

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: P940928

Luminaire Tested: **GALN-SB4B-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14116 lumens
Efficiency: N/A
Efficacy: 96.0 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): 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



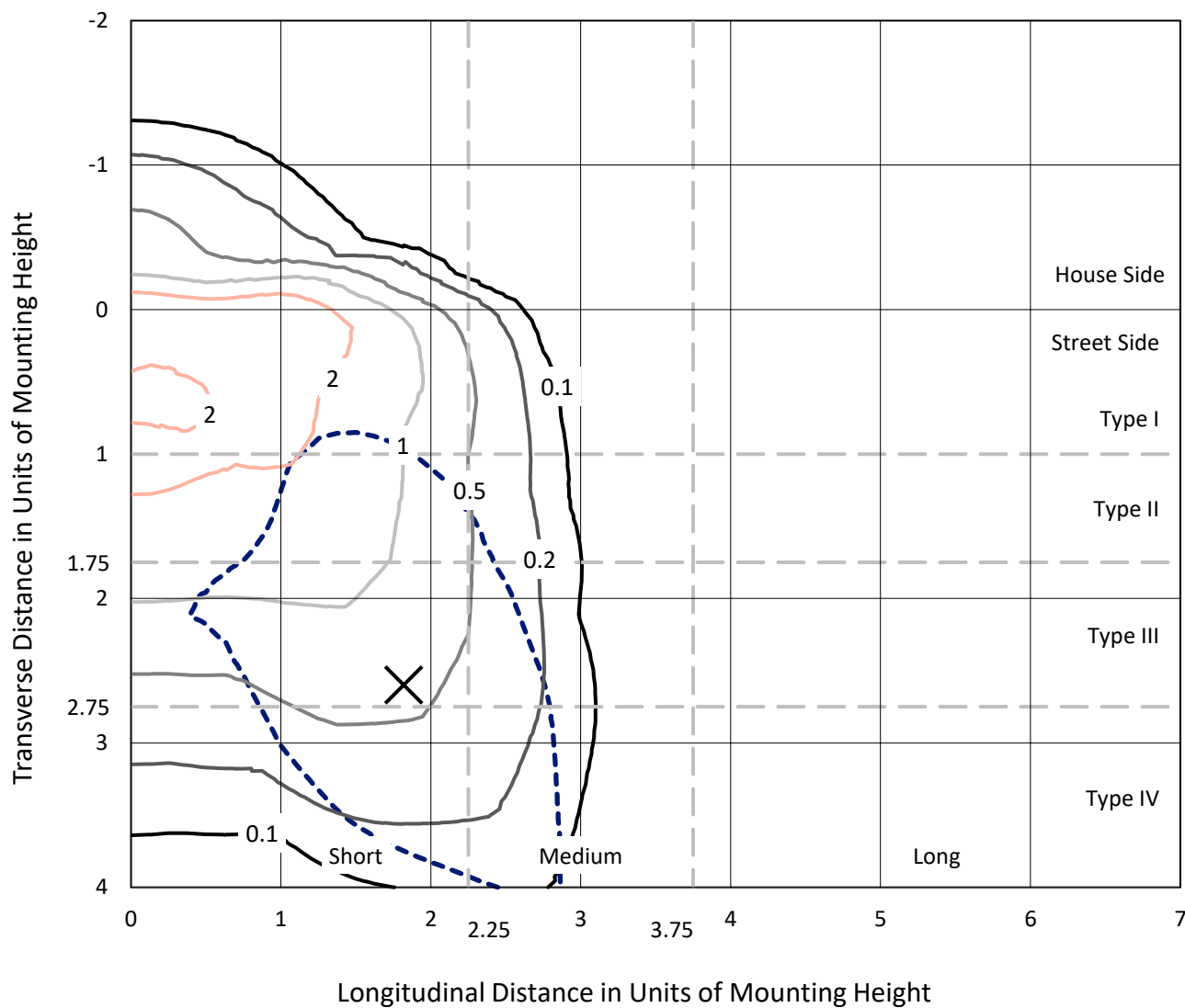
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

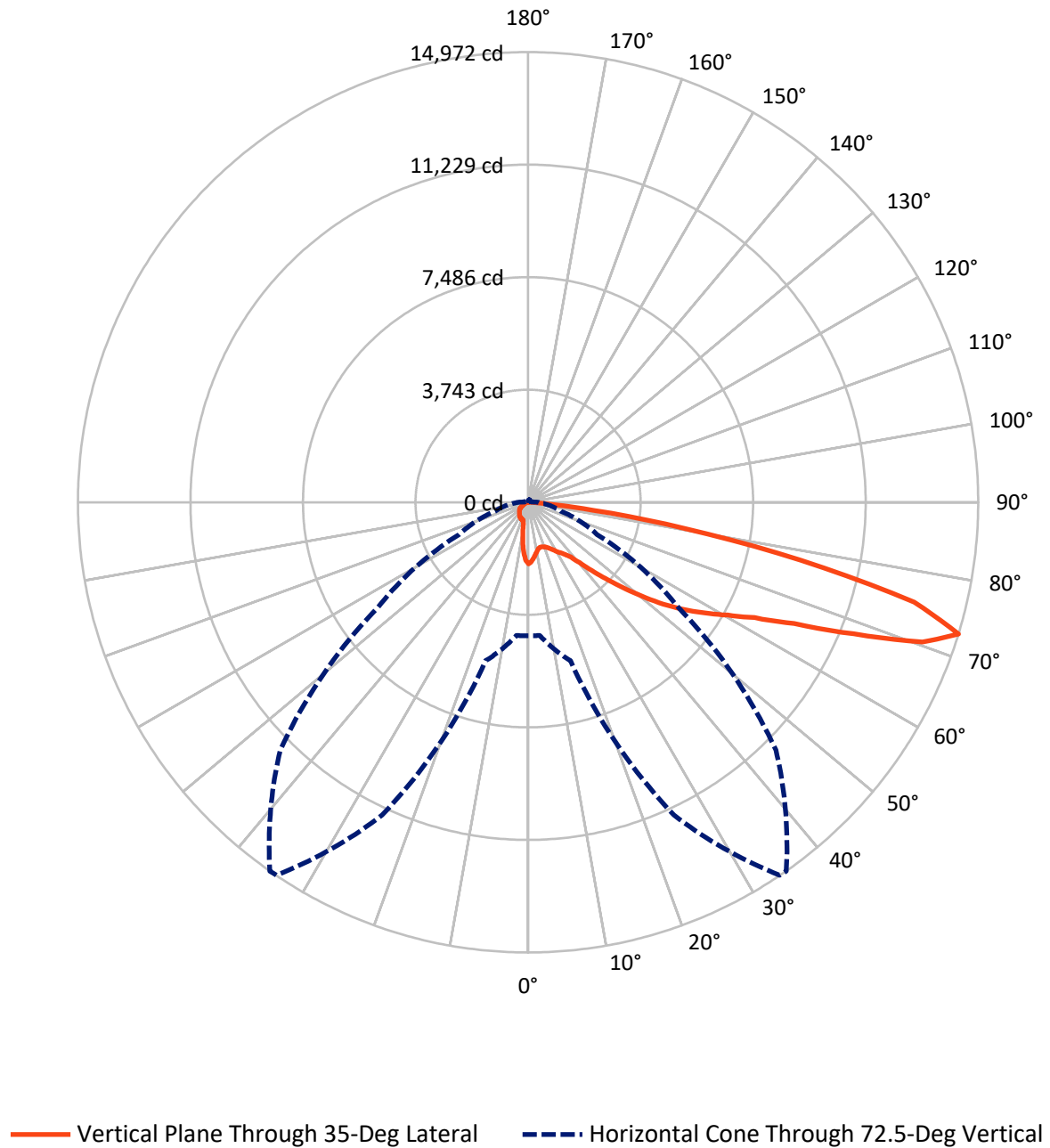


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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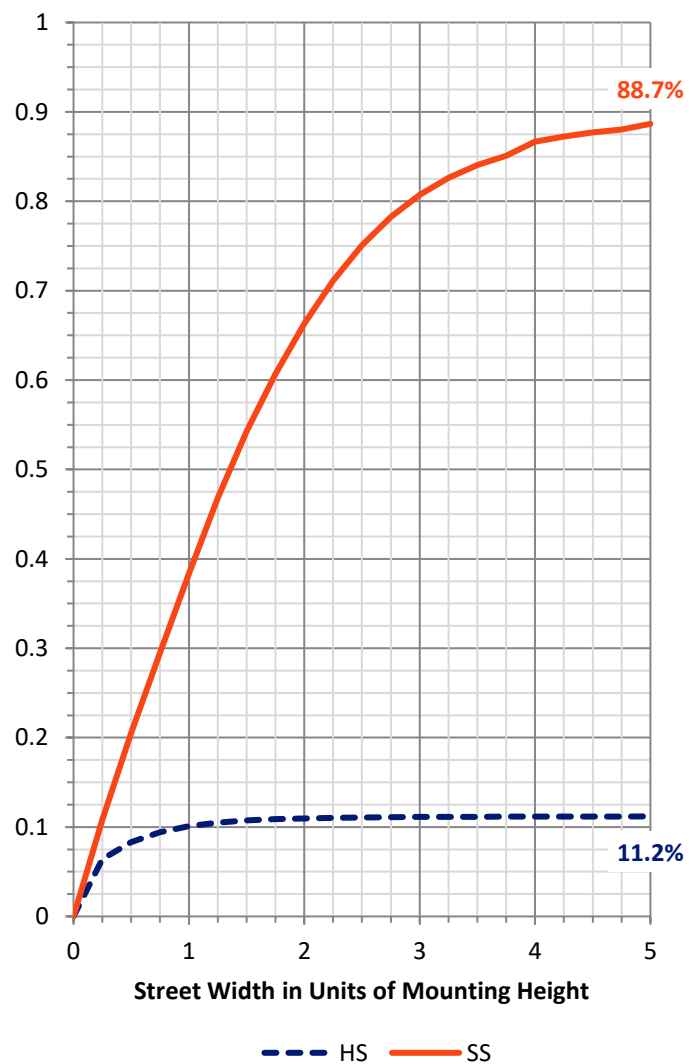
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1588.7	0.0	1588.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12527.3	0.0	12527.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	14116.0	0.0	14116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.2
10°-20°	393.3	2.8
20°-30°	638.9	4.5
30°-40°	1066.0	7.6
40°-50°	2016.9	14.3
50°-60°	3204.8	22.7
60°-70°	3964.5	28.1
70°-80°	2464.4	17.5
80°-90°	199.2	1.4
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°	14116.0	100.0
0°-180°	14116.0	100.0

Coefficient of Utilization



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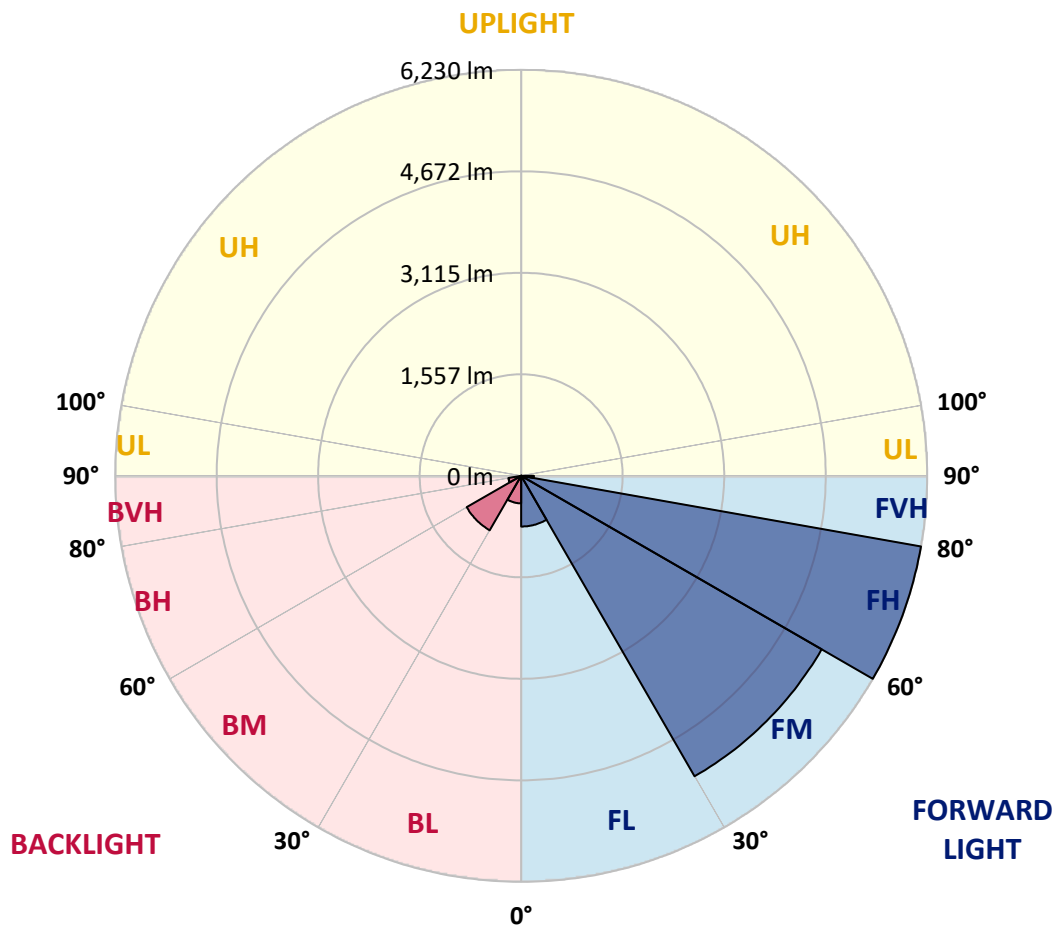
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.2	5.5			
FM	(30°-60°)	5323.1	37.7			
FH	(60°-80°)	6229.6	44.1			G3/7500
FVH	(80°-90°)	196.5	1.4			G2/225
BL	(0°-30°)	422.1	3.0	B1/500		
BM	(30°-60°)	964.5	6.8	B1/1000		
BH	(60°-80°)	199.4	1.4	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	34°	35°	45°	55°	65°	75°	85°
0°	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9
2.5°	1954.9	1971.4	1974.5	1979.7	1979.7	1985.9	1996.2	2010.7	2034.5	2046.9	2055.2
5°	1801.8	1814.2	1829.7	1842.1	1865.9	1869.0	1909.4	1948.7	2003.5	2044.8	2073.8
7.5°	1647.7	1662.1	1682.8	1712.8	1743.9	1753.2	1814.2	1880.4	1967.3	2044.8	2093.5
10°	1539.1	1540.1	1558.7	1588.7	1638.4	1649.7	1724.2	1818.3	1926.9	2032.4	2112.1
12.5°	1478.0	1485.3	1493.6	1516.3	1563.9	1571.1	1650.8	1761.4	1886.6	2025.2	2133.8
15°	1478.0	1483.2	1488.4	1499.8	1538.0	1544.2	1614.6	1725.2	1865.9	2028.3	2169.0
17.5°	1493.6	1501.8	1497.7	1511.1	1551.5	1555.6	1617.7	1714.9	1864.9	2048.0	2222.8
20°	1530.8	1537.0	1528.7	1537.0	1577.3	1585.6	1649.7	1734.6	1882.5	2082.1	2290.0
22.5°	1589.7	1592.9	1573.2	1579.4	1620.8	1631.1	1705.6	1790.4	1924.9	2136.9	2380.0
25°	1664.2	1670.4	1640.4	1647.7	1687.0	1699.4	1785.2	1874.2	1992.1	2212.4	2494.8
27.5°	1750.1	1753.2	1727.3	1726.3	1777.0	1794.5	1881.4	1977.6	2082.1	2307.6	2639.6
30°	1848.3	1857.6	1832.8	1828.7	1892.8	1907.3	1993.1	2104.8	2214.5	2450.3	2845.4
32.5°	1925.9	1933.1	1918.7	1929.0	1994.2	2005.5	2128.6	2284.8	2422.4	2653.0	3125.7
35°	2037.6	2041.7	2008.6	2027.3	2101.7	2130.7	2313.8	2537.2	2684.1	2907.5	3491.9
37.5°	2442.0	2442.0	2301.4	2209.3	2280.7	2306.5	2567.2	2854.7	3006.8	3248.8	3953.2
40°	3001.6	2992.3	2786.5	2598.2	2588.9	2639.6	2928.2	3255.0	3423.6	3658.4	4472.4
42.5°	3598.4	3583.9	3303.6	3117.4	3086.4	3104.0	3345.0	3748.4	3920.1	4158.0	5030.9
45°	4128.0	4123.8	3867.3	3617.0	3561.2	3617.0	3865.2	4325.5	4448.6	4698.9	5588.4
47.5°	4571.7	4571.7	4384.5	4221.1	4192.1	4225.2	4569.6	4965.8	4954.4	5275.0	6131.4
50°	5082.6	5078.5	4900.6	4830.3	4860.3	4906.8	5380.5	5640.1	5477.7	5840.8	6616.5
52.5°	5440.5	5465.3	5404.3	5392.9	5546.0	5626.7	6203.8	6300.0	5946.3	6377.6	6979.6
55°	5723.9	5752.9	5823.2	5902.9	6197.6	6303.1	7001.3	6925.8	6338.3	6843.1	7188.5
57.5°	6125.2	6083.9	6192.5	6349.7	6826.5	6953.7	7773.9	7516.4	6653.8	7220.6	7211.3
60°	6612.4	6618.6	6637.2	6835.8	7454.3	7617.8	8535.2	8074.9	6856.5	7452.3	6958.9
62.5°	7197.8	7207.1	7245.4	7550.5	8297.3	8451.4	9346.1	8532.1	6949.6	7387.1	6307.3
65°	7157.5	7196.8	7624.0	8667.6	9578.8	9730.9	10292.5	8852.7	6808.9	6791.3	5135.4
67.5°	6520.3	6584.5	7299.2	10001.9	11510.9	11680.6	11436.5	8915.8	6201.8	5281.2	3350.2
70°	5684.6	5707.4	6566.9	11201.7	13748.2	13919.9	12460.4	8221.8	4706.1	2945.7	1500.8
72.5°	4439.3	4444.5	5452.9	11479.9	14962.4	14971.8	11656.8	6103.5	2531.0	1131.5	521.3
75°	3171.2	3140.2	3652.2	9309.9	13163.8	13269.3	8739.0	2863.0	967.1	534.7	259.6
77.5°	1700.4	1734.6	2066.6	5521.2	9093.7	9273.7	4768.2	825.4	492.3	364.1	171.7
80°	525.4	554.4	847.1	2527.9	5150.9	5259.5	1767.7	367.2	343.4	259.6	112.7
82.5°	165.5	171.7	395.1	1062.2	2137.9	2187.6	512.0	207.9	234.8	171.7	66.2
85°	47.6	48.6	175.8	396.1	528.5	538.9	143.8	80.7	134.5	106.5	34.1
87.5°	5.2	16.5	66.2	66.2	46.5	45.5	15.5	17.6	38.3	13.4	6.2
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°	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9	2045.9
2.5°	2050.0	2051.1	2037.6	2014.9	1990.0	1969.3	1943.5	1922.8	1908.3	1904.2	1911.4
5°	2064.5	2057.3	2019.0	1949.7	1866.9	1795.6	1715.9	1652.8	1611.5	1593.9	1600.1
7.5°	2086.2	2065.5	1981.8	1845.2	1687.0	1546.3	1403.6	1292.9	1222.6	1187.4	1192.6
10°	2104.8	2063.5	1919.7	1694.2	1452.2	1239.1	1046.7	913.3	838.8	803.7	804.7
12.5°	2122.4	2062.4	1839.0	1515.3	1187.4	926.7	747.8	681.6	660.9	653.7	651.6
15°	2155.5	2065.5	1737.7	1310.5	923.6	700.2	635.1	634.0	638.2	636.1	635.1
17.5°	2201.0	2068.6	1622.8	1093.3	712.6	617.5	614.4	623.7	629.9	626.8	625.8
20°	2260.0	2081.0	1500.8	878.1	612.3	596.8	604.0	612.3	617.5	612.3	611.3
22.5°	2342.7	2102.8	1367.4	705.4	580.3	584.4	590.6	599.9	605.1	597.8	596.8
25°	2444.1	2136.9	1236.0	613.4	564.7	569.9	579.2	589.6	595.8	588.5	587.5
27.5°	2575.5	2191.7	1115.0	592.7	549.2	552.3	565.8	581.3	589.6	580.3	580.3
30°	2765.8	2281.7	1010.5	602.0	539.9	532.7	551.3	573.0	582.3	574.0	573.0
32.5°	3018.1	2408.9	946.4	616.5	535.8	509.9	527.5	555.4	570.9	565.8	565.8
35°	3349.1	2602.3	921.6	633.0	532.7	486.1	498.5	528.5	555.4	560.6	560.6
37.5°	3750.4	2871.3	928.8	640.2	523.4	466.5	472.7	498.5	533.7	550.3	554.4
40°	4206.6	3184.7	970.2	633.0	513.0	449.9	451.0	470.6	501.6	526.5	534.7
42.5°	4677.2	3550.8	1046.7	606.1	503.7	435.4	432.3	445.8	466.5	484.1	491.3
45°	5125.0	3927.3	1122.2	568.9	492.3	421.0	413.7	418.9	423.0	430.3	434.4
47.5°	5516.0	4192.1	1100.5	534.7	476.8	404.4	392.0	389.9	377.5	376.5	375.5
50°	5786.0	4250.0	977.4	500.6	454.1	385.8	366.1	353.7	332.0	321.7	322.7
52.5°	5871.8	4021.4	798.5	466.5	416.8	361.0	333.1	313.4	286.5	277.2	276.2
55°	5758.1	3573.6	638.2	425.1	365.1	327.9	296.8	271.0	249.3	237.9	237.9
57.5°	5479.8	3003.7	504.7	376.5	310.3	290.6	259.6	233.8	215.1	203.8	201.7
60°	5018.5	2385.1	399.2	318.6	264.8	250.3	218.2	201.7	185.1	171.7	168.6
62.5°	4318.3	1702.5	313.4	252.4	221.3	204.8	186.2	173.8	154.1	135.5	132.4
65°	3369.8	1041.6	242.0	185.1	177.9	169.6	158.3	146.9	123.1	104.5	101.4
67.5°	2125.5	493.4	172.7	139.6	140.7	136.5	131.4	122.0	104.5	87.9	85.8
70°	936.1	238.9	113.8	106.5	104.5	104.5	108.6	105.5	89.0	73.4	70.3
72.5°	318.6	128.3	84.8	80.7	75.5	74.5	91.0	87.9	71.4	56.9	53.8
75°	166.5	85.8	62.1	57.9	45.5	54.8	72.4	68.3	50.7	37.2	34.1
77.5°	108.6	61.0	42.4	37.2	25.9	36.2	53.8	47.6	30.0	18.6	16.5
80°	68.3	40.3	24.8	17.6	12.4	19.7	29.0	20.7	11.4	4.1	3.1
82.5°	36.2	20.7	9.3	6.2	5.2	6.2	7.2	5.2	2.1	0.0	0.0
85°	14.5	7.2	3.1	2.1	1.0	0.0	2.1	1.0	0.0	0.0	0.0
87.5°	5.2	1.0	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)