

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: P954509

Luminaire Tested: **GALN-SB7D-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954509
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-SB7D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 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: 51705 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8
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



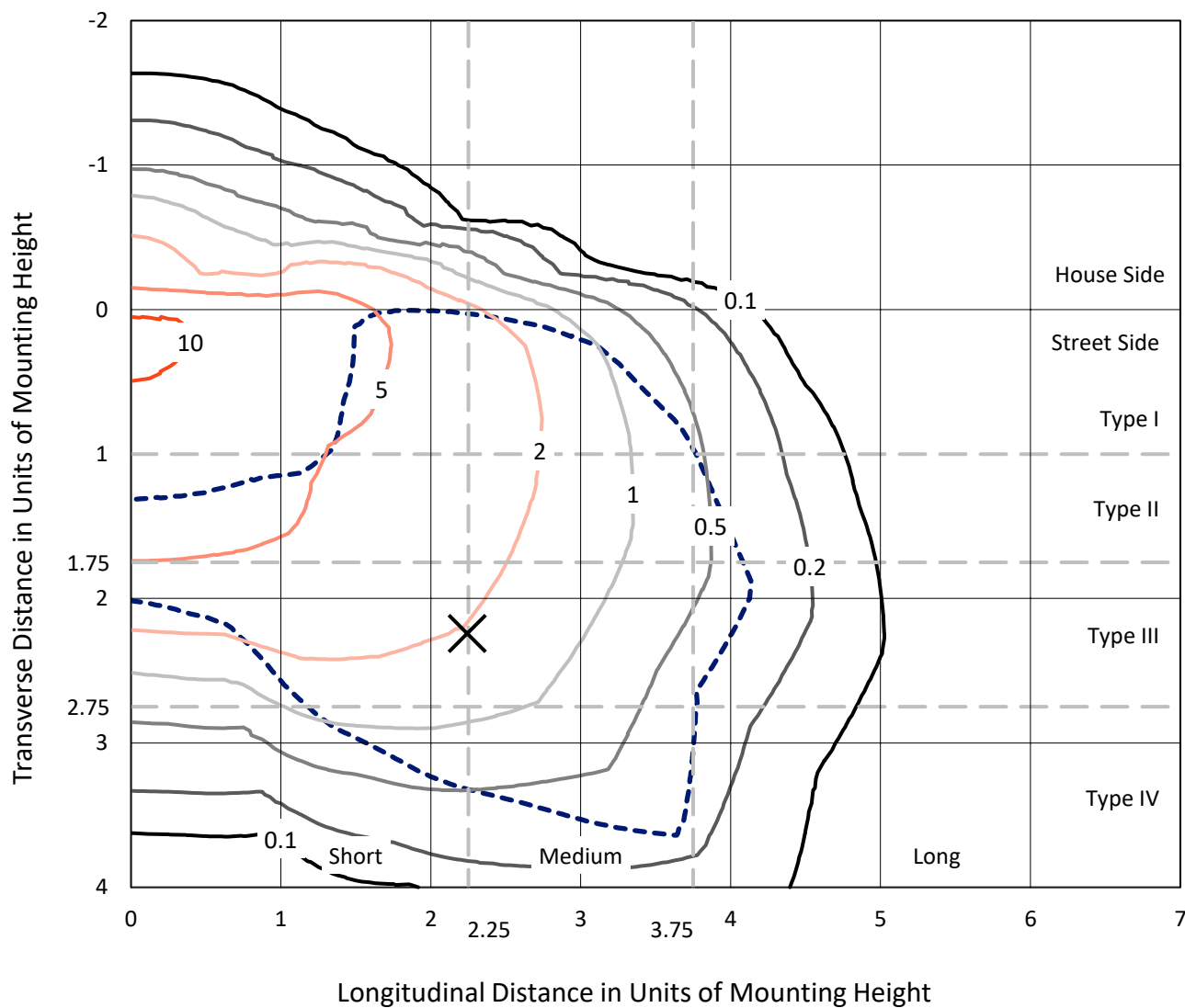
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Iso-Footcandle Lines of Horizontal Illumination

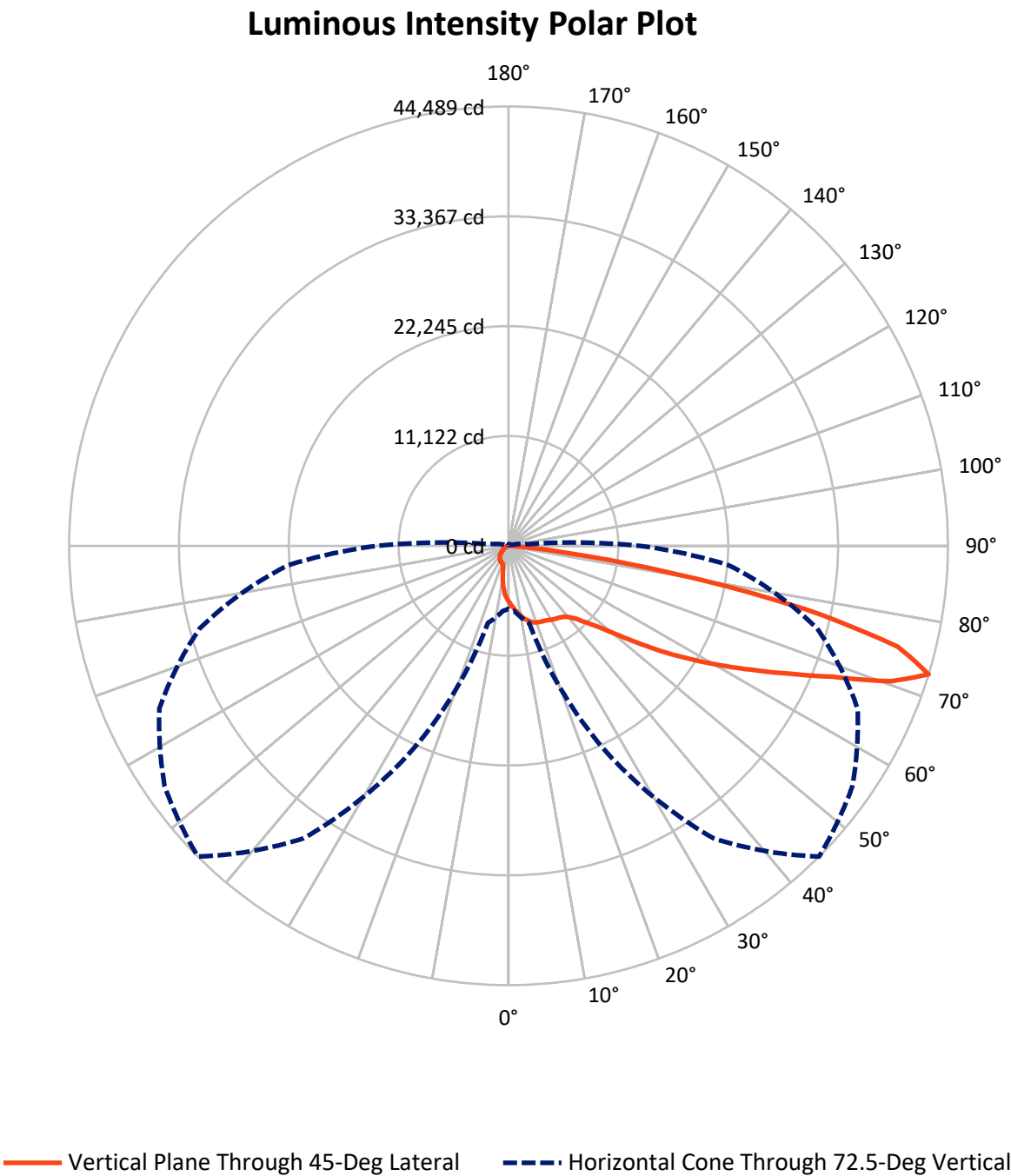
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
Type IV - Short - N/A

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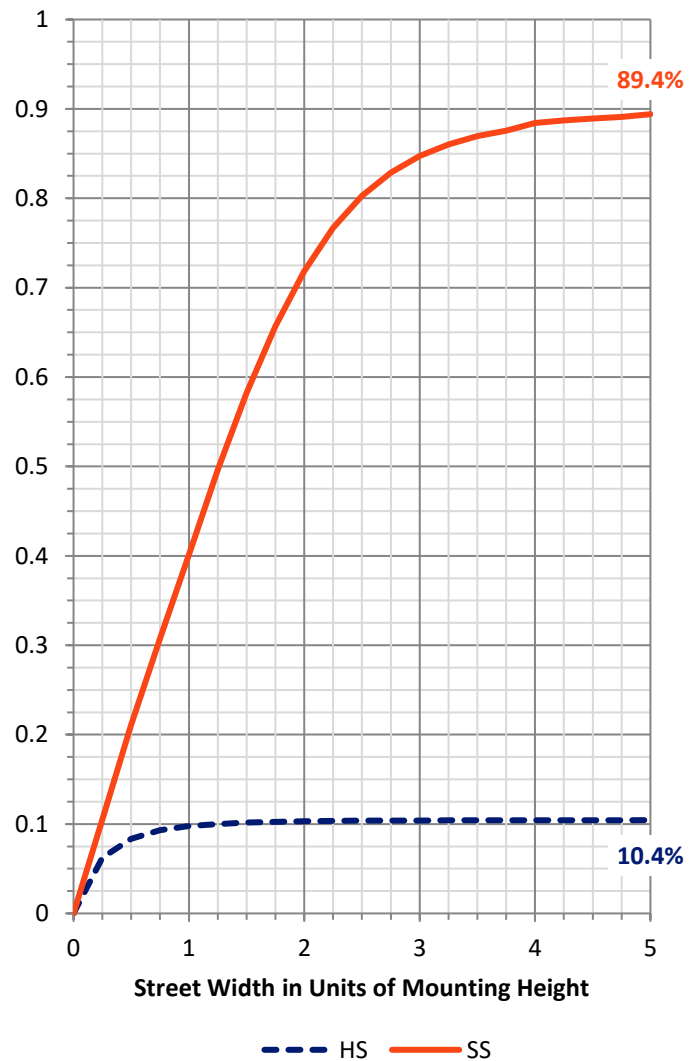
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5432.8	0.0	5432.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	46272.2	0.0	46272.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	51705.0	0.0	51705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.7	1.0
10°-20°	1559.8	3.0
20°-30°	2561.4	5.0
30°-40°	3632.7	7.0
40°-50°	6004.4	11.6
50°-60°	10786.3	20.9
60°-70°	14977.3	29.0
70°-80°	10864.1	21.0
80°-90°	785.4	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°	51705.0	100.0
0°-180°	51705.0	100.0

Coefficient of Utilization



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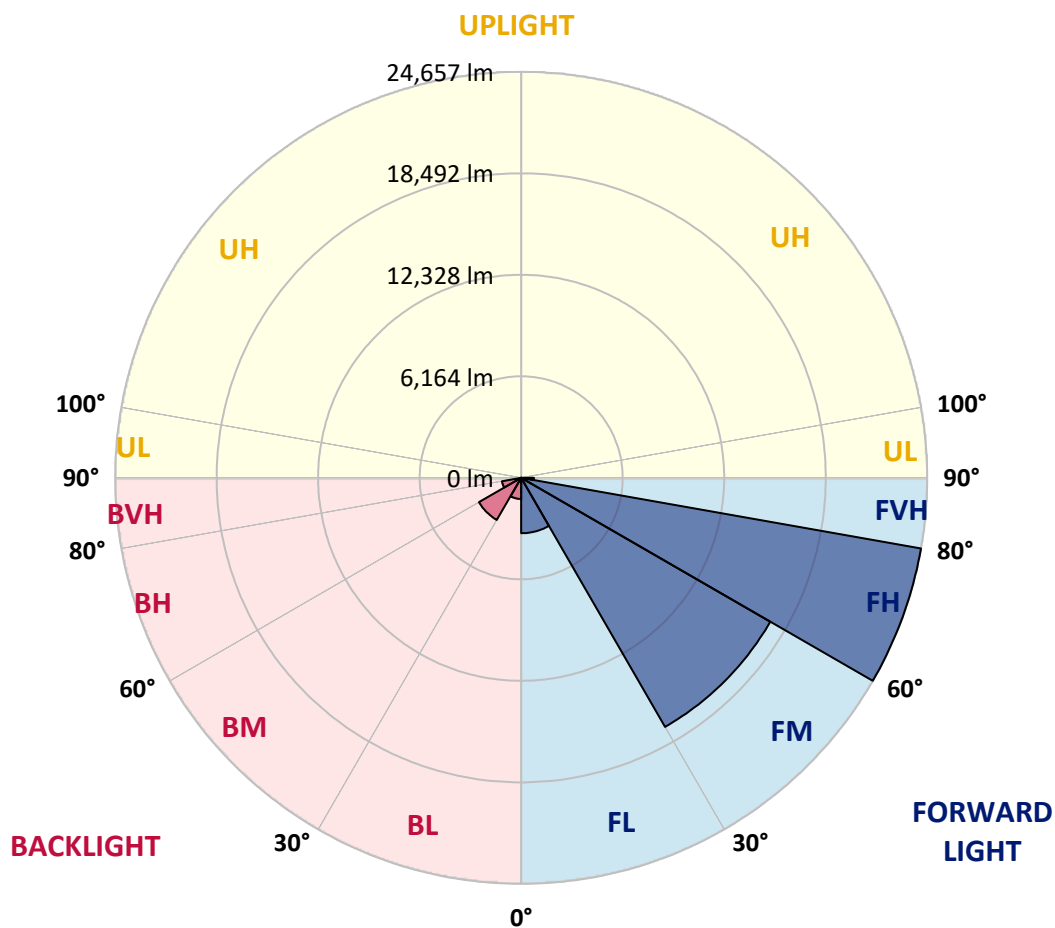
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3368.1	6.5			
FM	(30°-60°)	17468.7	33.8			
FH	(60°-80°)	24656.7	47.7			G5
FVH	(80°-90°)	778.8	1.5			G5
BL	(0°-30°)	1286.8	2.5	B3/2500		
BM	(30°-60°)	2954.6	5.7	B3/5000		
BH	(60°-80°)	1184.7	2.3	B3/2500		G3/2500
BVH	(80°-90°)	6.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4
2.5°	6186.7	6197.3	6190.2	6147.9	6077.3	6038.5	6017.3	5946.7	5900.9	5819.7	5735.0
5°	6754.9	6797.3	6772.6	6687.9	6553.8	6458.5	6430.2	6285.5	6155.0	6003.2	5826.7
7.5°	7358.4	7379.6	7333.7	7224.3	7044.3	6882.0	6857.3	6656.1	6447.9	6215.0	5975.0
10°	7880.7	7905.4	7834.9	7676.0	7471.4	7270.2	7234.9	7012.6	6765.5	6479.6	6172.6
12.5°	8318.4	8343.1	8251.3	8060.7	7834.9	7626.6	7591.3	7358.4	7086.7	6769.0	6387.9
15°	8650.1	8696.0	8572.5	8367.8	8124.3	7916.0	7898.4	7669.0	7404.3	7051.4	6645.5
17.5°	8844.2	8890.1	8773.6	8526.6	8318.4	8141.9	8120.7	7930.1	7683.1	7344.3	6896.1
20°	8876.0	8918.3	8794.8	8579.5	8406.6	8265.4	8254.8	8117.2	7937.2	7612.5	7167.8
22.5°	8780.7	8833.6	8720.7	8547.8	8427.8	8353.7	8339.5	8261.9	8159.5	7884.3	7421.9
25°	8681.9	8724.2	8639.5	8487.8	8424.2	8417.2	8427.8	8413.7	8392.5	8159.5	7718.4
27.5°	8674.8	8720.7	8625.4	8480.7	8445.4	8519.5	8530.1	8597.2	8614.8	8410.1	8004.3
30°	8734.8	8766.6	8674.8	8523.1	8505.4	8674.8	8678.3	8798.3	8826.6	8621.9	8286.6
32.5°	8865.4	8900.7	8808.9	8586.6	8561.9	8798.3	8808.9	8967.7	9013.6	8847.7	8583.1
35°	9172.4	9214.8	9108.9	8763.0	8674.8	8914.8	8946.6	9133.6	9225.4	9087.7	8890.1
37.5°	9938.3	9814.8	9670.1	9119.5	8932.4	9098.3	9151.3	9370.1	9532.4	9373.6	9257.1
40°	11840.5	11452.3	11000.6	9726.5	9384.2	9490.1	9532.4	9751.2	9973.6	9818.3	9761.8
42.5°	14695.7	14236.9	13509.8	11124.1	10065.3	10118.3	10150.0	10340.6	10654.7	10531.2	10545.3
45°	17240.2	17074.4	16333.2	13509.8	11339.4	11078.2	11117.0	11215.9	11678.2	11632.3	11724.1
47.5°	19195.4	19100.1	18528.4	16248.5	13492.2	12253.4	12362.8	12408.7	13075.7	13238.1	13485.1
50°	20698.9	20663.6	20151.8	18683.7	16305.0	13986.3	14025.1	13926.3	14925.1	15327.4	15796.8
52.5°	22117.6	22237.6	21860.0	20945.9	19308.3	16255.6	16248.5	15782.7	17130.8	17737.8	18539.0
55°	23398.7	23441.1	23479.9	23254.0	22329.4	18839.0	18771.9	18009.6	19689.5	20317.7	21185.9
57.5°	24602.2	24619.8	24965.7	25428.0	25473.9	21612.9	21489.4	20575.3	22484.6	22932.8	23465.8
60°	25410.4	25491.5	26222.1	27506.7	28067.9	24475.1	24408.1	23476.3	25329.2	25537.4	25438.6
62.5°	24245.7	24739.8	26582.1	29130.2	30517.1	27647.9	27616.1	26740.9	28322.0	28152.6	27305.5
65°	19626.0	20462.4	23702.2	30227.7	32920.5	31191.2	31237.1	30305.4	31395.9	30845.4	28823.1
67.5°	13728.7	14611.0	18443.7	30316.0	35606.3	35352.2	35616.9	34155.8	34660.4	33425.2	29183.1
70°	9493.6	9948.9	12444.0	28417.3	37699.1	41083.6	41076.6	38884.9	37907.3	34600.4	27347.9
72.5°	6384.4	6620.8	8081.9	22544.6	36160.4	44489.3	44284.6	42498.8	39001.4	32359.4	22343.5
75°	2692.8	2865.7	3741.0	12669.9	28607.8	40702.5	40148.4	37557.9	34653.4	25480.9	13940.4
77.5°	854.1	928.2	1475.2	4535.0	15758.0	30594.8	30008.9	23455.2	23225.8	12782.8	5096.2
80°	405.9	472.9	829.4	1821.1	6200.8	16640.3	16559.1	10640.6	9991.2	3451.6	1023.5
82.5°	176.5	208.2	458.8	974.1	2774.0	5936.1	6056.1	3621.0	2996.3	1309.3	314.1
85°	56.5	74.1	211.8	448.2	1171.7	1475.2	1457.6	861.1	1207.0	712.9	109.4
87.5°	0.0	0.0	70.6	102.3	120.0	84.7	95.3	74.1	335.3	197.6	38.8
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°	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4	5664.4
2.5°	5692.6	5636.2	5537.3	5445.6	5364.4	5283.2	5233.8	5163.2	5156.2	5156.2	5173.8
5°	5731.4	5639.7	5463.2	5276.2	5060.9	4856.2	4651.5	4453.9	4390.3	4344.5	4365.6
7.5°	5844.4	5699.7	5420.9	5064.4	4655.0	4206.8	3892.7	3553.9	3423.3	3352.8	3363.3
10°	6006.7	5809.1	5385.6	4760.9	4097.4	3486.9	3038.7	2671.6	2530.4	2470.5	2470.5
12.5°	6186.7	5943.2	5322.1	4383.3	3486.9	2756.3	2318.7	2149.3	2128.1	2128.1	2128.1
15°	6402.0	6105.5	5212.7	3938.6	2848.1	2181.1	2025.8	2032.8	2054.0	2068.1	2068.1
17.5°	6624.3	6278.5	5039.7	3441.0	2283.4	1962.2	1965.8	1976.4	1994.0	2008.1	2008.1
20°	6864.3	6451.4	4810.3	2911.6	1958.7	1898.7	1909.3	1919.9	1934.0	1941.1	1944.6
22.5°	7122.0	6613.8	4538.6	2392.8	1849.3	1845.8	1849.3	1859.9	1877.5	1877.5	1884.6
25°	7397.2	6793.7	4228.0	2015.2	1792.8	1792.8	1799.9	1807.0	1821.1	1821.1	1824.6
27.5°	7679.6	6959.6	3899.8	1817.5	1743.4	1739.9	1739.9	1750.5	1757.5	1761.1	1764.6
30°	7990.1	7153.7	3571.6	1775.2	1704.6	1687.0	1676.4	1683.4	1690.5	1694.0	1701.1
32.5°	8307.8	7340.8	3278.6	1792.8	1665.8	1634.0	1598.7	1591.7	1591.7	1605.8	1616.4
35°	8660.7	7545.5	3052.8	1852.8	1644.6	1556.4	1499.9	1468.2	1471.7	1492.9	1503.4
37.5°	9084.2	7792.5	2886.9	1905.8	1630.5	1468.2	1376.4	1337.6	1312.9	1337.6	1330.5
40°	9638.3	8156.0	2766.9	1948.1	1612.9	1365.8	1242.3	1178.8	1132.9	1147.0	1139.9
42.5°	10453.5	8727.8	2721.0	1951.7	1574.0	1245.8	1104.6	1019.9	952.9	956.4	942.3
45°	11597.0	9631.2	2957.5	1905.8	1489.3	1115.2	959.9	847.0	804.7	794.1	780.0
47.5°	13164.0	10947.6	3504.5	1810.5	1365.8	988.2	818.8	723.5	691.7	674.1	663.5
50°	15263.9	12638.1	4111.5	1704.6	1242.3	868.2	702.3	642.3	621.1	603.5	600.0
52.5°	17699.0	14353.3	4609.2	1598.7	1118.8	762.3	628.2	592.9	575.3	561.1	557.6
55°	19933.0	15535.6	4580.9	1485.8	998.8	677.6	575.3	554.1	532.9	518.8	511.7
57.5°	21323.5	15701.5	3776.3	1362.3	861.1	610.6	525.9	511.7	487.0	469.4	465.9
60°	21962.3	14755.7	2646.9	1199.9	723.5	547.0	472.9	465.9	434.1	409.4	402.3
62.5°	22078.8	12998.1	1764.6	998.8	603.5	487.0	420.0	409.4	367.0	324.7	303.5
65°	21605.9	10485.3	1221.1	780.0	515.3	423.5	360.0	338.8	292.9	250.6	236.5
67.5°	20109.5	7361.9	850.5	561.1	437.6	335.3	285.9	278.8	243.5	208.2	197.6
70°	17367.3	4196.2	568.2	420.0	345.9	229.4	225.9	232.9	197.6	169.4	155.3
72.5°	13315.7	1919.9	352.9	307.0	236.5	155.3	180.0	183.5	151.8	127.1	112.9
75°	7838.4	822.3	222.3	197.6	120.0	102.3	130.6	134.1	102.3	81.2	70.6
77.5°	2668.1	310.6	141.2	116.5	60.0	56.5	84.7	84.7	56.5	31.8	24.7
80°	607.0	116.5	70.6	45.9	28.2	24.7	28.2	24.7	14.1	3.5	0.0
82.5°	172.9	45.9	28.2	17.6	10.6	10.6	3.5	0.0	0.0	0.0	0.0
85°	49.4	21.2	7.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	3.5	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)