

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: P940424

Luminaire Tested: **GALN-SB3C-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15219 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 149.1
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



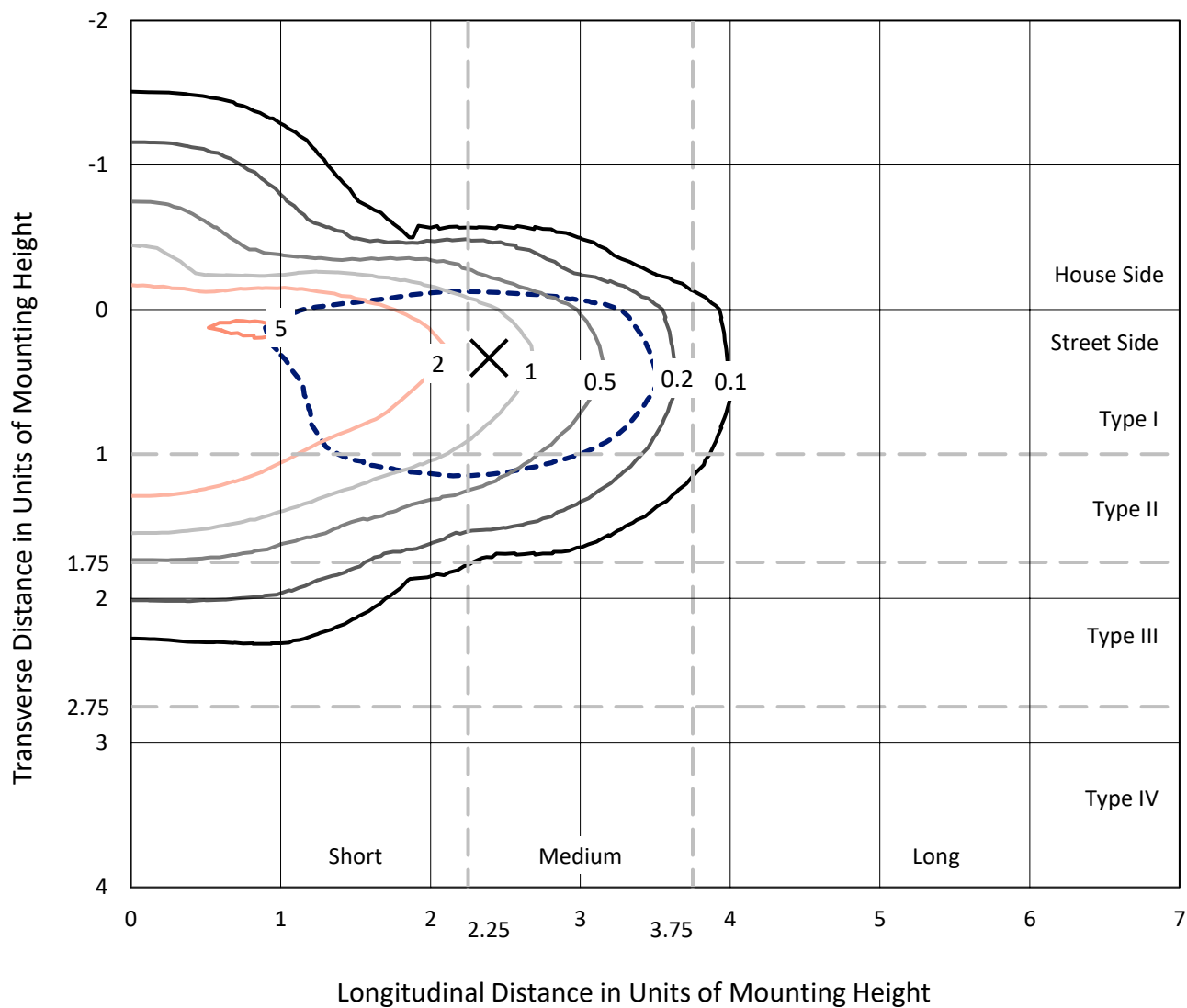
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

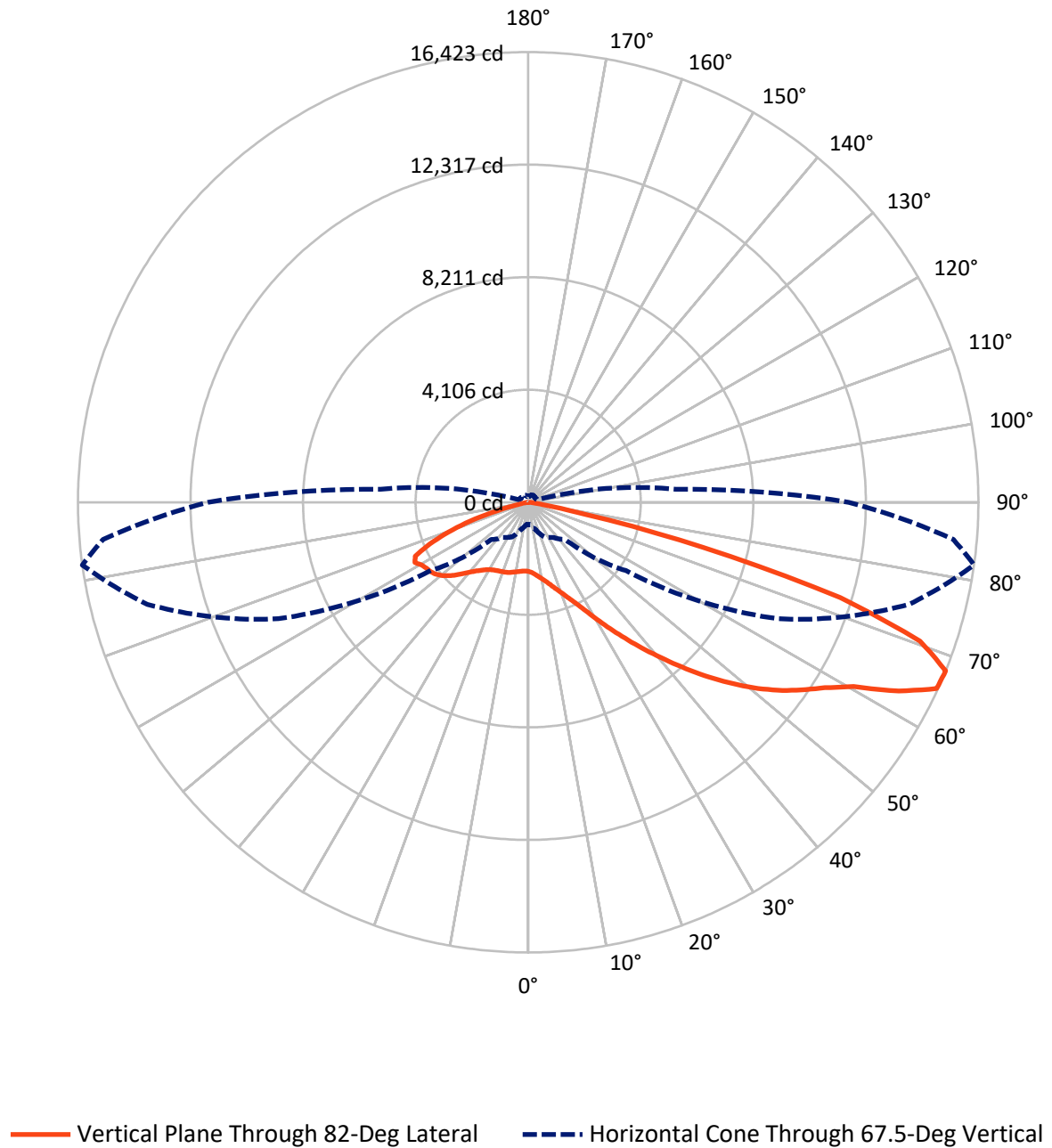


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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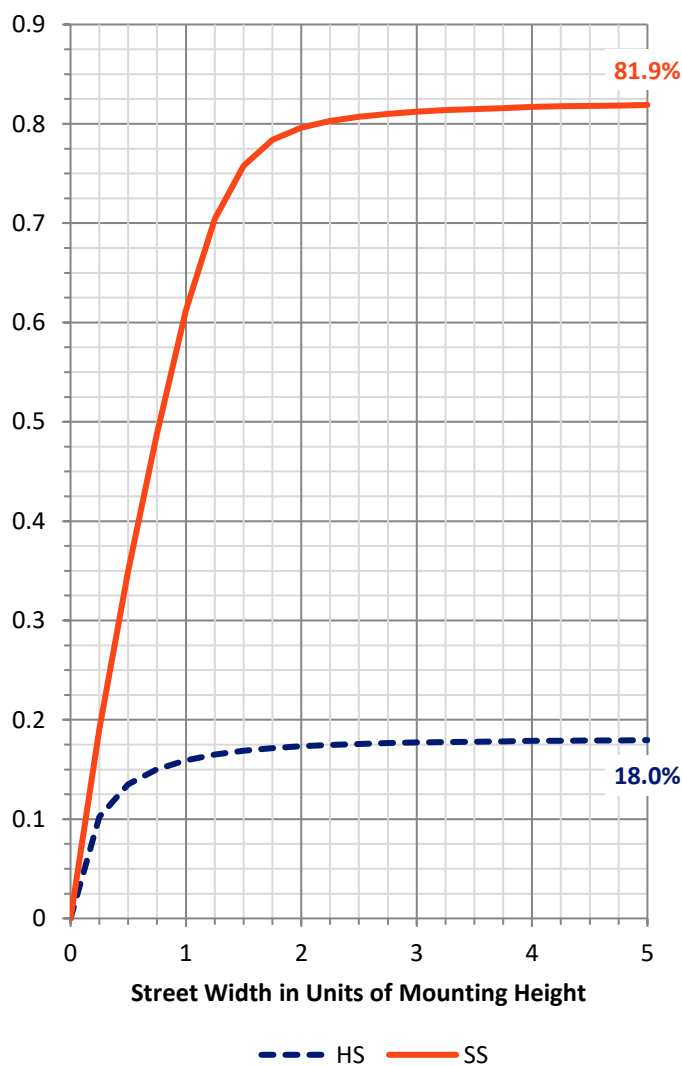
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.8	0.0	2756.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12462.2	0.0	12462.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	15219.0	0.0	15219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	1.5
10°-20°	583.7	3.8
20°-30°	934.9	6.1
30°-40°	1653.2	10.9
40°-50°	2896.6	19.0
50°-60°	3863.3	25.4
60°-70°	3596.5	23.6
70°-80°	1380.3	9.1
80°-90°	85.7	0.6
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°	15219.0	100.0
0°-180°	15219.0	100.0

Coefficient of Utilization



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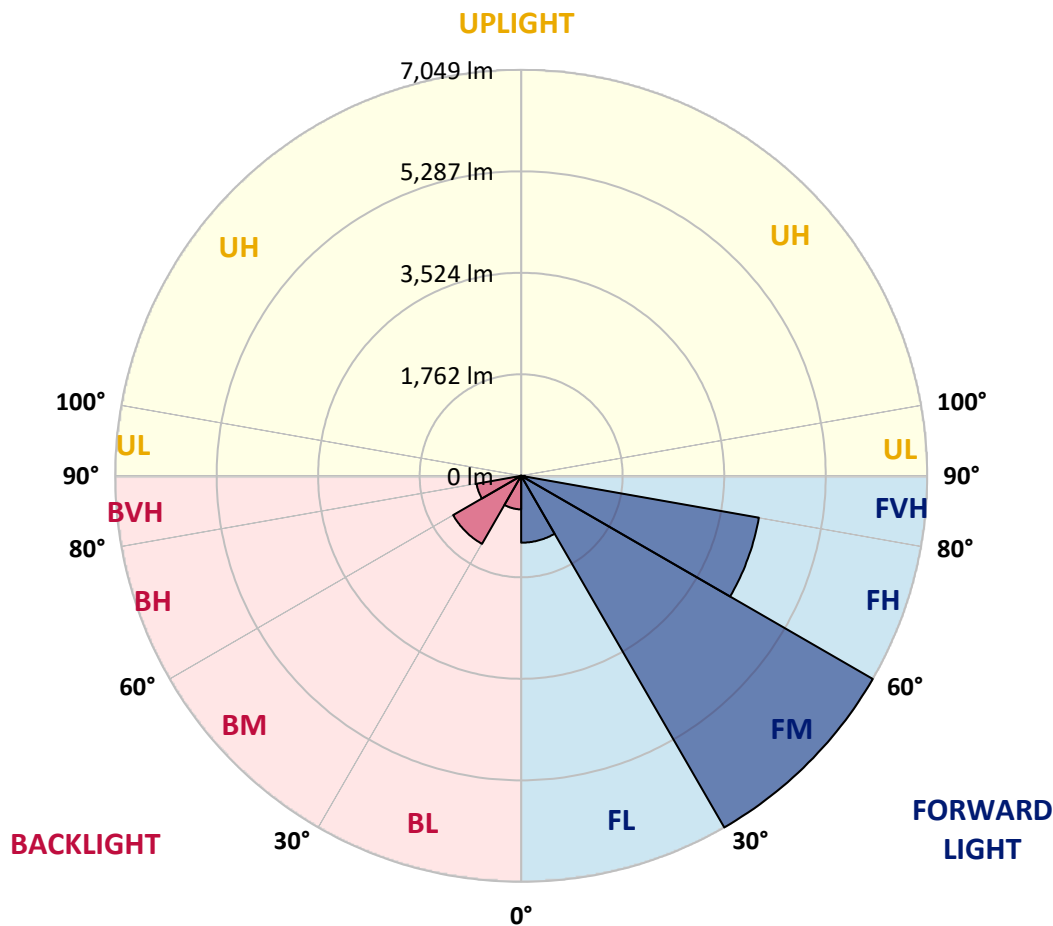
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1161.0	7.6			
FM	(30°-60°)	7048.8	46.3			
FH	(60°-80°)	4190.0	27.5			G2/5000
FVH	(80°-90°)	62.3	0.4			G1/100
BL	(0°-30°)	582.2	3.8	B2/1000		
BM	(30°-60°)	1364.3	9.0	B2/2500		
BH	(60°-80°)	786.8	5.2	B2/1000		G2/1000
BVH	(80°-90°)	23.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3
2.5°	2664.8	2680.2	2671.4	2667.0	2659.3	2648.4	2639.6	2612.2	2583.7	2565.1	2558.5
5°	2718.5	2733.8	2732.7	2737.1	2742.6	2745.9	2743.7	2713.0	2672.5	2640.7	2622.1
7.5°	2672.5	2690.0	2704.3	2726.2	2764.5	2805.1	2824.8	2818.2	2776.6	2732.7	2709.7
10°	2542.1	2560.7	2594.7	2646.2	2727.3	2814.9	2888.3	2922.3	2896.0	2847.8	2816.0
12.5°	2303.2	2321.9	2388.7	2500.5	2636.3	2788.6	2928.9	3019.8	3026.4	2978.2	2940.9
15°	2034.8	2053.4	2124.6	2264.9	2472.0	2716.3	2950.8	3122.8	3180.9	3139.3	3094.3
17.5°	1868.2	1884.7	1938.3	2051.2	2267.1	2571.7	2943.1	3232.4	3365.0	3332.1	3278.4
20°	1817.8	1832.1	1857.3	1936.2	2115.9	2421.6	2892.7	3335.4	3563.3	3544.7	3484.4
22.5°	1871.5	1884.7	1892.3	1927.4	2040.2	2322.9	2829.2	3440.6	3793.4	3795.6	3722.2
25°	1995.3	2008.5	1999.7	2021.6	2070.9	2292.3	2805.1	3564.4	4082.7	4106.8	4023.5
27.5°	2199.1	2200.2	2179.4	2178.3	2186.0	2338.3	2830.3	3697.0	4447.6	4492.5	4389.5
30°	2607.8	2591.4	2511.4	2424.8	2385.4	2476.3	2900.4	3853.7	4878.2	4958.2	4828.9
32.5°	3237.9	3213.8	3066.9	2859.9	2651.7	2698.8	3026.4	4032.3	5347.2	5491.8	5334.0
35°	3921.6	3915.0	3761.6	3453.7	3090.0	3015.4	3231.3	4266.8	5858.9	6089.0	5901.6
37.5°	4557.1	4553.9	4466.2	4103.5	3660.8	3457.0	3560.0	4573.6	6406.7	6739.8	6518.5
40°	5137.9	5147.7	5060.1	4735.7	4289.8	4023.5	4007.1	4952.7	7016.0	7448.8	7185.8
42.5°	5639.7	5650.7	5561.9	5322.0	4911.1	4650.3	4556.0	5417.3	7610.9	8210.3	7899.1
45°	5980.5	6048.4	6035.3	5843.5	5548.8	5278.1	5215.7	6000.2	8289.2	9017.9	8653.0
47.5°	6076.9	6139.4	6238.0	6264.3	6084.6	5818.3	5892.8	6702.6	8975.1	9826.5	9411.2
50°	5839.1	5897.2	6102.1	6375.0	6499.9	6417.7	6551.4	7455.3	9677.5	10633.0	10155.2
52.5°	5370.2	5429.3	5687.9	6119.6	6629.2	6887.8	7212.1	8197.2	10357.9	11396.7	10859.8
55°	4691.9	4754.4	5086.4	5575.1	6382.6	7081.7	7763.2	8937.9	10981.4	12083.7	11495.3
57.5°	3769.3	3815.3	4160.5	4844.2	5762.4	6888.9	8169.8	9746.5	11568.7	12758.7	12125.3
60°	2456.6	2497.2	2898.2	3660.8	4734.6	6244.6	8250.8	10648.3	12348.9	13636.4	12974.5
62.5°	1633.7	1661.1	1898.9	2458.8	3334.3	5007.5	7776.4	11368.2	13492.8	15163.8	14430.8
65°	1120.9	1148.3	1386.1	1776.2	2154.2	3312.4	6412.2	11272.9	14529.4	16376.8	15510.0
67.5°	799.9	822.9	1024.5	1392.7	1559.2	1924.1	4346.8	10054.4	14380.4	16422.8	15568.1
70°	573.1	586.2	752.8	1084.8	1239.3	1156.0	2417.2	7689.8	12591.0	15164.9	14382.5
72.5°	401.0	405.4	522.7	826.2	998.2	843.7	1150.5	5126.9	9523.0	11902.9	11150.1
75°	271.7	277.2	351.7	605.9	801.0	644.3	609.2	2749.2	5590.4	6588.6	5906.0
77.5°	166.6	168.7	226.8	414.2	599.4	490.9	392.3	1164.8	2163.0	2123.5	1810.1
80°	94.2	94.2	144.6	257.5	408.7	316.7	275.0	495.3	684.8	601.6	530.3
82.5°	52.6	53.7	105.2	160.0	270.6	187.4	151.2	229.0	295.8	261.9	227.9
85°	21.9	24.1	64.6	75.6	129.3	93.1	61.4	96.4	109.6	97.5	71.2
87.5°	2.2	3.3	19.7	14.2	15.3	18.6	8.8	18.6	15.3	15.3	11.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3	2521.3
2.5°	2537.7	2521.3	2479.6	2431.4	2367.9	2337.2	2295.6	2267.1	2243.0	2245.1	2223.2
5°	2587.0	2545.4	2452.2	2336.1	2191.5	2088.5	1978.9	1903.3	1841.9	1828.8	1799.2
7.5°	2655.0	2589.2	2425.9	2216.7	1972.3	1787.1	1621.7	1515.4	1439.8	1415.7	1391.6
10°	2742.6	2647.3	2392.0	2066.5	1714.8	1479.2	1301.7	1218.5	1167.0	1149.4	1136.3
12.5°	2844.5	2714.1	2347.1	1883.6	1449.6	1222.8	1110.0	1068.3	1051.9	1046.4	1043.1
15°	2972.7	2797.4	2279.1	1666.6	1225.0	1066.1	1017.9	1012.5	1014.6	1012.5	1011.4
17.5°	3125.0	2888.3	2168.4	1443.1	1073.8	986.2	968.6	973.0	978.5	977.4	975.2
20°	3291.6	2978.2	2027.1	1244.7	970.8	929.2	919.3	923.7	928.1	925.9	924.8
22.5°	3481.1	3074.6	1870.4	1090.3	901.8	876.6	865.6	866.7	866.7	862.3	860.1
25°	3707.9	3180.9	1706.1	980.7	849.2	829.5	816.3	811.9	805.4	792.2	790.0
27.5°	3978.6	3293.8	1548.3	904.0	807.6	788.9	773.6	762.6	746.2	724.3	722.1
30°	4283.2	3430.7	1414.6	855.8	774.7	756.1	738.5	722.1	698.0	670.6	668.4
32.5°	4641.5	3577.6	1317.1	824.0	745.1	725.4	704.6	684.8	658.5	631.1	632.2
35°	5068.8	3755.1	1260.1	802.1	722.1	695.8	672.8	650.9	631.1	607.0	604.8
37.5°	5532.3	3943.5	1242.6	791.1	706.7	666.2	639.9	624.6	622.4	608.1	607.0
40°	6039.7	4167.1	1255.7	784.5	690.3	637.7	609.2	605.9	611.4	586.2	587.3
42.5°	6576.6	4432.2	1277.6	776.9	667.3	609.2	581.8	581.8	577.4	542.4	542.4
45°	7157.3	4737.9	1299.5	758.2	639.9	580.7	559.9	552.2	533.6	499.7	498.6
47.5°	7742.4	5049.1	1316.0	724.3	607.0	556.6	538.0	520.5	493.1	462.4	461.3
50°	8298.0	5328.5	1298.4	673.9	569.8	533.6	513.9	489.8	460.2	439.4	436.1
52.5°	8794.3	5570.7	1223.9	614.7	530.3	509.5	492.0	466.8	442.7	420.8	418.6
55°	9226.0	5766.8	1092.4	558.8	495.3	488.7	471.2	439.4	406.5	387.9	385.7
57.5°	9640.2	5915.8	928.1	512.8	463.5	465.7	439.4	410.9	380.2	360.5	358.3
60°	10191.4	6115.3	761.5	470.1	429.5	436.1	407.6	386.8	348.4	323.2	320.0
62.5°	11072.3	6425.4	604.8	417.5	390.1	392.3	380.2	355.0	309.0	279.4	277.2
65°	11771.4	6311.4	476.6	360.5	345.2	348.4	348.4	321.0	271.7	237.8	234.5
67.5°	11692.5	5404.1	380.2	304.6	302.4	304.6	312.3	289.3	241.1	213.7	209.3
70°	10771.0	4298.5	304.6	253.1	263.0	257.5	279.4	264.1	217.0	189.6	186.3
72.5°	8788.8	3096.5	232.3	209.3	201.6	210.4	252.0	237.8	180.8	150.1	146.8
75°	5135.7	1652.4	173.1	165.5	145.7	175.3	223.5	202.7	138.1	110.7	107.4
77.5°	1672.1	576.4	127.1	121.6	108.5	141.3	190.7	170.9	112.9	87.7	84.4
80°	448.2	174.2	86.6	80.0	70.1	105.2	151.2	135.9	81.1	57.0	55.9
82.5°	179.7	73.4	50.4	44.9	38.4	72.3	119.4	109.6	60.3	36.2	36.2
85°	58.1	24.1	18.6	14.2	17.5	44.9	71.2	74.5	42.7	18.6	14.2
87.5°	7.7	3.3	3.3	4.4	3.3	7.7	21.9	20.8	12.1	2.2	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)