

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: P200152

Luminaire Tested: **GAP-AF-02-LED-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12073.8 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

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

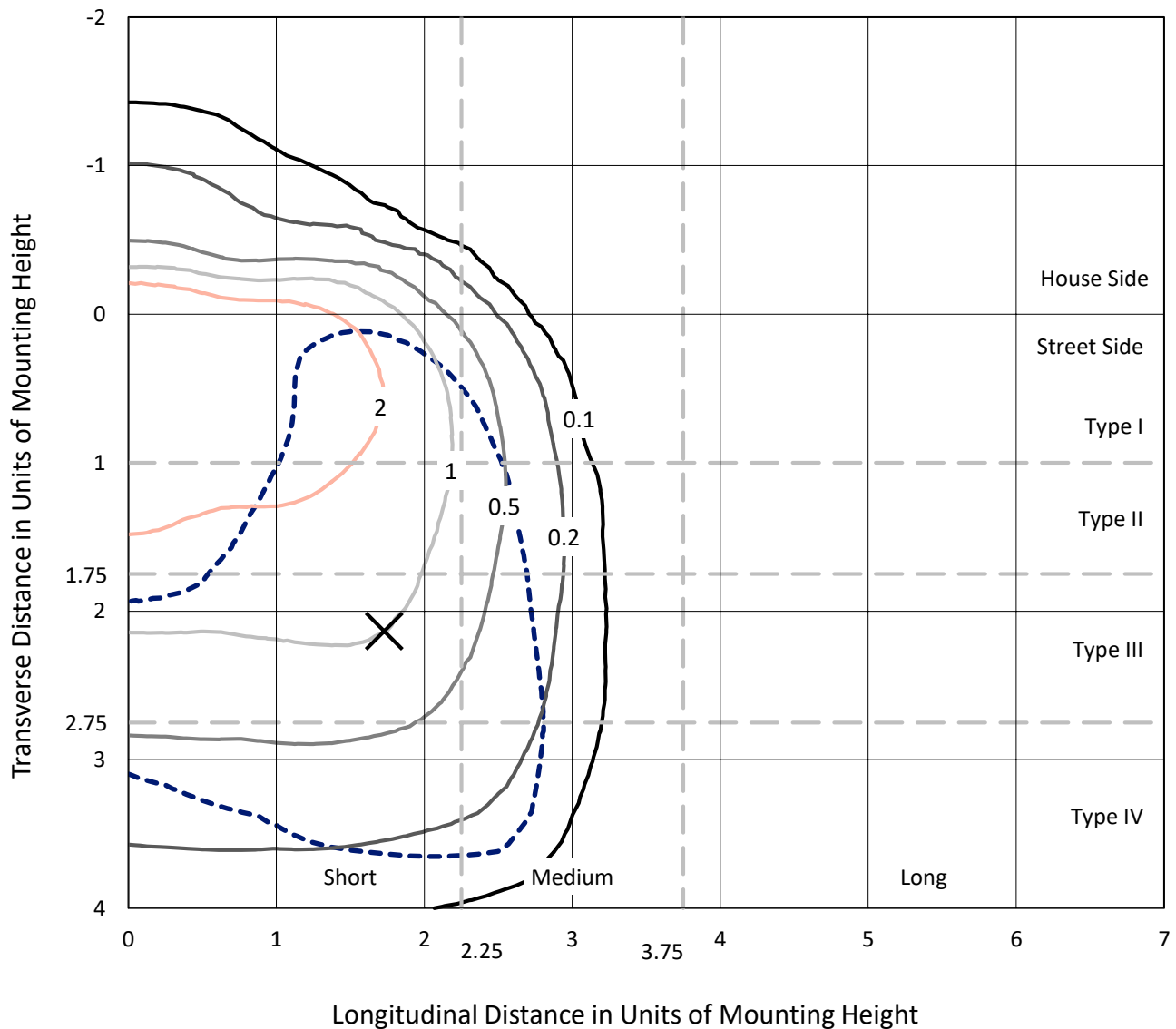


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

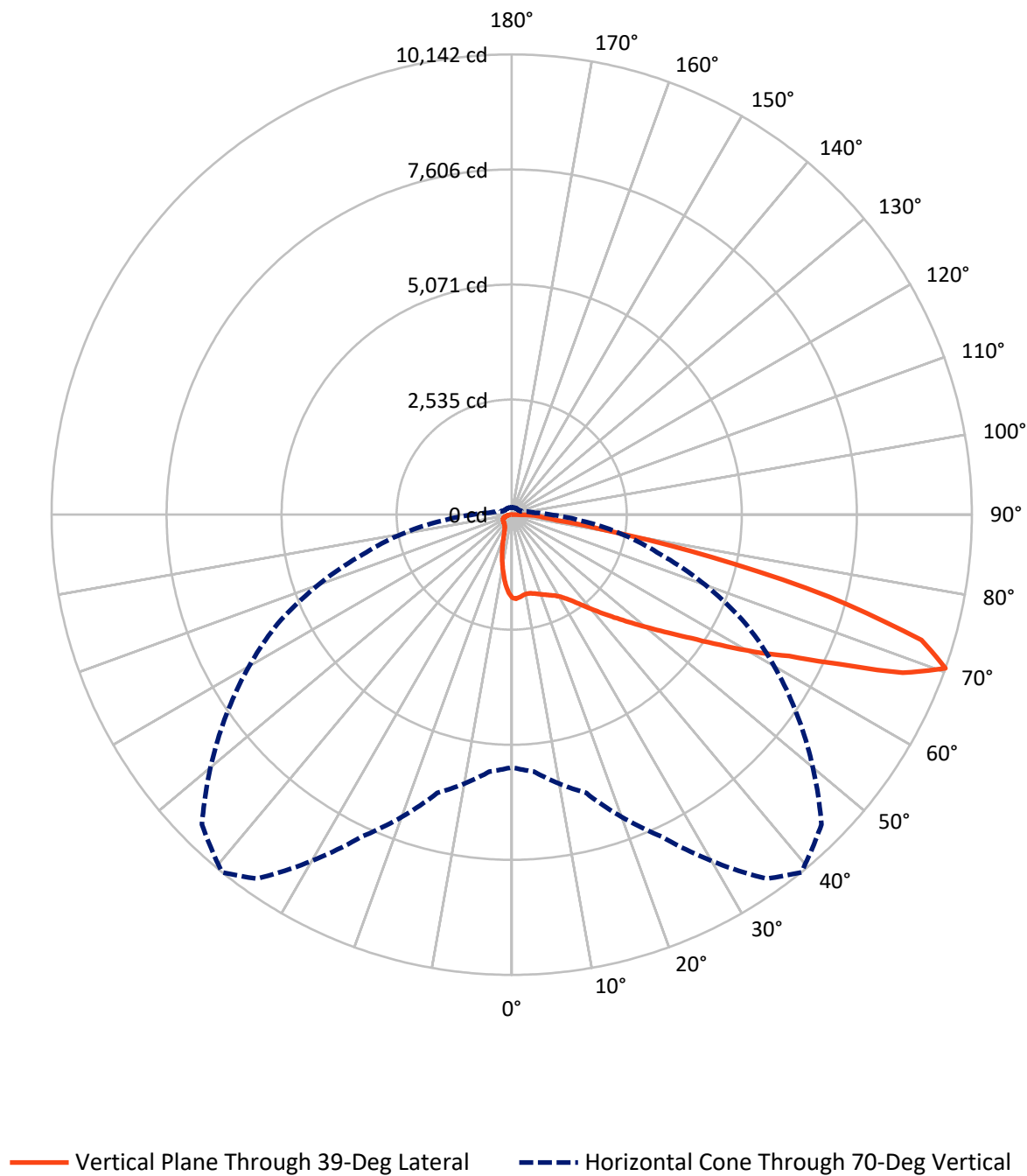


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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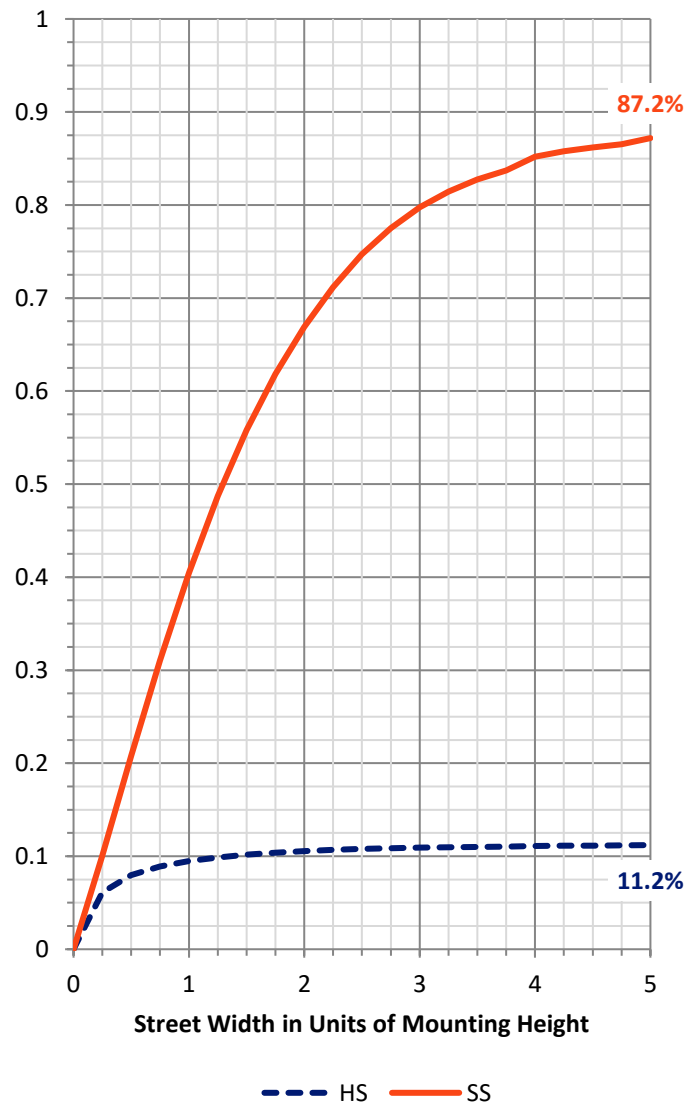
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1373.2	0.0	1373.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10700.7	0.0	10700.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	12073.8	0.0	12073.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	1.3
10°-20°	393.2	3.3
20°-30°	612.2	5.1
30°-40°	953.7	7.9
40°-50°	1601.2	13.3
50°-60°	2543.6	21.1
60°-70°	3392.9	28.1
70°-80°	2048.9	17.0
80°-90°	370.8	3.1
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°	12073.8	100.0
0°-180°	12073.8	100.0

Coefficient of Utilization



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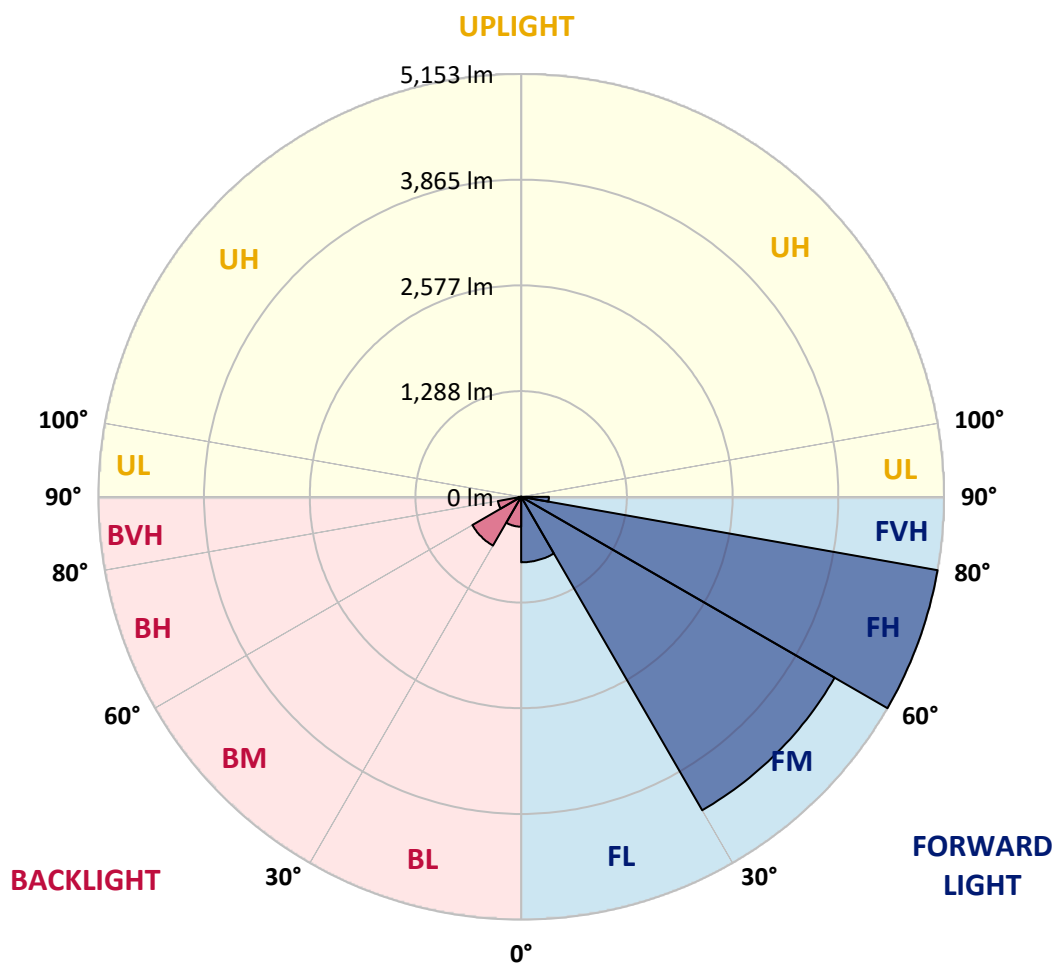
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.5	6.6			
FM	(30°-60°)	4411.3	36.5			
FH	(60°-80°)	5153.5	42.7			G3/7500
FVH	(80°-90°)	337.4	2.8			G3/500
BL	(0°-30°)	364.3	3.0	B1/500		
BM	(30°-60°)	687.2	5.7	B1/1000		
BH	(60°-80°)	288.3	2.4	B1/500		G1/500
BVH	(80°-90°)	33.4	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0
2.5°	1868.6	1868.0	1863.1	1859.4	1856.3	1855.1	1857.6	1848.4	1840.4	1830.6	1820.1
5°	1854.5	1853.9	1845.9	1838.5	1831.2	1828.7	1828.1	1811.5	1801.7	1787.0	1767.4
7.5°	1839.2	1836.1	1825.7	1813.4	1800.5	1794.4	1788.2	1766.7	1755.7	1741.0	1718.3
10°	1823.2	1819.5	1809.7	1797.4	1785.2	1775.9	1765.5	1744.6	1733.0	1721.9	1695.5
12.5°	1806.6	1803.6	1801.1	1795.6	1787.0	1779.0	1771.0	1753.2	1741.0	1728.1	1697.4
15°	1804.2	1803.0	1808.5	1812.2	1807.2	1802.3	1793.7	1778.4	1765.5	1752.6	1712.7
17.5°	1823.8	1823.2	1837.3	1847.1	1844.7	1836.1	1824.4	1807.2	1796.8	1785.8	1736.0
20°	1866.8	1869.9	1887.0	1899.9	1887.7	1875.4	1856.3	1832.4	1826.9	1822.0	1760.0
22.5°	1947.8	1950.9	1963.1	1968.1	1936.1	1918.3	1891.9	1861.3	1857.6	1861.3	1788.8
25°	2074.2	2071.2	2069.3	2050.9	1992.6	1965.0	1931.2	1899.3	1901.2	1917.7	1829.3
27.5°	2241.8	2225.2	2199.4	2144.2	2051.5	2020.8	1979.7	1950.3	1961.9	1993.8	1890.1
30°	2415.6	2397.2	2337.6	2247.3	2128.9	2095.1	2049.1	2015.9	2046.6	2096.9	1971.1
32.5°	2576.4	2573.9	2486.8	2370.8	2235.7	2206.2	2160.2	2122.7	2172.4	2249.2	2092.7
35°	2751.9	2757.5	2653.1	2513.8	2380.0	2349.3	2316.2	2287.8	2354.2	2459.8	2268.8
37.5°	2939.8	2950.8	2827.4	2670.3	2544.5	2531.6	2512.0	2499.7	2602.2	2748.3	2515.0
40°	3190.9	3179.8	3008.6	2847.1	2746.4	2745.8	2739.7	2754.4	2925.0	3125.2	2831.1
42.5°	3459.7	3427.2	3200.7	3036.8	2968.1	2989.0	3001.2	3061.4	3313.6	3583.1	3216.7
45°	3749.5	3676.5	3400.2	3237.5	3214.2	3258.4	3300.1	3430.9	3771.0	4104.3	3639.0
47.5°	3980.9	3910.3	3606.4	3448.1	3499.0	3565.9	3646.4	3853.3	4283.0	4642.7	4055.8
50°	4163.2	4117.2	3814.6	3693.7	3812.7	3915.9	4047.2	4331.5	4815.7	5166.9	4442.0
52.5°	4340.1	4305.7	4024.5	3945.3	4181.0	4323.5	4502.1	4844.6	5362.1	5682.6	4766.6
55°	4499.7	4475.1	4250.4	4259.0	4614.4	4799.8	5024.5	5429.0	5957.6	6142.3	5041.7
57.5°	4679.5	4648.2	4508.2	4652.5	5171.2	5411.8	5704.1	6085.8	6516.2	6551.2	5251.0
60°	4860.6	4833.5	4794.3	5106.8	5878.4	6131.3	6408.2	6722.4	7082.8	6868.5	5238.7
62.5°	5017.8	5020.8	5090.2	5583.7	6570.8	6863.6	7201.3	7511.8	7595.4	6923.8	4851.3
65°	5284.2	5332.6	5539.5	6259.0	7545.6	7937.3	8351.7	8302.0	7737.2	6407.6	4020.8
67.5°	5601.0	5686.3	6105.5	7158.9	8777.6	9297.6	9457.8	8480.6	7169.4	5208.7	2866.1
70°	5568.9	5686.3	6349.9	7829.9	9793.0	10141.6	9655.5	7675.2	5693.0	3402.6	1522.4
72.5°	4945.4	5112.9	5852.0	7522.3	9473.1	9442.4	8382.4	5721.9	3382.4	1366.5	594.8
75°	3769.2	3938.6	4574.5	5942.8	7487.3	7229.5	5947.7	3160.8	1283.6	542.7	375.1
77.5°	2168.1	2299.5	2790.6	3644.6	4750.1	4485.5	3310.6	1405.7	624.9	378.2	292.8
80°	1210.6	1283.6	1581.9	1849.0	2327.8	2133.8	1481.2	873.5	466.6	274.4	225.9
82.5°	957.0	1022.1	1279.3	1166.4	1063.3	980.9	850.8	777.7	372.7	173.1	135.0
85°	836.1	898.0	1082.9	918.3	726.2	666.0	691.2	765.5	289.7	104.3	115.4
87.5°	774.7	857.5	964.9	707.8	565.4	500.9	637.8	839.1	93.3	65.1	46.6
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°	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0	1833.0
2.5°	1810.9	1801.1	1785.2	1771.0	1748.9	1737.3	1724.4	1715.2	1707.8	1701.7	1711.5
5°	1755.1	1736.7	1702.9	1666.7	1623.6	1589.9	1561.6	1535.2	1516.8	1504.6	1513.1
7.5°	1702.3	1672.2	1619.3	1553.7	1480.0	1417.4	1365.8	1320.4	1289.1	1268.9	1276.8
10°	1672.2	1634.7	1553.0	1449.9	1341.3	1243.7	1162.7	1092.7	1044.2	1016.6	1020.9
12.5°	1664.9	1616.3	1503.3	1361.5	1213.0	1077.4	963.1	866.1	798.0	762.4	763.6
15°	1670.4	1608.3	1456.7	1276.8	1089.0	917.7	775.3	657.5	578.3	537.8	537.2
17.5°	1679.6	1602.1	1407.6	1185.4	963.1	764.2	605.3	489.9	419.9	387.4	384.9
20°	1689.4	1592.3	1352.3	1086.6	832.4	621.9	473.9	383.7	339.5	321.6	320.4
22.5°	1703.5	1583.7	1295.3	982.1	704.1	506.5	389.8	329.0	305.7	296.5	295.2
25°	1726.2	1579.4	1234.5	873.5	588.7	423.6	339.5	302.0	288.5	282.3	281.7
27.5°	1764.3	1585.6	1177.4	767.9	494.8	367.8	311.2	288.5	278.7	273.1	272.5
30°	1813.4	1604.6	1117.3	667.9	421.8	329.7	294.0	279.3	271.3	265.8	265.8
32.5°	1895.0	1636.5	1054.0	581.3	369.6	303.2	281.1	271.3	264.5	260.2	259.6
35°	2015.3	1696.8	995.1	509.5	332.2	284.2	270.1	262.7	257.8	255.3	255.3
37.5°	2190.2	1791.9	942.9	458.0	309.3	271.3	259.6	254.1	251.0	251.0	251.0
40°	2425.4	1923.2	900.5	423.6	296.5	262.1	251.6	247.3	245.5	246.1	246.1
42.5°	2715.7	2093.9	872.3	399.7	290.3	256.6	246.1	242.4	240.6	240.0	240.6
45°	3046.7	2287.8	869.2	381.9	284.2	252.9	242.4	238.8	235.1	232.6	232.6
47.5°	3368.3	2485.0	894.4	375.7	277.4	248.6	239.4	235.7	230.2	224.6	224.6
50°	3652.5	2652.5	928.1	378.2	275.0	242.4	234.5	232.6	224.0	217.9	217.3
52.5°	3878.4	2781.4	955.7	385.6	277.4	238.1	228.3	228.9	219.7	213.0	212.4
55°	4059.5	2866.1	948.4	392.9	282.9	235.7	222.8	224.0	216.7	209.9	209.9
57.5°	4138.7	2834.8	866.7	386.8	287.2	236.3	218.5	223.4	217.3	211.1	211.1
60°	3968.6	2556.8	713.9	359.8	281.7	234.5	216.7	225.9	225.3	219.1	218.5
62.5°	3454.2	2058.9	553.7	319.8	262.7	225.3	211.8	225.3	232.0	230.2	229.6
65°	2662.3	1466.5	423.0	276.8	236.9	209.9	198.9	211.1	220.3	222.8	222.2
67.5°	1728.1	898.7	325.9	236.3	208.1	192.1	182.3	187.8	189.7	189.7	188.4
70°	849.6	483.8	259.6	198.9	178.6	173.1	167.6	164.5	161.4	159.0	159.0
72.5°	419.3	316.1	213.6	168.2	154.1	151.6	150.4	146.7	144.2	141.2	139.9
75°	310.0	257.2	181.7	141.8	132.6	130.1	132.6	129.5	128.9	126.4	125.2
77.5°	254.7	219.1	156.5	121.5	113.5	109.3	112.9	113.5	114.2	110.5	109.3
80°	206.8	185.4	130.7	100.7	93.3	90.2	92.7	97.6	98.8	93.3	90.8
82.5°	149.1	151.6	105.6	78.6	72.4	70.0	74.9	81.0	82.2	74.3	72.4
85°	125.2	126.4	81.0	55.9	49.7	46.0	54.0	60.1	64.4	56.5	54.6
87.5°	52.2	74.3	46.6	31.3	27.6	23.9	28.8	31.9	38.7	35.6	35.0
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)