107.7	86.2	90.1	97.3	83.6	67.3
85°	297.0	297.7	359.8	109.7	84.3	69.2	47.0	50.3	50.3	50.3	37.8
87.5°	38.5	40.5	49.6	46.3	30.7	26.2	17.0	14.4	12.4	16.3	11.8
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°	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7
2.5°	2154.6	2141.6	2113.5	2107.0	2103.1	2114.2	2084.8	2092.7	2079.5	2116.1	2110.2
5°	1804.0	1805.4	1828.2	1843.2	1848.4	1843.2	1823.6	1789.6	1763.6	1753.1	1755.8
7.5°	1554.6	1577.5	1616.7	1660.4	1700.2	1711.9	1700.8	1636.2	1565.7	1521.3	1507.0
10°	1471.7	1502.4	1547.4	1582.0	1617.3	1645.4	1651.2	1601.0	1517.4	1412.3	1371.2
12.5°	1476.3	1518.1	1561.1	1572.2	1569.0	1580.1	1574.9	1566.4	1511.5	1377.6	1309.1
15°	1433.1	1482.8	1512.8	1507.0	1496.5	1486.7	1473.0	1451.5	1431.9	1337.9	1262.1
17.5°	1333.9	1384.9	1409.7	1411.6	1411.6	1409.0	1375.7	1367.9	1365.3	1319.5	1273.2
20°	1352.2	1380.2	1369.1	1350.9	1356.1	1373.8	1354.2	1350.2	1365.3	1385.5	1377.1
22.5°	1362.7	1352.8	1269.3	1188.3	1170.1	1224.9	1236.0	1279.7	1340.5	1413.6	1461.2
25°	1298.0	1219.0	1069.5	978.1	926.5	977.4	1044.0	1125.0	1215.7	1309.8	1365.3
27.5°	1085.1	1025.1	918.0	835.8	790.7	798.5	855.3	929.1	1013.3	1076.6	1117.2
30°	817.5	790.7	735.2	707.1	679.7	673.1	697.4	725.4	762.6	770.4	780.9
32.5°	602.0	598.1	601.3	592.2	587.0	586.3	579.1	585.7	589.6	594.2	585.0
35°	544.5	539.3	530.2	527.6	524.3	525.6	522.3	519.1	521.7	525.6	528.2
37.5°	515.2	507.3	494.3	489.7	489.7	491.6	486.4	485.1	489.7	502.1	508.6
40°	492.3	483.2	468.2	462.3	466.2	471.4	464.2	461.6	472.7	485.8	496.2
42.5°	470.8	463.6	449.2	442.7	446.0	455.7	445.3	443.4	457.7	472.1	484.5
45°	452.5	445.3	432.3	429.0	430.3	439.4	432.3	432.3	446.0	461.6	472.7
47.5°	438.1	429.0	420.5	417.9	419.2	424.4	423.1	423.1	436.1	452.5	463.6
50°	423.8	415.9	404.8	406.1	409.4	416.5	415.9	417.9	430.9	451.2	462.9
52.5°	417.2	405.4	393.1	394.3	404.2	412.7	410.1	412.0	427.0	464.9	481.9
55°	410.1	394.3	380.0	382.0	393.1	405.4	402.2	404.8	422.4	474.0	497.5
57.5°	396.4	378.0	362.4	363.6	380.0	393.1	387.9	391.1	412.0	464.2	489.0
58°	390.5	374.7	359.8	360.5	376.1	390.5	384.6	387.2	408.7	461.6	485.1
60°	365.7	356.5	343.5	344.1	359.1	371.6	368.3	370.9	391.7	442.7	460.3
62.5°	331.7	326.5	323.2	323.2	332.4	344.1	347.3	350.6	369.5	400.2	415.9
65°	295.1	295.1	295.8	295.8	301.7	316.6	318.7	327.1	344.7	359.8	371.6
67.5°	270.3	269.0	270.3	267.0	269.6	278.8	288.6	296.5	314.7	325.1	329.1
70°	238.3	237.7	238.3	233.7	237.0	244.8	251.4	264.4	283.3	291.2	293.2
72.5°	207.0	207.0	208.3	205.0	205.0	213.5	218.1	232.5	250.0	254.7	255.3
75°	174.3	176.3	176.3	171.7	173.0	178.2	184.1	195.9	212.2	215.5	215.5
77.5°	138.4	145.6	145.6	141.0	143.0	143.6	151.5	157.4	169.8	171.1	165.8
80°	100.6	107.7	113.6	109.7	112.9	109.1	113.6	117.5	129.9	124.0	115.6
82.5°	71.8	77.0	81.6	82.2	79.0	71.8	77.7	78.4	84.3	76.4	71.8
85°	39.9	44.4	50.3	47.7	42.5	37.8	39.9	41.1	40.5	38.5	35.9
87.5°	10.4	11.1	12.4	9.2	8.5	7.1	9.8	9.8	11.1	11.8	11.1
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°	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7
2.5°	2114.9	2143.5	2205.6	2252.6	2310.1	2379.9	2462.2	2545.1	2634.5	2662.6	2701.8
5°	1749.9	1821.7	1851.7	1937.2	2022.1	2149.4	2285.2	2442.6	2615.0	2697.9	2777.6
7.5°	1495.2	1533.7	1565.1	1627.8	1729.6	1884.3	2054.7	2251.3	2495.5	2616.3	2733.2
10°	1358.0	1362.0	1400.5	1478.2	1567.0	1703.4	1864.7	2084.8	2357.1	2504.0	2641.1
12.5°	1267.3	1250.3	1292.1	1373.1	1473.7	1599.7	1747.9	1957.5	2257.2	2408.0	2573.8
15°	1187.7	1160.9	1192.3	1275.1	1374.4	1522.6	1681.9	1903.9	2218.0	2393.7	2577.7
17.5°	1189.6	1115.8	1126.9	1196.8	1295.4	1446.3	1639.5	1902.0	2277.4	2479.9	2697.9
20°	1336.5	1218.4	1168.1	1181.2	1276.5	1441.0	1659.1	1993.4	2472.6	2767.7	3000.9
22.5°	1480.8	1409.7	1328.7	1302.0	1354.2	1526.6	1783.8	2209.5	2897.0	3341.7	3762.8
25°	1430.5	1491.3	1471.1	1433.1	1444.9	1587.9	1868.7	2387.1	3226.7	3727.6	4123.3
27.5°	1144.6	1254.9	1277.1	1276.5	1281.0	1398.6	1680.7	2267.6	3267.9	3801.3	4179.3
30°	804.4	814.2	825.9	848.8	869.7	974.8	1315.0	1990.7	3249.6	3834.6	4213.3
32.5°	580.5	593.5	609.8	641.2	690.8	824.7	1150.5	1902.6	3346.3	3972.4	4312.6
35°	530.8	545.8	561.5	597.4	644.5	768.5	1085.1	1866.1	3504.9	4195.7	4490.9
37.5°	515.2	532.1	545.8	572.0	609.8	728.1	1025.8	1841.3	3667.5	4432.1	4729.8
40°	504.1	523.6	534.7	555.6	581.7	690.8	972.9	1821.7	3824.9	4648.2	4921.8
42.5°	494.3	514.5	528.9	543.9	565.4	657.5	925.9	1802.1	3961.3	4857.8	5113.0
45°	482.5	508.0	526.3	538.0	556.9	629.4	889.9	1786.4	4116.7	5043.9	5306.4
47.5°	472.7	500.8	523.6	537.4	544.5	609.8	861.2	1808.0	4303.4	5238.4	5485.9
50°	473.4	500.1	528.9	550.4	531.5	593.5	843.6	1893.5	4546.4	5469.5	5627.6
52.5°	494.3	526.9	549.8	555.0	513.2	573.9	834.4	2043.0	4833.6	5673.9	5770.6
55°	517.8	551.7	576.5	573.3	503.4	549.1	832.5	2202.3	5148.3	5912.2	5956.6
57.5°	509.3	558.9	596.8	579.8	504.1	525.0	824.0	2330.9	5411.4	6090.5	6140.8
58°	506.7	556.3	599.4	578.5	502.1	517.8	822.0	2342.0	5448.0	6102.9	6166.9
60°	481.2	533.4	597.4	568.7	491.0	498.2	800.5	2377.9	5438.2	6038.9	6182.5
62.5°	434.9	477.9	552.4	521.0	457.1	472.1	752.2	2333.5	5173.2	5730.7	5953.4
65°	382.7	414.6	464.2	458.3	408.7	445.3	686.3	2157.9	4642.3	5230.6	5465.0
67.5°	343.5	369.5	400.9	392.4	367.6	409.4	615.0	1860.9	4046.8	4629.9	4925.1
70°	303.6	323.9	339.5	333.6	325.8	374.2	551.7	1510.2	3476.2	4059.3	4345.2
72.5°	263.1	282.1	295.1	286.6	282.1	336.9	500.1	1172.0	2745.5	3348.9	3716.5
75°	220.0	239.0	248.1	238.3	235.7	297.0	423.8	875.6	2059.9	2581.7	2899.0
77.5°	170.4	190.7	202.4	199.1	200.4	244.2	342.1	599.4	1473.0	1759.6	2093.9
80°	119.5	141.7	149.5	146.2	155.4	186.1	241.6	380.6	1015.9	1142.0	1377.6
82.5°	73.8	94.7	96.0	99.2	105.8	137.8	182.2	231.8	637.9	659.4	830.5
85°	37.3	45.1	48.4	53.6	59.4	84.3	103.8	143.6	410.7	310.8	464.2
87.5°	12.4	13.0	15.6	19.6	24.1	34.6	44.4	58.8	101.8	56.2	143.6
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°	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7	2483.7
2.5°	2780.9	2836.3	2876.8	2914.0	2878.1	2874.9	2839.6	2782.8	2759.2	2759.2
5°	2944.7	3074.6	3179.7	3247.0	3218.3	3149.0	3034.8	2889.2	2810.9	2797.2
7.5°	2989.8	3246.3	3441.5	3510.8	3462.5	3309.7	3090.9	2845.4	2733.2	2708.4
10°	2962.3	3296.0	3582.6	3692.3	3625.0	3393.9	3095.6	2794.6	2656.1	2627.4
12.5°	2933.6	3302.5	3608.7	3767.4	3723.6	3461.8	3128.9	2761.3	2601.3	2560.1
15°	2954.5	3305.1	3576.8	3740.6	3768.7	3543.5	3183.7	2785.4	2590.2	2546.4
17.5°	3086.4	3354.7	3531.0	3663.6	3762.1	3654.4	3339.7	2900.9	2689.4	2635.2
20°	3361.9	3473.6	3557.2	3659.6	3818.3	3881.0	3659.0	3218.3	2968.2	2920.5
22.5°	4159.8	4139.6	3968.5	3966.5	4196.3	4447.7	4432.7	3863.4	3487.3	3448.1
25°	4458.8	4364.8	4117.4	4057.3	4158.5	4546.4	4490.2	3995.3	3647.9	3552.6
27.5°	4342.0	4108.9	3946.3	3932.6	3899.3	4265.6	4400.7	4048.8	3704.0	3611.3
30°	4334.8	3992.0	3759.5	3786.9	3819.0	4168.9	4450.3	4216.6	3847.7	3748.4
32.5°	4352.4	4008.3	3773.2	3778.4	3873.8	4183.3	4505.2	4399.4	4036.4	3937.1
35°	4423.6	4101.1	3860.8	3848.3	3997.2	4277.3	4598.6	4686.7	4294.3	4181.4
37.5°	4538.5	4285.8	4020.7	4017.5	4233.6	4447.1	4714.8	4976.6	4550.9	4429.5
40°	4707.6	4502.0	4305.4	4287.8	4554.9	4723.3	4865.6	5285.4	4849.3	4693.2
42.5°	4911.9	4761.2	4680.8	4750.7	5007.3	5033.4	5100.7	5570.8	5103.3	4921.8
45°	5101.3	5094.1	5205.8	5391.2	5540.8	5384.0	5346.2	5762.1	5300.5	5103.3
47.5°	5326.6	5521.2	5858.1	6129.7	6286.4	5792.1	5555.7	5886.7	5444.1	5262.6
50°	5555.1	6032.4	6570.4	6949.1	6982.4	6235.4	5700.0	6004.3	5574.7	5386.0
52.5°	5795.4	6440.5	7156.7	7596.8	7532.2	6621.4	5839.7	6084.0	5709.2	5543.4
55°	6004.3	6690.6	7484.5	7906.9	7812.3	6856.4	5990.6	6170.2	5901.1	5761.4
57.5°	6121.2	6711.4	7402.9	7771.8	7669.2	6810.7	6059.8	6234.2	6023.9	5914.2
58°	6138.1	6683.3	7330.4	7693.5	7588.9	6772.2	6059.2	6231.6	6031.7	5921.4
60°	6123.2	6501.2	7060.8	7384.0	7274.2	6530.5	6034.3	6182.5	5932.5	5839.1
62.5°	5984.1	6185.1	6595.2	6830.3	6798.9	6153.2	5932.5	5997.8	5630.2	5540.1
65°	5801.2	5754.2	5999.1	6165.6	6189.1	5870.4	5831.3	5598.2	5242.4	5115.0
67.5°	5579.3	5265.8	5265.2	5359.9	5399.1	5435.6	5620.4	5164.0	4683.4	4549.0
70°	5202.5	4513.1	4305.4	4417.0	4384.4	4693.2	5243.6	4554.2	4009.6	3852.3
72.5°	4511.7	3581.3	3249.0	3392.6	3310.3	3680.6	4588.1	3747.8	3315.6	3122.3
75°	3657.0	2678.9	2336.1	2468.1	2417.1	2792.0	3817.6	2722.1	2377.9	2304.2
77.5°	2839.6	1941.1	1742.0	1723.7	1761.6	2077.6	2800.4	1838.0	1567.7	1517.4
80°	1824.3	1389.4	1401.2	1377.6	1397.2	1309.8	1700.2	1172.7	1061.7	1021.1
82.5°	1200.7	968.3	1154.4	1065.5	1012.1	880.8	1115.2	767.8	651.6	629.4
85°	818.1	713.0	649.0	496.2	584.4	678.4	836.4	413.3	327.7	297.0
87.5°	369.5	248.1	182.2	112.3	177.6	205.0	406.1	48.4	37.3	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)