

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: P948083

Luminaire Tested: **GALN-SB3B-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948083
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-SB3B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 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: 12071 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 109.2
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

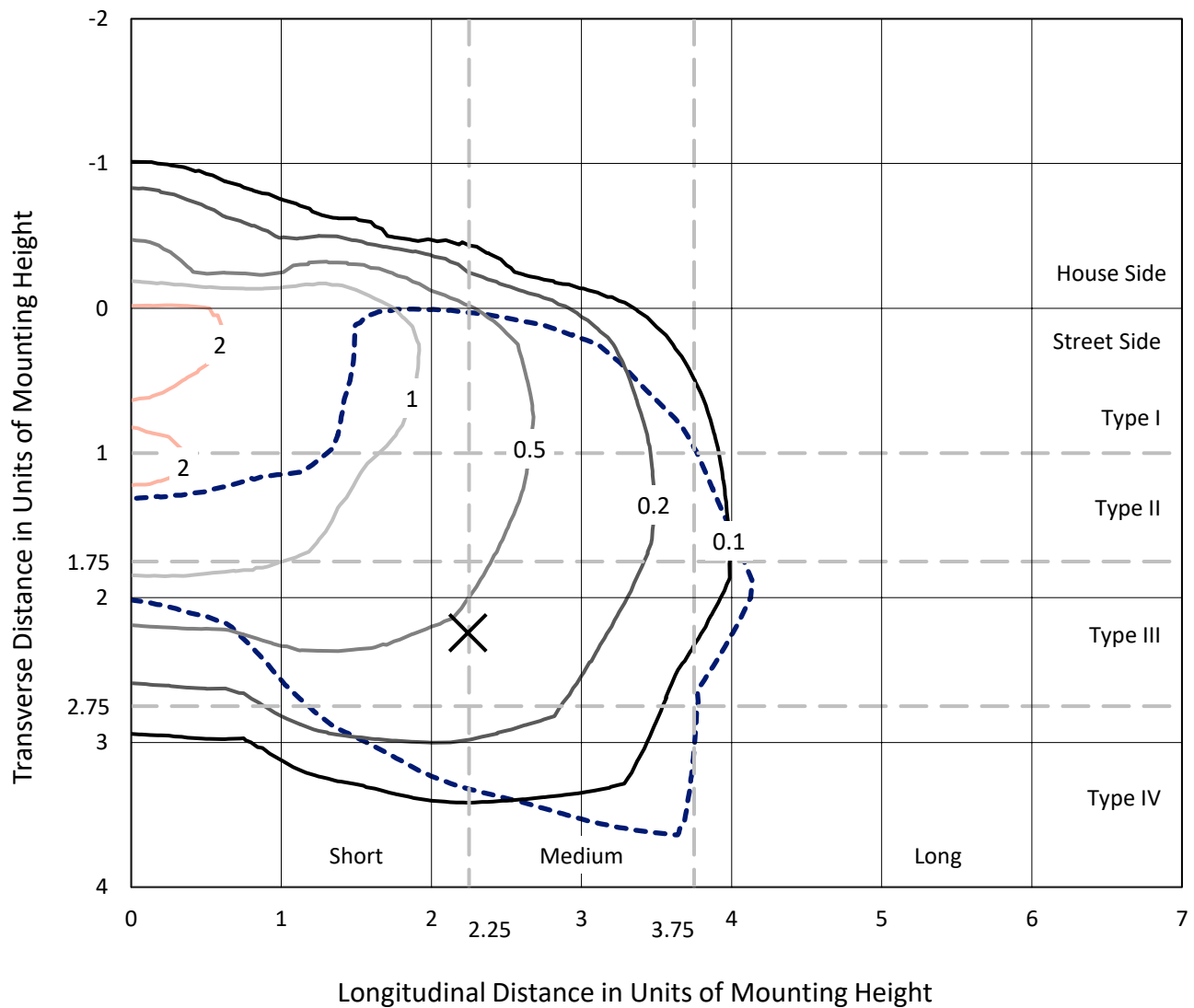


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Iso-Footcandle Lines of Horizontal Illumination

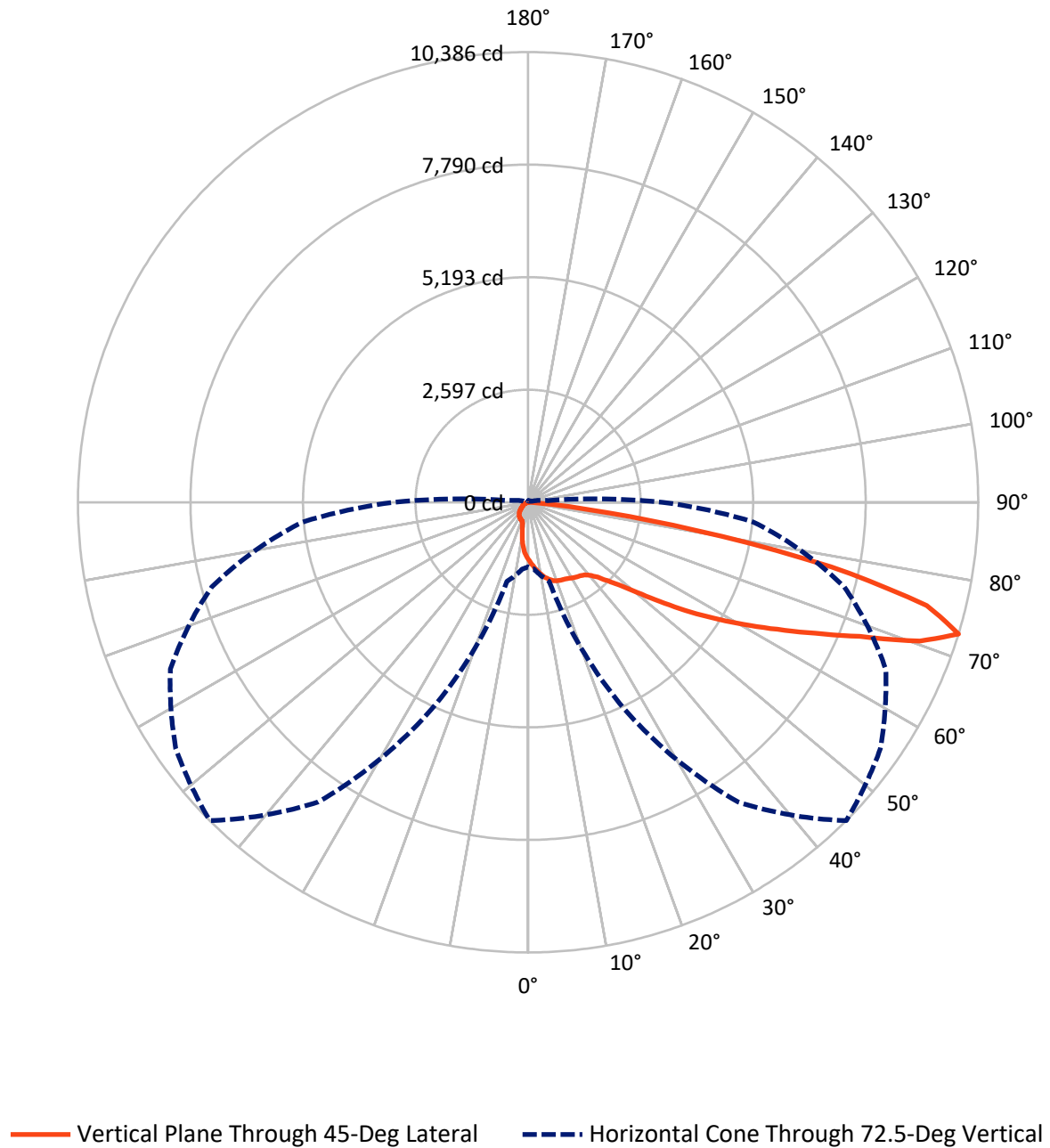
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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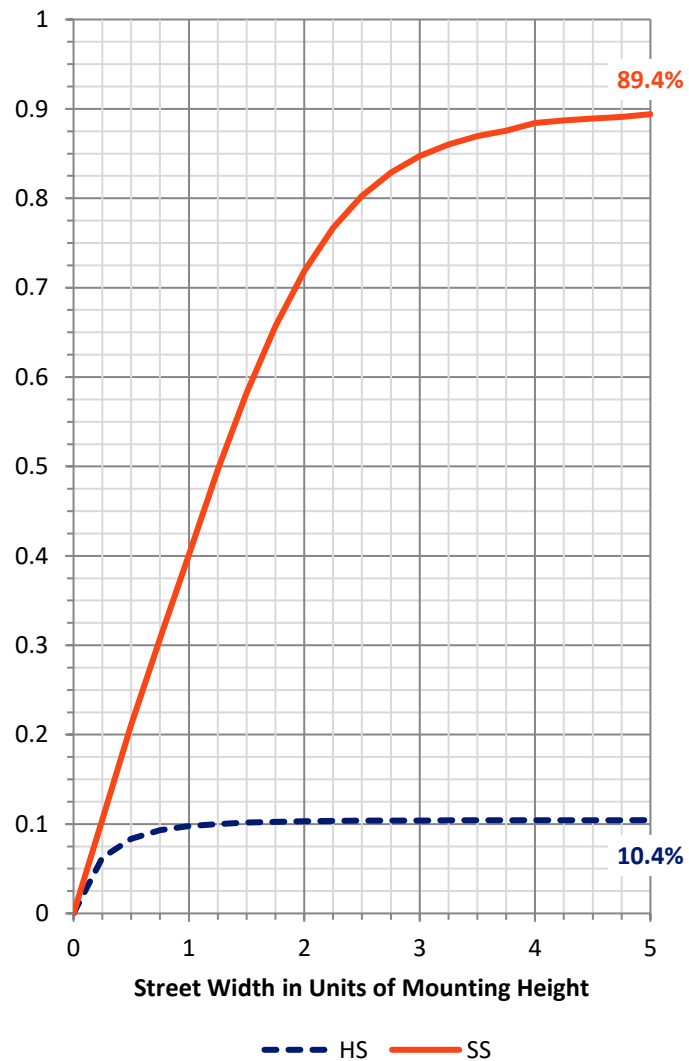
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.3	0.0	1268.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10802.7	0.0	10802.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	12071.0	0.0	12071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	1.0
10°-20°	364.1	3.0
20°-30°	598.0	5.0
30°-40°	848.1	7.0
40°-50°	1401.8	11.6
50°-60°	2518.2	20.9
60°-70°	3496.6	29.0
70°-80°	2536.3	21.0
80°-90°	183.4	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°	12071.0	100.0
0°-180°	12071.0	100.0

Coefficient of Utilization



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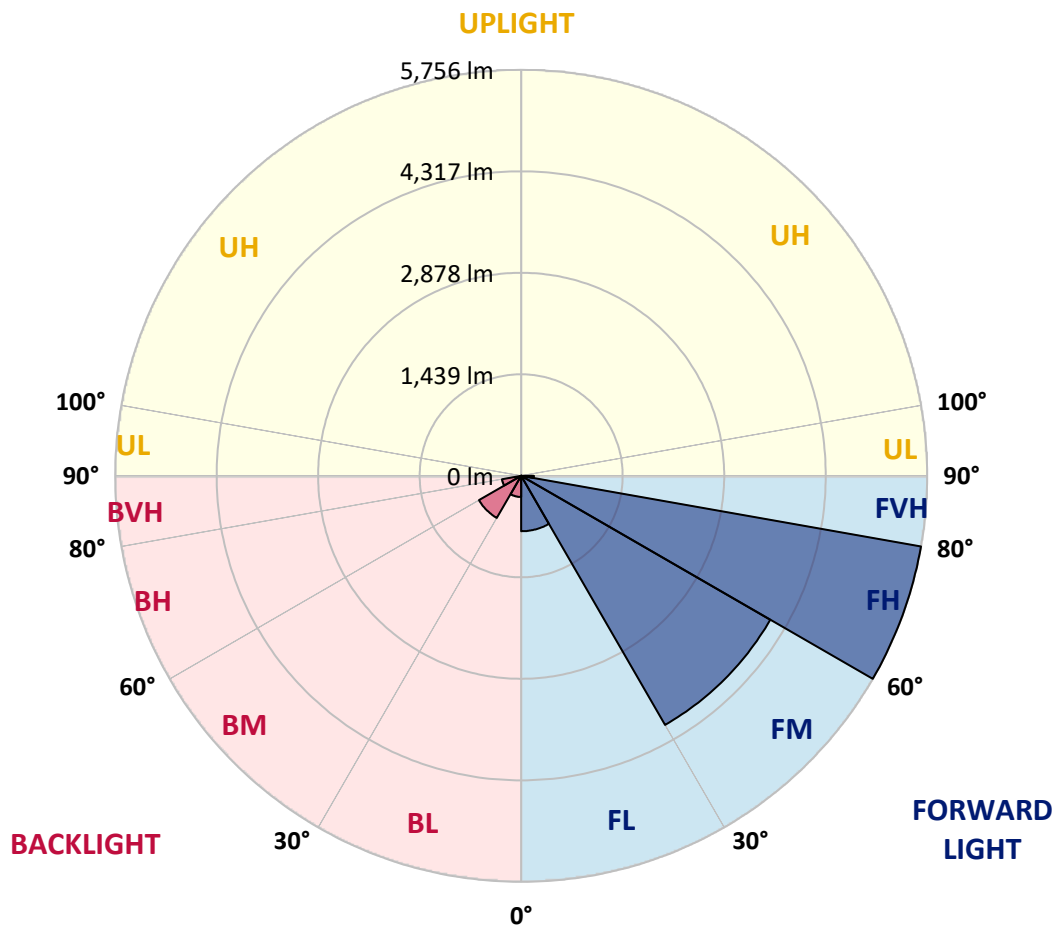
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	786.3	6.5			
FM	(30°-60°)	4078.2	33.8			
FH	(60°-80°)	5756.3	47.7			G3/7500
FVH	(80°-90°)	181.8	1.5			G2/225
BL	(0°-30°)	300.4	2.5	B1/500		
BM	(30°-60°)	689.8	5.7	B1/1000		
BH	(60°-80°)	276.6	2.3	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1444.3	1446.8	1445.2	1435.3	1418.8	1409.7	1404.8	1388.3	1377.6	1358.7	1338.9
5°	1577.0	1586.9	1581.1	1561.3	1530.0	1507.8	1501.2	1467.4	1436.9	1401.5	1360.3
7.5°	1717.9	1722.8	1712.1	1686.6	1644.6	1606.7	1600.9	1553.9	1505.3	1450.9	1394.9
10°	1839.8	1845.6	1829.1	1792.0	1744.3	1697.3	1689.1	1637.1	1579.5	1512.7	1441.0
12.5°	1942.0	1947.8	1926.3	1881.9	1829.1	1780.5	1772.3	1717.9	1654.4	1580.3	1491.3
15°	2019.4	2030.2	2001.3	1953.5	1896.7	1848.1	1843.9	1790.4	1728.6	1646.2	1551.5
17.5°	2064.8	2075.5	2048.3	1990.6	1942.0	1900.8	1895.9	1851.4	1793.7	1714.6	1610.0
20°	2072.2	2082.1	2053.2	2003.0	1962.6	1929.6	1927.2	1895.0	1853.0	1777.2	1673.4
22.5°	2049.9	2062.3	2035.9	1995.6	1967.5	1950.2	1946.9	1928.8	1904.9	1840.7	1732.7
25°	2026.9	2036.7	2017.0	1981.5	1966.7	1965.1	1967.5	1964.2	1959.3	1904.9	1801.9
27.5°	2025.2	2035.9	2013.7	1979.9	1971.7	1989.0	1991.4	2007.1	2011.2	1963.4	1868.7
30°	2039.2	2046.6	2025.2	1989.8	1985.7	2025.2	2026.0	2054.1	2060.6	2012.9	1934.6
32.5°	2069.7	2077.9	2056.5	2004.6	1998.8	2054.1	2056.5	2093.6	2104.3	2065.6	2003.8
35°	2141.4	2151.3	2126.6	2045.8	2025.2	2081.2	2088.7	2132.3	2153.7	2121.6	2075.5
37.5°	2320.2	2291.3	2257.6	2129.0	2085.4	2124.1	2136.4	2187.5	2225.4	2188.4	2161.2
40°	2764.3	2673.6	2568.2	2270.7	2190.8	2215.5	2225.4	2276.5	2328.4	2292.2	2279.0
42.5°	3430.8	3323.7	3154.0	2597.0	2349.8	2362.2	2369.6	2414.1	2487.4	2458.6	2461.9
45°	4024.9	3986.2	3813.1	3154.0	2647.3	2586.3	2595.4	2618.4	2726.4	2715.7	2737.1
47.5°	4481.3	4459.1	4325.6	3793.4	3149.9	2860.7	2886.2	2896.9	3052.7	3090.6	3148.2
50°	4832.3	4824.1	4704.6	4361.9	3806.5	3265.2	3274.3	3251.2	3484.4	3578.3	3687.9
52.5°	5163.6	5191.6	5103.4	4890.0	4507.7	3795.0	3793.4	3684.6	3999.3	4141.1	4328.1
55°	5462.6	5472.5	5481.6	5428.9	5213.0	4398.1	4382.5	4204.5	4596.7	4743.4	4946.0
57.5°	5743.6	5747.7	5828.5	5936.4	5947.1	5045.7	5016.9	4803.5	5249.2	5353.9	5478.3
60°	5932.3	5951.2	6121.8	6421.7	6552.7	5713.9	5698.3	5480.8	5913.3	5961.9	5938.9
62.5°	5660.4	5775.7	6205.8	6800.7	7124.5	6454.6	6447.2	6242.9	6612.0	6572.5	6374.7
65°	4581.9	4777.1	5533.5	7056.9	7685.6	7281.9	7292.6	7075.1	7329.7	7201.1	6729.0
67.5°	3205.1	3411.1	4305.8	7077.5	8312.6	8253.3	8315.1	7974.0	8091.8	7803.4	6813.1
70°	2216.4	2322.7	2905.2	6634.3	8801.2	9591.3	9589.7	9078.0	8849.8	8077.8	6384.6
72.5°	1490.5	1545.7	1886.8	5263.2	8442.0	10386.4	10338.6	9921.7	9105.2	7554.6	5216.3
75°	628.7	669.0	873.4	2957.9	6678.8	9502.4	9373.0	8768.2	8090.1	5948.8	3254.5
77.5°	199.4	216.7	344.4	1058.7	3678.8	7142.6	7005.9	5475.8	5422.3	2984.3	1189.8
80°	94.8	110.4	193.6	425.1	1447.6	3884.8	3865.9	2484.1	2332.5	805.8	238.9
82.5°	41.2	48.6	107.1	227.4	647.6	1385.8	1413.9	845.3	699.5	305.7	73.3
85°	13.2	17.3	49.4	104.6	273.5	344.4	340.3	201.0	281.8	166.4	25.5
87.5°	0.0	0.0	16.5	23.9	28.0	19.8	22.2	17.3	78.3	46.1	9.1
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°	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4	1322.4
2.5°	1329.0	1315.8	1292.7	1271.3	1252.4	1233.4	1221.9	1205.4	1203.8	1203.8	1207.9
5°	1338.1	1316.6	1275.4	1231.8	1181.5	1133.7	1085.9	1039.8	1025.0	1014.3	1019.2
7.5°	1364.4	1330.6	1265.6	1182.3	1086.8	982.1	908.8	829.7	799.2	782.7	785.2
10°	1402.3	1356.2	1257.3	1111.5	956.6	814.0	709.4	623.7	590.8	576.7	576.7
12.5°	1444.3	1387.5	1242.5	1023.3	814.0	643.5	541.3	501.8	496.8	496.8	496.8
15°	1494.6	1425.4	1216.9	919.5	664.9	509.2	472.9	474.6	479.5	482.8	482.8
17.5°	1546.5	1465.8	1176.6	803.3	533.1	458.1	458.9	461.4	465.5	468.8	468.8
20°	1602.5	1506.1	1123.0	679.7	457.3	443.3	445.7	448.2	451.5	453.2	454.0
22.5°	1662.7	1544.0	1059.6	558.6	431.7	430.9	431.7	434.2	438.3	438.3	440.0
25°	1727.0	1586.1	987.1	470.5	418.6	418.6	420.2	421.9	425.1	425.1	426.0
27.5°	1792.9	1624.8	910.4	424.3	407.0	406.2	406.2	408.7	410.3	411.1	412.0
30°	1865.4	1670.1	833.8	414.4	398.0	393.8	391.4	393.0	394.7	395.5	397.1
32.5°	1939.5	1713.8	765.4	418.6	388.9	381.5	373.2	371.6	371.6	374.9	377.4
35°	2021.9	1761.6	712.7	432.6	384.0	363.4	350.2	342.8	343.6	348.5	351.0
37.5°	2120.8	1819.2	674.0	444.9	380.7	342.8	321.3	312.3	306.5	312.3	310.6
40°	2250.1	1904.1	646.0	454.8	376.5	318.9	290.0	275.2	264.5	267.8	266.1
42.5°	2440.5	2037.6	635.2	455.6	367.5	290.8	257.9	238.1	222.5	223.3	220.0
45°	2707.4	2248.5	690.5	444.9	347.7	260.4	224.1	197.7	187.9	185.4	182.1
47.5°	3073.2	2555.8	818.2	422.7	318.9	230.7	191.2	168.9	161.5	157.4	154.9
50°	3563.5	2950.5	959.9	398.0	290.0	202.7	164.0	150.0	145.0	140.9	140.1
52.5°	4132.0	3350.9	1076.0	373.2	261.2	178.0	146.7	138.4	134.3	131.0	130.2
55°	4653.5	3626.9	1069.5	346.9	233.2	158.2	134.3	129.4	124.4	121.1	119.5
57.5°	4978.2	3665.7	881.6	318.0	201.0	142.5	122.8	119.5	113.7	109.6	108.8
60°	5127.3	3444.8	617.9	280.1	168.9	127.7	110.4	108.8	101.3	95.6	93.9
62.5°	5154.5	3034.5	412.0	233.2	140.9	113.7	98.0	95.6	85.7	75.8	70.9
65°	5044.1	2447.9	285.1	182.1	120.3	98.9	84.0	79.1	68.4	58.5	55.2
67.5°	4694.7	1718.7	198.6	131.0	102.2	78.3	66.7	65.1	56.9	48.6	46.1
70°	4054.5	979.6	132.7	98.0	80.7	53.6	52.7	54.4	46.1	39.5	36.3
72.5°	3108.7	448.2	82.4	71.7	55.2	36.3	42.0	42.8	35.4	29.7	26.4
75°	1829.9	192.0	51.9	46.1	28.0	23.9	30.5	31.3	23.9	19.0	16.5
77.5°	622.9	72.5	33.0	27.2	14.0	13.2	19.8	19.8	13.2	7.4	5.8
80°	141.7	27.2	16.5	10.7	6.6	5.8	6.6	5.8	3.3	0.8	0.0
82.5°	40.4	10.7	6.6	4.1	2.5	2.5	0.8	0.0	0.0	0.0	0.0
85°	11.5	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	0.8	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)