

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: P200200

Luminaire Tested: **GAP-AF-02-LED-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T3R
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12993.5 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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



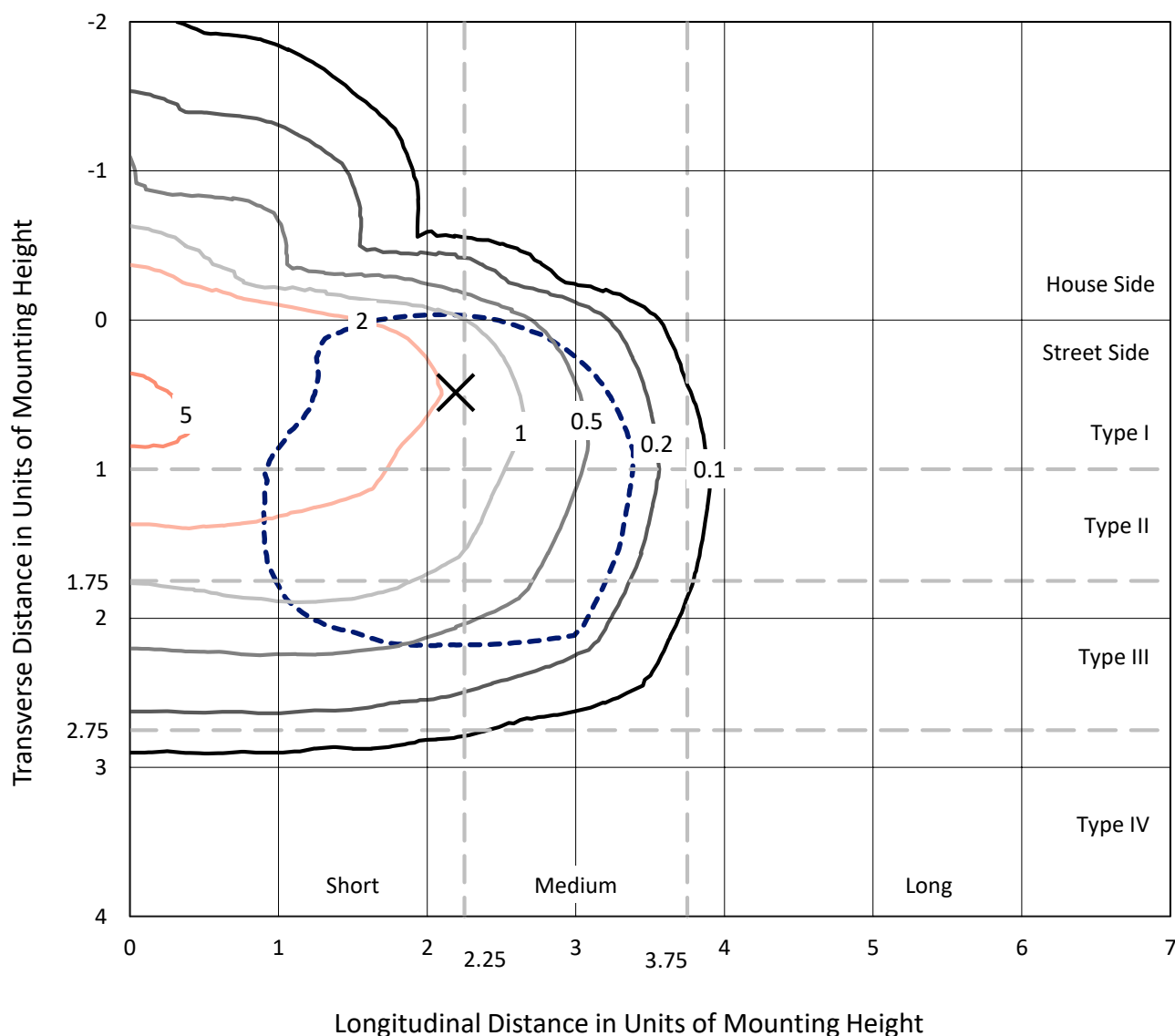
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

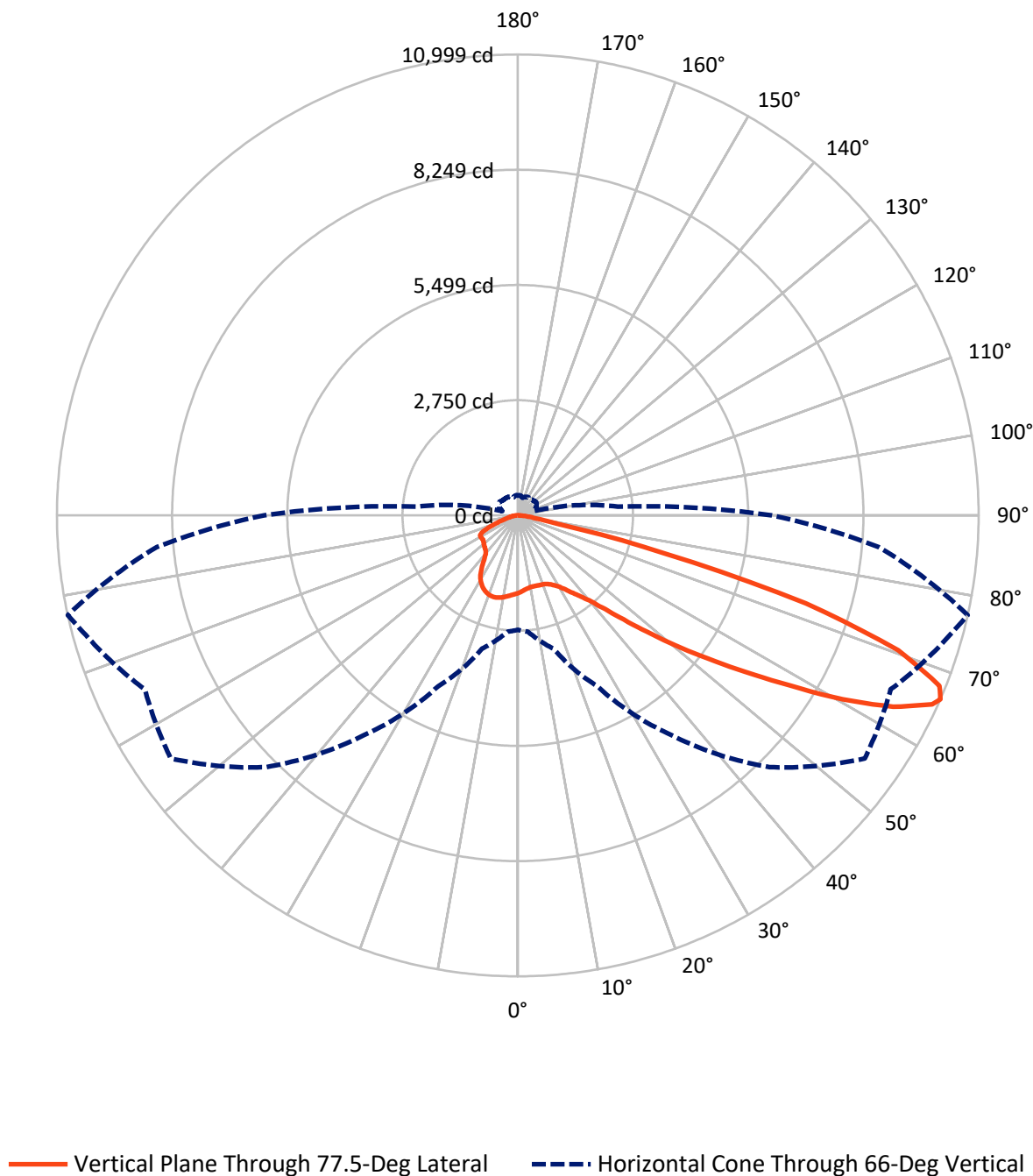


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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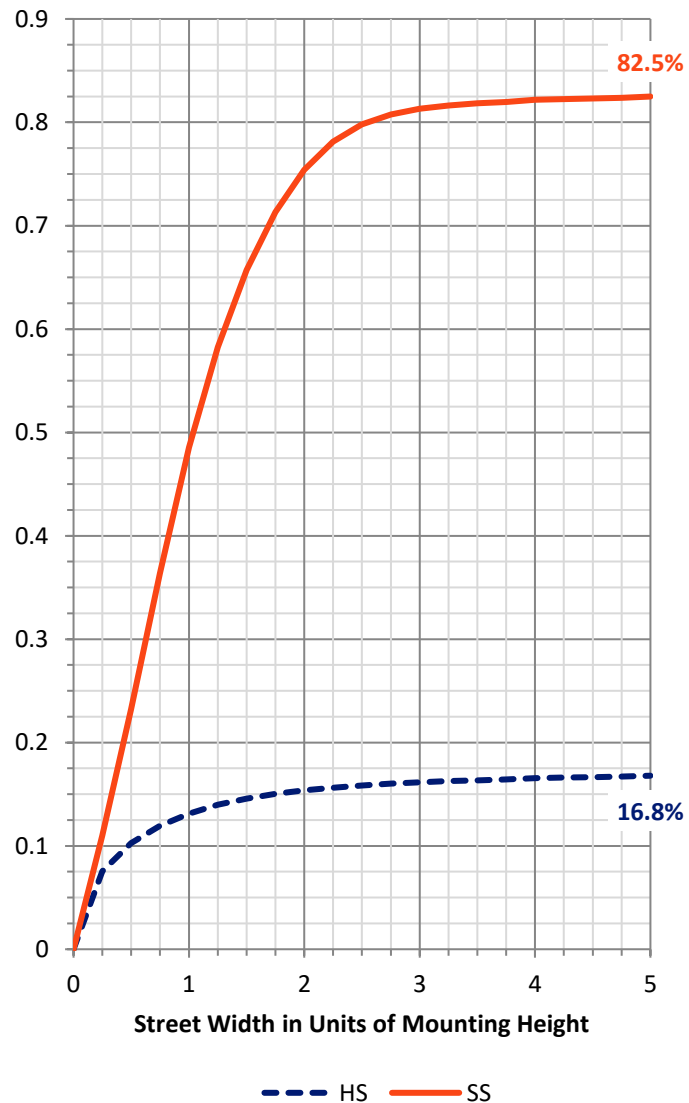
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2219.8	0.0	2219.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10773.6	0.0	10773.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	12993.5	0.0	12993.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	1.3
10°-20°	466.7	3.6
20°-30°	796.5	6.1
30°-40°	1275.1	9.8
40°-50°	1969.8	15.2
50°-60°	2793.9	21.5
60°-70°	3737.5	28.8
70°-80°	1623.1	12.5
80°-90°	165.5	1.3
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°	12993.5	100.0
0°-180°	12993.5	100.0

Coefficient of Utilization



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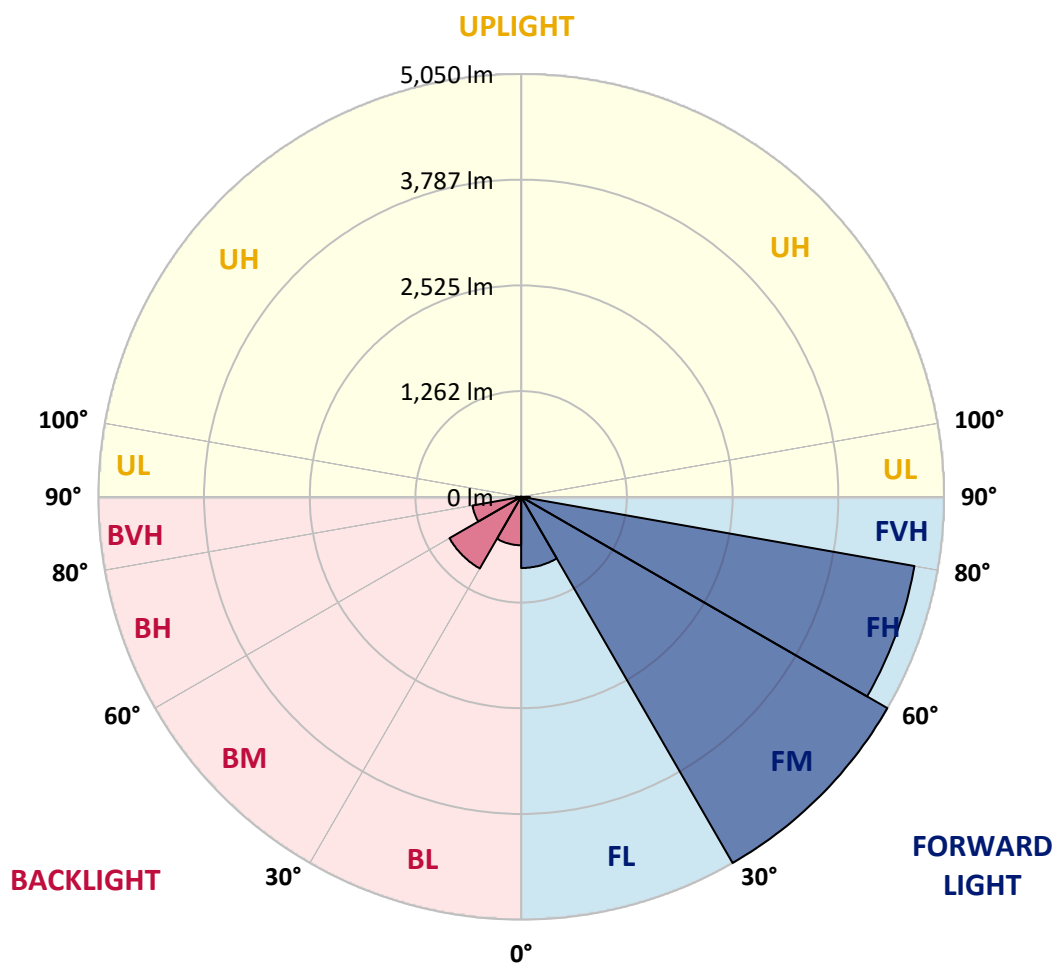
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.5	6.5			
FM	(30°-60°)	5050.0	38.9			
FH	(60°-80°)	4769.4	36.7			G2/5000
FVH	(80°-90°)	103.8	0.8			G2/225
BL	(0°-30°)	578.1	4.4	B2/1000		
BM	(30°-60°)	988.8	7.6	B1/1000		
BH	(60°-80°)	591.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	61.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6
2.5°	1637.9	1649.0	1658.2	1666.8	1684.1	1712.3	1744.8	1771.2	1809.3	1816.7	1836.9
5°	1487.6	1487.6	1494.9	1507.8	1531.2	1573.5	1617.7	1676.6	1759.6	1779.2	1833.2
7.5°	1414.5	1415.2	1419.4	1430.5	1450.7	1489.4	1537.9	1607.3	1719.7	1752.2	1844.3
10°	1441.5	1435.4	1426.2	1420.7	1423.7	1446.5	1492.5	1569.8	1695.1	1736.9	1868.8
12.5°	1592.5	1580.9	1549.0	1506.6	1466.1	1449.5	1476.5	1552.0	1684.7	1733.2	1901.4
15°	1839.4	1834.5	1774.9	1687.2	1588.8	1506.6	1488.2	1545.3	1685.9	1737.5	1940.0
17.5°	2148.8	2142.1	2063.5	1935.7	1775.5	1615.2	1529.3	1550.8	1690.2	1744.8	1977.5
20°	2461.3	2440.5	2355.7	2203.4	1997.7	1763.3	1597.4	1564.9	1695.7	1752.8	2016.7
22.5°	2694.6	2677.4	2601.3	2453.3	2216.3	1934.5	1689.0	1589.5	1713.5	1776.1	2065.3
25°	2899.7	2900.9	2825.4	2682.3	2437.4	2116.3	1806.8	1655.1	1759.0	1824.0	2131.6
27.5°	3153.1	3138.4	3067.8	2926.0	2655.9	2299.8	1949.2	1745.5	1826.5	1892.2	2218.8
30°	3456.4	3446.0	3364.4	3203.6	2898.4	2496.9	2112.0	1850.4	1913.6	1981.8	2332.9
32.5°	3813.2	3808.2	3723.5	3516.6	3178.4	2728.9	2302.9	1989.1	2043.8	2114.4	2496.9
35°	4231.8	4232.5	4132.4	3883.7	3484.7	2999.1	2519.6	2167.8	2202.2	2275.9	2692.1
37.5°	4489.7	4521.0	4483.6	4230.0	3831.6	3301.2	2800.7	2404.8	2382.7	2457.0	2901.5
40°	4545.0	4583.0	4701.6	4572.6	4219.6	3633.9	3050.0	2632.6	2604.9	2695.8	3170.9
42.5°	4467.6	4520.4	4770.9	4861.8	4631.5	4044.0	3385.3	2970.9	2935.9	3058.0	3506.2
45°	4421.6	4460.9	4750.7	5012.2	4988.8	4507.5	3811.9	3395.7	3382.8	3543.0	3892.9
47.5°	4341.8	4377.4	4656.1	5047.2	5198.8	4932.4	4324.6	3915.0	3940.3	4150.2	4329.5
50°	4384.8	4399.5	4550.5	4958.1	5259.6	5243.6	4897.4	4516.7	4602.7	4864.8	4823.7
52.5°	4378.6	4416.7	4538.2	4812.1	5267.6	5435.9	5461.6	5187.8	5368.9	5669.7	5371.9
55°	3539.9	3610.0	4394.0	4775.2	5295.8	5624.3	5963.8	5895.1	6232.7	6583.3	5990.8
57.5°	3380.3	3424.5	3859.2	4852.6	5445.7	5984.1	6522.4	6673.5	7238.3	7645.3	6744.7
60°	3349.0	3403.7	3853.7	4947.1	5749.5	6570.4	7350.7	7615.9	8462.0	8907.7	7618.9
62.5°	3251.4	3310.4	3817.4	4934.8	6181.2	7381.4	8411.0	8617.8	9622.3	10055.7	8350.1
65°	2942.0	2997.2	3522.1	4736.6	6472.1	8247.0	9665.9	9536.4	10538.2	10864.2	8714.8
66°	2730.2	2784.2	3289.5	4503.2	6404.6	8492.6	10110.3	9820.5	10743.3	10998.7	8643.6
67.5°	2342.8	2385.1	2837.7	3980.8	6045.4	8561.4	10484.2	10034.2	10764.8	10855.0	8236.6
70°	1480.2	1492.5	1844.3	2748.0	4576.3	7425.0	9915.2	9503.7	9877.0	9632.7	6904.9
72.5°	642.2	637.9	885.3	1398.0	2590.8	4982.1	8020.4	7841.8	7747.9	7190.4	4833.5
75°	357.3	362.2	459.8	649.0	1052.9	2447.2	5246.7	5020.7	4239.2	3617.4	2191.8
77.5°	286.7	293.5	381.3	460.4	472.7	853.3	2455.2	1997.7	1202.7	965.2	609.1
80°	226.6	238.9	332.8	358.5	318.6	351.8	793.2	634.2	475.8	436.5	315.6
82.5°	179.2	187.9	285.5	271.4	222.9	237.0	380.0	370.2	309.4	281.8	182.3
85°	128.9	144.8	234.6	204.5	146.1	159.6	252.4	241.9	177.4	144.8	80.4
87.5°	52.8	68.7	165.7	135.6	81.6	74.3	125.8	118.5	84.1	61.4	39.9
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°	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6	1851.6
2.5°	1849.8	1864.5	1883.6	1895.2	1901.4	1905.7	1912.4	1911.8	1913.6	1914.2	1916.7
5°	1862.1	1886.6	1914.2	1921.6	1921.6	1914.9	1908.1	1897.1	1892.8	1891.5	1892.8
7.5°	1894.0	1921.0	1944.9	1936.3	1917.9	1890.9	1855.9	1825.3	1808.7	1803.2	1801.9
10°	1934.5	1967.0	1976.9	1944.3	1890.3	1825.3	1755.9	1705.6	1676.6	1668.6	1666.2
12.5°	1983.6	2014.3	2000.8	1932.0	1832.0	1727.0	1631.2	1550.8	1490.6	1471.6	1470.4
15°	2037.6	2061.7	2014.3	1894.0	1744.8	1590.1	1419.4	1280.6	1205.8	1181.8	1180.0
17.5°	2088.0	2100.3	2006.3	1827.7	1616.5	1366.0	1139.5	1032.7	1006.9	1013.0	1014.3
20°	2131.0	2131.0	1979.3	1732.6	1414.5	1070.7	927.6	925.8	944.3	962.7	966.4
22.5°	2178.3	2150.0	1932.0	1598.1	1128.4	876.1	855.2	872.4	893.2	913.5	916.6
25°	2236.6	2165.4	1866.4	1394.3	887.1	795.7	803.6	817.7	828.2	841.1	842.9
27.5°	2301.6	2185.0	1779.8	1113.7	769.9	745.3	751.5	756.4	755.1	760.1	761.3
30°	2379.6	2207.7	1661.3	870.5	721.4	702.4	691.3	687.0	687.0	695.0	698.1
32.5°	2484.0	2241.5	1491.3	745.9	698.1	671.7	636.1	620.1	626.3	653.3	659.4
35°	2598.8	2277.7	1261.0	703.6	693.2	657.6	602.3	572.9	573.5	598.6	606.6
37.5°	2724.0	2323.7	1008.7	695.6	704.2	658.2	584.5	543.9	527.3	527.3	530.4
40°	2884.3	2371.0	816.5	701.1	727.5	665.5	575.3	521.2	474.5	475.8	478.2
42.5°	3093.0	2411.5	713.4	712.8	755.8	675.4	574.7	491.1	450.6	478.2	503.4
45°	3325.1	2431.9	668.0	723.2	778.5	681.5	564.9	486.2	453.7	535.9	583.9
47.5°	3592.2	2420.1	642.8	726.9	784.0	681.5	553.7	497.9	475.2	620.7	676.6
50°	3885.0	2386.3	618.3	719.5	782.1	680.3	564.3	509.5	483.1	635.5	674.1
52.5°	4229.4	2358.1	592.5	703.6	769.3	673.5	576.5	504.6	458.0	577.8	604.8
55°	4622.3	2366.1	563.6	680.9	749.0	660.6	572.2	485.0	431.6	508.9	525.5
57.5°	5124.6	2461.3	529.2	652.0	721.4	639.1	556.8	475.8	423.6	461.7	471.5
60°	5685.0	2627.0	486.2	623.2	687.0	604.8	545.1	480.1	427.3	458.0	462.9
62.5°	6096.4	2723.4	449.4	580.8	640.4	566.7	530.4	485.6	437.1	470.9	469.6
65°	6208.2	2565.0	403.3	518.7	577.1	526.7	512.0	491.7	441.4	481.3	475.8
66°	6051.6	2394.3	383.1	489.9	545.1	507.1	502.8	491.1	439.6	482.5	473.3
67.5°	5671.5	2044.4	348.1	447.5	494.2	477.6	488.0	485.6	434.7	481.3	468.4
70°	4625.4	1394.9	297.8	372.7	411.3	420.5	459.8	466.0	418.7	459.8	431.6
72.5°	3231.8	849.7	263.4	289.2	332.8	358.5	421.1	438.9	397.2	401.5	374.5
75°	1561.8	451.2	238.9	224.1	258.5	299.6	374.5	402.1	363.5	335.8	326.0
77.5°	486.8	275.7	202.6	180.4	202.6	241.9	313.1	352.4	323.6	281.2	277.5
80°	261.6	202.6	155.9	144.8	160.2	189.8	246.2	294.1	278.1	252.4	225.4
82.5°	172.5	131.3	115.4	112.3	122.1	144.8	182.9	243.8	243.8	216.1	157.1
85°	89.0	80.4	79.2	79.2	85.3	96.4	124.6	187.9	200.2	114.2	94.5
87.5°	44.2	46.0	43.0	44.8	47.9	47.3	59.5	94.5	112.9	69.4	57.7
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)