

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: P950866

Luminaire Tested: **GALN-SB5A-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950866
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-SB5A-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12532 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

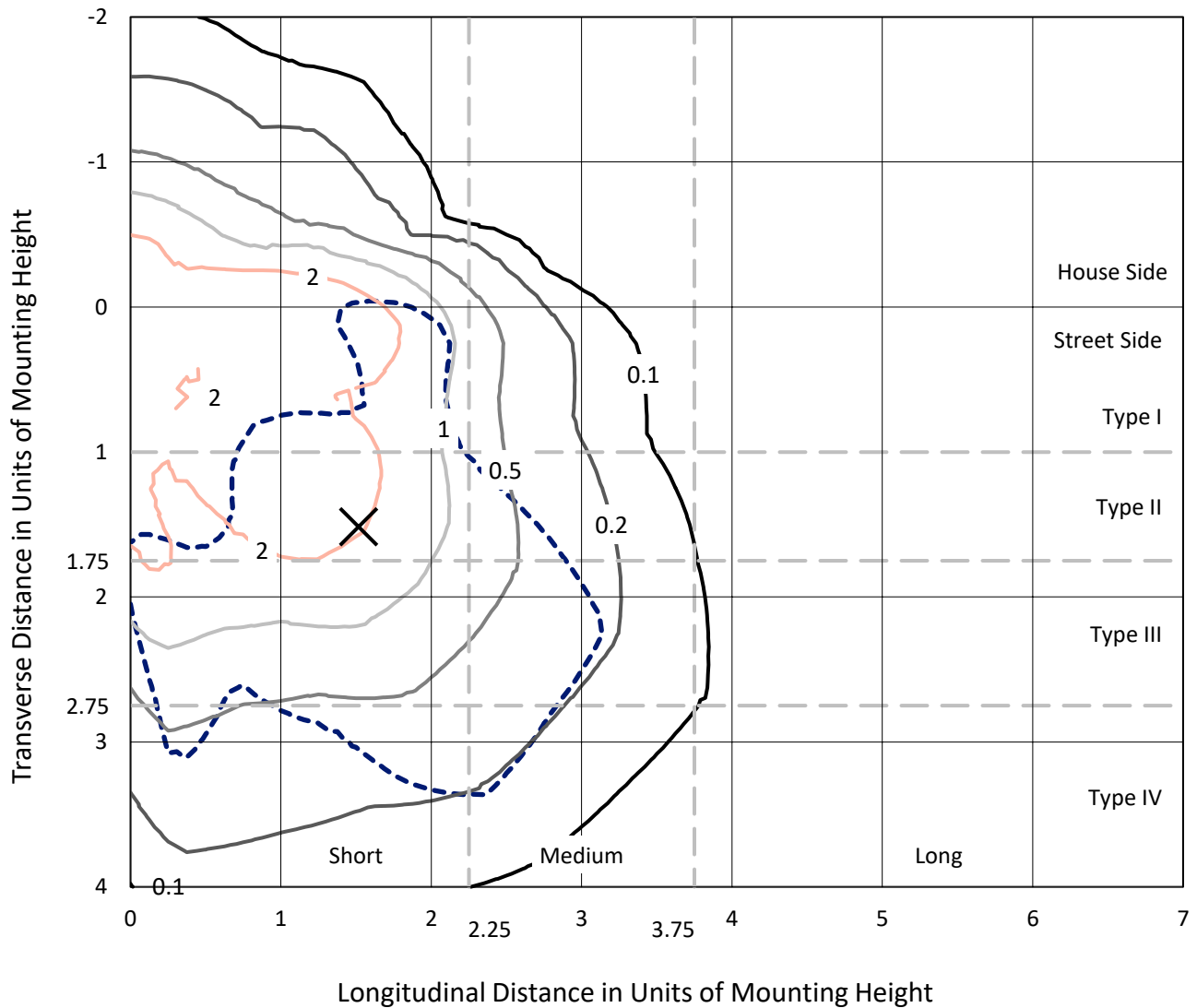
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

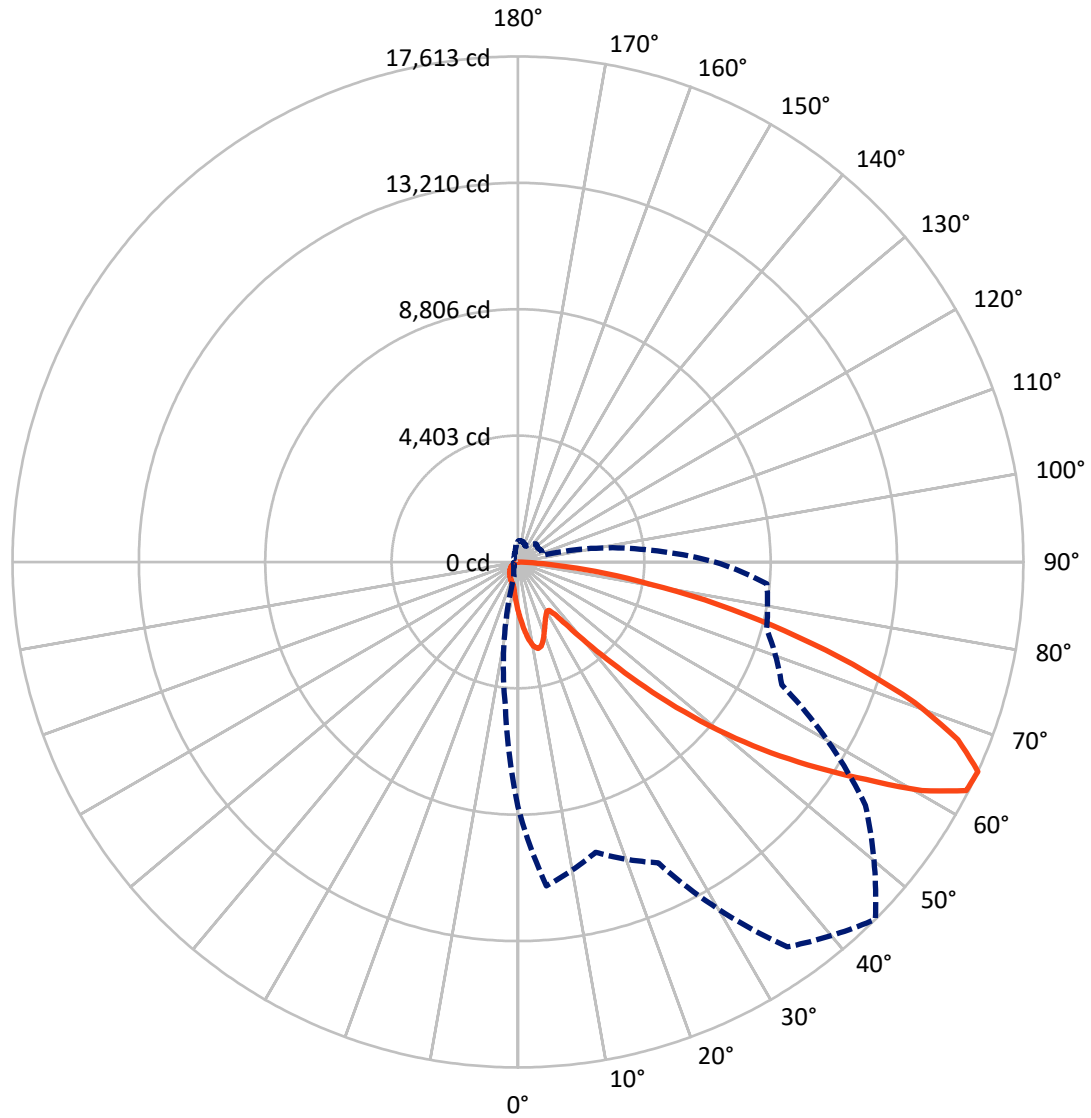
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2491.0	0.0	2491.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	10041.0	0.0	10041.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	12532.0	0.0	12532.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	1.4
10°-20°	512.1	4.1
20°-30°	754.5	6.0
30°-40°	969.3	7.7
40°-50°	1567.7	12.5
50°-60°	2749.0	21.9
60°-70°	3439.8	27.4
70°-80°	2010.1	16.0
80°-90°	358.6	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°	12532.0	100.0
0°-180°	12532.0	100.0



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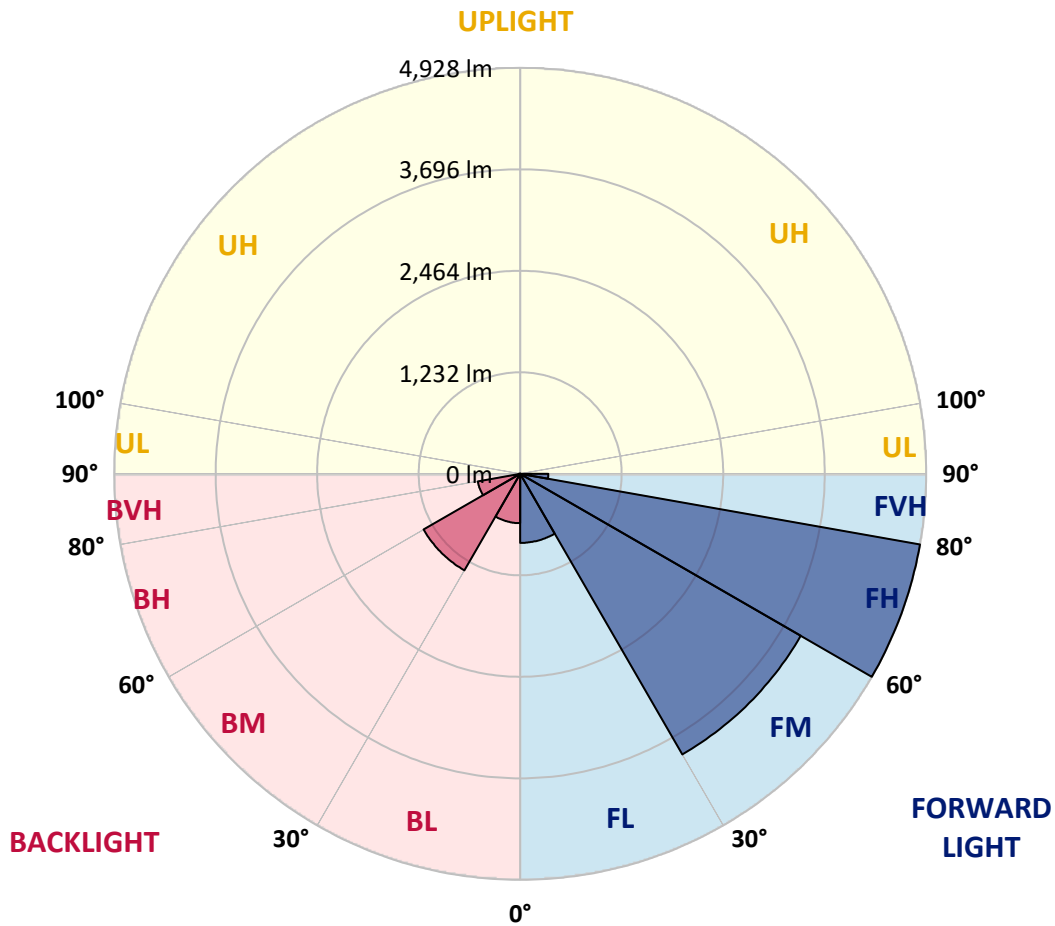
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	838.5	6.7			
FM (30°-60°)	3932.7	31.4			
FH (60°-80°)	4928.0	39.3			G2/5000
FVH (80°-90°)	341.8	2.7			G3/500
BL (0°-30°)	598.9	4.8	B2/1000		
BM (30°-60°)	1353.3	10.8	B2/2500		
BH (60°-80°)	521.9	4.2	B2/1000		G2/1000
BVH (80°-90°)	16.8	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
2.5°	1944.2	1958.9	1991.7	2009.0	2035.7	2037.4	2037.4	2014.1	2013.3	1965.8
5°	2173.0	2207.5	2285.2	2365.5	2382.8	2387.1	2378.5	2331.8	2297.3	2204.9
7.5°	2400.0	2466.5	2584.8	2691.8	2726.4	2726.4	2705.7	2629.7	2558.9	2425.1
10°	2588.2	2672.0	2832.6	2952.6	2992.3	2983.6	2941.3	2845.5	2748.0	2585.7
12.5°	2712.6	2806.7	2982.8	3079.5	3120.1	3097.6	3049.3	2956.0	2853.3	2682.3
15°	2774.7	2873.1	3026.0	3076.9	3065.7	3042.4	3036.3	2991.4	2913.7	2754.0
17.5°	2801.5	2893.0	2999.2	2967.2	2872.3	2854.1	2914.6	2971.6	2952.6	2816.2
20°	2826.5	2903.4	2935.3	2793.7	2628.0	2611.6	2727.2	2889.5	2972.4	2874.0
22.5°	2861.1	2908.5	2842.9	2610.7	2432.0	2394.0	2521.8	2766.1	2978.5	2947.4
25°	2908.5	2921.5	2741.1	2437.2	2257.6	2219.6	2338.7	2628.8	2968.1	3026.8
27.5°	2965.5	2938.8	2643.5	2292.1	2118.6	2083.2	2202.3	2496.7	2938.8	3106.2
30°	3039.8	2961.2	2546.8	2179.9	2019.3	1993.4	2108.2	2382.8	2902.5	3207.2
32.5°	3114.9	2970.7	2457.0	2114.3	1996.9	2006.4	2100.5	2321.5	2862.8	3303.9
35°	3196.0	3000.9	2413.0	2179.0	2184.2	2267.1	2305.9	2378.5	2856.7	3435.2
37.5°	3306.5	3068.3	2465.7	2501.0	2680.6	2852.4	2820.5	2657.3	2926.7	3631.1
40°	3465.4	3186.5	2695.3	3049.3	3417.9	3696.8	3575.0	3164.1	3140.8	3913.4
42.5°	3696.8	3374.7	3102.8	3719.2	4344.2	4803.5	4477.2	3817.6	3515.5	4316.6
45°	4038.6	3679.5	3595.7	4426.3	5486.4	6209.9	5531.3	4514.3	4040.4	4927.0
47.5°	4512.6	4127.6	4057.6	5171.3	6874.6	7810.5	6700.3	5160.1	4637.8	5759.2
50°	5142.0	4731.0	4495.3	5986.3	8396.7	9442.2	7868.3	5783.4	5322.4	6776.2
52.5°	5972.5	5572.8	5005.6	6762.4	9961.9	11039.3	9041.6	6330.8	6171.9	7956.4
55°	7105.2	6839.3	5703.1	7503.1	11526.2	12646.0	10169.1	6847.0	7294.2	9358.4
57.5°	8510.6	8700.6	6708.9	8362.2	12932.6	14301.8	11301.8	7568.8	8751.5	10926.2
60°	9417.1	11175.7	8635.0	9632.1	14530.6	16174.4	12854.0	8941.4	10283.1	11488.3
62.5°	9197.9	11963.1	10941.8	11253.4	16000.0	17535.8	14375.2	10320.2	10571.4	10660.3
65°	8525.3	11327.7	10471.3	11568.5	16372.1	17612.7	14781.8	10142.3	8967.3	8703.2
67.5°	7599.8	10574.0	9353.3	10732.8	15699.5	16538.7	14024.7	8971.7	6929.9	6531.0
70°	6601.0	9740.0	8619.4	9795.3	14417.5	14667.0	12737.5	7890.8	5097.1	4410.7
72.5°	5653.0	8871.5	8117.0	8834.4	12707.3	12191.0	11061.8	6935.1	3711.4	3181.3
75°	4683.5	7590.3	7401.3	7693.1	10458.3	9602.8	9190.9	5742.0	2912.9	2301.6
77.5°	3613.9	5931.0	6366.2	6160.7	7361.6	7132.8	7124.1	4314.9	2128.1	1535.9
80°	2473.4	4133.6	4973.6	4346.0	4777.6	4661.1	5365.6	2894.7	1543.6	924.6
82.5°	1453.8	2516.6	3461.9	2103.9	2641.8	2711.7	3195.2	1408.1	908.2	213.2
85°	589.7	993.7	1353.7	823.6	1274.3	1074.8	1213.0	395.4	253.0	5.2
87.5°	148.5	317.7	222.7	92.4	147.6	135.5	107.1	48.3	10.4	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
1735.3	0°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
1960.6	2.5°	1926.9	1907.1	1857.9	1808.7	1769.0	1715.4	1680.0	1637.7	1597.1	1560.9
2185.1	5°	2130.7	2065.1	1975.3	1893.3	1809.5	1728.4	1648.1	1563.5	1485.8	1438.3
2375.0	7.5°	2296.4	2180.8	2061.6	1957.2	1856.1	1761.2	1655.0	1552.3	1430.5	1365.8
2520.0	10°	2419.9	2268.0	2111.7	1991.7	1889.8	1797.4	1707.7	1604.1	1457.3	1376.1
2608.1	12.5°	2501.0	2320.6	2137.6	2000.3	1886.4	1814.7	1775.0	1734.4	1588.5	1493.6
2672.9	15°	2557.2	2357.7	2155.7	1980.5	1840.6	1787.9	1827.7	1874.3	1781.0	1671.4
2740.2	17.5°	2618.5	2406.1	2163.5	1926.9	1751.7	1729.2	1832.0	1939.9	1935.6	1826.8
2804.1	20°	2683.2	2448.4	2158.3	1840.6	1643.8	1663.6	1794.9	1920.0	1972.7	1914.0
2877.5	22.5°	2749.7	2489.0	2138.5	1728.4	1542.8	1604.9	1736.1	1845.8	1907.9	1889.8
2967.2	25°	2833.4	2545.9	2109.1	1607.5	1459.0	1545.3	1667.9	1756.9	1800.0	1799.2
3063.9	27.5°	2933.6	2621.9	2093.6	1510.0	1399.4	1478.0	1586.8	1666.2	1696.4	1696.4
3183.9	30°	3050.1	2711.7	2076.3	1446.1	1364.9	1408.1	1492.7	1570.4	1600.6	1600.6
3315.2	32.5°	3179.6	2798.0	2034.9	1407.2	1339.0	1339.9	1393.4	1464.2	1500.5	1505.6
3479.2	35°	3335.0	2890.4	1944.2	1376.1	1308.8	1273.4	1299.3	1358.0	1401.2	1412.4
3713.2	37.5°	3538.8	3003.5	1814.7	1330.4	1262.2	1203.5	1209.5	1254.4	1301.9	1319.2
4036.0	40°	3812.4	3136.5	1680.0	1264.8	1196.6	1126.6	1124.0	1156.9	1203.5	1222.5
4472.9	42.5°	4174.2	3296.2	1551.4	1201.7	1117.1	1045.5	1041.2	1067.1	1107.6	1127.5
5049.6	45°	4636.9	3492.1	1440.9	1152.5	1039.4	968.6	966.9	988.5	1023.9	1044.6
5787.7	47.5°	5280.1	3688.1	1365.8	1126.6	978.1	905.6	909.1	928.1	960.0	974.7
6743.4	50°	6118.4	3747.7	1327.8	1126.6	945.3	849.5	866.8	882.3	906.5	915.1
7889.1	52.5°	6923.0	3550.9	1293.3	1133.5	949.7	802.0	839.2	850.4	871.1	874.5
8950.9	55°	7317.5	3052.7	1245.8	1135.3	976.4	761.5	816.7	837.4	845.2	844.3
9567.4	57.5°	7182.0	2468.2	1165.5	1128.4	994.5	735.6	789.1	828.8	834.0	826.2
9449.9	60°	6706.3	1817.3	1104.2	1077.4	987.6	727.8	746.8	809.8	817.6	807.2
8545.2	62.5°	5908.6	1261.3	1056.7	965.2	957.4	725.2	680.3	768.4	787.4	772.7
6868.6	65°	4651.6	891.0	909.9	846.1	891.8	711.4	611.2	718.3	744.2	721.7
4983.1	67.5°	3147.7	643.2	737.3	766.6	785.6	680.3	561.2	661.3	695.8	666.5
3197.8	70°	1699.9	451.5	486.9	645.8	667.3	626.8	516.3	603.5	643.2	611.2
2273.1	72.5°	1004.0	324.6	341.0	518.9	556.0	551.7	466.2	536.1	584.5	546.5
1568.7	75°	553.4	219.3	243.5	376.4	451.5	425.6	400.6	454.1	503.3	466.2
983.3	77.5°	247.8	131.2	169.2	246.9	354.8	291.8	309.9	354.0	399.7	360.9
547.3	80°	95.8	73.4	112.2	134.7	258.1	161.4	199.4	260.7	293.5	262.5
119.1	82.5°	12.1	32.8	48.3	52.7	150.2	85.5	115.7	164.0	161.4	139.9
0.0	85°	0.0	6.0	6.9	3.5	64.7	31.1	38.0	53.5	50.1	38.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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°
1735.3	0°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
1554.0	2.5°	1511.7	1480.6	1465.1	1452.1	1464.2	1471.1	1471.1	1500.5	1517.7	1524.6
1408.1	5°	1332.1	1274.3	1235.4	1212.1	1219.9	1228.5	1238.0	1275.1	1300.2	1316.6
1307.1	7.5°	1190.5	1102.5	1048.1	1019.6	1023.9	1029.9	1037.7	1074.0	1099.0	1120.6
1288.1	10°	1120.6	996.3	924.6	890.1	884.0	880.6	878.0	899.6	918.6	935.8
1365.8	12.5°	1124.0	950.5	863.3	821.0	802.9	782.2	765.8	769.2	781.3	802.9
1504.8	15°	1168.1	935.8	831.4	778.7	748.5	724.3	704.5	700.2	704.5	707.9
1663.6	17.5°	1227.6	934.1	803.8	738.1	707.1	687.2	669.1	663.0	663.9	668.2
1769.0	20°	1275.1	928.9	772.7	699.3	671.7	654.4	636.3	630.2	632.0	632.8
1779.3	22.5°	1300.2	921.2	738.1	660.4	637.1	619.9	603.5	602.6	602.6	607.8
1723.2	25°	1300.2	904.8	707.1	623.3	602.6	587.1	567.2	570.7	572.4	579.3
1636.0	27.5°	1269.1	873.7	682.0	591.4	569.8	554.3	536.1	540.4	543.0	550.8
1549.7	30°	1229.4	836.6	653.5	561.2	536.1	524.9	509.4	511.1	514.5	523.2
1469.4	32.5°	1187.1	792.5	630.2	530.9	505.9	497.3	480.0	482.6	486.1	495.5
1390.0	35°	1140.5	740.7	602.6	503.3	478.3	471.4	451.5	453.2	458.4	468.8
1304.5	37.5°	1091.2	698.4	575.0	476.6	450.7	443.7	423.0	424.8	430.8	442.9
1214.7	40°	1042.9	657.0	545.6	448.1	422.2	416.1	393.7	395.4	402.3	415.3
1124.0	42.5°	990.2	625.0	507.6	418.7	391.1	385.0	364.3	366.9	374.7	387.6
1040.3	45°	927.2	604.3	465.3	391.1	360.0	354.0	335.0	340.1	348.8	361.7
968.6	47.5°	862.5	595.7	429.9	361.7	328.1	322.9	307.3	316.0	325.5	335.8
907.4	50°	800.3	584.5	393.7	334.1	300.4	295.3	284.9	296.1	305.6	315.1
863.3	52.5°	729.5	560.3	360.9	309.9	277.1	275.4	270.2	280.6	289.2	297.8
825.3	55°	656.1	521.4	332.4	288.4	257.3	259.0	256.4	265.0	271.9	279.7
790.8	57.5°	592.2	472.2	309.9	265.0	240.0	245.2	241.7	246.0	250.4	259.9
749.4	60°	527.5	413.5	284.9	237.4	222.7	228.8	219.3	218.4	220.1	222.7
688.1	62.5°	440.3	352.2	253.8	213.2	203.7	206.3	188.2	174.4	174.4	177.0
602.6	65°	354.0	295.3	219.3	185.6	177.8	176.1	150.2	131.2	129.5	137.3
503.3	67.5°	290.9	245.2	184.8	154.5	149.4	151.1	132.1	113.1	111.4	120.0
410.1	70°	240.9	197.7	147.6	119.1	124.3	132.1	113.1	95.0	92.4	100.1
333.2	72.5°	191.7	154.5	113.1	88.1	102.7	112.2	92.4	75.1	73.4	80.3
257.3	75°	140.7	110.5	76.8	63.9	79.4	88.1	67.3	53.5	50.9	57.0
171.8	77.5°	87.2	62.2	48.3	38.0	54.4	58.7	35.4	31.1	30.2	34.5
104.5	80°	40.6	26.8	23.3	12.9	19.9	23.3	14.7	16.4	17.3	20.7
52.7	82.5°	11.2	4.3	0.9	0.0	0.0	6.9	3.5	6.9	8.6	12.9
4.3	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3	7.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
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°
1735.3	0°	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3	1735.3
1573.0	2.5°	1609.2	1643.8	1699.0	1756.0	1812.1	1869.1	1924.3	1944.2
1391.7	5°	1459.9	1539.3	1648.9	1766.4	1887.2	2009.8	2122.1	2173.0
1204.3	7.5°	1293.3	1407.2	1572.1	1756.0	1948.5	2141.0	2318.0	2400.0
1018.7	10°	1115.4	1259.6	1447.8	1696.4	1972.7	2238.6	2482.1	2588.2
855.6	12.5°	946.2	1097.3	1305.3	1603.2	1953.7	2294.7	2587.4	2712.6
740.7	15°	804.6	938.4	1162.9	1492.7	1892.4	2298.2	2637.5	2774.7
676.8	17.5°	698.4	785.6	1017.9	1370.1	1812.1	2266.2	2654.7	2801.5
642.3	20°	645.8	669.9	829.7	1213.0	1737.0	2236.0	2672.0	2826.5
614.7	22.5°	614.7	620.7	678.6	1010.1	1647.2	2226.5	2702.2	2861.1
589.7	25°	589.7	591.4	606.9	800.3	1510.0	2220.5	2748.8	2908.5
563.8	27.5°	564.6	564.6	573.2	644.9	1323.5	2194.6	2809.3	2965.5
537.9	30°	539.6	539.6	545.6	570.7	1105.1	2143.6	2881.8	3039.8
512.0	32.5°	513.7	513.7	518.9	537.0	882.3	2079.7	2948.3	3114.9
485.2	35°	487.8	486.1	493.0	512.0	701.9	1998.6	3014.7	3196.0
458.4	37.5°	460.2	459.3	466.2	487.8	606.1	1904.5	3064.8	3306.5
431.7	40°	430.8	430.8	438.6	461.9	578.4	1786.2	3144.2	3465.4
404.0	42.5°	404.0	402.3	410.9	439.4	557.7	1673.1	3286.7	3696.8
379.0	45°	378.1	374.7	382.5	417.8	521.4	1633.4	3552.6	4038.6
354.8	47.5°	354.0	345.3	352.2	391.9	488.6	1781.9	3987.7	4512.6
333.2	50°	334.1	317.7	323.7	366.0	463.6	2103.9	4552.3	5142.0
313.4	52.5°	313.4	291.8	295.3	334.1	441.2	2410.4	5164.4	5972.5
293.5	55°	291.8	267.6	269.4	302.2	409.2	2456.2	5761.8	7105.2
271.1	57.5°	267.6	245.2	245.2	272.8	385.9	2129.0	6221.1	8510.6
243.5	60°	240.9	226.2	221.9	249.5	406.6	1502.2	6274.6	9417.1
208.1	62.5°	211.5	203.7	197.7	227.1	422.2	890.1	5843.8	9197.9
164.0	65°	177.8	176.1	171.8	249.5	355.7	525.8	5016.8	8525.3
139.9	67.5°	149.4	146.8	146.8	261.6	270.2	330.7	3919.5	7599.8
119.1	70°	128.6	119.1	119.1	197.7	164.0	228.8	2736.7	6601.0
98.4	72.5°	107.9	97.6	90.6	158.0	122.6	167.5	1710.2	5653.0
75.1	75°	86.3	78.6	69.9	104.5	91.5	126.9	993.7	4683.5
47.5	77.5°	62.2	58.7	49.2	76.8	66.5	91.5	591.4	3613.9
29.4	80°	31.9	32.8	31.1	44.0	44.9	62.2	336.7	2473.4
19.0	82.5°	19.0	14.7	16.4	21.6	25.9	35.4	126.9	1453.8
13.8	85°	12.1	7.8	7.8	10.4	12.9	13.8	38.8	589.7
6.9	87.5°	6.0	2.6	3.5	5.2	4.3	3.5	1.7	148.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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