

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: P948776

Luminaire Tested: **GALN-SB3D-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19428 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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

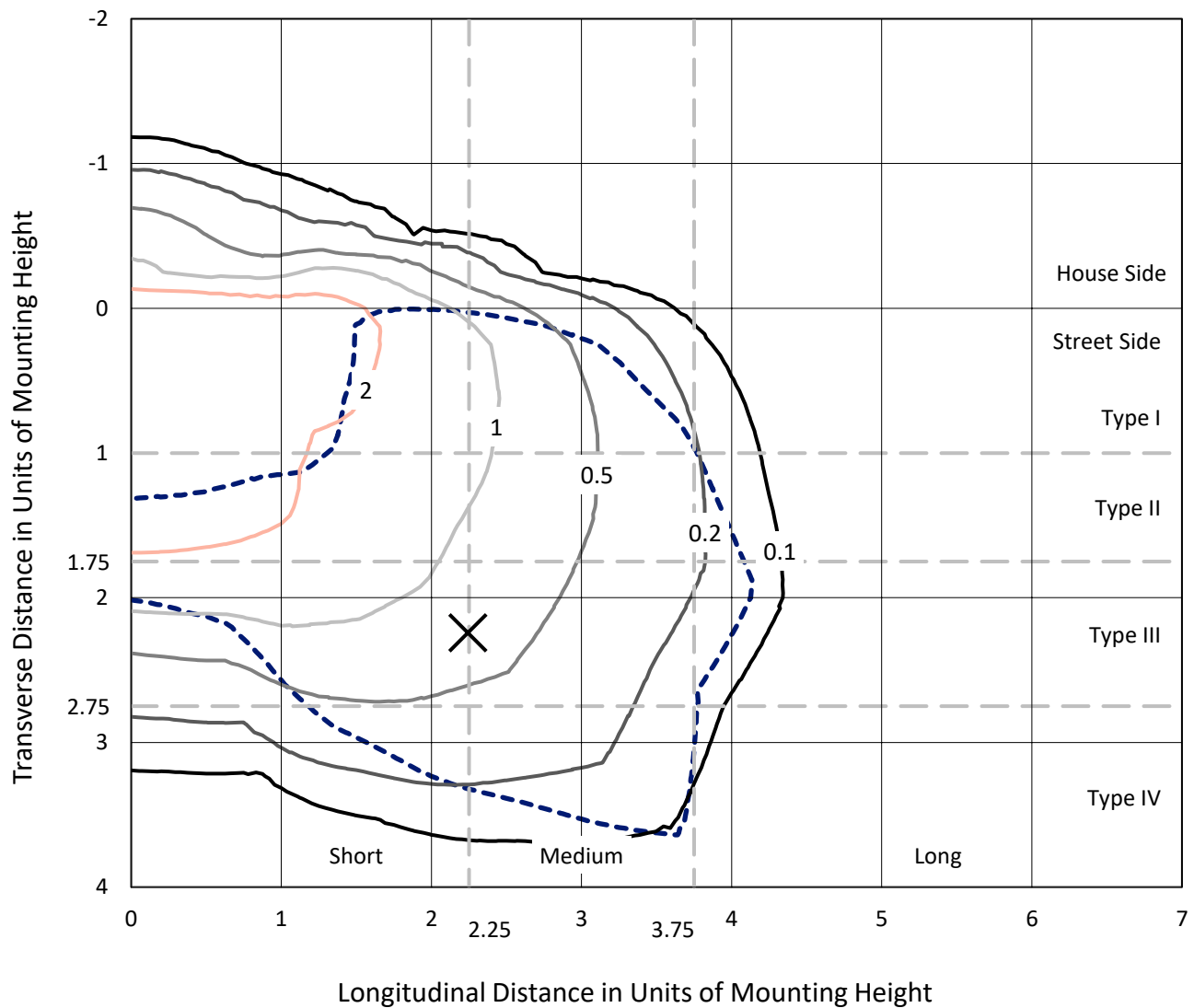


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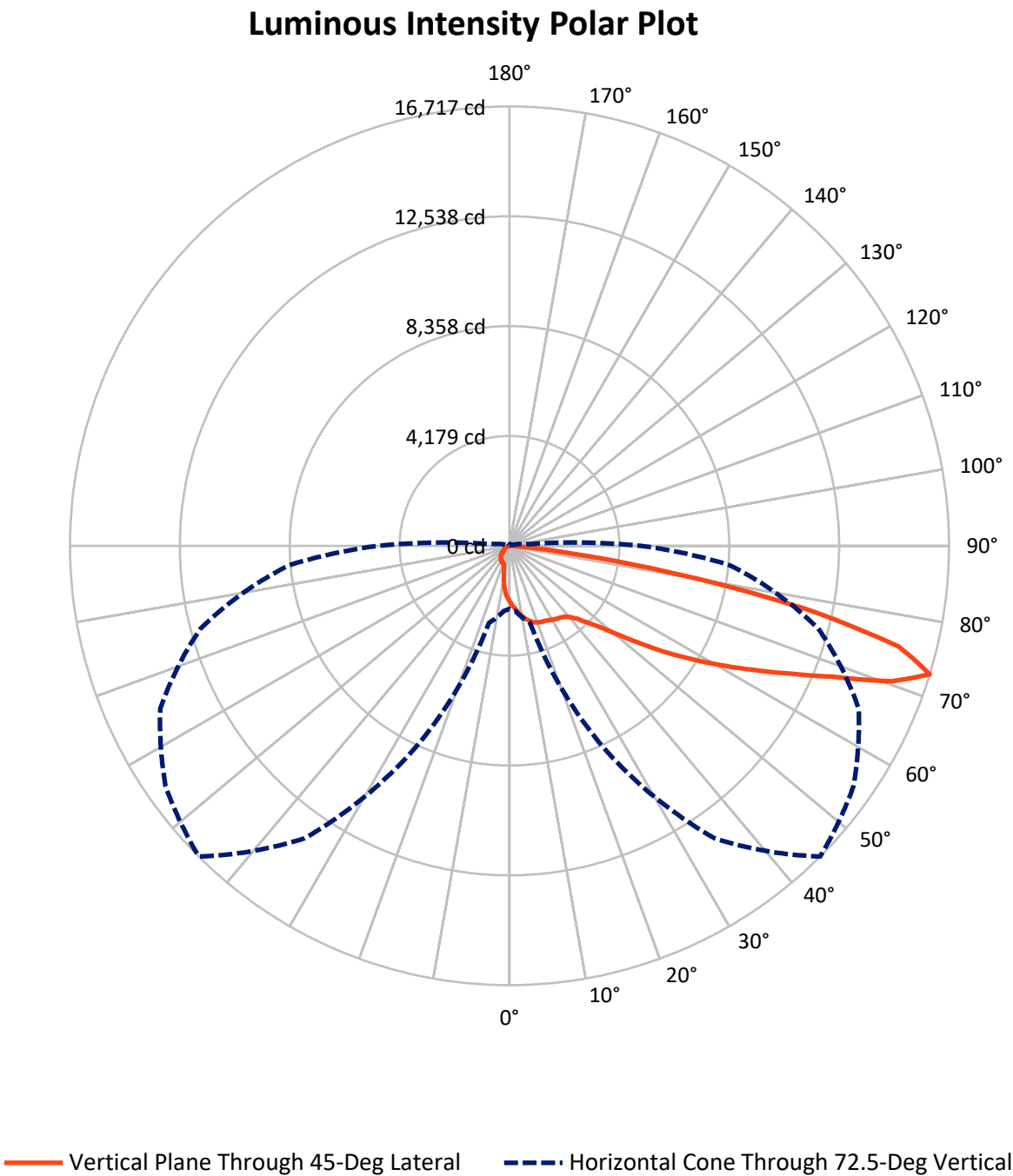
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type IV - Short - N/A

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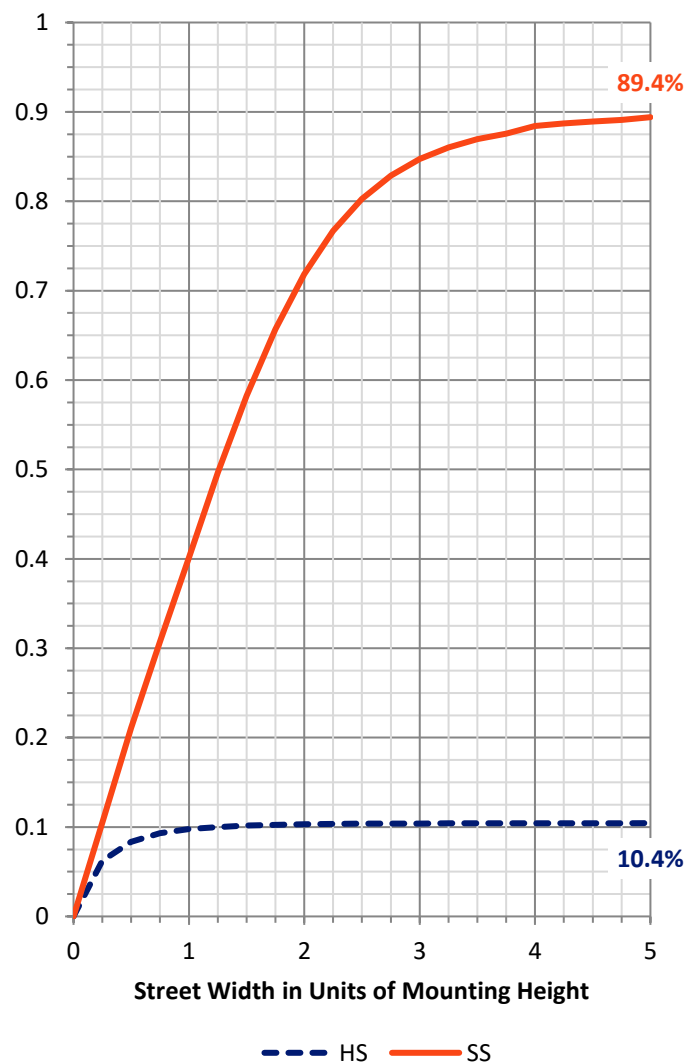
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2041.3	0.0	2041.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17386.7	0.0	17386.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	19428.0	0.0	19428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.0
10°-20°	586.1	3.0
20°-30°	962.4	5.0
30°-40°	1365.0	7.0
40°-50°	2256.1	11.6
50°-60°	4052.9	20.9
60°-70°	5627.7	29.0
70°-80°	4082.1	21.0
80°-90°	295.1	1.5
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°	19428.0	100.0
0°-180°	19428.0	100.0

Coefficient of Utilization



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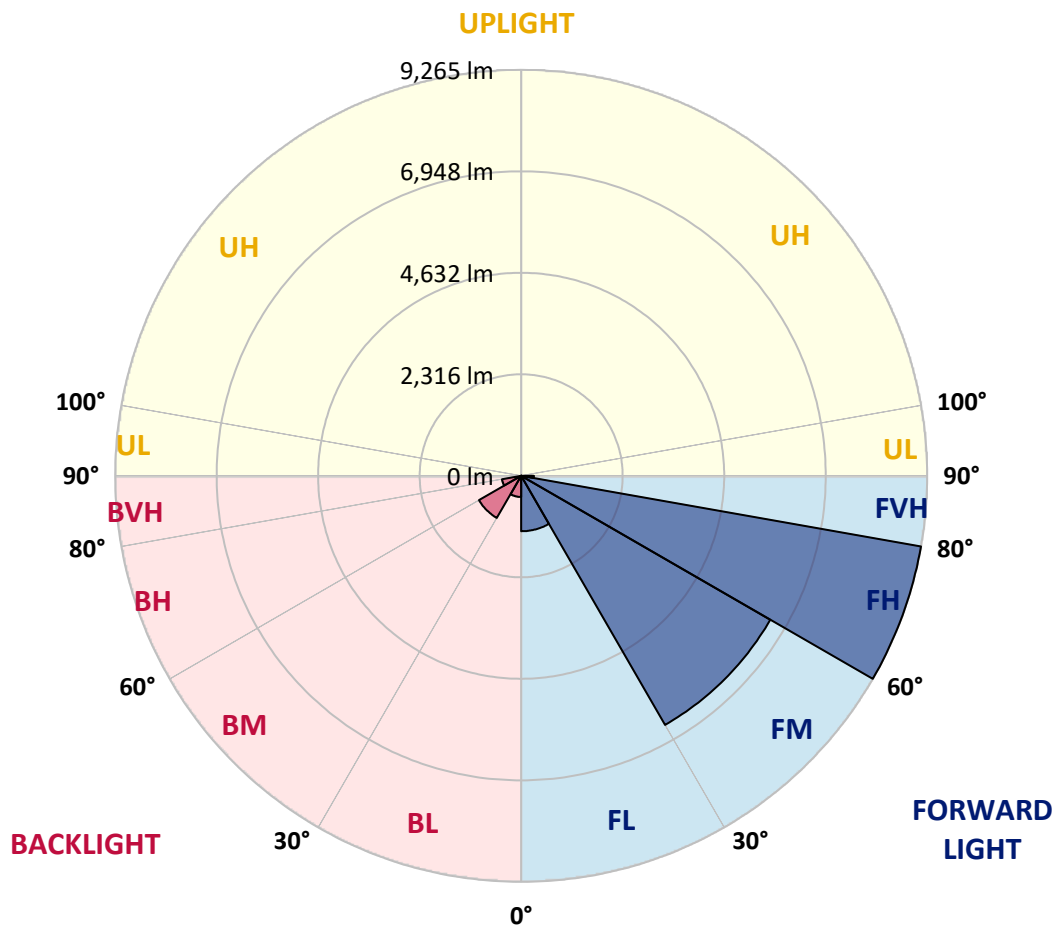
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1265.5	6.5			
FM	(30°-60°)	6563.8	33.8			
FH	(60°-80°)	9264.7	47.7			G4/12000
FVH	(80°-90°)	292.6	1.5			G3/500
BL	(0°-30°)	483.5	2.5	B1/500		
BM	(30°-60°)	1110.2	5.7	B2/2500		
BH	(60°-80°)	445.1	2.3	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
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°	46°	55°	65°	75°	85°
0°	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4
2.5°	2324.6	2328.6	2326.0	2310.1	2283.5	2268.9	2261.0	2234.5	2217.2	2186.7	2154.9
5°	2538.1	2554.1	2544.8	2512.9	2462.6	2426.7	2416.1	2361.8	2312.7	2255.7	2189.4
7.5°	2764.9	2772.9	2755.6	2714.5	2646.9	2585.9	2576.6	2501.0	2422.8	2335.2	2245.1
10°	2961.2	2970.4	2943.9	2884.3	2807.3	2731.8	2718.5	2634.9	2542.1	2434.7	2319.3
12.5°	3125.6	3134.9	3100.4	3028.8	2943.9	2865.7	2852.4	2764.9	2662.8	2543.4	2400.2
15°	3250.3	3267.5	3221.1	3144.2	3052.7	2974.4	2967.8	2881.6	2782.1	2649.5	2497.0
17.5°	3323.2	3340.4	3296.7	3203.8	3125.6	3059.3	3051.3	2979.7	2886.9	2759.6	2591.2
20°	3335.1	3351.0	3304.6	3223.7	3158.8	3105.7	3101.7	3050.0	2982.4	2860.4	2693.3
22.5°	3299.3	3319.2	3276.8	3211.8	3166.7	3138.9	3133.6	3104.4	3065.9	2962.5	2788.8
25°	3262.2	3278.1	3246.3	3189.3	3165.4	3162.7	3166.7	3161.4	3153.4	3065.9	2900.2
27.5°	3259.5	3276.8	3241.0	3186.6	3173.3	3201.2	3205.2	3230.4	3237.0	3160.1	3007.6
30°	3282.1	3294.0	3259.5	3202.5	3195.9	3259.5	3260.9	3305.9	3316.6	3239.6	3113.7
32.5°	3331.1	3344.4	3309.9	3226.4	3217.1	3305.9	3309.9	3369.6	3386.8	3324.5	3225.1
35°	3446.5	3462.4	3422.6	3292.7	3259.5	3349.7	3361.6	3431.9	3466.4	3414.7	3340.4
37.5°	3734.3	3687.9	3633.5	3426.6	3356.3	3418.7	3438.6	3520.8	3581.8	3522.1	3478.3
40°	4449.0	4303.2	4133.4	3654.7	3526.1	3565.9	3581.8	3664.0	3747.5	3689.2	3668.0
42.5°	5521.8	5349.5	5076.3	4179.8	3782.0	3801.9	3813.8	3885.5	4003.5	3957.1	3962.4
45°	6478.0	6415.6	6137.2	5076.3	4260.7	4162.6	4177.2	4214.3	4388.0	4370.8	4405.3
47.5°	7212.6	7176.8	6962.0	6105.3	5069.7	4604.2	4645.3	4662.5	4913.2	4974.2	5067.0
50°	7777.5	7764.3	7572.0	7020.3	6126.5	5255.3	5269.9	5232.8	5608.0	5759.2	5935.6
52.5°	8310.6	8355.7	8213.8	7870.4	7255.1	6108.0	6105.3	5930.3	6436.9	6664.9	6966.0
55°	8792.0	8807.9	8822.5	8737.6	8390.2	7078.7	7053.5	6767.1	7398.3	7634.3	7960.5
57.5°	9244.2	9250.8	9380.8	9554.5	9571.7	8121.0	8074.6	7731.1	8448.5	8617.0	8817.2
60°	9547.9	9578.4	9852.9	10335.6	10546.4	9196.5	9171.3	8821.2	9517.4	9595.6	9558.5
62.5°	9110.3	9295.9	9988.1	10945.6	11466.7	10388.6	10376.7	10047.8	10641.9	10578.2	10260.0
65°	7374.4	7688.7	8906.0	11358.0	12369.8	11720.0	11737.2	11387.2	11796.9	11590.0	10830.2
67.5°	5158.5	5490.0	6930.2	11391.1	13378.9	13283.5	13382.9	12833.9	13023.6	12559.4	10965.5
70°	3567.2	3738.3	4675.8	10677.7	14165.3	15437.0	15434.4	14610.9	14243.6	13001.0	10275.9
72.5°	2398.9	2487.7	3036.8	8471.1	13587.1	16716.7	16639.8	15968.8	14654.7	12158.9	8395.5
75°	1011.8	1076.8	1405.7	4760.7	10749.3	15293.8	15085.6	14112.3	13020.9	9574.4	5238.1
77.5°	320.9	348.8	554.3	1704.0	5921.0	11495.9	11275.8	8813.2	8727.0	4803.1	1914.9
80°	152.5	177.7	311.6	684.3	2329.9	6252.5	6222.0	3998.2	3754.2	1296.9	384.6
82.5°	66.3	78.2	172.4	366.0	1042.3	2230.5	2275.6	1360.6	1125.9	492.0	118.0
85°	21.2	27.8	79.6	168.4	440.3	554.3	547.7	323.6	453.5	267.9	41.1
87.5°	0.0	0.0	26.5	38.5	45.1	31.8	35.8	27.8	126.0	74.3	14.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4	2128.4
2.5°	2139.0	2117.8	2080.6	2046.2	2015.7	1985.2	1966.6	1940.1	1937.4	1937.4	1944.1
5°	2153.6	2119.1	2052.8	1982.5	1901.6	1824.7	1747.8	1673.5	1649.7	1632.4	1640.4
7.5°	2196.0	2141.6	2036.9	1902.9	1749.1	1580.7	1462.7	1335.4	1286.3	1259.8	1263.8
10°	2257.0	2182.7	2023.6	1788.9	1539.6	1310.2	1141.8	1003.9	950.8	928.3	928.3
12.5°	2324.6	2233.1	1999.7	1647.0	1310.2	1035.7	871.2	807.6	799.6	799.6	799.6
15°	2405.5	2294.1	1958.6	1479.9	1070.2	819.5	761.2	763.8	771.8	777.1	777.1
17.5°	2489.1	2359.1	1893.7	1292.9	858.0	737.3	738.6	742.6	749.2	754.5	754.5
20°	2579.3	2424.1	1807.5	1094.0	736.0	713.4	717.4	721.4	726.7	729.4	730.7
22.5°	2676.1	2485.1	1705.4	899.1	694.9	693.5	694.9	698.9	705.5	705.5	708.1
25°	2779.5	2552.7	1588.7	757.2	673.7	673.7	676.3	679.0	684.3	684.3	685.6
27.5°	2885.6	2615.1	1465.3	682.9	655.1	653.8	653.8	657.7	660.4	661.7	663.0
30°	3002.3	2688.0	1342.0	667.0	640.5	633.9	629.9	632.5	635.2	636.5	639.2
32.5°	3121.6	2758.3	1231.9	673.7	625.9	614.0	600.7	598.1	598.1	603.4	607.4
35°	3254.2	2835.2	1147.1	696.2	618.0	584.8	563.6	551.7	553.0	560.9	564.9
37.5°	3413.4	2928.0	1084.7	716.1	612.7	551.7	517.2	502.6	493.3	502.6	499.9
40°	3621.6	3064.6	1039.7	732.0	606.0	513.2	466.8	442.9	425.7	431.0	428.3
42.5°	3927.9	3279.4	1022.4	733.3	591.4	468.1	415.1	383.2	358.0	359.4	354.1
45°	4357.5	3618.9	1111.3	716.1	559.6	419.0	360.7	318.3	302.3	298.4	293.1
47.5°	4946.3	4113.5	1316.8	680.3	513.2	371.3	307.7	271.8	259.9	253.3	249.3
50°	5735.4	4748.7	1544.9	640.5	466.8	326.2	263.9	241.3	233.4	226.8	225.4
52.5°	6650.4	5393.2	1731.9	600.7	420.4	286.4	236.0	222.8	216.2	210.8	209.5
55°	7489.8	5837.5	1721.3	558.3	375.3	254.6	216.2	208.2	200.2	194.9	192.3
57.5°	8012.3	5899.8	1418.9	511.9	323.6	229.4	197.6	192.3	183.0	176.4	175.0
60°	8252.3	5544.4	994.6	450.9	271.8	205.5	177.7	175.0	163.1	153.8	151.2
62.5°	8296.0	4884.0	663.0	375.3	226.8	183.0	157.8	153.8	137.9	122.0	114.0
65°	8118.3	3939.8	458.8	293.1	193.6	159.1	135.3	127.3	110.1	94.2	88.8
67.5°	7556.1	2766.2	319.6	210.8	164.4	126.0	107.4	104.8	91.5	78.2	74.3
70°	6525.7	1576.7	213.5	157.8	130.0	86.2	84.9	87.5	74.3	63.7	58.3
72.5°	5003.3	721.4	132.6	115.4	88.8	58.3	67.6	69.0	57.0	47.7	42.4
75°	2945.3	309.0	83.5	74.3	45.1	38.5	49.1	50.4	38.5	30.5	26.5
77.5°	1002.5	116.7	53.0	43.8	22.5	21.2	31.8	31.8	21.2	11.9	9.3
80°	228.1	43.8	26.5	17.2	10.6	9.3	10.6	9.3	5.3	1.3	0.0
82.5°	65.0	17.2	10.6	6.6	4.0	4.0	1.3	0.0	0.0	0.0	0.0
85°	18.6	8.0	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	1.3	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	0.0

(END OF REPORT)