

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: P948787

Luminaire Tested: **GALN-SB3D-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948787
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-SB3D-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA 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: 21613 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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



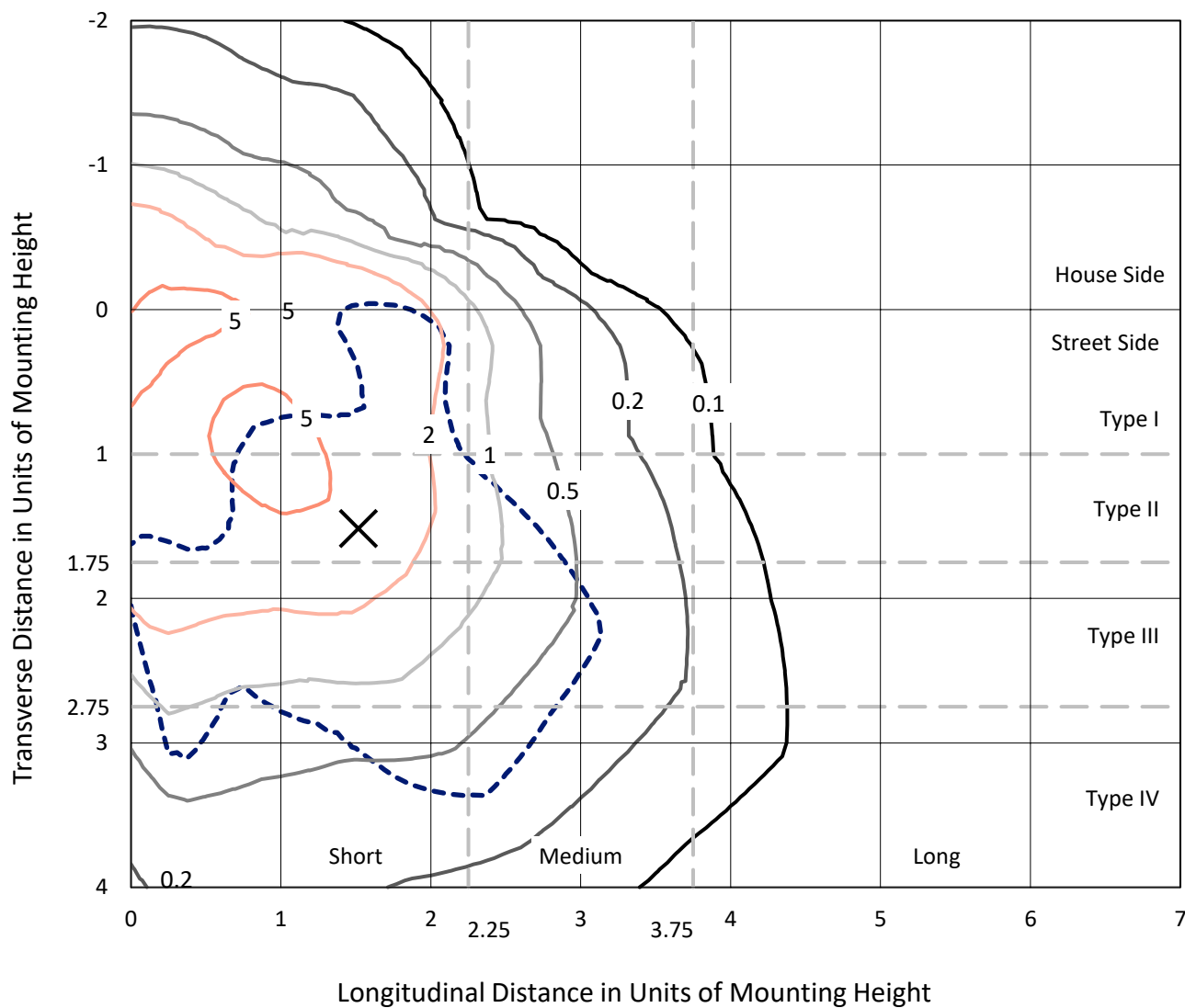
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

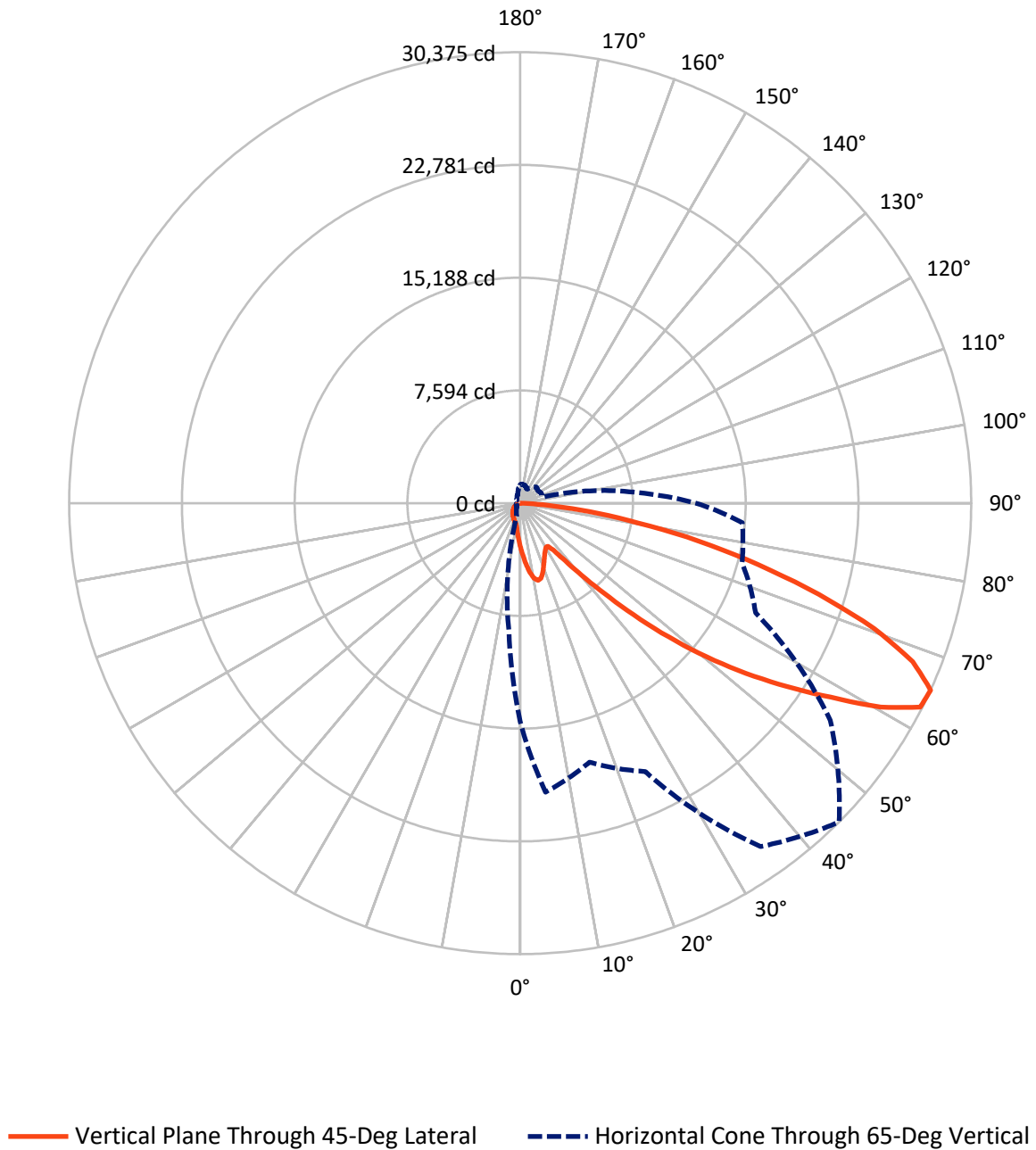


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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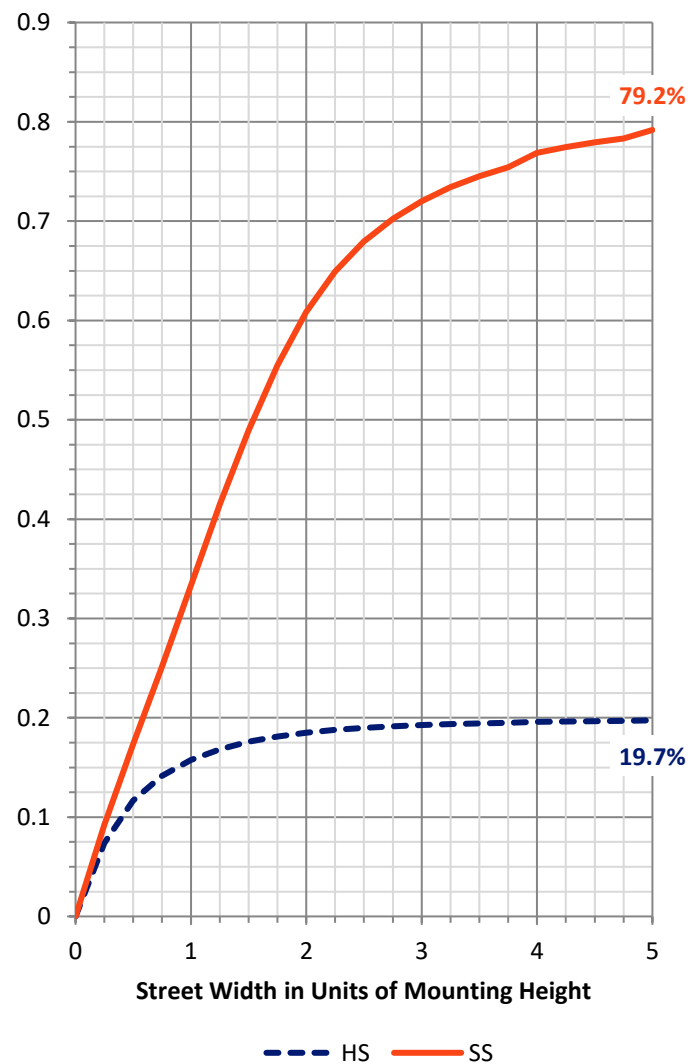
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4296.0	0.0	4296.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	17317.0	0.0	17317.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	21613.0	0.0	21613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	1.4
10°-20°	883.2	4.1
20°-30°	1301.2	6.0
30°-40°	1671.7	7.7
40°-50°	2703.6	12.5
50°-60°	4741.1	21.9
60°-70°	5932.4	27.4
70°-80°	3466.6	16.0
80°-90°	618.5	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°	21613.0	100.0
0°-180°	21613.0	100.0

Coefficient of Utilization



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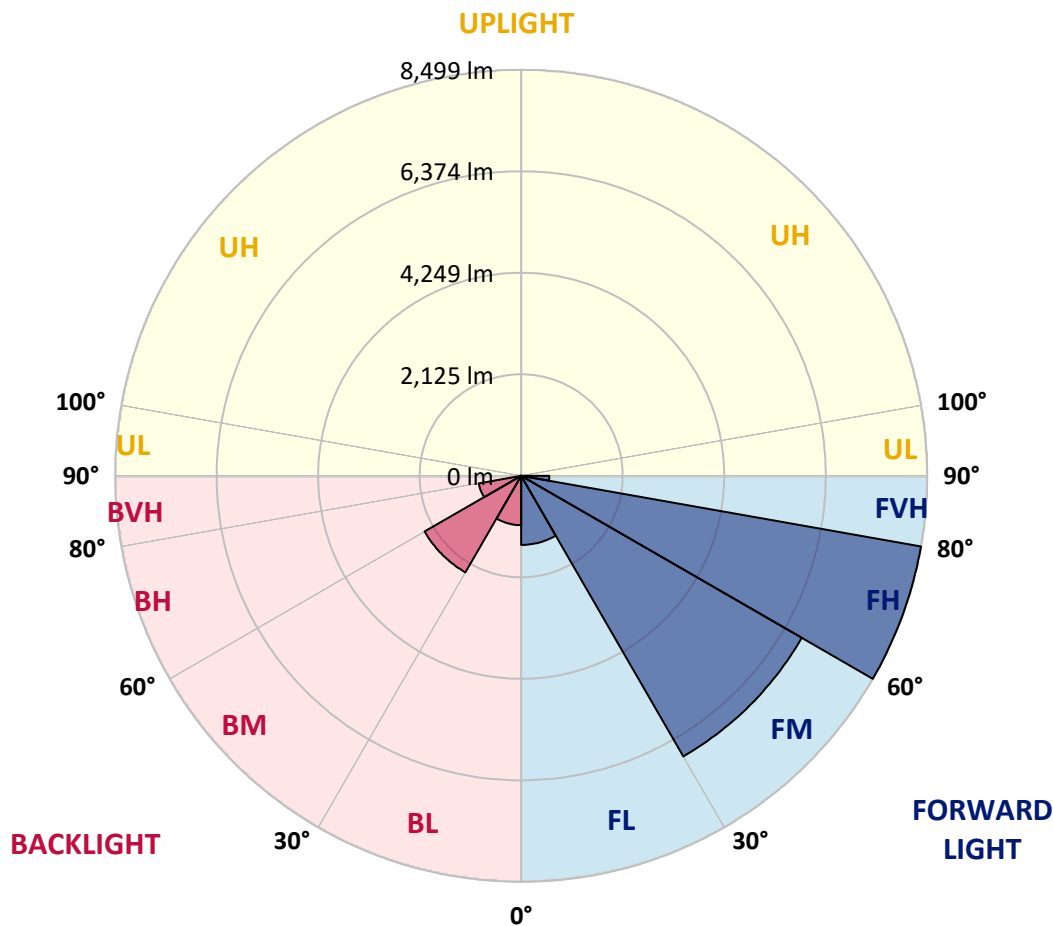
CATALOG NUMBER: GALN-SB3D-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1446.2	6.7			
FM	(30°-60°)	6782.4	31.4			
FH	(60°-80°)	8498.9	39.3			G4/12000
FVH	(80°-90°)	589.5	2.7			G4/750
BL	(0°-30°)	1032.9	4.8	B3/2500		
BM	(30°-60°)	2334.0	10.8	B2/2500		
BH	(60°-80°)	900.1	4.2	B2/1000		G2/1000
BVH	(80°-90°)	29.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7
2.5°	3353.0	3378.3	3434.9	3464.7	3510.8	3513.8	3513.8	3473.6	3472.1	3390.2	3381.3
5°	3747.6	3807.1	3941.1	4079.6	4109.4	4116.8	4101.9	4021.5	3962.0	3802.7	3768.4
7.5°	4139.2	4253.8	4457.8	4642.4	4702.0	4702.0	4666.2	4535.2	4413.1	4182.3	4096.0
10°	4463.8	4608.2	4885.1	5092.1	5160.6	5145.7	5072.7	4907.4	4739.2	4459.3	4346.1
12.5°	4678.2	4840.4	5144.2	5310.9	5380.9	5342.2	5258.8	5098.0	4920.8	4626.0	4498.0
15°	4785.4	4955.1	5218.6	5306.5	5287.1	5246.9	5236.5	5159.1	5025.1	4749.6	4609.7
17.5°	4831.5	4989.3	5172.5	5117.4	4953.6	4922.3	5026.6	5124.8	5092.1	4856.8	4725.8
20°	4874.7	5007.2	5062.3	4818.1	4532.2	4504.0	4703.5	4983.4	5126.3	4956.6	4836.0
22.5°	4934.2	5016.1	4903.0	4502.5	4194.3	4128.7	4349.1	4770.5	5136.7	5083.1	4962.5
25°	5016.1	5038.5	4727.3	4203.2	3893.5	3828.0	4033.5	4533.7	5118.9	5220.1	5117.4
27.5°	5114.4	5068.2	4559.0	3953.1	3653.8	3592.7	3798.2	4305.9	5068.2	5357.1	5284.1
30°	5242.5	5107.0	4392.3	3759.5	3482.6	3437.9	3635.9	4109.4	5005.7	5531.3	5491.1
32.5°	5372.0	5123.3	4237.4	3646.3	3443.8	3460.2	3622.5	4003.7	4937.2	5698.1	5717.4
35°	5511.9	5175.5	4161.5	3758.0	3766.9	3909.9	3976.9	4101.9	4926.8	5924.4	6000.3
37.5°	5702.5	5291.6	4252.3	4313.4	4623.1	4919.4	4864.3	4582.9	5047.4	6262.4	6403.8
40°	5976.5	5495.6	4648.4	5258.8	5894.6	6375.5	6165.6	5456.9	5416.7	6749.2	6960.7
42.5°	6375.5	5820.1	5351.1	6414.2	7492.2	8284.3	7721.5	6584.0	6062.8	7444.5	7714.0
45°	6965.1	6345.7	6201.3	7633.6	9462.0	10709.7	9539.4	7785.5	6968.1	8497.2	8708.6
47.5°	7782.5	7118.5	6997.9	8918.6	11856.2	13470.2	11555.4	8899.2	7998.4	9932.5	9981.7
50°	8867.9	8159.2	7752.8	10324.1	14481.1	16284.2	13569.9	9974.2	9179.1	11686.5	11629.9
52.5°	10300.3	9610.9	8632.7	11662.6	17180.5	19038.7	15593.4	10918.2	10644.2	13721.8	13605.7
55°	12253.7	11795.1	9835.7	12940.1	19878.4	21809.6	17537.9	11808.5	12579.8	16139.8	15437.0
57.5°	14677.7	15005.2	11570.3	14421.6	22303.9	24665.3	19491.3	13053.3	15093.1	18843.6	16500.1
60°	16241.0	19273.9	14892.1	16611.8	25059.8	27894.7	22168.4	15420.6	17734.4	19812.9	16297.6
62.5°	15862.8	20631.8	18870.4	19407.9	27594.0	30242.7	24791.8	17798.4	18231.7	18385.1	14737.2
65°	14703.0	19536.0	18059.0	19951.4	28235.7	30375.3	25493.1	17491.7	15465.3	15009.7	11845.8
67.5°	13106.9	18236.2	16130.9	18510.1	27075.8	28523.0	24187.3	15472.8	11951.5	11263.6	8594.0
70°	11384.2	16797.9	14865.3	16893.2	24864.8	25295.1	21967.4	13608.6	8790.5	7606.8	5514.9
72.5°	9749.4	15300.0	13998.7	15236.0	21915.3	21024.9	19077.4	11960.4	6400.8	5486.6	3920.3
75°	8077.3	13090.5	12764.4	13267.7	18036.7	16561.1	15850.9	9902.7	5023.6	3969.4	2705.3
77.5°	6232.6	10228.8	10979.2	10624.9	12695.9	12301.4	12286.5	7441.6	3670.2	2648.8	1695.9
80°	4265.7	7128.9	8577.6	7495.2	8239.6	8038.6	9253.6	4992.3	2662.2	1594.6	944.0
82.5°	2507.3	4340.2	5970.5	3628.5	4556.1	4676.7	5510.5	2428.4	1566.3	367.8	205.5
85°	1016.9	1713.7	2334.6	1420.4	2197.6	1853.7	2091.9	681.9	436.3	8.9	0.0
87.5°	256.1	547.9	384.1	159.3	254.6	233.8	184.6	83.4	17.9	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°	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7
2.5°	3323.2	3289.0	3204.1	3119.3	3050.8	2958.5	2897.4	2824.5	2754.5	2691.9	2680.0
5°	3674.6	3561.5	3406.6	3265.2	3120.8	2980.8	2842.3	2696.4	2562.4	2480.5	2428.4
7.5°	3960.5	3761.0	3555.5	3375.4	3201.2	3037.4	2854.2	2677.1	2467.1	2355.5	2254.2
10°	4173.4	3911.4	3641.9	3434.9	3259.2	3099.9	2945.1	2766.4	2513.3	2373.3	2221.5
12.5°	4313.4	4002.2	3686.5	3449.8	3253.3	3129.7	3061.2	2991.2	2739.6	2575.8	2355.5
15°	4410.2	4066.2	3717.8	3415.6	3174.4	3083.5	3152.0	3232.4	3071.6	2882.5	2595.2
17.5°	4515.9	4149.6	3731.2	3323.2	3021.0	2982.3	3159.5	3345.6	3338.1	3150.5	2869.1
20°	4627.5	4222.5	3722.3	3174.4	2834.9	2869.1	3095.4	3311.3	3402.2	3300.9	3050.8
22.5°	4742.2	4292.5	3688.0	2980.8	2660.7	2767.9	2994.2	3183.3	3290.5	3259.2	3068.6
25°	4886.6	4390.8	3637.4	2772.4	2516.3	2665.1	2876.6	3029.9	3104.4	3102.9	2971.9
27.5°	5059.3	4521.8	3610.6	2604.1	2413.5	2549.0	2736.6	2873.6	2925.7	2925.7	2821.5
30°	5260.3	4676.7	3580.8	2493.9	2354.0	2428.4	2574.3	2708.3	2760.4	2760.4	2672.6
32.5°	5483.7	4825.6	3509.4	2426.9	2309.3	2310.8	2403.1	2525.2	2587.7	2596.7	2534.1
35°	5751.7	4984.9	3353.0	2373.3	2257.2	2196.1	2240.8	2342.1	2416.5	2435.9	2397.1
37.5°	6103.0	5179.9	3129.7	2294.4	2176.8	2075.5	2086.0	2163.4	2245.3	2275.1	2249.7
40°	6575.0	5409.2	2897.4	2181.3	2063.6	1943.0	1938.6	1995.1	2075.5	2108.3	2094.9
42.5°	7198.9	5684.7	2675.6	2072.6	1926.6	1803.1	1795.6	1840.3	1910.3	1944.5	1938.6
45°	7996.9	6022.6	2485.0	1987.7	1792.6	1670.6	1667.6	1704.8	1765.8	1801.6	1794.1
47.5°	9106.2	6360.6	2355.5	1943.0	1686.9	1561.9	1567.8	1600.6	1655.7	1681.0	1670.6
50°	10551.9	6463.4	2289.9	1943.0	1630.4	1465.1	1494.9	1521.7	1563.4	1578.2	1564.8
52.5°	11939.6	6123.9	2230.4	1954.9	1637.8	1383.2	1447.2	1466.6	1502.3	1508.3	1488.9
55°	12620.0	5264.8	2148.5	1957.9	1684.0	1313.2	1408.5	1444.2	1457.6	1456.2	1423.4
57.5°	12386.2	4256.8	2010.0	1946.0	1715.2	1268.6	1360.9	1429.4	1438.3	1424.9	1363.8
60°	11565.9	3134.2	1904.3	1858.2	1703.3	1255.2	1287.9	1396.6	1410.0	1392.1	1292.4
62.5°	10190.1	2175.3	1822.4	1664.6	1651.2	1250.7	1173.3	1325.1	1357.9	1332.6	1186.7
65°	8022.2	1536.6	1569.3	1459.1	1538.0	1226.9	1054.1	1238.8	1283.4	1244.7	1039.3
67.5°	5428.6	1109.2	1271.5	1322.2	1354.9	1173.3	967.8	1140.5	1200.1	1149.4	868.0
70°	2931.7	778.7	839.7	1113.7	1150.9	1080.9	890.4	1040.7	1109.2	1054.1	707.2
72.5°	1731.6	559.8	588.1	894.8	958.9	951.4	804.0	924.6	1008.0	942.5	574.7
75°	954.4	378.2	419.9	649.2	778.7	734.0	690.9	783.2	868.0	804.0	443.7
77.5°	427.3	226.3	291.8	425.8	611.9	503.3	534.5	610.5	689.4	622.4	296.3
80°	165.3	126.6	193.6	232.3	445.2	278.4	343.9	449.7	506.2	452.6	180.2
82.5°	20.8	56.6	83.4	90.8	259.1	147.4	199.5	282.9	278.4	241.2	90.8
85°	0.0	10.4	11.9	6.0	111.7	53.6	65.5	92.3	86.4	65.5	7.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7
2.5°	2607.1	2553.5	2526.7	2504.3	2525.2	2537.1	2537.1	2587.7	2617.5	2629.4	2712.8
5°	2297.4	2197.6	2130.6	2090.4	2103.8	2118.7	2135.1	2199.1	2242.3	2270.6	2400.1
7.5°	2053.2	1901.3	1807.5	1758.4	1765.8	1776.3	1789.7	1852.2	1895.4	1932.6	2077.0
10°	1932.6	1718.2	1594.6	1535.1	1524.6	1518.7	1514.2	1551.4	1584.2	1614.0	1756.9
12.5°	1938.6	1639.3	1488.9	1416.0	1384.7	1349.0	1320.7	1326.6	1347.5	1384.7	1475.5
15°	2014.5	1614.0	1433.8	1343.0	1290.9	1249.2	1215.0	1207.5	1215.0	1220.9	1277.5
17.5°	2117.2	1611.0	1386.2	1273.0	1219.4	1185.2	1153.9	1143.5	1145.0	1152.4	1167.3
20°	2199.1	1602.1	1332.6	1206.0	1158.4	1128.6	1097.3	1086.9	1089.9	1091.4	1107.7
22.5°	2242.3	1588.7	1273.0	1139.0	1098.8	1069.0	1040.7	1039.3	1039.3	1048.2	1060.1
25°	2242.3	1560.4	1219.4	1075.0	1039.3	1012.5	978.2	984.2	987.1	999.1	1016.9
27.5°	2188.7	1506.8	1176.2	1019.9	982.7	955.9	924.6	932.1	936.5	949.9	972.3
30°	2120.2	1442.8	1127.1	967.8	924.6	905.3	878.5	881.4	887.4	902.3	927.6
32.5°	2047.3	1366.8	1086.9	915.7	872.5	857.6	827.8	832.3	838.3	854.6	882.9
35°	1966.9	1277.5	1039.3	868.0	824.9	812.9	778.7	781.7	790.6	808.5	836.8
37.5°	1882.0	1204.5	991.6	821.9	777.2	765.3	729.6	732.5	743.0	763.8	790.6
40°	1798.6	1133.1	941.0	772.7	728.1	717.7	678.9	681.9	693.8	716.2	744.5
42.5°	1707.8	1078.0	875.5	722.1	674.5	664.1	628.3	632.8	646.2	668.5	696.8
45°	1599.1	1042.2	802.5	674.5	620.9	610.5	577.7	586.6	601.5	623.9	653.6
47.5°	1487.4	1027.3	741.5	623.9	565.8	556.9	530.1	544.9	561.3	579.2	611.9
50°	1380.2	1008.0	678.9	576.2	518.1	509.2	491.3	510.7	527.1	543.5	574.7
52.5°	1258.1	966.3	622.4	534.5	477.9	475.0	466.0	483.9	498.8	513.7	540.5
55°	1131.6	899.3	573.2	497.3	443.7	446.7	442.2	457.1	469.0	482.4	506.2
57.5°	1021.4	814.4	534.5	457.1	413.9	422.9	416.9	424.3	431.8	448.2	467.5
60°	909.7	713.2	491.3	409.5	384.1	394.6	378.2	376.7	379.7	384.1	419.9
62.5°	759.3	607.5	437.7	367.8	351.4	355.8	324.6	300.8	300.8	305.2	358.8
65°	610.5	509.2	378.2	320.1	306.7	303.7	259.1	226.3	223.3	236.7	282.9
67.5°	501.8	422.9	318.6	266.5	257.6	260.6	227.8	195.0	192.1	207.0	241.2
70°	415.4	341.0	254.6	205.5	214.4	227.8	195.0	163.8	159.3	172.7	205.5
72.5°	330.5	266.5	195.0	151.9	177.2	193.6	159.3	129.5	126.6	138.5	169.7
75°	242.7	190.6	132.5	110.2	137.0	151.9	116.1	92.3	87.8	98.3	129.5
77.5°	150.4	107.2	83.4	65.5	93.8	101.2	61.0	53.6	52.1	59.6	81.9
80°	70.0	46.2	40.2	22.3	34.2	40.2	25.3	28.3	29.8	35.7	50.6
82.5°	19.4	7.4	1.5	0.0	0.0	11.9	6.0	11.9	14.9	22.3	32.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.4	13.4	23.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	11.9
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°	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7	2992.7
2.5°	2775.3	2834.9	2930.2	3028.4	3125.2	3223.5	3318.8	3353.0
5°	2517.7	2654.7	2843.8	3046.3	3254.8	3466.2	3659.7	3747.6
7.5°	2230.4	2426.9	2711.3	3028.4	3360.5	3692.5	3997.7	4139.2
10°	1923.7	2172.3	2496.9	2925.7	3402.2	3860.7	4280.6	4463.8
12.5°	1631.8	1892.4	2251.2	2764.9	3369.4	3957.5	4462.3	4678.2
15°	1387.7	1618.4	2005.6	2574.3	3263.7	3963.5	4548.6	4785.4
17.5°	1204.5	1354.9	1755.4	2362.9	3125.2	3908.4	4578.4	4831.5
20°	1113.7	1155.4	1430.8	2091.9	2995.7	3856.3	4608.2	4874.7
22.5°	1060.1	1070.5	1170.3	1742.0	2840.8	3839.9	4660.3	4934.2
25°	1016.9	1019.9	1046.7	1380.2	2604.1	3829.5	4740.7	5016.1
27.5°	973.7	973.7	988.6	1112.2	2282.5	3784.8	4844.9	5114.4
30°	930.6	930.6	941.0	984.2	1905.8	3697.0	4970.0	5242.5
32.5°	885.9	885.9	894.8	926.1	1521.7	3586.8	5084.6	5372.0
35°	841.2	838.3	850.2	882.9	1210.5	3446.8	5199.3	5511.9
37.5°	793.6	792.1	804.0	841.2	1045.2	3284.5	5285.6	5702.5
40°	743.0	743.0	756.4	796.6	997.6	3080.6	5422.6	5976.5
42.5°	696.8	693.8	708.7	757.9	961.8	2885.5	5668.3	6375.5
45°	652.1	646.2	659.6	720.6	899.3	2817.0	6126.9	6965.1
47.5°	610.5	595.6	607.5	676.0	842.7	3073.1	6877.3	7782.5
50°	576.2	547.9	558.3	631.3	799.5	3628.5	7851.0	8867.9
52.5°	540.5	503.3	509.2	576.2	760.8	4157.0	8906.7	10300.3
55°	503.3	461.6	464.5	521.1	705.7	4235.9	9937.0	12253.7
57.5°	461.6	422.9	422.9	470.5	665.5	3671.7	10729.1	14677.7
60°	415.4	390.1	382.6	430.3	701.3	2590.7	10821.4	16241.0
62.5°	364.8	351.4	341.0	391.6	728.1	1535.1	10078.4	15862.8
65°	306.7	303.7	296.3	430.3	613.4	906.7	8652.1	14703.0
67.5°	257.6	253.1	253.1	451.1	466.0	570.3	6759.7	13106.9
70°	221.8	205.5	205.5	341.0	282.9	394.6	4719.8	11384.2
72.5°	186.1	168.2	156.3	272.5	211.4	288.8	2949.5	9749.4
75°	148.9	135.5	120.6	180.2	157.8	218.9	1713.7	8077.3
77.5°	107.2	101.2	84.9	132.5	114.6	157.8	1019.9	6232.6
80°	55.1	56.6	53.6	75.9	77.4	107.2	580.7	4265.7
82.5°	32.8	25.3	28.3	37.2	44.7	61.0	218.9	2507.3
85°	20.8	13.4	13.4	17.9	22.3	23.8	67.0	1016.9
87.5°	10.4	4.5	6.0	8.9	7.4	6.0	3.0	256.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)