

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: STREETWORKS

Report Number: P192709

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6184.1 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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: 28.75 FT

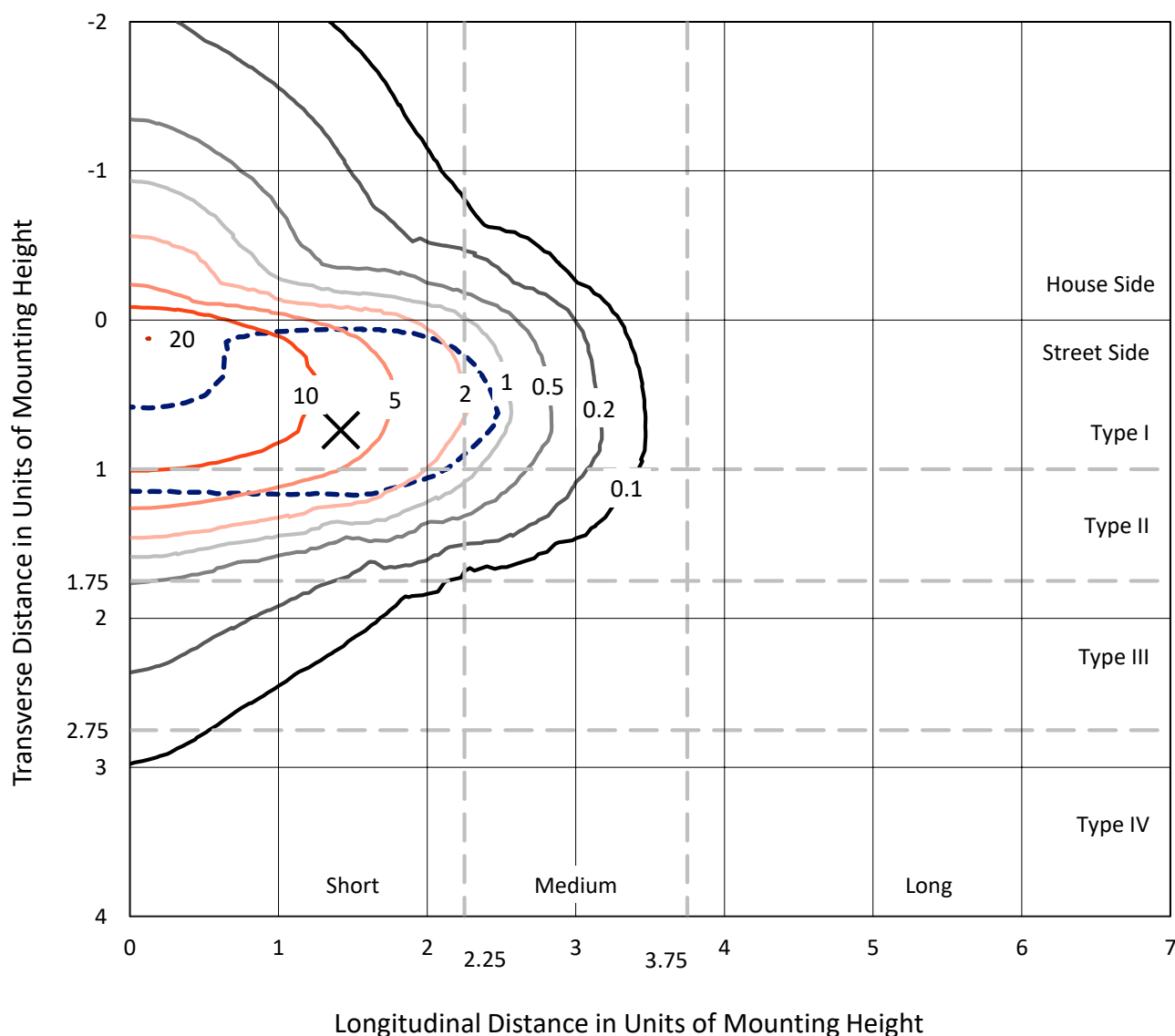


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

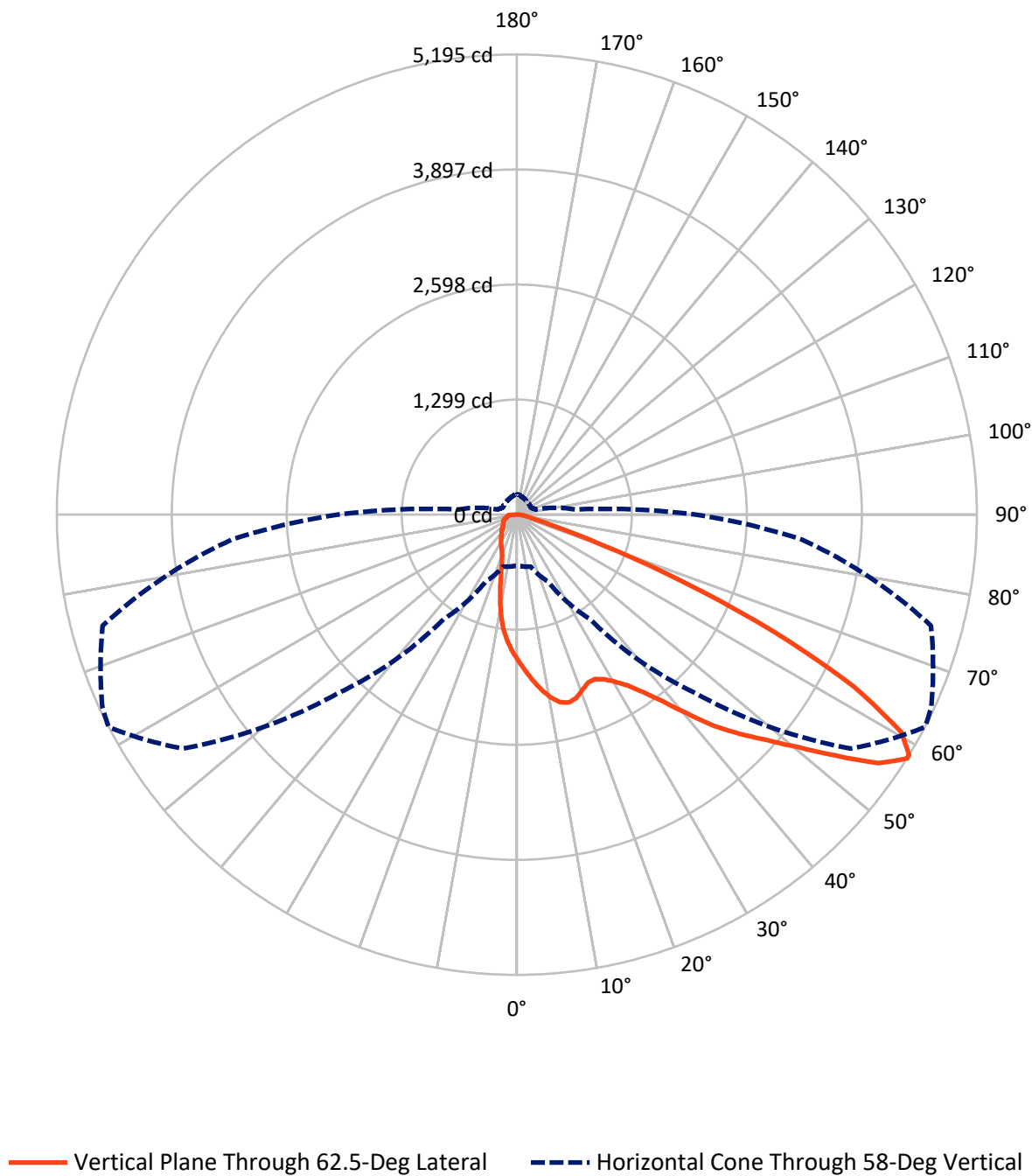


Based on 10 foot mounting height. Maximum calculated value = 20 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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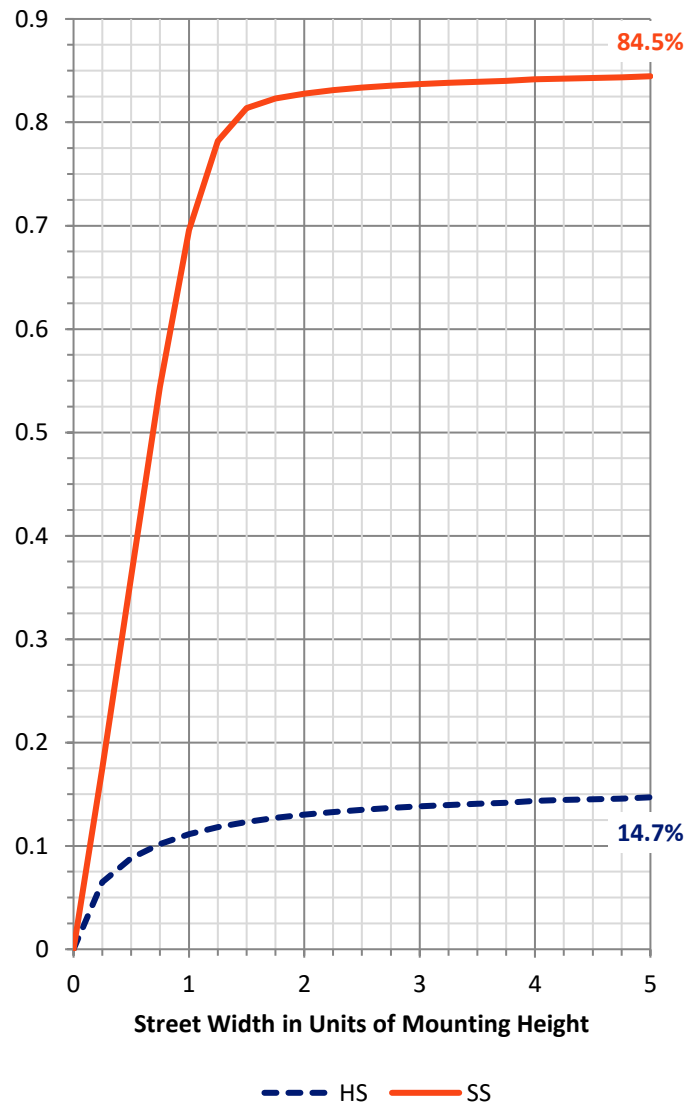
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	943.1	0.0	943.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	5241.0	0.0	5241.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	6184.1	0.0	6184.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	2.4
10°-20°	375.5	6.1
20°-30°	607.1	9.8
30°-40°	963.7	15.6
40°-50°	1410.1	22.8
50°-60°	1474.8	23.8
60°-70°	871.3	14.1
70°-80°	245.5	4.0
80°-90°	89.1	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°	6184.1	100.0
0°-180°	6184.1	100.0

Coefficient of Utilization



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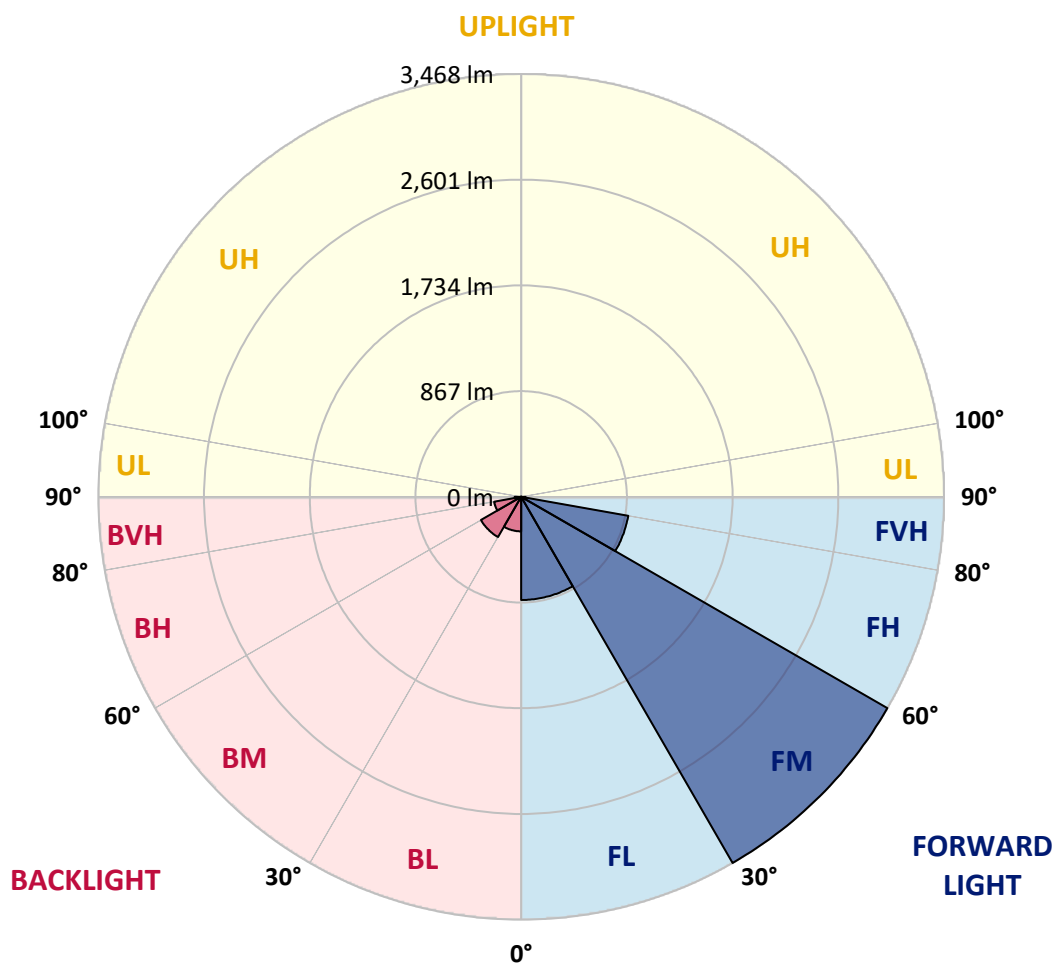
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	846.1	13.7			
FM	(30°-60°)	3468.0	56.1			
FH	(60°-80°)	891.8	14.4			G1/1800
FVH	(80°-90°)	35.2	0.6			G1/100
BL	(0°-30°)	283.4	4.6	B1/500		
BM	(30°-60°)	380.7	6.2	B1/1000		
BH	(60°-80°)	225.0	3.6	B1/500		G1/500
BVH	(80°-90°)	54.0	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7
2.5°	1877.1	1862.0	1852.4	1843.9	1832.9	1809.3	1777.5	1757.4	1747.2	1712.5	1671.4
5°	2061.1	2047.7	2037.8	2026.4	2006.6	1969.7	1918.5	1877.6	1857.6	1788.2	1706.2
7.5°	2018.0	2023.6	2040.8	2070.8	2096.3	2091.4	2045.7	1993.9	1967.3	1870.9	1746.3
10°	1758.3	1768.0	1797.7	1867.8	1981.3	2097.8	2133.4	2097.6	2070.8	1952.8	1787.7
12.5°	1706.2	1705.9	1708.2	1726.9	1794.4	1958.4	2136.2	2172.4	2156.3	2030.8	1829.9
15°	1727.4	1728.1	1726.3	1734.2	1755.0	1820.0	2047.2	2201.2	2212.6	2109.5	1873.6
17.5°	1783.3	1781.9	1775.1	1775.1	1782.8	1808.0	1942.3	2174.4	2226.8	2179.0	1912.0
20°	1877.1	1870.4	1852.6	1836.3	1828.1	1841.9	1899.3	2112.6	2202.1	2240.0	1943.7
22.5°	1990.7	1985.5	1956.7	1921.7	1893.4	1893.1	1921.4	2058.8	2159.3	2297.2	1970.6
25°	2137.4	2129.0	2086.2	2030.2	1980.8	1961.9	1969.7	2056.1	2136.0	2359.6	1994.4
27.5°	2309.8	2294.3	2243.7	2163.0	2090.2	2052.1	2040.8	2103.7	2157.3	2436.8	2027.7
30°	2518.9	2501.2	2436.2	2331.0	2228.3	2165.6	2141.5	2187.8	2227.7	2530.9	2081.0
32.5°	2756.8	2731.2	2656.1	2540.2	2405.1	2309.5	2270.2	2299.1	2330.8	2644.1	2147.6
35°	3085.6	3055.0	2946.4	2786.5	2633.9	2502.6	2439.6	2460.6	2491.5	2813.0	2243.9
37.5°	3309.8	3296.2	3223.9	3073.7	2907.6	2756.5	2659.3	2671.5	2689.0	3024.2	2367.4
40°	3307.8	3313.3	3314.7	3316.2	3203.3	3058.5	2954.0	2941.2	2937.7	3255.9	2507.8
42.5°	3142.1	3164.8	3238.2	3386.9	3455.7	3389.3	3293.5	3256.5	3238.2	3529.1	2656.6
45°	2888.5	2900.7	3038.1	3328.7	3585.1	3716.9	3644.5	3527.9	3494.7	3780.2	2780.1
47.5°	2757.7	2771.1	2857.5	3174.4	3583.4	3981.6	4023.6	3801.6	3742.2	3998.5	2886.7
50°	2446.5	2474.4	2583.2	2905.9	3452.8	4103.3	4419.9	4127.9	4004.9	4211.1	2993.6
52.5°	1874.8	1917.8	2039.9	2464.5	3121.1	4043.0	4737.1	4523.3	4349.7	4431.2	3085.3
55°	1182.6	1214.6	1317.1	1740.5	2496.8	3729.4	4857.2	4951.0	4796.7	4639.7	3164.8
57.5°	643.0	657.2	695.7	960.9	1624.0	3036.1	4682.0	5194.5	5130.4	4816.8	3224.8
58°	575.5	585.0	608.9	832.9	1440.2	2846.5	4604.1	5195.4	5163.3	4842.7	3229.4
60°	426.8	422.0	400.7	475.3	801.6	1966.4	4134.2	4987.4	5081.4	4874.5	3206.8
62.5°	375.1	363.2	319.7	314.7	389.9	906.0	3163.4	4272.2	4494.4	4693.3	3068.6
65°	352.4	339.6	283.6	265.6	281.4	383.2	1863.4	3204.1	3482.7	4144.1	2715.7
67.5°	335.4	318.8	260.6	235.9	237.1	253.4	746.9	2018.0	2331.7	3146.4	2112.4
70°	319.1	301.1	241.1	212.6	205.9	200.4	297.0	1010.2	1294.7	1987.4	1346.8
72.5°	301.7	284.0	224.0	194.3	181.2	162.8	193.9	413.2	577.2	940.2	611.0
75°	276.3	260.4	206.7	177.9	159.3	134.8	146.5	215.8	258.8	374.5	294.5
77.5°	245.2	232.0	187.5	164.6	141.3	109.5	112.6	149.6	166.0	214.3	175.1
80°	176.1	180.9	166.8	147.9	125.7	88.8	86.6	109.2	117.9	137.7	113.8
82.5°	123.8	126.4	138.0	120.8	103.9	69.9	63.8	76.9	82.2	90.5	61.4
85°	85.3	82.4	94.6	84.1	75.2	46.6	43.7	52.1	55.2	56.2	31.8
87.5°	51.3	51.3	54.7	45.2	40.4	24.1	23.6	29.7	31.8	30.3	17.5
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°	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7	1642.7
2.5°	1647.1	1626.4	1582.4	1547.1	1502.7	1456.3	1430.4	1402.7	1383.8	1370.1	1392.0
5°	1659.5	1617.4	1526.5	1440.2	1345.1	1246.1	1170.9	1101.0	1052.3	1022.1	1050.6
7.5°	1679.4	1614.5	1469.6	1322.4	1151.4	986.6	839.2	746.9	693.0	666.6	683.2
10°	1702.0	1609.7	1403.0	1162.5	917.9	710.3	600.2	562.9	550.6	545.8	548.1
12.5°	1721.1	1599.9	1321.2	969.1	689.3	560.8	529.2	528.3	530.9	531.4	532.3
15°	1734.4	1585.4	1199.7	767.6	551.2	511.2	509.3	514.5	519.5	521.5	522.7
17.5°	1743.4	1555.3	1062.5	606.8	493.9	486.9	491.0	497.6	502.9	504.3	505.6
20°	1742.5	1511.4	899.2	506.1	462.7	462.7	469.7	474.9	475.3	473.5	474.4
22.5°	1733.5	1451.1	740.8	452.6	435.1	440.0	447.0	442.1	421.6	408.3	409.1
25°	1718.4	1379.2	605.1	418.5	409.4	418.1	416.2	378.8	349.7	336.6	336.6
27.5°	1705.0	1294.0	500.9	388.8	383.8	394.5	358.5	324.7	312.5	306.4	304.3
30°	1695.3	1202.4	431.2	360.2	359.7	351.9	311.0	301.7	299.7	294.7	293.0
32.5°	1697.7	1109.5	386.7	335.2	337.2	301.1	288.3	290.3	288.6	283.3	281.1
35°	1716.9	1021.2	357.6	312.5	306.4	271.9	274.9	278.7	278.1	270.9	268.4
37.5°	1751.3	937.7	338.3	293.6	267.3	257.5	262.1	267.9	266.5	261.4	259.7
40°	1787.4	859.0	322.7	278.7	244.3	247.5	251.7	254.8	256.2	257.8	256.5
42.5°	1822.7	777.0	303.4	263.6	234.7	238.1	240.0	243.1	251.0	256.5	256.2
45°	1843.6	699.8	283.6	242.0	227.2	229.2	228.1	234.5	243.9	253.1	253.4
47.5°	1866.9	639.8	267.9	222.3	219.8	221.4	217.9	224.2	232.9	243.9	245.2
50°	1895.1	603.9	255.3	206.5	210.0	210.0	209.1	214.9	227.2	240.0	242.2
52.5°	1927.3	597.0	244.8	195.1	200.1	199.7	200.6	209.3	222.8	235.4	237.3
55°	1966.2	615.9	233.6	186.7	190.4	191.6	194.5	204.5	215.8	230.1	231.0
57.5°	2011.7	654.4	224.5	180.0	181.7	185.5	190.1	199.2	211.4	227.2	228.1
58°	2019.2	662.4	223.1	179.4	180.0	184.3	189.6	198.3	210.6	227.7	228.6
60°	2019.4	689.5	219.8	176.8	173.2	180.5	186.4	195.1	209.1	229.8	231.8
62.5°	1947.9	689.3	217.5	172.9	166.3	175.3	182.0	192.2	207.6	234.7	238.7
65°	1715.2	626.4	206.5	167.1	160.7	170.7	178.2	190.1	211.8	256.2	258.8
67.5°	1341.6	513.4	185.7	159.0	153.5	166.0	175.9	189.9	216.2	261.2	263.0
70°	886.9	384.0	163.2	149.6	145.9	160.5	177.0	199.7	211.1	250.7	246.1
72.5°	460.4	269.7	144.8	138.0	137.1	155.4	193.9	198.7	206.2	235.9	230.1
75°	241.7	187.3	128.7	125.2	126.6	154.4	228.9	193.4	199.7	225.7	236.8
77.5°	147.9	151.1	115.0	113.5	116.5	150.9	228.6	186.7	190.4	207.6	219.8
80°	99.0	122.6	104.6	104.8	106.8	138.0	205.3	176.1	179.0	196.2	208.8
82.5°	62.6	72.5	94.9	99.9	97.2	113.8	174.4	160.5	164.6	224.5	237.3
85°	31.8	45.5	82.4	96.1	87.6	79.8	141.5	140.6	142.7	161.9	169.3
87.5°	14.5	25.0	64.4	83.9	66.1	49.8	102.8	104.3	112.4	115.0	115.0
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)