

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: P193172

Luminaire Tested: **GAN-AF-04-LED-U-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15303.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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



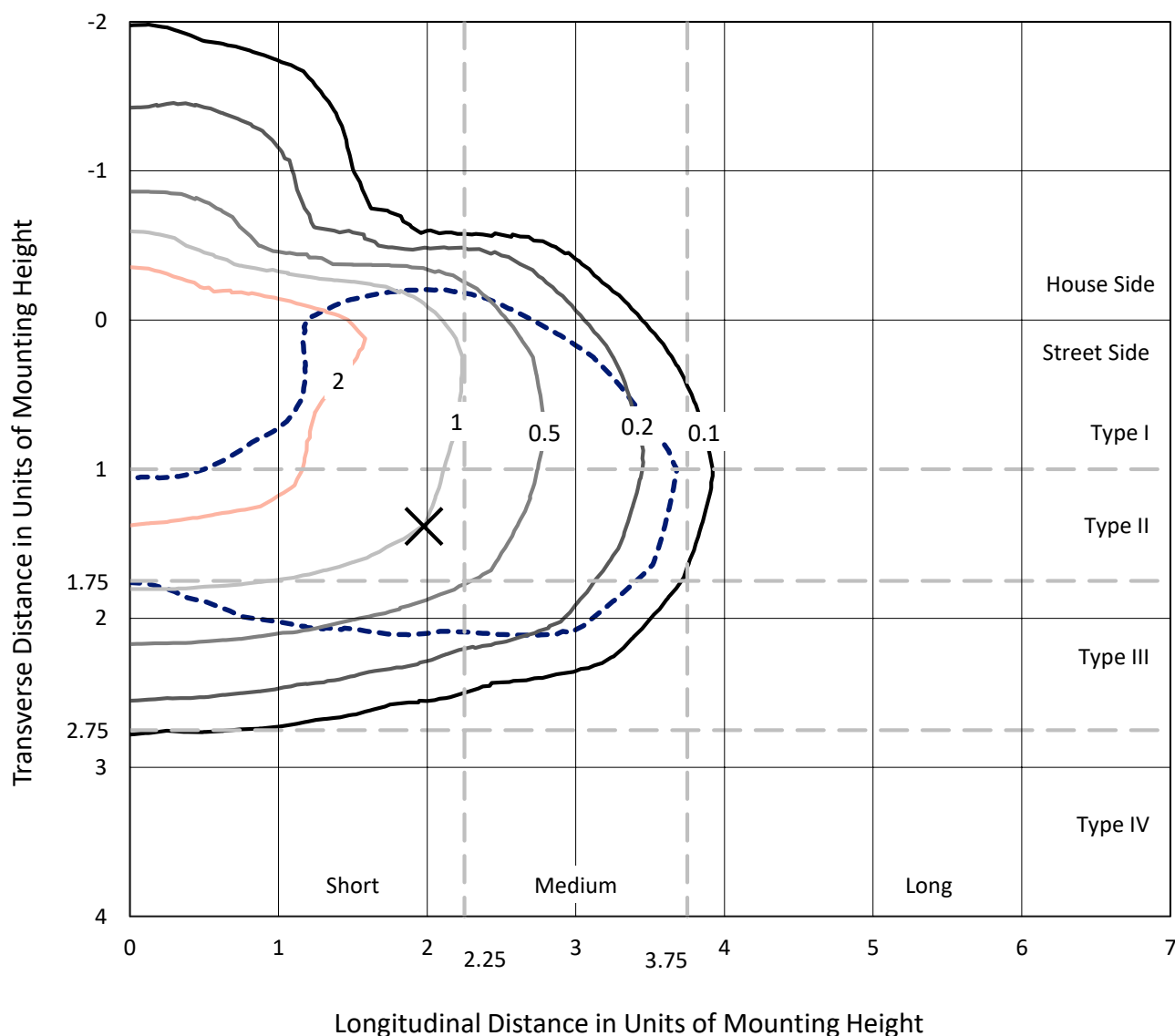
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

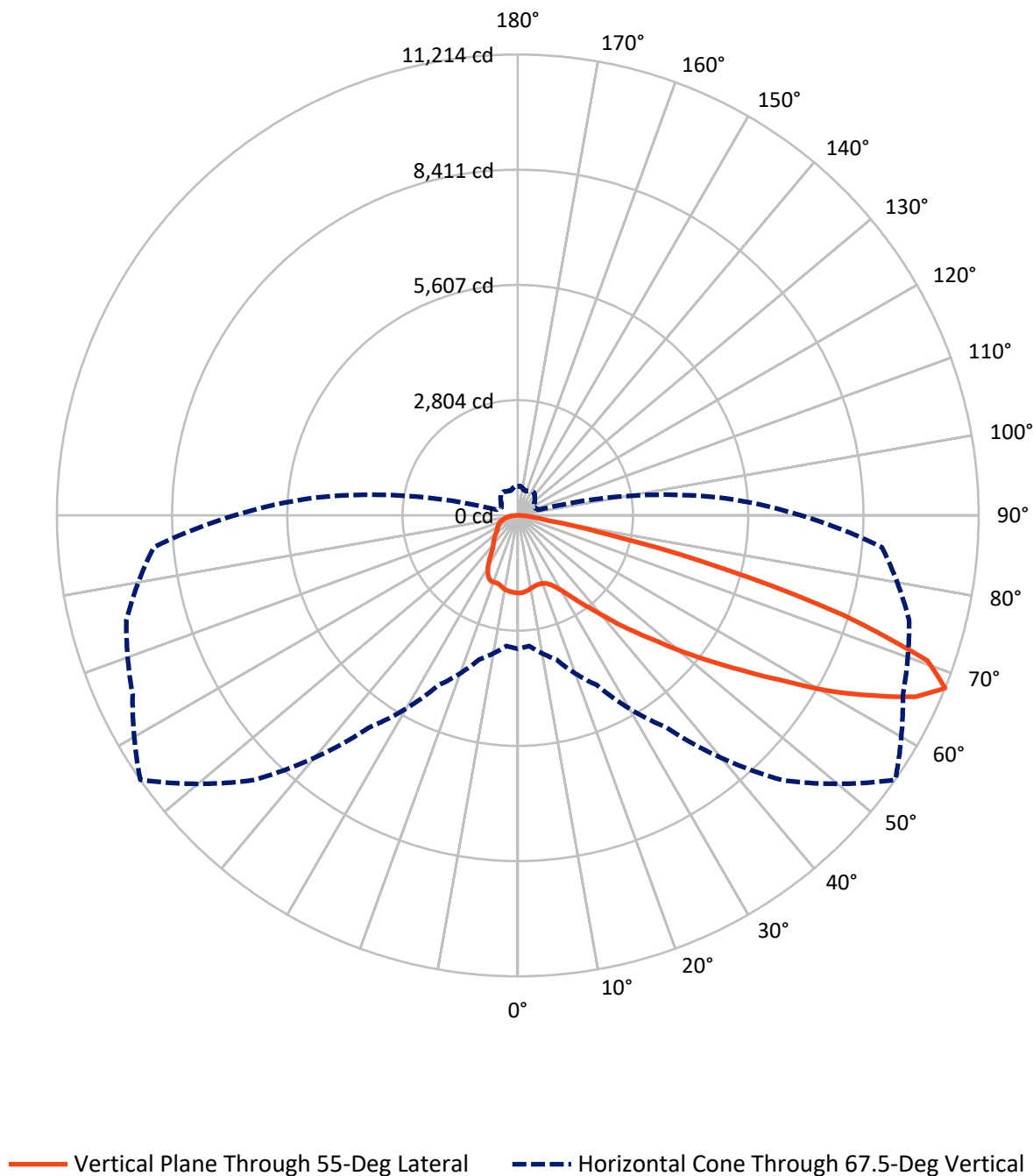


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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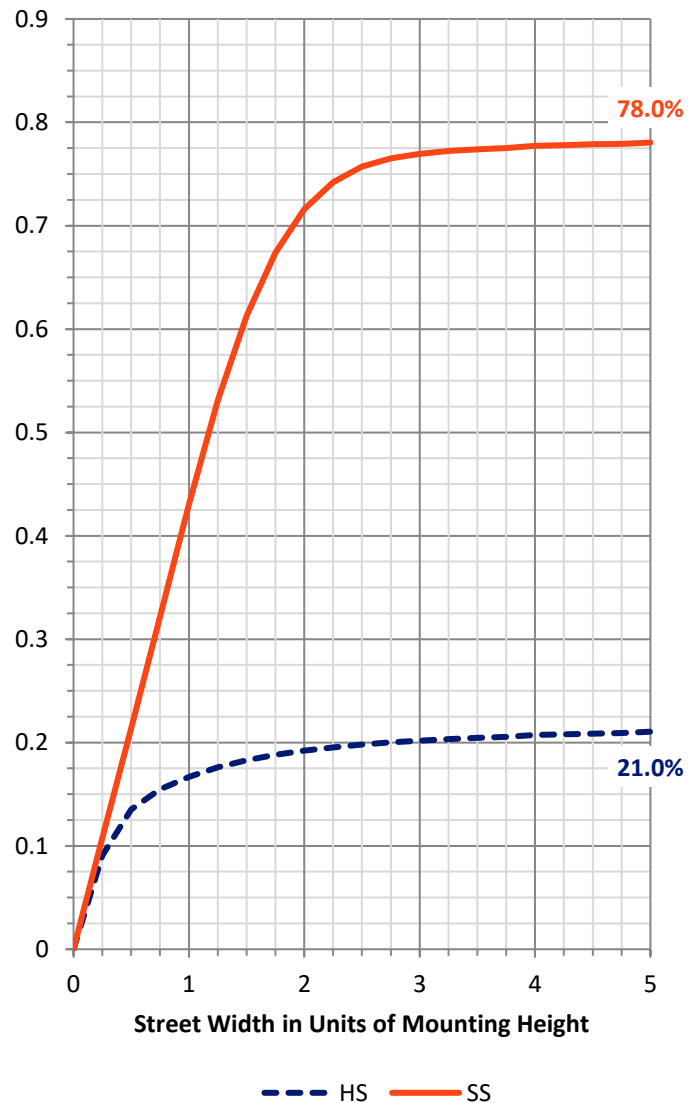
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3306.0	0.0	3306.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11998.0	0.0	11998.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	15303.9	0.0	15303.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.1	1.2
10°-20°	498.9	3.3
20°-30°	835.7	5.5
30°-40°	1374.2	9.0
40°-50°	2313.2	15.1
50°-60°	3640.8	23.8
60°-70°	4344.9	28.4
70°-80°	1865.8	12.2
80°-90°	254.4	1.7
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°	15303.9	100.0
0°-180°	15303.9	100.0

Coefficient of Utilization



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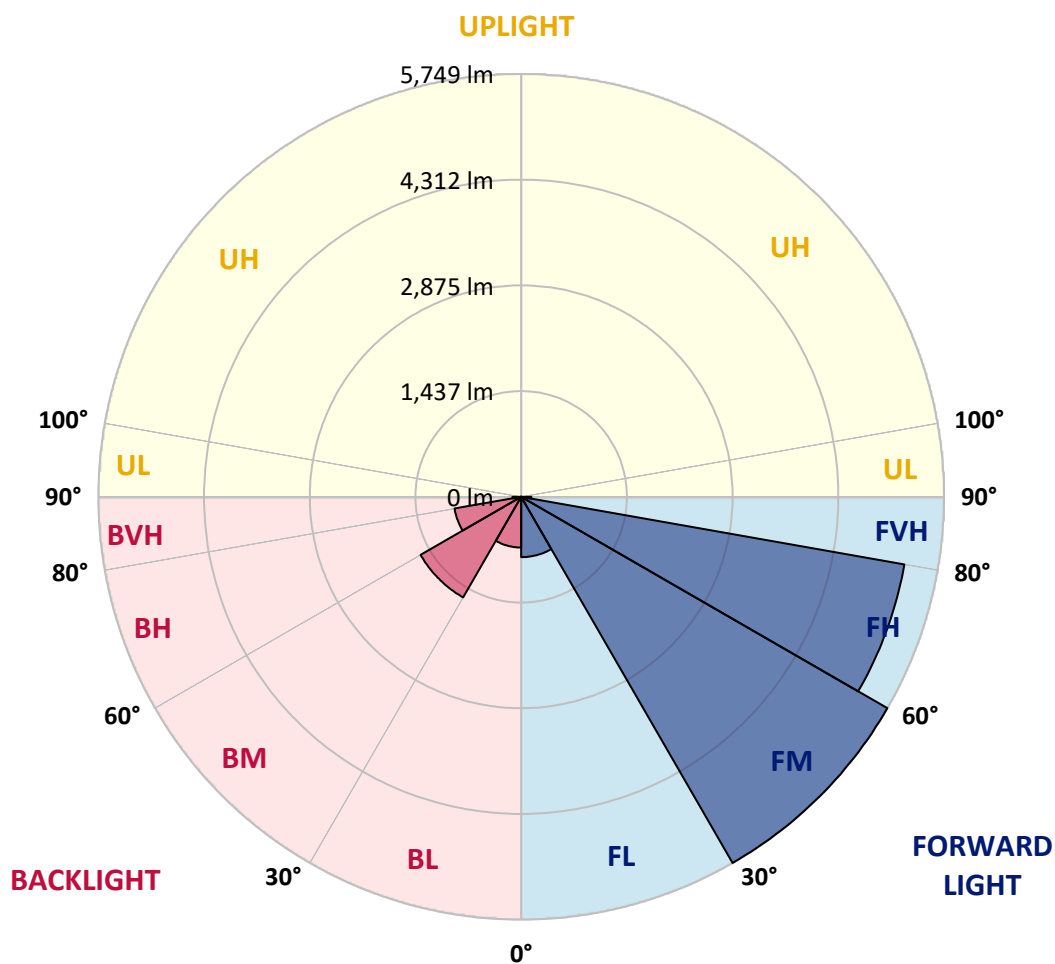
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.3	5.4			
FM	(30°-60°)	5749.3	37.6			
FH	(60°-80°)	5290.6	34.6			G3/7500
FVH	(80°-90°)	137.7	0.9			G2/225
BL	(0°-30°)	690.3	4.5	B2/1000		
BM	(30°-60°)	1578.9	10.3	B2/2500		
BH	(60°-80°)	920.0	6.0	B2/1000		G2/1000
BVH	(80°-90°)	116.7	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1
2.5°	1870.8	1871.6	1873.1	1879.0	1884.1	1882.7	1883.4	1880.5	1879.8	1875.3	1879.8
5°	1847.2	1849.4	1850.2	1859.8	1865.7	1867.1	1864.9	1861.2	1856.9	1852.4	1854.5
7.5°	1793.3	1799.2	1799.9	1813.2	1822.9	1835.4	1836.1	1836.8	1834.7	1831.7	1836.1
10°	1759.3	1760.7	1760.0	1769.6	1777.0	1791.1	1799.2	1813.2	1819.1	1820.6	1823.5
12.5°	1757.0	1755.6	1753.4	1753.4	1751.1	1757.0	1771.8	1791.8	1805.8	1810.3	1813.9
15°	1780.7	1780.0	1772.6	1761.5	1747.4	1743.0	1755.6	1777.7	1796.2	1805.8	1809.6
17.5°	1833.9	1829.4	1817.6	1792.5	1762.3	1750.5	1751.9	1770.3	1791.8	1804.3	1808.0
20°	1931.4	1931.4	1906.3	1859.0	1805.1	1777.0	1763.7	1774.8	1795.4	1812.5	1817.6
22.5°	2100.1	2101.5	2059.4	1981.8	1890.8	1830.9	1797.8	1795.4	1819.9	1839.1	1845.1
25°	2338.8	2332.9	2273.6	2162.9	2024.7	1925.5	1867.9	1854.5	1875.3	1896.7	1904.2
27.5°	2616.8	2595.2	2525.1	2391.2	2212.4	2067.5	1978.8	1957.4	1977.4	2001.7	2009.1
30°	2891.6	2869.4	2786.0	2639.6	2440.8	2257.6	2130.3	2095.6	2123.7	2158.4	2162.9
32.5°	3166.7	3166.7	3073.6	2902.8	2686.2	2484.4	2332.1	2290.7	2337.3	2379.4	2389.1
35°	3495.6	3497.1	3406.9	3201.4	2968.6	2755.0	2587.2	2556.8	2627.0	2656.6	2679.6
37.5°	3899.9	3908.1	3792.1	3543.8	3288.6	3063.9	2864.3	2822.9	2893.1	2973.7	3047.7
40°	4336.8	4347.2	4219.3	3913.2	3658.2	3423.2	3207.3	3132.7	3249.5	3403.2	3498.6
42.5°	4753.8	4807.0	4683.5	4368.6	4094.4	3851.2	3632.4	3523.7	3670.0	3902.2	3984.9
45°	5356.1	5394.5	5179.4	4894.2	4636.2	4364.2	4074.4	3959.8	4164.5	4457.3	4474.2
47.5°	5757.5	5728.7	5619.3	5441.8	5278.6	5024.3	4588.2	4462.4	4734.5	5078.9	4983.7
50°	5971.1	5980.0	5965.2	5975.6	5981.5	5821.9	5217.9	5045.7	5370.2	5786.4	5566.9
52.5°	6170.8	6111.6	6160.4	6402.8	6695.5	6636.4	5903.2	5723.5	6051.8	6571.4	6183.3
55°	6166.3	6076.1	6235.0	6663.0	7298.0	7366.0	6672.7	6465.6	6772.4	7413.4	6836.8
57.5°	5948.2	5952.7	6197.3	6757.6	7717.8	8052.0	7565.5	7255.2	7536.7	8266.3	7433.2
60°	5648.1	5688.8	6041.4	6742.2	8054.1	8614.4	8661.1	8106.0	8285.5	9041.8	7927.1
62.5°	5163.9	5206.9	5693.2	6581.0	8003.1	9156.3	9651.5	9071.2	9068.3	9511.9	8072.0
65°	4400.4	4387.9	4898.6	5978.5	7575.2	9556.9	10635.4	9905.9	9658.2	9519.2	7780.7
67.5°	3245.0	3188.8	3627.2	4553.4	6296.4	9108.3	11214.2	10340.6	9859.2	8893.1	6890.7
70°	1683.9	1627.6	1982.5	2658.9	4140.9	7108.7	10573.3	10115.8	9415.0	7454.6	5398.3
72.5°	720.0	710.4	854.5	1166.5	2003.2	4100.3	8290.7	8755.7	8078.5	5554.2	3711.4
75°	484.1	481.2	535.2	635.7	901.1	1663.9	5188.4	6215.1	5910.5	3443.9	2087.5
77.5°	379.9	376.3	408.1	456.8	584.0	656.4	2302.5	3336.7	3088.3	1499.0	913.6
80°	297.1	294.2	314.1	340.8	419.9	414.0	757.7	1327.6	1027.5	574.3	444.2
82.5°	234.4	234.4	250.5	251.3	297.8	282.3	395.5	584.6	513.0	334.9	272.0
85°	214.3	214.3	231.4	187.7	194.4	178.1	245.4	346.7	325.3	137.4	118.2
87.5°	107.9	105.0	194.4	166.3	105.7	94.6	119.7	167.8	180.4	76.2	59.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1	1887.1
2.5°	1878.2	1877.5	1879.0	1879.8	1885.7	1893.8	1897.5	1902.6	1905.6	1904.2
5°	1856.1	1857.6	1863.5	1867.9	1878.2	1891.6	1898.9	1904.9	1910.1	1907.8
7.5°	1837.6	1841.3	1850.2	1853.9	1859.8	1863.5	1862.8	1864.9	1869.4	1864.2
10°	1827.3	1831.7	1838.4	1833.2	1819.1	1799.2	1780.7	1771.1	1774.1	1770.3
12.5°	1816.9	1822.9	1817.6	1793.3	1754.0	1728.3	1714.2	1715.7	1722.3	1723.8
15°	1811.0	1813.2	1791.1	1745.2	1705.3	1701.6	1709.1	1707.5	1708.3	1708.3
17.5°	1811.0	1805.1	1763.7	1717.9	1700.8	1694.2	1671.3	1642.5	1629.9	1625.4
20°	1820.6	1805.1	1754.8	1724.5	1687.5	1630.7	1570.0	1516.8	1493.1	1486.5
22.5°	1849.4	1822.9	1780.0	1727.5	1622.5	1527.1	1431.1	1367.5	1324.7	1317.2
25°	1907.8	1878.2	1829.4	1688.3	1519.0	1383.0	1273.6	1202.6	1159.8	1153.9
27.5°	2009.9	1990.6	1856.1	1601.8	1381.6	1235.9	1134.6	1079.9	1048.2	1045.9
30°	2163.6	2153.9	1842.7	1473.9	1212.2	1093.2	1044.5	1012.8	989.1	988.2
32.5°	2409.0	2331.4	1799.2	1318.0	1057.7	992.0	972.1	952.8	934.3	934.3
35°	2724.6	2474.8	1716.4	1150.9	963.8	935.8	910.6	880.4	855.9	854.5
37.5°	3095.8	2563.5	1567.8	1016.3	919.5	898.1	861.2	816.0	773.2	765.8
40°	3470.5	2590.1	1358.6	933.6	891.4	860.4	815.3	762.1	720.7	718.5
42.5°	3814.2	2539.0	1136.9	876.7	863.3	821.9	774.6	727.3	694.9	694.2
45°	4102.4	2406.8	950.5	822.7	833.7	787.2	745.1	706.7	681.6	676.4
47.5°	4373.7	2219.8	819.8	765.8	804.2	768.0	732.6	696.3	672.0	668.2
50°	4688.7	2018.0	728.1	710.4	778.4	761.3	742.9	705.2	664.6	660.2
52.5°	5070.0	1843.5	656.4	661.6	758.4	770.3	769.5	730.3	659.4	653.5
55°	5495.8	1649.9	602.4	621.6	750.3	786.4	776.2	754.0	663.8	654.9
57.5°	5915.0	1423.6	564.8	591.3	738.5	785.0	744.4	712.6	674.1	661.6
60°	6229.1	1119.9	535.9	564.8	712.6	760.7	709.6	667.5	672.0	662.3
62.5°	6249.8	865.6	501.2	541.8	673.4	736.2	686.7	647.6	681.6	672.7
65°	5882.4	654.1	467.9	514.5	631.3	720.7	664.6	636.4	701.5	691.8
67.5°	4952.5	526.3	439.8	486.4	589.1	688.3	644.5	626.0	719.3	702.2
70°	3575.4	448.7	412.5	452.4	551.4	651.1	626.8	607.6	671.2	644.5
72.5°	2201.2	388.9	381.5	407.3	522.6	612.8	600.3	572.8	604.6	583.2
75°	1099.1	337.1	346.7	363.0	482.0	569.1	555.9	528.5	532.9	528.5
77.5°	526.3	288.3	306.0	318.6	429.5	519.6	505.7	477.5	472.3	473.1
80°	333.3	241.0	258.0	266.8	383.6	461.9	448.0	419.9	479.0	444.2
82.5°	208.4	195.9	200.3	216.6	334.2	402.1	383.6	358.5	431.7	341.6
85°	115.3	136.8	142.7	156.7	257.2	336.3	317.8	286.0	256.5	252.1
87.5°	68.8	81.3	83.5	93.9	172.9	243.2	215.1	204.0	169.3	168.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)