

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: P954018

Luminaire Tested: **GALN-SB7B-927-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-927-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18603 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

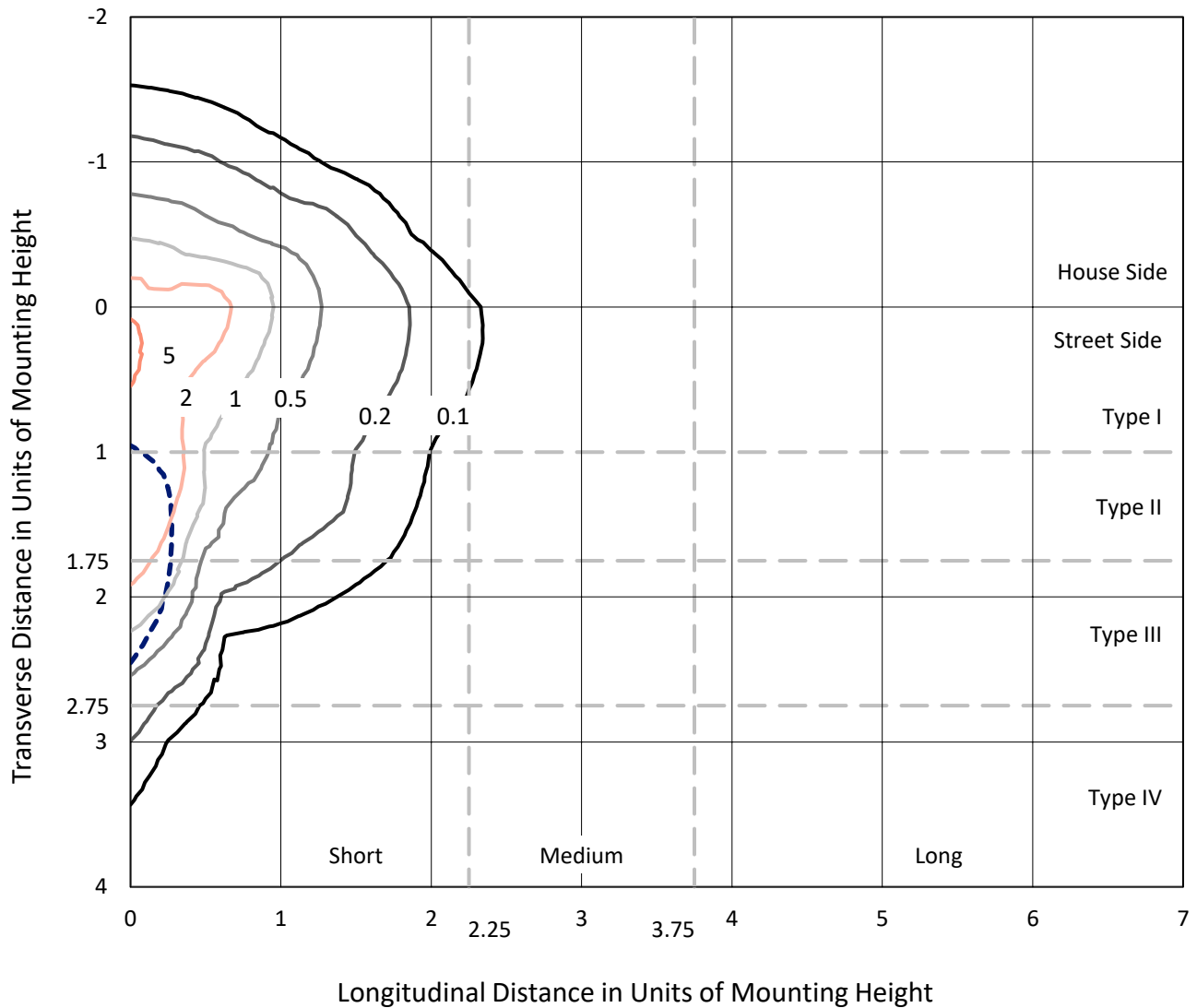
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

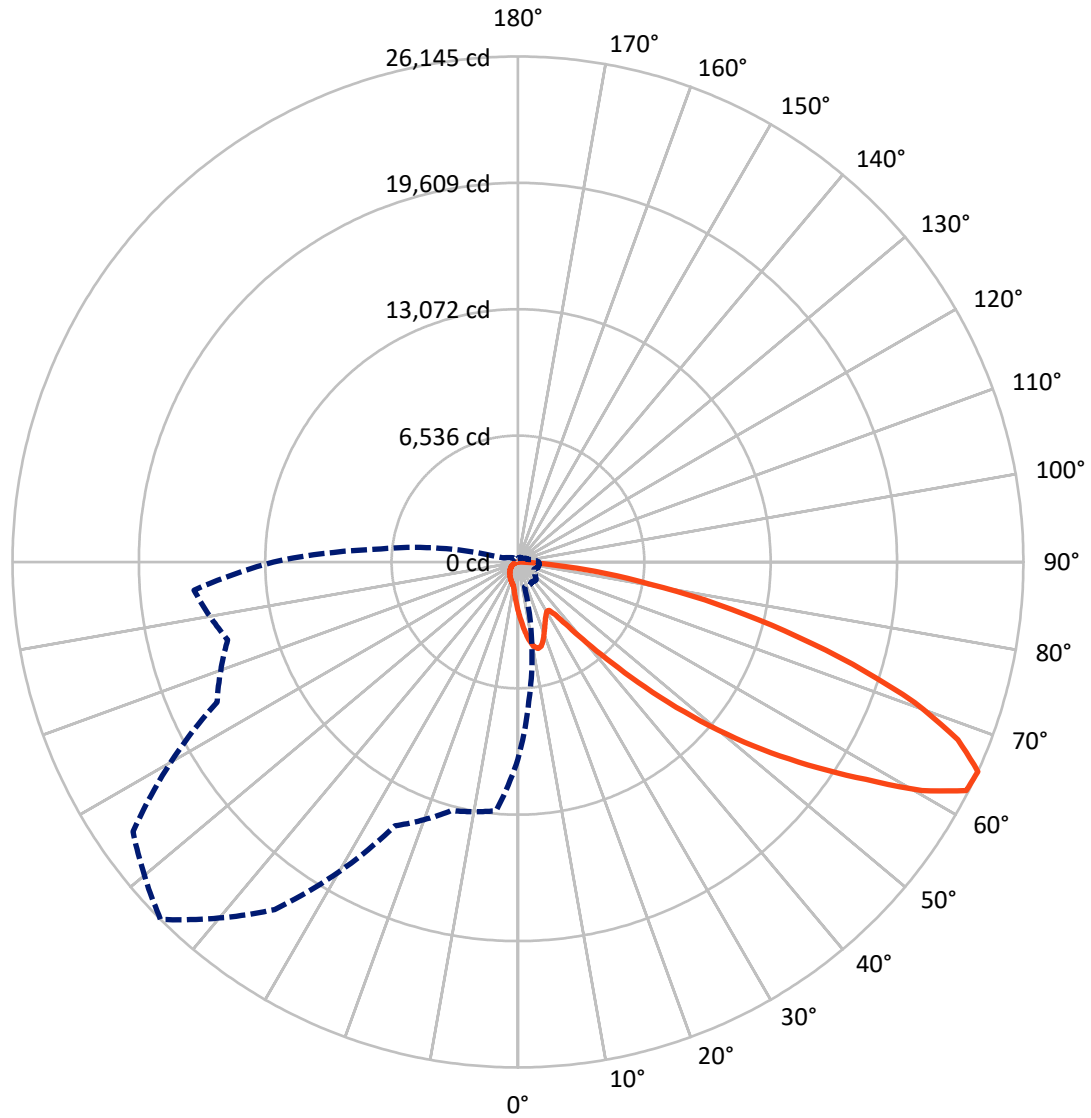
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.2	0.0	2605.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15997.8	0.0	15997.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	18603.0	0.0	18603.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.4
10°-20°	760.2	4.1
20°-30°	1120.0	6.0
30°-40°	1438.9	7.7
40°-50°	2327.1	12.5
50°-60°	4080.8	21.9
60°-70°	5106.2	27.4
70°-80°	2983.8	16.0
80°-90°	532.4	2.9
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°	18603.0	100.0
0°-180°	18603.0	100.0



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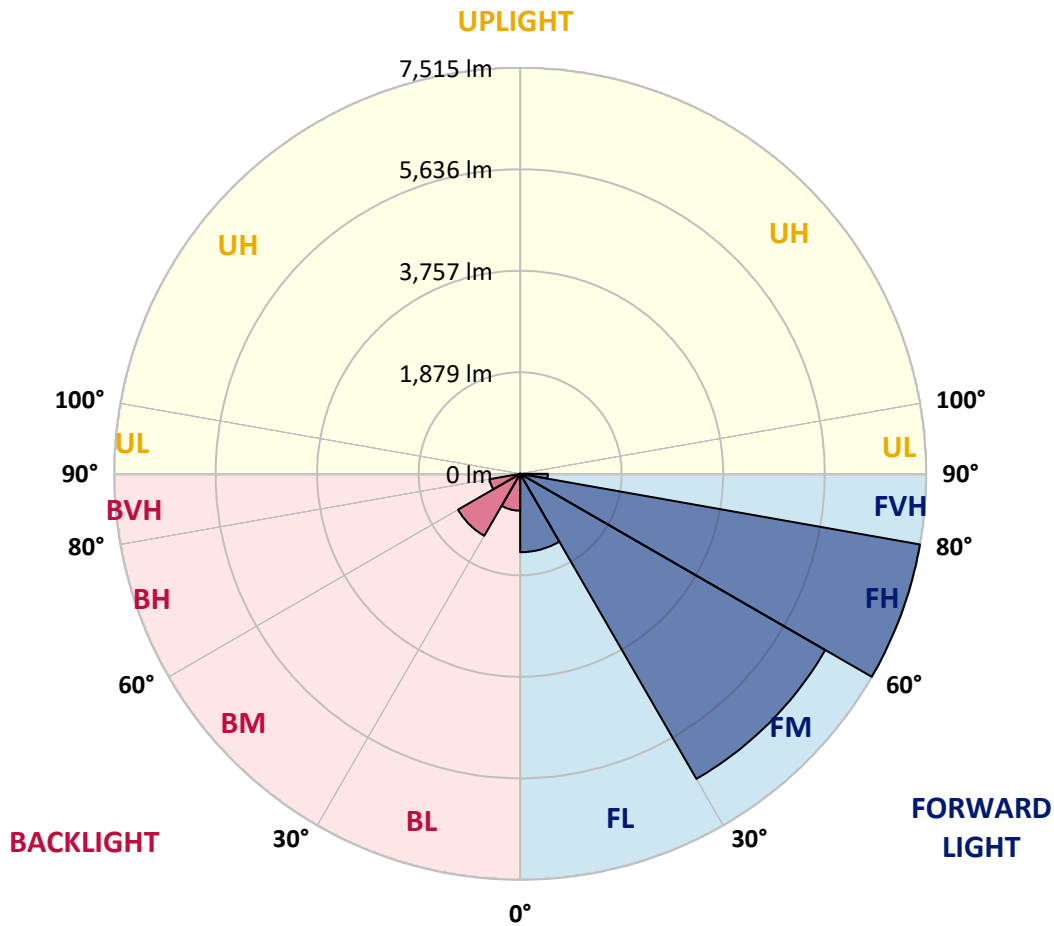
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.0	7.8			
FM (30°-60°)	6520.1	35.0			
FH (60°-80°)	7514.8	40.4			G4/12000
FVH (80°-90°)	511.9	2.8			G4/750
BL (0°-30°)	682.9	3.7	B2/1000		
BM (30°-60°)	1326.6	7.1	B2/2500		
BH (60°-80°)	575.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	20.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9
2.5°	2910.4	2860.4	2830.9	2757.9	2684.9	2625.9	2546.4	2493.9	2431.1	2370.9
5°	3243.6	3162.9	3065.5	2932.2	2810.4	2686.1	2565.7	2446.5	2320.9	2205.6
7.5°	3525.6	3408.9	3237.2	3060.3	2905.3	2755.3	2614.4	2456.7	2304.2	2123.5
10°	3740.9	3592.2	3366.6	3134.7	2956.5	2805.3	2668.2	2534.9	2381.1	2163.3
12.5°	3871.6	3712.7	3444.8	3173.1	2969.4	2800.2	2693.8	2634.9	2574.6	2358.1
15°	3967.7	3796.0	3499.9	3200.0	2939.9	2732.3	2654.1	2713.0	2782.3	2643.8
17.5°	4067.6	3886.9	3571.7	3211.6	2860.4	2600.3	2566.9	2719.5	2879.6	2873.2
20°	4162.5	3983.1	3634.5	3203.9	2732.3	2440.1	2469.6	2664.3	2850.2	2928.3
22.5°	4271.4	4081.7	3694.7	3174.4	2565.7	2290.1	2382.4	2577.2	2740.0	2832.2
25°	4404.7	4206.1	3779.3	3130.8	2386.3	2165.8	2294.0	2476.0	2608.0	2672.0
27.5°	4548.2	4354.7	3892.1	3107.8	2241.4	2077.4	2194.0	2355.5	2473.4	2518.3
30°	4726.4	4527.7	4025.4	3082.1	2146.6	2026.1	2090.2	2215.8	2331.1	2376.0
32.5°	4921.2	4720.0	4153.5	3020.6	2088.9	1987.7	1989.0	2068.4	2173.5	2227.3
35°	5164.7	4950.6	4290.6	2886.1	2042.8	1942.8	1890.3	1928.7	2015.9	2080.0
37.5°	5512.0	5253.1	4458.5	2693.8	1974.9	1873.6	1786.5	1795.5	1862.1	1932.6
40°	5991.3	5659.3	4655.9	2493.9	1877.5	1776.2	1672.4	1668.6	1717.3	1786.5
42.5°	6639.7	6196.3	4893.0	2302.9	1783.9	1658.3	1552.0	1545.6	1584.0	1644.2
45°	7495.8	6883.2	5183.9	2138.9	1710.9	1543.0	1437.9	1435.3	1467.4	1519.9
47.5°	8591.5	7838.0	5474.8	2027.4	1672.4	1452.0	1344.3	1349.5	1377.7	1425.1
50°	10010.2	9082.4	5563.2	1971.0	1672.4	1403.3	1261.0	1286.7	1309.7	1345.6
52.5°	11710.8	10276.8	5271.0	1919.8	1682.7	1409.7	1190.6	1245.7	1262.3	1293.1
55°	13287.1	10862.4	4531.6	1849.3	1685.2	1449.4	1130.3	1212.3	1243.1	1254.6
57.5°	14202.2	10661.2	3664.0	1730.1	1675.0	1476.3	1091.9	1171.3	1230.3	1238.0
60°	14027.9	9955.1	2697.7	1639.1	1599.4	1466.1	1080.3	1108.5	1202.1	1213.6
62.5°	12684.8	8770.9	1872.3	1568.6	1432.8	1421.2	1076.5	1009.9	1140.6	1168.8
65°	10196.0	6905.0	1322.6	1350.8	1255.9	1323.8	1056.0	907.3	1066.3	1104.7
67.5°	7397.1	4672.5	954.8	1094.4	1138.0	1166.2	1009.9	833.0	981.7	1032.9
70°	4746.9	2523.4	670.3	722.8	958.6	990.6	930.4	766.4	895.8	954.8
72.5°	3374.3	1490.4	481.9	506.2	770.2	825.3	818.9	692.0	795.8	867.6
75°	2328.6	821.5	325.5	361.4	558.8	670.3	631.8	594.6	674.1	747.1
77.5°	1459.7	367.8	194.8	251.2	366.5	526.7	433.2	460.1	525.4	593.4
80°	812.5	142.3	108.9	166.6	199.9	383.2	239.7	296.0	387.0	435.7
82.5°	176.9	17.9	48.7	71.8	78.2	223.0	126.9	171.7	243.5	239.7
85°	0.0	0.0	9.0	10.3	5.1	96.1	46.1	56.4	79.5	74.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2575.9	0°	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9
2317.0	2.5°	2306.8	2244.0	2197.9	2174.8	2155.6	2173.5	2183.8	2183.8	2227.3	2253.0
2135.1	5°	2090.2	1977.4	1891.6	1833.9	1799.3	1810.8	1823.6	1837.7	1892.9	1930.0
2027.4	7.5°	1940.3	1767.3	1636.5	1555.8	1513.5	1519.9	1528.9	1540.4	1594.3	1631.4
2042.8	10°	1912.1	1663.5	1478.9	1372.5	1321.3	1312.3	1307.2	1303.3	1335.4	1363.6
2217.1	12.5°	2027.4	1668.6	1411.0	1281.6	1218.8	1191.8	1161.1	1136.7	1141.9	1159.8
2481.1	15°	2233.7	1733.9	1389.2	1234.1	1156.0	1111.1	1075.2	1045.7	1039.3	1045.7
2711.8	17.5°	2469.6	1822.4	1386.6	1193.1	1095.7	1049.6	1020.1	993.2	984.2	985.5
2841.2	20°	2625.9	1892.9	1379.0	1147.0	1038.1	997.0	971.4	944.5	935.5	938.1
2805.3	22.5°	2641.3	1930.0	1367.4	1095.7	980.4	945.8	920.2	895.8	894.5	894.5
2670.8	25°	2558.0	1930.0	1343.1	1049.6	925.3	894.5	871.5	842.0	847.1	849.7
2518.3	27.5°	2428.5	1883.9	1296.9	1012.4	877.9	845.8	822.8	795.8	802.3	806.1
2376.0	30°	2300.4	1824.9	1241.8	970.1	833.0	795.8	779.2	756.1	758.7	763.8
2235.0	32.5°	2181.2	1762.1	1176.5	935.5	788.2	751.0	738.2	712.5	716.4	721.5
2096.6	35°	2063.3	1692.9	1099.6	894.5	747.1	710.0	699.7	670.3	672.8	680.5
1958.2	37.5°	1936.4	1619.9	1036.8	853.5	707.4	669.0	658.7	628.0	630.5	639.5
1814.7	40°	1803.1	1548.1	975.3	809.9	665.1	626.7	617.7	584.4	587.0	597.2
1673.7	42.5°	1668.6	1469.9	927.8	753.6	621.6	580.5	571.6	540.8	544.7	556.2
1550.7	45°	1544.3	1376.4	897.1	690.8	580.5	534.4	525.4	497.2	504.9	517.7
1446.9	47.5°	1437.9	1280.3	884.3	638.2	537.0	487.0	479.3	456.2	469.0	483.1
1358.4	50°	1346.9	1188.0	867.6	584.4	496.0	446.0	438.3	422.9	439.6	453.7
1298.2	52.5°	1281.6	1082.9	831.7	535.7	460.1	411.4	408.8	401.1	416.5	429.3
1253.4	55°	1225.2	974.0	774.1	493.4	428.0	381.9	384.5	380.6	393.4	403.7
1226.4	57.5°	1173.9	879.1	701.0	460.1	393.4	356.3	364.0	358.8	365.2	371.7
1198.3	60°	1112.4	783.0	613.9	422.9	352.4	330.6	339.6	325.5	324.2	326.8
1147.0	62.5°	1021.4	653.6	522.9	376.8	316.5	302.4	306.3	279.4	258.9	258.9
1071.4	65°	894.5	525.4	438.3	325.5	275.5	264.0	261.4	223.0	194.8	192.2
989.4	67.5°	747.1	431.9	364.0	274.3	229.4	221.7	224.3	196.1	167.9	165.3
907.3	70°	608.7	357.6	293.5	219.1	176.9	184.5	196.1	167.9	141.0	137.1
811.2	72.5°	494.7	284.5	229.4	167.9	130.7	152.5	166.6	137.1	111.5	108.9
692.0	75°	381.9	208.9	164.0	114.1	94.8	117.9	130.7	100.0	79.5	75.6
535.7	77.5°	255.0	129.4	92.3	71.8	56.4	80.7	87.1	52.5	46.1	44.9
389.6	80°	155.1	60.2	39.7	34.6	19.2	29.5	34.6	21.8	24.3	25.6
207.6	82.5°	78.2	16.7	6.4	1.3	0.0	0.0	10.3	5.1	10.3	12.8
56.4	85°	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.4
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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2575.9	0°	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9
2263.2	2.5°	2335.0	2388.8	2440.1	2522.1	2606.7	2690.0	2774.6	2856.6	2886.1	2907.8
1954.4	5°	2065.9	2167.1	2285.0	2447.8	2622.1	2801.5	2983.5	3150.1	3225.7	3276.9
1663.5	7.5°	1787.8	1919.8	2088.9	2333.7	2606.7	2892.5	3178.2	3441.0	3562.7	3661.4
1389.2	10°	1512.2	1655.8	1869.8	2149.2	2518.3	2928.3	3323.1	3684.5	3842.1	3966.4
1191.8	12.5°	1270.0	1404.6	1628.9	1937.7	2379.8	2900.2	3406.4	3840.8	4026.6	4166.3
1050.9	15°	1099.6	1194.4	1393.0	1726.3	2215.8	2809.2	3411.5	3915.1	4118.9	4265.0
991.9	17.5°	1004.7	1036.8	1166.2	1511.0	2033.8	2690.0	3364.1	3940.8	4158.6	4294.5
939.4	20°	953.5	958.6	994.5	1231.6	1800.6	2578.5	3319.2	3966.4	4195.8	4309.9
902.2	22.5°	912.5	912.5	921.4	1007.3	1499.4	2445.2	3305.1	4011.3	4247.1	4317.5
859.9	25°	875.3	875.3	877.9	900.9	1188.0	2241.4	3296.2	4080.5	4317.5	4336.8
817.6	27.5°	836.9	838.1	838.1	851.0	957.3	1964.6	3257.7	4170.2	4402.1	4362.4
776.6	30°	798.4	801.0	801.0	809.9	847.1	1640.4	3182.1	4277.8	4512.3	4395.7
735.6	32.5°	760.0	762.5	762.5	770.2	797.1	1309.7	3087.3	4376.5	4623.8	4409.8
695.9	35°	720.2	724.1	721.5	731.8	760.0	1041.9	2966.8	4475.2	4744.3	4454.7
657.4	37.5°	680.5	683.1	681.8	692.0	724.1	899.6	2827.1	4549.5	4908.3	4554.6
616.4	40°	640.8	639.5	639.5	651.0	685.6	858.6	2651.5	4667.4	5144.2	4730.2
575.4	42.5°	599.8	599.8	597.2	610.0	652.3	827.9	2483.6	4878.9	5487.6	5009.6
537.0	45°	562.6	561.3	556.2	567.7	620.3	774.1	2424.7	5273.6	5995.1	5462.0
498.5	47.5°	526.7	525.4	512.6	522.9	581.8	725.4	2645.1	5919.5	6698.7	6127.1
467.8	50°	494.7	496.0	471.6	480.6	543.4	688.2	3123.1	6757.6	7632.9	7022.9
442.1	52.5°	465.2	465.2	433.2	438.3	496.0	654.9	3578.1	7666.2	8865.8	8272.4
415.2	55°	435.7	433.2	397.3	399.8	448.5	607.5	3646.0	8553.1	10547.2	10152.5
385.7	57.5°	402.4	397.3	364.0	364.0	405.0	572.9	3160.3	9234.9	12633.5	12915.5
330.6	60°	361.4	357.6	335.8	329.4	370.4	603.6	2229.9	9314.3	13979.2	16589.7
262.7	62.5°	308.9	314.0	302.4	293.5	337.0	626.7	1321.3	8674.8	13653.7	17758.5
203.8	65°	243.5	264.0	261.4	255.0	370.4	528.0	780.5	7447.1	12655.3	16815.2
178.1	67.5°	207.6	221.7	217.9	217.9	388.3	401.1	490.8	5818.2	11281.5	15696.5
148.7	70°	176.9	191.0	176.9	176.9	293.5	243.5	339.6	4062.5	9798.7	14458.5
119.2	72.5°	146.1	160.2	144.8	134.6	234.5	182.0	248.6	2538.8	8391.6	13169.2
84.6	75°	111.5	128.2	116.6	103.8	155.1	135.8	188.4	1475.1	6952.4	11267.4
51.3	77.5°	70.5	92.3	87.1	73.0	114.1	98.7	135.8	877.9	5364.6	8804.3
30.8	80°	43.6	47.4	48.7	46.1	65.4	66.6	92.3	499.8	3671.6	6136.1
19.2	82.5°	28.2	28.2	21.8	24.3	32.0	38.4	52.5	188.4	2158.1	3735.7
11.5	85°	20.5	17.9	11.5	11.5	15.4	19.2	20.5	57.7	875.3	1475.1
5.1	87.5°	10.3	9.0	3.8	5.1	7.7	6.4	5.1	2.6	220.4	471.6
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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CANDELA DISTRIBUTION (continued):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2575.9	0°	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9	2575.9
2956.5	2.5°	2982.2	3021.9	3024.5	3024.5	2989.9	2988.6	2918.1	2910.4
3392.3	5°	3511.5	3537.1	3543.5	3530.7	3461.5	3410.2	3273.1	3243.6
3837.0	7.5°	3995.9	4047.1	4047.1	4016.4	3903.6	3798.5	3599.9	3525.6
4204.8	10°	4382.9	4441.9	4429.0	4366.2	4224.0	4079.2	3838.2	3740.9
4427.8	12.5°	4571.3	4631.5	4598.2	4526.4	4388.0	4235.5	3981.8	3871.6
4491.8	15°	4567.5	4550.8	4516.2	4507.2	4440.6	4325.2	4088.2	3967.7
4452.1	17.5°	4404.7	4263.7	4236.8	4326.5	4411.1	4382.9	4180.4	4067.6
4357.3	20°	4147.1	3901.0	3876.7	4048.4	4289.4	4412.4	4266.3	4162.5
4220.2	22.5°	3875.4	3610.1	3553.7	3743.4	4106.1	4421.4	4375.2	4271.4
4068.9	25°	3617.8	3351.3	3294.9	3471.7	3902.3	4406.0	4493.1	4404.7
3924.1	27.5°	3402.5	3144.9	3092.4	3269.2	3706.2	4362.4	4611.0	4548.2
3780.6	30°	3235.9	2997.6	2959.1	3129.6	3537.1	4308.6	4761.0	4726.4
3647.3	32.5°	3138.5	2964.2	2978.3	3118.0	3446.1	4249.6	4904.5	4921.2
3581.9	35°	3234.6	3242.3	3365.4	3423.0	3530.7	4240.7	5099.3	5164.7
3660.1	37.5°	3712.7	3979.2	4234.2	4186.8	3944.6	4344.5	5390.2	5512.0
4001.0	40°	4526.4	5073.7	5487.6	5306.9	4696.9	4662.3	5809.3	5991.3
4605.9	42.5°	5520.9	6448.8	7130.6	6646.1	5667.0	5218.5	6407.8	6639.7
5337.7	45°	6570.5	8144.3	9218.2	8210.9	6701.2	5997.7	7313.8	7495.8
6023.3	47.5°	7676.5	10205.0	11594.2	9946.1	7659.8	6884.5	8549.2	8591.5
6673.0	50°	8886.3	12464.4	14016.3	11680.1	8585.1	7900.8	10058.9	10010.2
7430.4	52.5°	10038.4	14787.8	16387.2	13421.7	9397.6	9161.8	11810.8	11710.8
8465.9	55°	11138.0	17110.0	18772.2	15095.4	10164.0	10827.8	13892.0	13287.1
9958.9	57.5°	12413.1	19197.7	21230.2	16776.8	11235.4	12991.1	16219.3	14202.2
12818.1	60°	14298.3	21569.8	24009.9	19081.0	13273.0	15264.6	17053.6	14027.9
16242.4	62.5°	16705.0	23751.0	26030.9	21339.1	15319.7	15692.6	15824.6	12684.8
15543.9	65°	17172.8	24303.4	26144.9	21942.7	15055.7	13311.5	12919.3	10196.0
13884.3	67.5°	15932.3	23305.0	24550.7	20818.8	13317.9	10287.0	9694.9	7397.1
12795.0	70°	14540.5	21401.9	21772.3	18908.0	11713.4	7566.3	6547.5	4746.9
12049.2	72.5°	13114.1	18863.2	18096.8	16420.5	10294.7	5509.4	4722.5	3374.3
10986.7	75°	11419.9	15524.7	14254.7	13643.4	8523.6	4324.0	3416.6	2328.6
9450.2	77.5°	9145.2	10927.8	10588.2	10575.4	6405.2	3159.0	2279.9	1459.7
7383.0	80°	6451.3	7092.1	6919.1	7964.8	4297.0	2291.4	1372.5	812.5
5139.0	82.5°	3123.1	3921.6	4025.4	4743.0	2090.2	1348.2	316.5	176.9
2009.5	85°	1222.6	1891.6	1595.5	1800.6	587.0	375.5	7.7	0.0
330.6	87.5°	137.1	219.1	201.2	158.9	71.8	15.4	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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