

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: P953407

Luminaire Tested: **GALN-SB7A-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953407
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-SB7A-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 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: 20113 lumens
Efficiency: N/A
Efficacy: 101.0 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): 199.1
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



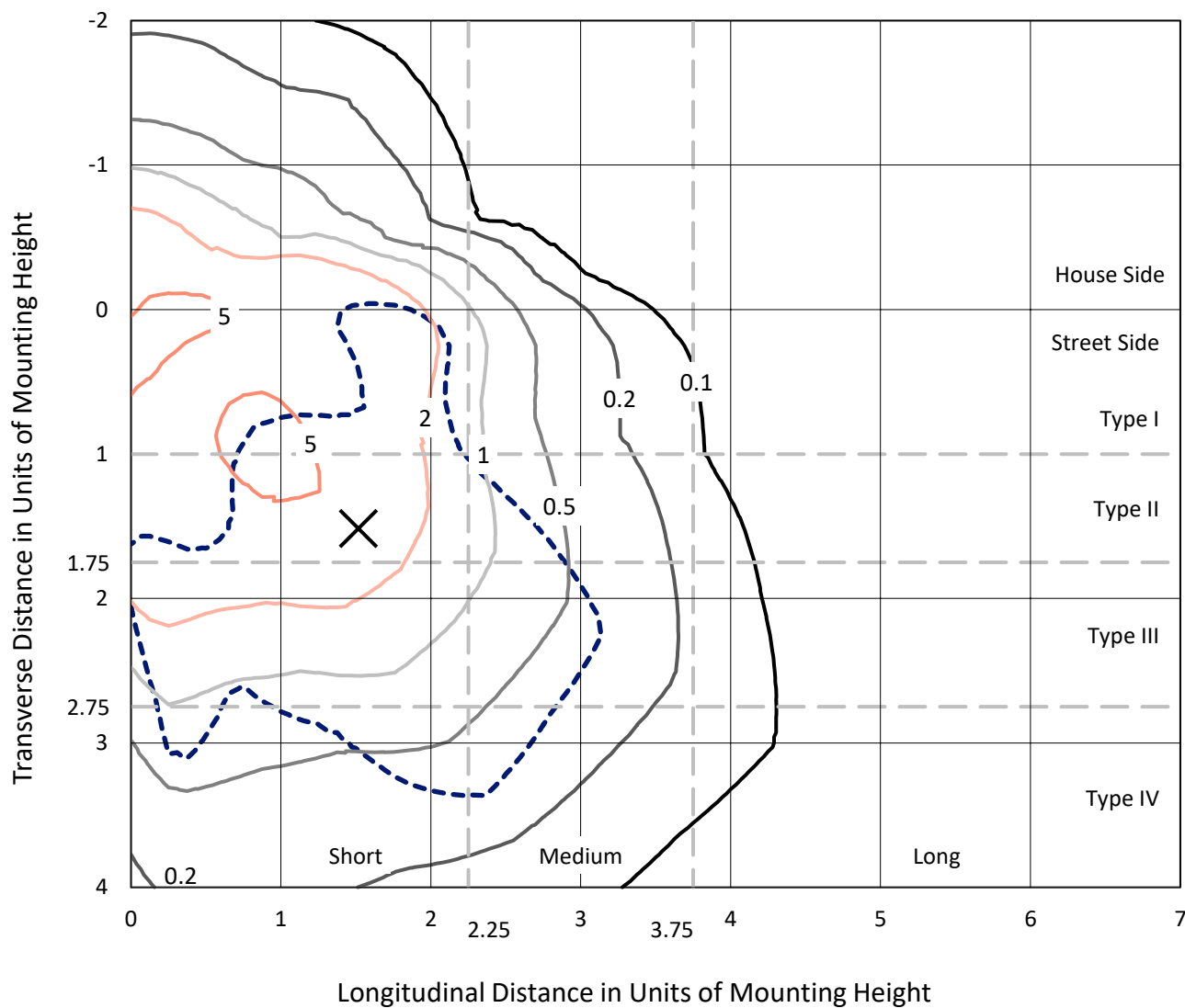
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Iso-Footcandle Lines of Horizontal Illumination

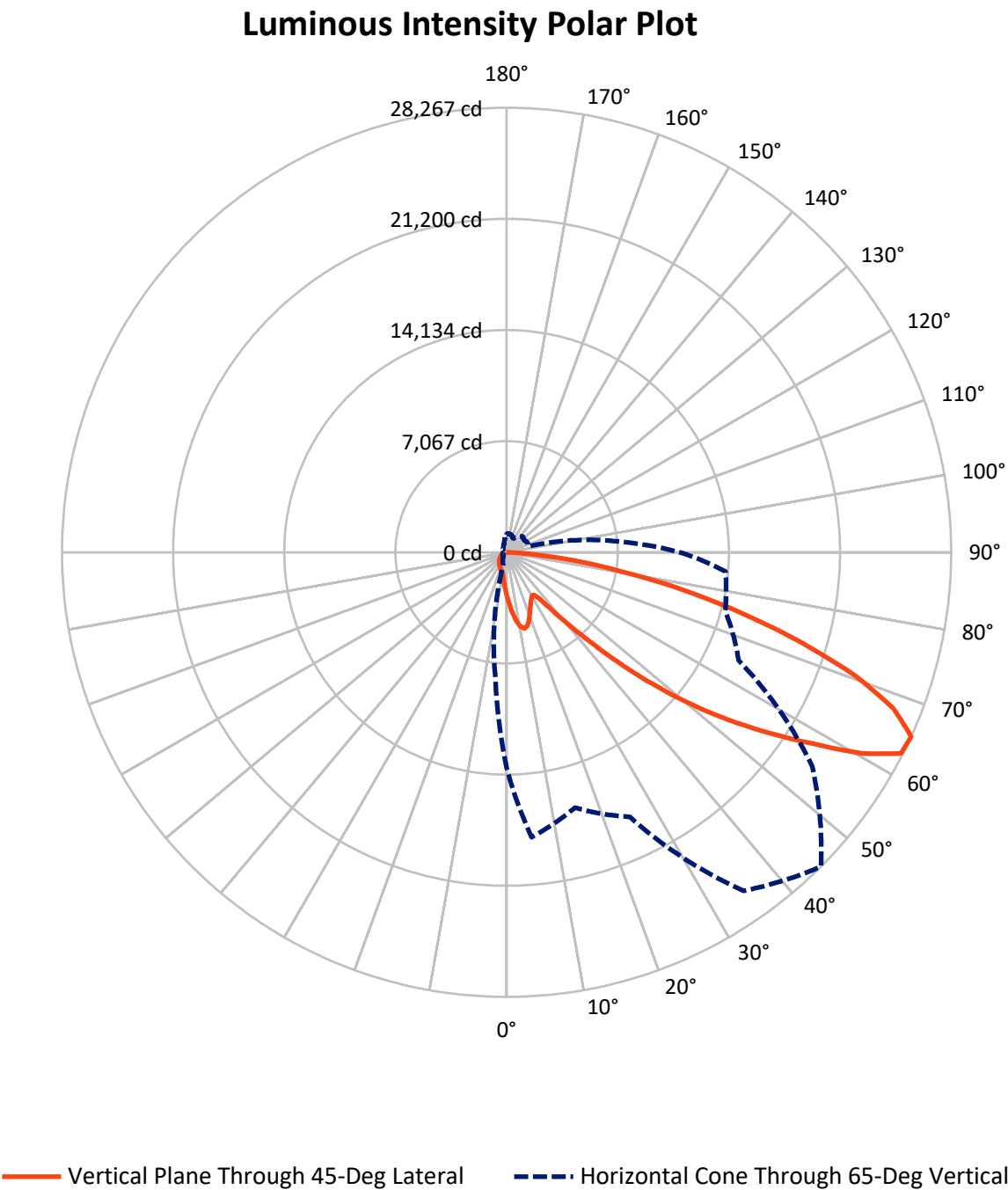
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type IV - Short - N/A

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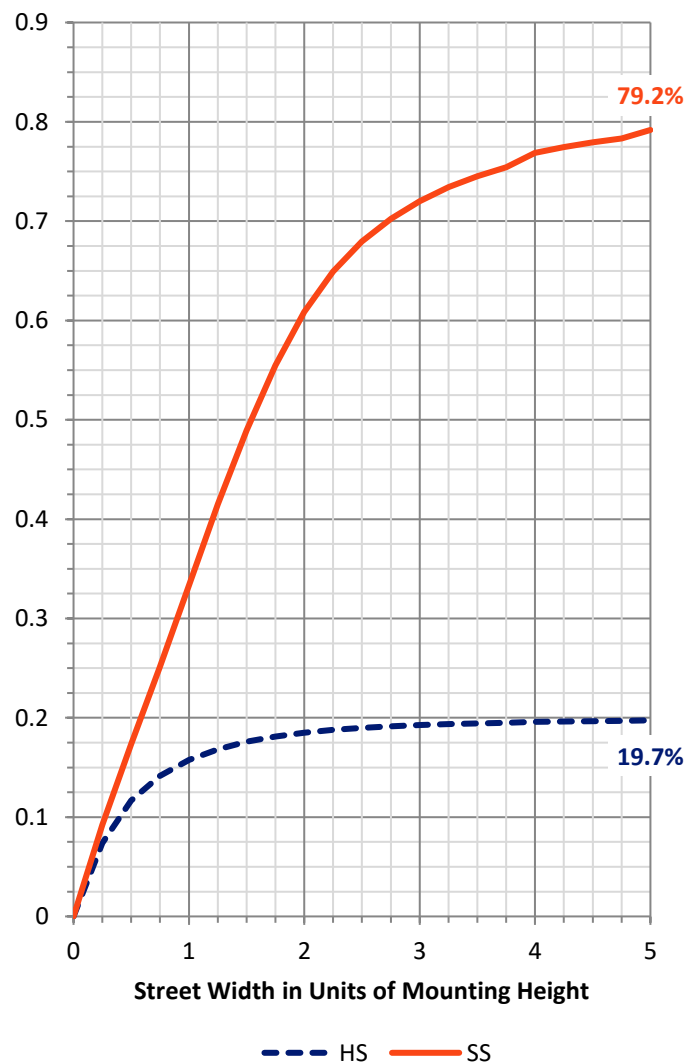
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3997.8	0.0	3997.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	16115.2	0.0	16115.2
	% Fixture	80.1	0.0	80.1
Total	Lumens	20113.0	0.0	20113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	1.4
10°-20°	821.9	4.1
20°-30°	1210.9	6.0
30°-40°	1555.7	7.7
40°-50°	2516.0	12.5
50°-60°	4412.0	21.9
60°-70°	5520.7	27.4
70°-80°	3226.0	16.0
80°-90°	575.6	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°	20113.0	100.0
0°-180°	20113.0	100.0

Coefficient of Utilization



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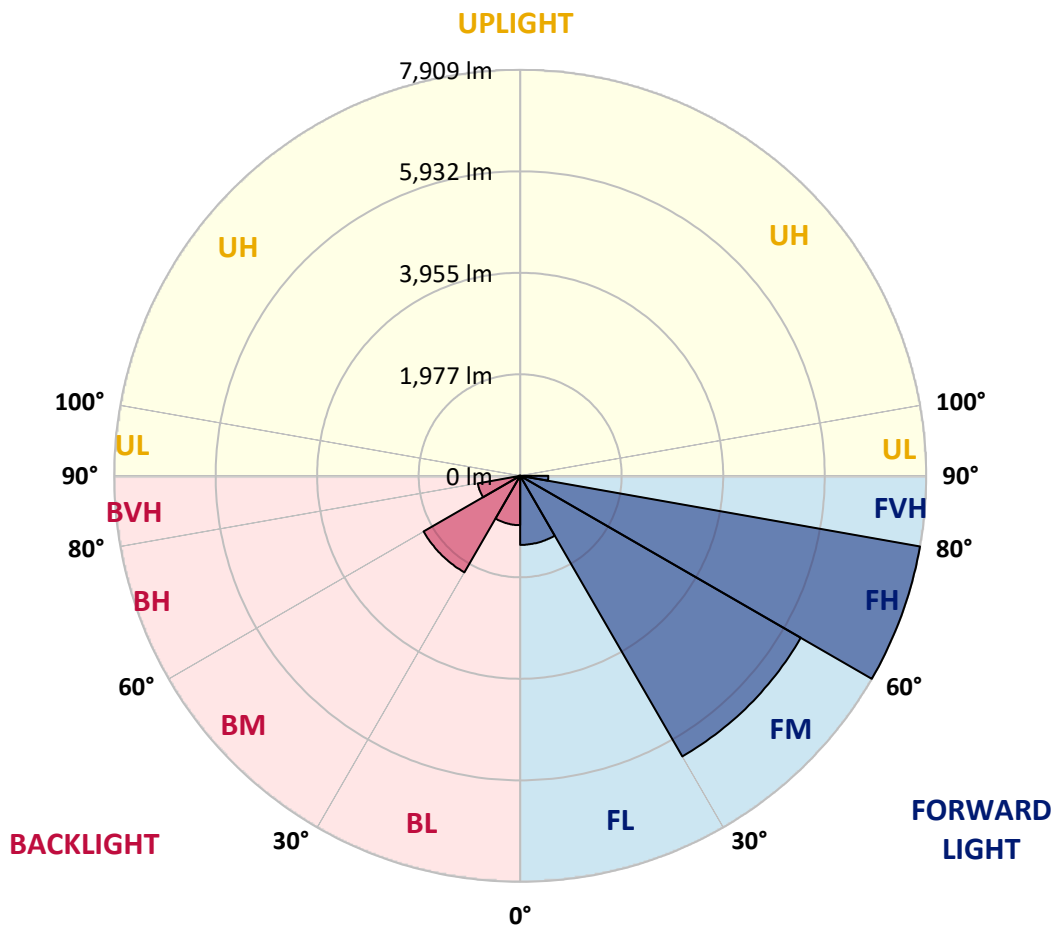
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1345.8	6.7			
FM	(30°-60°)	6311.7	31.4			
FH	(60°-80°)	7909.1	39.3			G4/12000
FVH	(80°-90°)	548.6	2.7			G4/750
BL	(0°-30°)	961.2	4.8	B2/1000		
BM	(30°-60°)	2172.0	10.8	B2/2500		
BH	(60°-80°)	837.6	4.2	B2/1000		G2/1000
BVH	(80°-90°)	27.0	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°	90°
0°	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0
2.5°	3120.3	3143.9	3196.5	3224.2	3267.2	3270.0	3270.0	3232.5	3231.2	3155.0	3146.6
5°	3487.5	3542.9	3667.6	3796.5	3824.2	3831.1	3817.3	3742.4	3687.0	3538.8	3506.9
7.5°	3851.9	3958.6	4148.4	4320.2	4375.6	4375.6	4342.4	4220.5	4106.8	3892.1	3811.7
10°	4154.0	4288.4	4546.1	4738.7	4802.4	4788.5	4720.7	4566.9	4410.3	4149.8	4044.5
12.5°	4353.5	4504.5	4787.2	4942.3	5007.5	4971.4	4893.9	4744.2	4579.3	4305.0	4185.8
15°	4453.2	4611.2	4856.4	4938.2	4920.2	4882.8	4873.1	4801.0	4676.3	4420.0	4289.7
17.5°	4496.2	4643.1	4813.5	4762.2	4609.8	4580.7	4677.7	4769.2	4738.7	4519.7	4397.8
20°	4536.4	4659.7	4711.0	4483.7	4217.7	4191.4	4377.0	4637.5	4770.5	4612.6	4500.3
22.5°	4591.8	4668.0	4562.7	4190.0	3903.2	3842.2	4047.3	4439.4	4780.2	4730.4	4618.1
25°	4668.0	4688.8	4399.2	3911.5	3623.3	3562.3	3753.5	4219.1	4763.6	4857.8	4762.2
27.5°	4759.5	4716.5	4242.6	3678.7	3400.2	3343.4	3534.6	4007.1	4716.5	4985.3	4917.4
30°	4878.6	4752.5	4087.4	3498.6	3240.9	3199.3	3383.6	3824.2	4658.3	5147.4	5110.0
32.5°	4999.2	4767.8	3943.3	3393.3	3204.8	3220.1	3371.1	3725.8	4594.6	5302.6	5320.6
35°	5129.4	4816.3	3872.7	3497.2	3505.5	3638.5	3700.9	3817.3	4584.9	5513.2	5583.9
37.5°	5306.8	4924.3	3957.2	4014.0	4302.2	4577.9	4526.7	4264.8	4697.1	5827.7	5959.4
40°	5561.7	5114.2	4325.8	4893.9	5485.5	5933.0	5737.7	5078.1	5040.7	6280.8	6477.6
42.5°	5933.0	5416.2	4979.8	5969.1	6972.2	7709.3	7185.6	6127.0	5642.1	6927.9	7178.7
45°	6481.7	5905.3	5770.9	7103.8	8805.3	9966.4	8877.4	7245.2	6484.5	7907.5	8104.2
47.5°	7242.4	6624.4	6512.2	8299.6	11033.3	12535.3	10753.5	8281.6	7443.3	9243.2	9288.9
50°	8252.5	7593.0	7214.7	9607.6	13476.1	15154.0	12628.1	9282.0	8542.1	10875.4	10822.7
52.5°	9585.4	8943.9	8033.6	10853.2	15988.2	17717.4	14511.1	10160.4	9905.5	12769.5	12661.4
55°	11403.3	10976.5	9153.1	12042.0	18498.8	20295.9	16320.7	10989.0	11706.7	15019.6	14365.6
57.5°	13659.0	13963.8	10767.3	13420.7	20755.9	22953.4	18138.6	12147.3	14045.6	17535.8	15354.9
60°	15113.9	17936.3	13858.5	15458.9	23320.6	25958.8	20629.8	14350.4	16503.6	18437.9	15166.5
62.5°	14761.9	19199.9	17560.8	18061.0	25678.9	28143.8	23071.2	16563.2	16966.4	17109.1	13714.4
65°	13682.6	18180.1	16805.6	18566.7	26276.1	28267.1	23723.8	16277.7	14392.0	13968.0	11023.6
67.5°	12197.2	16970.5	15011.3	17225.5	25196.7	26543.5	22508.7	14398.9	11122.0	10481.9	7997.5
70°	10594.1	15632.1	13833.6	15720.7	23139.1	23539.5	20442.8	12664.2	8180.4	7078.9	5132.2
72.5°	9072.7	14238.2	13027.2	14178.6	20394.3	19565.7	17753.4	11130.3	5956.6	5105.8	3648.2
75°	7516.7	12182.0	11878.5	12346.9	16784.9	15411.8	14750.8	9215.5	4674.9	3693.9	2517.6
77.5°	5800.0	9518.9	10217.2	9887.5	11814.8	11447.6	11433.8	6925.1	3415.4	2464.9	1578.2
80°	3969.7	6634.1	7982.3	6975.0	7667.8	7480.7	8611.4	4645.8	2477.4	1484.0	878.5
82.5°	2333.3	4039.0	5556.2	3376.6	4239.9	4352.1	5128.0	2259.9	1457.6	342.2	191.2
85°	946.3	1594.8	2172.6	1321.8	2045.1	1725.0	1946.7	634.6	406.0	8.3	0.0
87.5°	238.3	509.9	357.5	148.3	236.9	217.5	171.8	77.6	16.6	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0
2.5°	3092.6	3060.7	2981.8	2902.8	2839.0	2753.1	2696.3	2628.4	2563.3	2505.1	2494.0
5°	3419.6	3314.3	3170.2	3038.6	2904.2	2773.9	2645.1	2509.3	2384.6	2308.4	2259.9
7.5°	3685.6	3500.0	3308.8	3141.1	2979.0	2826.6	2656.1	2491.3	2295.9	2192.0	2097.8
10°	3883.8	3639.9	3389.1	3196.5	3033.0	2884.8	2740.7	2574.4	2338.9	2208.6	2067.3
12.5°	4014.0	3724.4	3430.7	3210.4	3027.5	2912.5	2848.7	2783.6	2549.5	2397.0	2192.0
15°	4104.1	3784.0	3459.8	3178.5	2954.0	2869.5	2933.3	3008.1	2858.4	2682.5	2415.1
17.5°	4202.5	3861.6	3472.3	3092.6	2811.3	2775.3	2940.2	3113.4	3106.5	2931.9	2670.0
20°	4306.4	3929.5	3463.9	2954.0	2638.1	2670.0	2880.6	3081.5	3166.0	3071.8	2839.0
22.5°	4413.1	3994.6	3432.1	2773.9	2476.0	2575.8	2786.4	2962.4	3062.1	3033.0	2855.7
25°	4547.5	4086.1	3385.0	2579.9	2341.6	2480.2	2676.9	2819.6	2888.9	2887.5	2765.6
27.5°	4708.2	4208.0	3360.0	2423.4	2246.0	2372.1	2546.7	2674.2	2722.7	2722.7	2625.7
30°	4895.2	4352.1	3332.3	2320.8	2190.6	2259.9	2395.7	2520.4	2568.9	2568.9	2487.1
32.5°	5103.1	4490.7	3265.8	2258.5	2149.0	2150.4	2236.3	2349.9	2408.1	2416.4	2358.2
35°	5352.5	4638.9	3120.3	2208.6	2100.5	2043.7	2085.3	2179.5	2248.8	2266.8	2230.8
37.5°	5679.5	4820.4	2912.5	2135.2	2025.7	1931.5	1941.2	2013.2	2089.4	2117.2	2093.6
40°	6118.7	5033.8	2696.3	2029.9	1920.4	1808.2	1804.0	1856.7	1931.5	1962.0	1949.5
42.5°	6699.3	5290.1	2489.9	1928.7	1792.9	1677.9	1671.0	1712.6	1777.7	1809.6	1804.0
45°	7441.9	5604.7	2312.5	1849.7	1668.2	1554.6	1551.8	1586.5	1643.3	1676.5	1669.6
47.5°	8474.2	5919.2	2192.0	1808.2	1569.9	1453.5	1459.0	1489.5	1540.8	1564.3	1554.6
50°	9819.6	6014.8	2131.0	1808.2	1517.2	1363.4	1391.1	1416.1	1454.9	1468.7	1456.2
52.5°	11110.9	5698.9	2075.6	1819.3	1524.1	1287.2	1346.8	1364.8	1398.0	1403.6	1385.6
55°	11744.1	4899.4	1999.4	1822.0	1567.1	1222.1	1310.8	1344.0	1356.5	1355.1	1324.6
57.5°	11526.6	3961.4	1870.5	1810.9	1596.2	1180.5	1266.4	1330.2	1338.5	1326.0	1269.2
60°	10763.2	2916.6	1772.2	1729.2	1585.1	1168.0	1198.5	1299.7	1312.1	1295.5	1202.7
62.5°	9482.9	2024.3	1695.9	1549.1	1536.6	1163.9	1091.8	1233.2	1263.6	1240.1	1104.3
65°	7465.5	1429.9	1460.4	1357.9	1431.3	1141.7	981.0	1152.8	1194.4	1158.3	967.1
67.5°	5051.8	1032.3	1183.3	1230.4	1260.9	1091.8	900.6	1061.4	1116.8	1069.7	807.8
70°	2728.2	724.7	781.5	1036.4	1071.0	1005.9	828.6	968.5	1032.3	981.0	658.1
72.5°	1611.4	521.0	547.3	832.7	892.3	885.4	748.2	860.4	938.0	877.1	534.8
75°	888.2	351.9	390.7	604.1	724.7	683.1	642.9	728.8	807.8	748.2	412.9
77.5°	397.7	210.6	271.6	396.3	569.5	468.3	497.4	568.1	641.5	579.2	275.7
80°	153.8	117.8	180.1	216.1	414.3	259.1	320.1	418.4	471.1	421.2	167.7
82.5°	19.4	52.7	77.6	84.5	241.1	137.2	185.7	263.3	259.1	224.5	84.5
85°	0.0	9.7	11.1	5.5	103.9	49.9	61.0	85.9	80.4	61.0	6.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0
2.5°	2426.1	2376.3	2351.3	2330.5	2349.9	2361.0	2361.0	2408.1	2435.8	2446.9	2524.5
5°	2137.9	2045.1	1982.8	1945.3	1957.8	1971.7	1986.9	2046.5	2086.7	2113.0	2233.5
7.5°	1910.7	1769.4	1682.1	1636.4	1643.3	1653.0	1665.5	1723.7	1763.8	1798.5	1932.9
10°	1798.5	1599.0	1484.0	1428.5	1418.8	1413.3	1409.1	1443.8	1474.3	1502.0	1635.0
12.5°	1804.0	1525.5	1385.6	1317.7	1288.6	1255.3	1229.0	1234.5	1253.9	1288.6	1373.1
15°	1874.7	1502.0	1334.3	1249.8	1201.3	1162.5	1130.6	1123.7	1130.6	1136.2	1188.8
17.5°	1970.3	1499.2	1290.0	1184.7	1134.8	1102.9	1073.8	1064.1	1065.5	1072.4	1086.3
20°	2046.5	1490.9	1240.1	1122.3	1078.0	1050.3	1021.2	1011.5	1014.2	1015.6	1030.9
22.5°	2086.7	1478.4	1184.7	1060.0	1022.6	994.8	968.5	967.1	967.1	975.4	986.5
25°	2086.7	1452.1	1134.8	1000.4	967.1	942.2	910.3	915.9	918.6	929.7	946.3
27.5°	2036.8	1402.2	1094.6	949.1	914.5	889.5	860.4	867.4	871.5	884.0	904.8
30°	1973.1	1342.6	1048.9	900.6	860.4	842.4	817.5	820.3	825.8	839.7	863.2
32.5°	1905.2	1272.0	1011.5	852.1	811.9	798.1	770.4	774.5	780.1	795.3	821.6
35°	1830.3	1188.8	967.1	807.8	767.6	756.5	724.7	727.4	735.7	752.4	778.7
37.5°	1751.4	1120.9	922.8	764.8	723.3	712.2	678.9	681.7	691.4	710.8	735.7
40°	1673.8	1054.4	875.7	719.1	677.5	667.8	631.8	634.6	645.7	666.5	692.8
42.5°	1589.3	1003.2	814.7	672.0	627.7	618.0	584.7	588.9	601.3	622.1	648.4
45°	1488.1	969.9	746.8	627.7	577.8	568.1	537.6	545.9	559.8	580.6	608.3
47.5°	1384.2	956.0	690.0	580.6	526.5	518.2	493.3	507.1	522.4	539.0	569.5
50°	1284.4	938.0	631.8	536.2	482.2	473.9	457.2	475.3	490.5	505.7	534.8
52.5°	1170.8	899.2	579.2	497.4	444.8	442.0	433.7	450.3	464.2	478.0	503.0
55°	1053.0	836.9	533.4	462.8	412.9	415.7	411.5	425.4	436.5	448.9	471.1
57.5°	950.5	757.9	497.4	425.4	385.2	393.5	388.0	394.9	401.8	417.1	435.1
60°	846.6	663.7	457.2	381.0	357.5	367.2	351.9	350.6	353.3	357.5	390.7
62.5°	706.6	565.3	407.4	342.2	327.0	331.2	302.1	279.9	279.9	284.0	333.9
65°	568.1	473.9	351.9	297.9	285.4	282.7	241.1	210.6	207.8	220.3	263.3
67.5°	466.9	393.5	296.5	248.0	239.7	242.5	212.0	181.5	178.7	192.6	224.5
70°	386.6	317.3	236.9	191.2	199.5	212.0	181.5	152.4	148.3	160.7	191.2
72.5°	307.6	248.0	181.5	141.3	164.9	180.1	148.3	120.5	117.8	128.9	158.0
75°	225.8	177.4	123.3	102.5	127.5	141.3	108.1	85.9	81.7	91.4	120.5
77.5°	139.9	99.8	77.6	61.0	87.3	94.2	56.8	49.9	48.5	55.4	76.2
80°	65.1	43.0	37.4	20.8	31.9	37.4	23.6	26.3	27.7	33.3	47.1
82.5°	18.0	6.9	1.4	0.0	0.0	11.1	5.5	11.1	13.9	20.8	30.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	6.9	12.5	22.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0	2785.0
2.5°	2582.7	2638.1	2726.8	2818.3	2908.3	2999.8	3088.4	3120.3
5°	2343.0	2470.5	2646.4	2834.9	3028.9	3225.6	3405.7	3487.5
7.5°	2075.6	2258.5	2523.1	2818.3	3127.2	3436.2	3720.3	3851.9
10°	1790.2	2021.6	2323.6	2722.7	3166.0	3592.8	3983.5	4154.0
12.5°	1518.6	1761.1	2095.0	2573.0	3135.6	3682.9	4152.6	4353.5
15°	1291.4	1506.1	1866.4	2395.7	3037.2	3688.4	4232.9	4453.2
17.5°	1120.9	1260.9	1633.6	2198.9	2908.3	3637.1	4260.6	4496.2
20°	1036.4	1075.2	1331.5	1946.7	2787.8	3588.6	4288.4	4536.4
22.5°	986.5	996.2	1089.1	1621.1	2643.7	3573.4	4336.9	4591.8
25°	946.3	949.1	974.1	1284.4	2423.4	3563.7	4411.7	4668.0
27.5°	906.2	906.2	920.0	1035.0	2124.1	3522.1	4508.7	4759.5
30°	866.0	866.0	875.7	915.9	1773.5	3440.4	4625.1	4878.6
32.5°	824.4	824.4	832.7	861.8	1416.1	3337.9	4731.7	4999.2
35°	782.9	780.1	791.2	821.6	1126.5	3207.6	4838.4	5129.4
37.5°	738.5	737.1	748.2	782.9	972.7	3056.6	4918.8	5306.8
40°	691.4	691.4	703.9	741.3	928.3	2866.8	5046.3	5561.7
42.5°	648.4	645.7	659.5	705.3	895.1	2685.2	5274.9	5933.0
45°	606.9	601.3	613.8	670.6	836.9	2621.5	5701.6	6481.7
47.5°	568.1	554.2	565.3	629.1	784.2	2859.8	6400.0	7242.4
50°	536.2	509.9	519.6	587.5	744.1	3376.6	7306.1	8252.5
52.5°	503.0	468.3	473.9	536.2	708.0	3868.5	8288.5	9585.4
55°	468.3	429.5	432.3	485.0	656.8	3942.0	9247.3	11403.3
57.5°	429.5	393.5	393.5	437.8	619.4	3416.8	9984.5	13659.0
60°	386.6	363.0	356.1	400.4	652.6	2410.9	10070.4	15113.9
62.5°	339.5	327.0	317.3	364.4	677.5	1428.5	9379.0	14761.9
65°	285.4	282.7	275.7	400.4	570.9	843.8	8051.6	13682.6
67.5°	239.7	235.5	235.5	419.8	433.7	530.7	6290.5	12197.2
70°	206.5	191.2	191.2	317.3	263.3	367.2	4392.3	10594.1
72.5°	173.2	156.6	145.5	253.6	196.8	268.8	2744.8	9072.7
75°	138.6	126.1	112.2	167.7	146.9	203.7	1594.8	7516.7
77.5°	99.8	94.2	79.0	123.3	106.7	146.9	949.1	5800.0
80°	51.3	52.7	49.9	70.7	72.0	99.8	540.4	3969.7
82.5°	30.5	23.6	26.3	34.6	41.6	56.8	203.7	2333.3
85°	19.4	12.5	12.5	16.6	20.8	22.2	62.4	946.3
87.5°	9.7	4.2	5.5	8.3	6.9	5.5	2.8	238.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)