

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: P949532

Luminaire Tested: **GALN-SB4B-730-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949532
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-SB4B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA 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: 17384 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 147
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

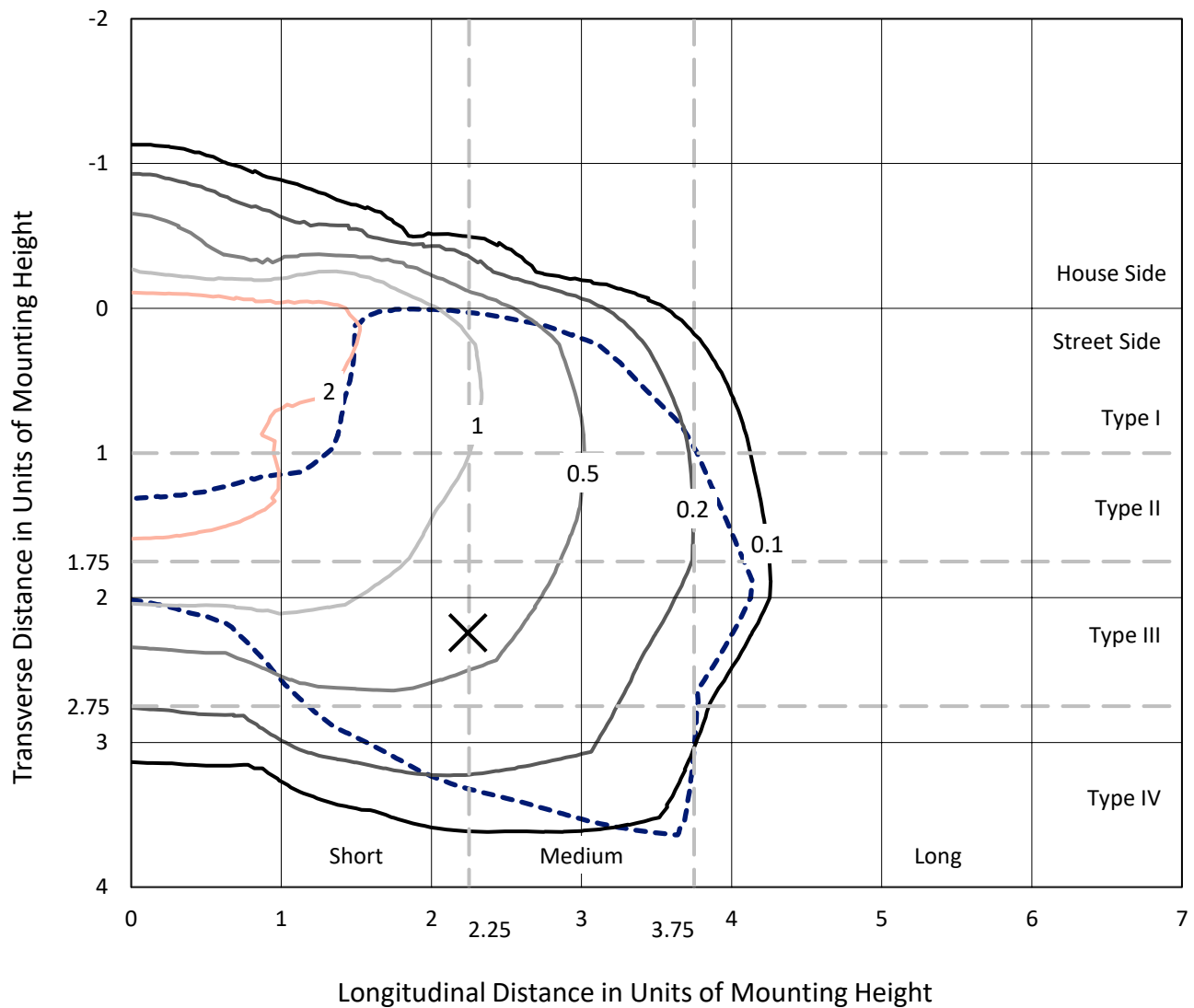


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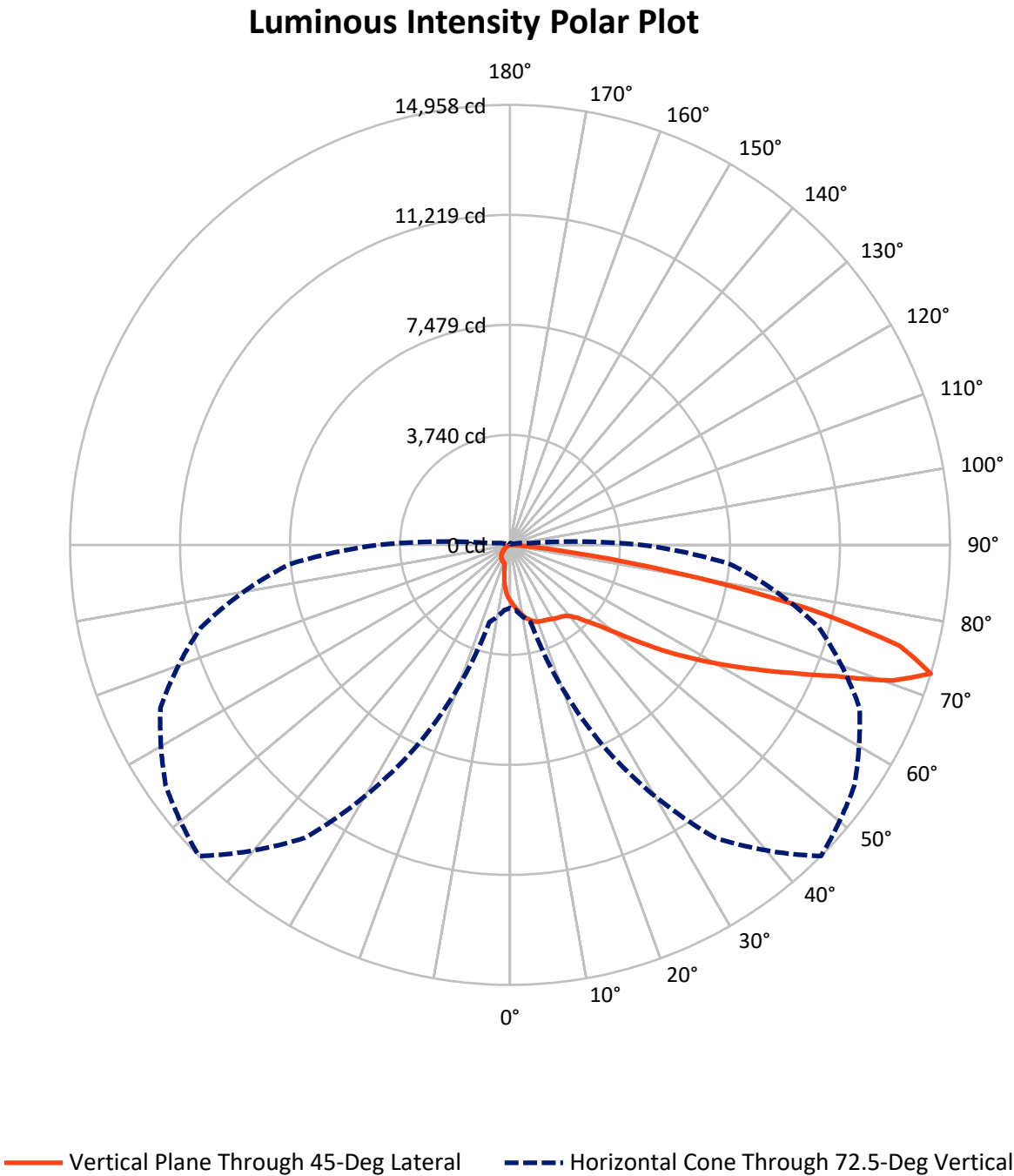
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - N/A

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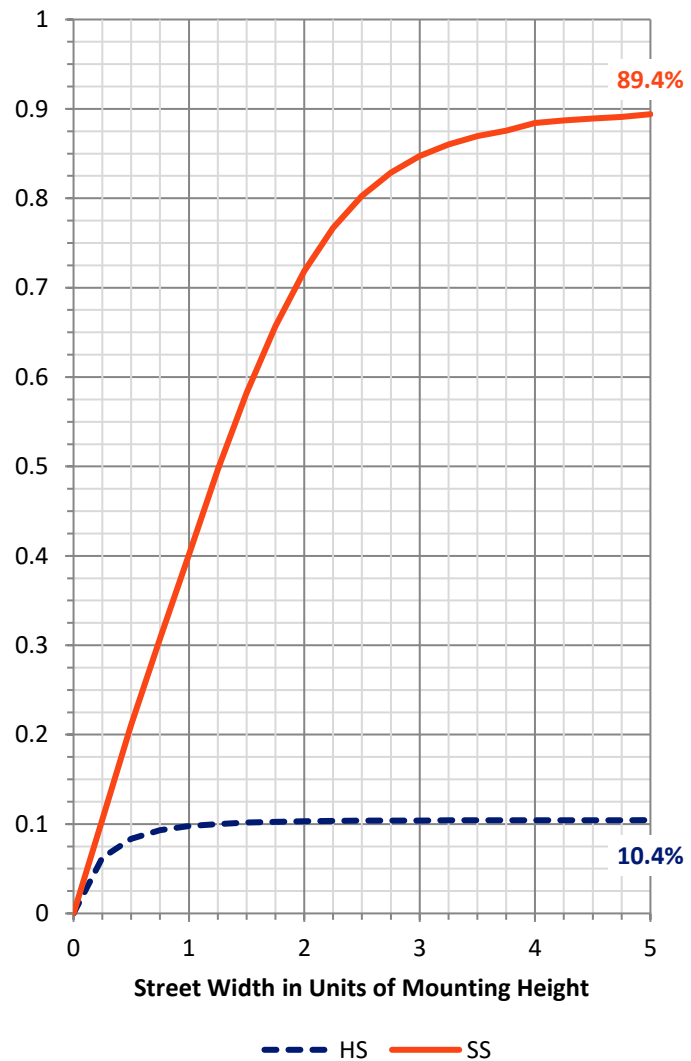
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1826.6	0.0	1826.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15557.4	0.0	15557.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	17384.0	0.0	17384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	1.0
10°-20°	524.4	3.0
20°-30°	861.2	5.0
30°-40°	1221.4	7.0
40°-50°	2018.8	11.6
50°-60°	3626.5	20.9
60°-70°	5035.6	29.0
70°-80°	3652.7	21.0
80°-90°	264.1	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°	17384.0	100.0
0°-180°	17384.0	100.0

Coefficient of Utilization



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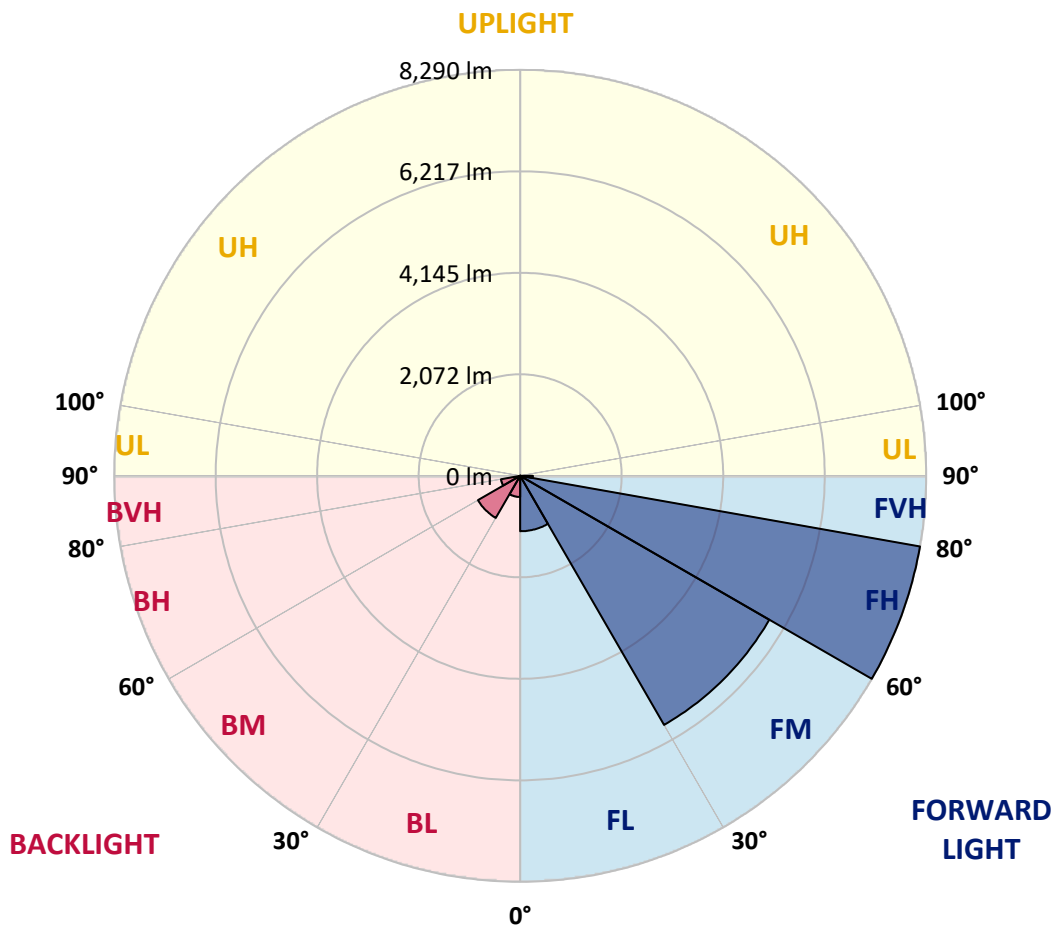
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1132.4	6.5			
FM	(30°-60°)	5873.2	33.8			
FH	(60°-80°)	8289.9	47.7			G4/12000
FVH	(80°-90°)	261.8	1.5			G3/500
BL	(0°-30°)	432.6	2.5	B1/500		
BM	(30°-60°)	993.4	5.7	B1/1000		
BH	(60°-80°)	398.3	2.3	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	2080.1	2083.6	2081.3	2067.0	2043.3	2030.2	2023.1	1999.4	1984.0	1956.7	1928.2
5°	2271.1	2285.3	2277.0	2248.6	2203.5	2171.4	2161.9	2113.3	2069.4	2018.4	1959.0
7.5°	2474.0	2481.1	2465.7	2428.9	2368.4	2313.8	2305.5	2237.9	2167.9	2089.6	2008.9
10°	2649.6	2657.9	2634.2	2580.8	2512.0	2444.3	2432.5	2357.7	2274.7	2178.6	2075.3
12.5°	2796.8	2805.1	2774.2	2710.1	2634.2	2564.2	2552.3	2474.0	2382.6	2275.9	2147.7
15°	2908.3	2923.7	2882.2	2813.4	2731.5	2661.5	2655.6	2578.4	2489.4	2370.8	2234.3
17.5°	2973.6	2989.0	2949.8	2866.8	2796.8	2737.4	2730.3	2666.2	2583.2	2469.3	2318.6
20°	2984.2	2998.5	2956.9	2884.6	2826.4	2779.0	2775.4	2729.1	2668.6	2559.4	2409.9
22.5°	2952.2	2970.0	2932.0	2873.9	2833.5	2808.6	2803.9	2777.8	2743.4	2650.8	2495.4
25°	2919.0	2933.2	2904.7	2853.7	2832.4	2830.0	2833.5	2828.8	2821.7	2743.4	2595.0
27.5°	2916.6	2932.0	2900.0	2851.3	2839.5	2864.4	2868.0	2890.5	2896.4	2827.6	2691.2
30°	2936.8	2947.5	2916.6	2865.6	2859.6	2916.6	2917.8	2958.1	2967.6	2898.8	2786.1
32.5°	2980.7	2992.5	2961.7	2886.9	2878.6	2958.1	2961.7	3015.1	3030.5	2974.7	2885.8
35°	3083.9	3098.1	3062.6	2946.3	2916.6	2997.3	3008.0	3070.9	3101.7	3055.4	2989.0
37.5°	3341.4	3299.9	3251.2	3066.1	3003.2	3059.0	3076.8	3150.4	3204.9	3151.5	3112.4
40°	3981.0	3850.4	3698.6	3270.2	3155.1	3190.7	3204.9	3278.5	3353.3	3301.1	3282.1
42.5°	4940.9	4786.6	4542.2	3740.1	3384.1	3401.9	3412.6	3476.7	3582.3	3540.7	3545.5
45°	5796.4	5740.7	5491.5	4542.2	3812.5	3724.7	3737.7	3770.9	3926.4	3911.0	3941.8
47.5°	6453.8	6421.7	6229.5	5463.0	4536.3	4119.8	4156.6	4172.0	4396.3	4450.8	4533.9
50°	6959.3	6947.4	6775.3	6281.7	5482.0	4702.4	4715.5	4682.2	5018.0	5153.3	5311.1
52.5°	7436.3	7476.6	7349.7	7042.3	6491.8	5465.4	5463.0	5306.4	5759.6	5963.7	6233.1
55°	7867.0	7881.2	7894.3	7818.3	7507.5	6333.9	6311.4	6055.1	6619.9	6831.1	7123.0
57.5°	8271.6	8277.6	8393.8	8549.3	8564.7	7266.6	7225.1	6917.7	7559.7	7710.4	7889.5
60°	8543.3	8570.6	8816.3	9248.2	9436.8	8228.9	8206.4	7893.1	8516.1	8586.1	8552.8
62.5°	8151.8	8317.9	8937.3	9794.0	10260.3	9295.6	9285.0	8990.7	9522.3	9465.3	9180.5
65°	6598.5	6879.8	7969.0	10163.0	11068.4	10487.0	10502.4	10189.1	10555.8	10370.7	9690.8
67.5°	4615.8	4912.4	6201.0	10192.7	11971.4	11885.9	11974.9	11483.7	11653.4	11238.1	9811.8
70°	3191.9	3345.0	4183.9	9554.3	12675.0	13812.9	13810.6	13073.7	12745.0	11633.2	9194.8
72.5°	2146.5	2226.0	2717.3	7579.8	12157.7	14958.0	14889.2	14288.7	13112.8	10879.7	7512.2
75°	905.4	963.5	1257.8	4259.8	9618.4	13684.8	13498.5	12627.5	11651.0	8567.1	4687.0
77.5°	287.2	312.1	496.0	1524.7	5298.1	10286.4	10089.5	7886.0	7808.9	4297.8	1713.4
80°	136.5	159.0	278.8	612.3	2084.8	5594.7	5567.4	3577.5	3359.2	1160.5	344.1
82.5°	59.3	70.0	154.3	327.5	932.6	1995.8	2036.2	1217.4	1007.4	440.2	105.6
85°	19.0	24.9	71.2	150.7	393.9	496.0	490.1	289.5	405.8	239.7	36.8
87.5°	0.0	0.0	23.7	34.4	40.3	28.5	32.0	24.9	112.7	66.4	13.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	1913.9	1895.0	1861.7	1830.9	1803.6	1776.3	1759.7	1736.0	1733.6	1733.6	1739.5
5°	1927.0	1896.1	1836.8	1773.9	1701.5	1632.7	1563.9	1497.5	1476.1	1460.7	1467.8
7.5°	1965.0	1916.3	1822.6	1702.7	1565.1	1414.4	1308.8	1194.9	1151.0	1127.2	1130.8
10°	2019.6	1953.1	1810.7	1600.7	1377.6	1172.3	1021.6	898.2	850.8	830.6	830.6
12.5°	2080.1	1998.2	1789.4	1473.7	1172.3	926.7	779.6	722.6	715.5	715.5	715.5
15°	2152.4	2052.8	1752.6	1324.2	957.6	733.3	681.1	683.5	690.6	695.3	695.3
17.5°	2227.2	2110.9	1694.4	1156.9	767.7	659.7	660.9	664.5	670.4	675.2	675.2
20°	2307.9	2169.1	1617.3	978.9	658.5	638.4	641.9	645.5	650.2	652.6	653.8
22.5°	2394.5	2223.6	1525.9	804.5	621.8	620.6	621.8	625.3	631.3	631.3	633.6
25°	2487.1	2284.2	1421.5	677.5	602.8	602.8	605.2	607.5	612.3	612.3	613.5
27.5°	2582.0	2339.9	1311.2	611.1	586.2	585.0	585.0	588.5	590.9	592.1	593.3
30°	2686.4	2405.2	1200.8	596.8	573.1	567.2	563.6	566.0	568.4	569.6	571.9
32.5°	2793.2	2468.1	1102.3	602.8	560.1	549.4	537.5	535.1	535.1	539.9	543.5
35°	2911.9	2536.9	1026.4	623.0	552.9	523.3	504.3	493.6	494.8	501.9	505.5
37.5°	3054.2	2620.0	970.6	640.8	548.2	493.6	462.8	449.7	441.4	449.7	447.3
40°	3240.5	2742.2	930.3	655.0	542.3	459.2	417.7	396.3	380.9	385.6	383.3
42.5°	3514.6	2934.4	914.8	656.2	529.2	418.9	371.4	342.9	320.4	321.6	316.8
45°	3899.1	3238.2	994.4	640.8	500.7	375.0	322.7	284.8	270.5	267.0	262.2
47.5°	4425.9	3680.8	1178.3	608.7	459.2	332.2	275.3	243.2	232.6	226.6	223.1
50°	5131.9	4249.1	1382.4	573.1	417.7	291.9	236.1	216.0	208.8	202.9	201.7
52.5°	5950.7	4825.8	1549.7	537.5	376.1	256.3	211.2	199.3	193.4	188.7	187.5
55°	6701.8	5223.3	1540.2	499.5	335.8	227.8	193.4	186.3	179.2	174.4	172.1
57.5°	7169.3	5279.1	1269.6	458.0	289.5	205.3	176.8	172.1	163.7	157.8	156.6
60°	7384.1	4961.1	889.9	403.4	243.2	183.9	159.0	156.6	145.9	137.6	135.3
62.5°	7423.2	4370.2	593.3	335.8	202.9	163.7	141.2	137.6	123.4	109.2	102.0
65°	7264.2	3525.3	410.6	262.2	173.2	142.4	121.0	113.9	98.5	84.2	79.5
67.5°	6761.1	2475.2	286.0	188.7	147.1	112.7	96.1	93.7	81.9	70.0	66.4
70°	5839.1	1410.8	191.0	141.2	116.3	77.1	75.9	78.3	66.4	57.0	52.2
72.5°	4477.0	645.5	118.7	103.2	79.5	52.2	60.5	61.7	51.0	42.7	38.0
75°	2635.4	276.5	74.8	66.4	40.3	34.4	43.9	45.1	34.4	27.3	23.7
77.5°	897.1	104.4	47.5	39.2	20.2	19.0	28.5	28.5	19.0	10.7	8.3
80°	204.1	39.2	23.7	15.4	9.5	8.3	9.5	8.3	4.7	1.2	0.0
82.5°	58.1	15.4	9.5	5.9	3.6	3.6	1.2	0.0	0.0	0.0	0.0
85°	16.6	7.1	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	1.2	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)