

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: P200050

Luminaire Tested: **GAP-AF-02-LED-U-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13258.6 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

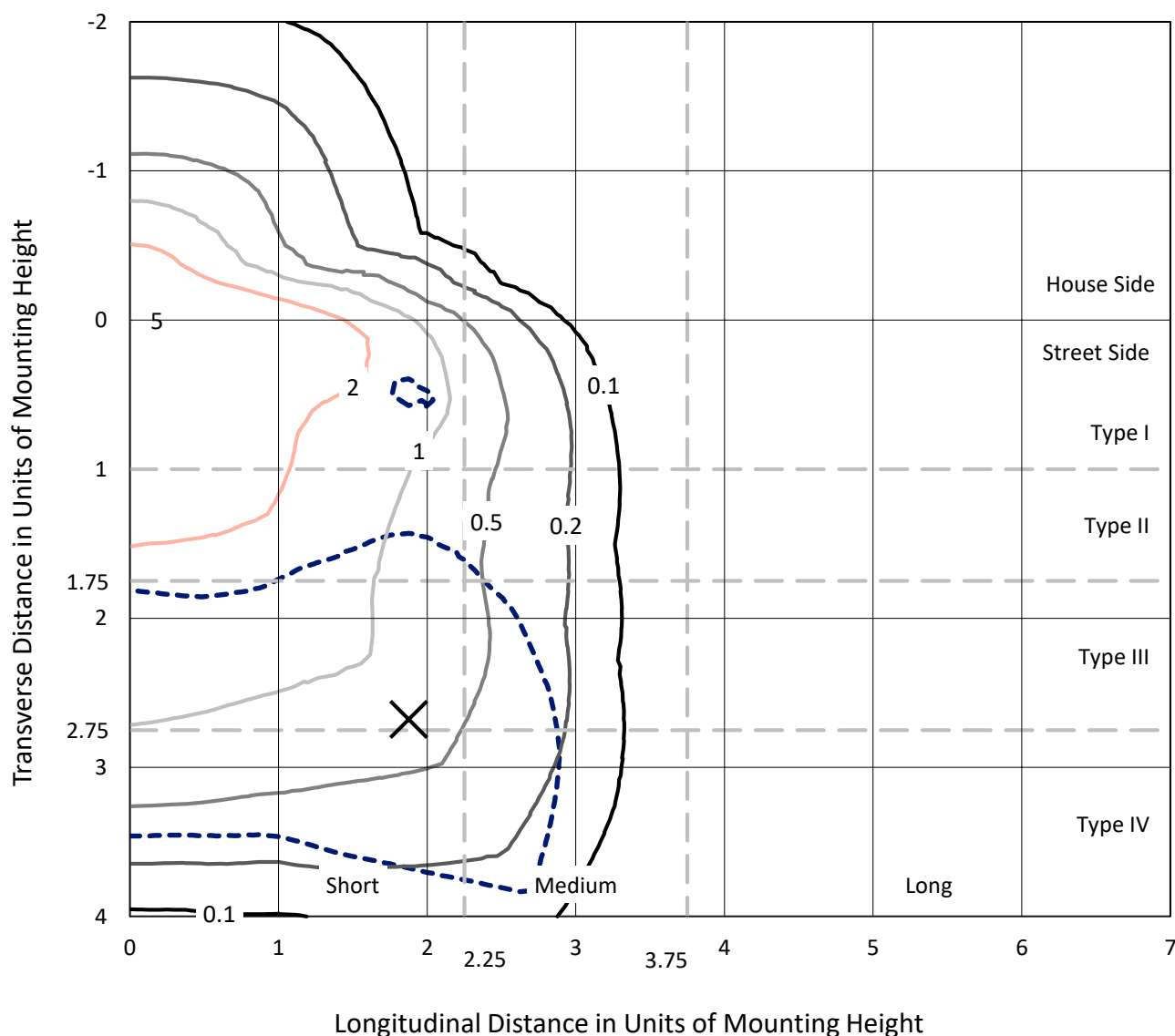


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

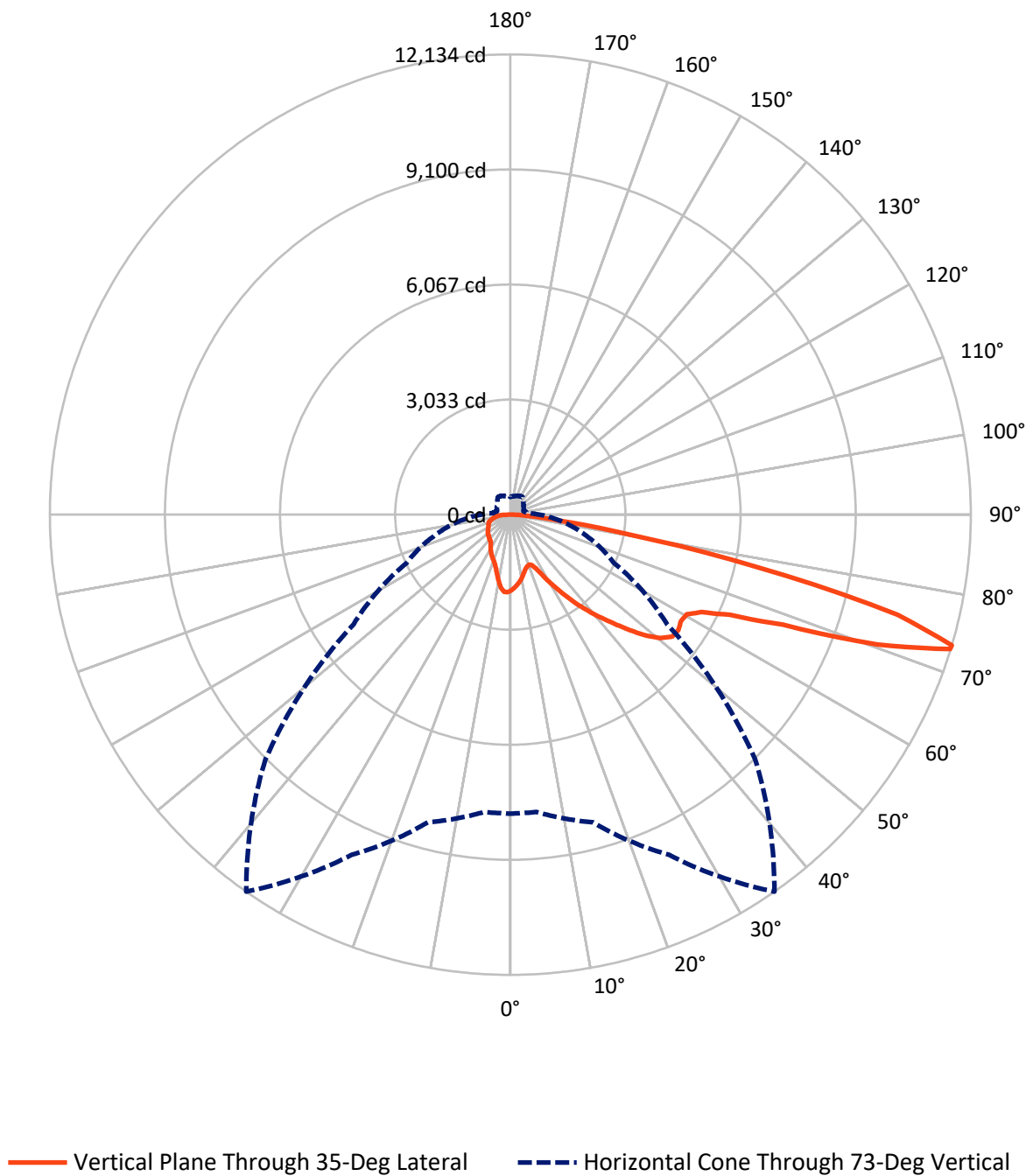


Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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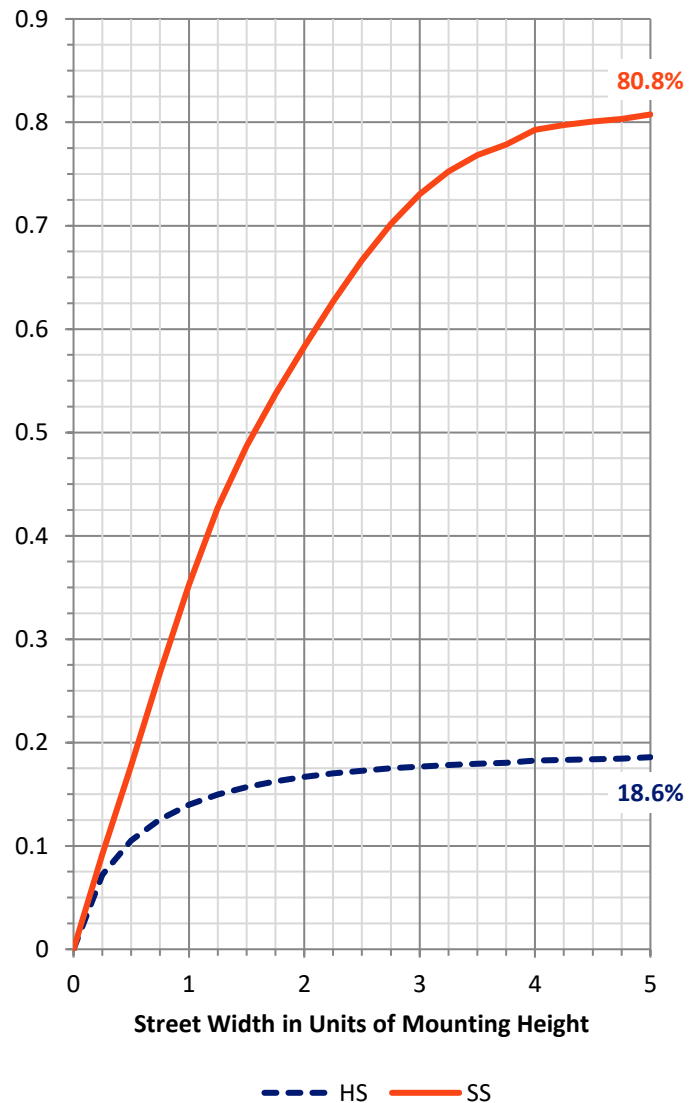
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2528.8	0.0	2528.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10729.8	0.0	10729.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	13258.6	0.0	13258.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	1.4
10°-20°	452.1	3.4
20°-30°	731.0	5.5
30°-40°	1225.7	9.2
40°-50°	1889.4	14.3
50°-60°	2534.8	19.1
60°-70°	3376.9	25.5
70°-80°	2575.6	19.4
80°-90°	291.9	2.2
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°	13258.6	100.0
0°-180°	13258.6	100.0

Coefficient of Utilization



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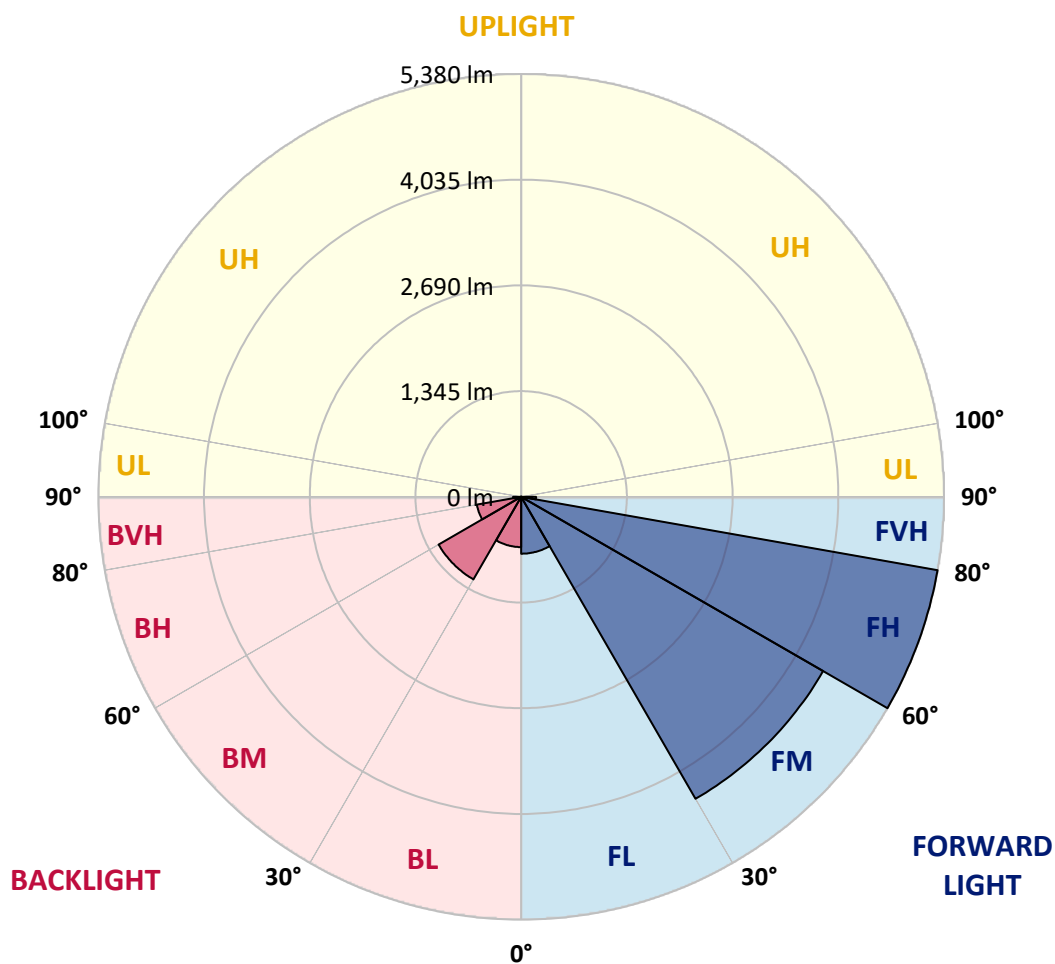
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	724.4	5.5			
FM	(30°-60°)	4436.4	33.5			
FH	(60°-80°)	5380.3	40.6			G3/7500
FVH	(80°-90°)	188.7	1.4			G2/225
BL	(0°-30°)	639.9	4.8	B2/1000		
BM	(30°-60°)	1213.5	9.2	B2/2500		
BH	(60°-80°)	572.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	103.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1
2.5°	1922.2	1926.0	1921.6	1927.4	1936.8	1947.0	1954.0	1964.2	1975.6	1991.6	1995.4
5°	1831.7	1837.5	1837.5	1847.7	1866.1	1882.7	1898.0	1914.5	1938.7	1966.1	1976.9
7.5°	1732.5	1735.6	1741.4	1756.7	1783.4	1806.9	1828.6	1855.3	1888.4	1924.7	1943.8
10°	1612.7	1617.2	1626.1	1647.7	1684.0	1716.6	1747.7	1784.6	1826.7	1871.9	1896.0
12.5°	1528.1	1526.8	1530.6	1546.6	1578.4	1617.8	1663.0	1710.1	1761.7	1814.6	1843.9
15°	1499.5	1492.4	1477.7	1473.9	1491.2	1530.6	1582.8	1640.7	1702.5	1766.1	1802.4
17.5°	1517.3	1505.1	1465.0	1435.7	1433.2	1463.1	1518.4	1583.5	1654.7	1732.5	1777.6
20°	1629.3	1600.6	1502.0	1433.8	1410.3	1425.0	1473.4	1542.0	1626.1	1729.2	1787.2
22.5°	1897.4	1855.3	1645.9	1519.1	1439.6	1421.8	1458.1	1531.3	1629.3	1768.7	1842.5
25°	2287.7	2227.8	1892.9	1731.8	1567.6	1472.7	1481.0	1556.1	1674.5	1860.4	1949.5
27.5°	2595.8	2557.0	2215.7	2031.6	1800.6	1610.2	1555.5	1618.4	1766.8	2010.7	2101.7
30°	2779.2	2755.6	2560.8	2371.7	2097.9	1829.2	1698.1	1735.6	1911.4	2218.8	2294.0
32.5°	2991.8	2977.9	2882.4	2708.5	2418.8	2117.0	1924.0	1910.7	2104.9	2469.2	2503.4
35°	3212.1	3207.7	3151.7	3026.8	2763.2	2496.5	2224.0	2133.7	2315.6	2728.9	2707.2
37.5°	3417.2	3409.6	3376.9	3304.4	3123.6	2904.0	2529.6	2362.1	2543.0	2977.2	2881.0
40°	3794.7	3734.8	3623.5	3568.7	3487.8	3247.1	2772.1	2575.5	2778.6	3214.1	3031.3
42.5°	4255.0	4157.7	3950.0	3874.9	3863.5	3517.7	2937.8	2782.4	3016.0	3449.0	3179.0
45°	4617.3	4525.6	4346.8	4251.9	4293.9	3762.9	3103.9	3003.3	3260.6	3695.3	3331.2
47.5°	5003.7	4859.9	4623.1	4651.7	4743.4	3994.6	3273.3	3240.7	3528.5	3971.0	3520.4
50°	5017.8	4907.7	4803.9	4975.1	5117.8	4207.9	3485.3	3489.7	3856.5	4318.0	3771.7
52.5°	4726.9	4703.3	4868.1	5137.5	5343.1	4376.6	3726.7	3746.9	4276.1	4716.6	4048.2
55°	4625.0	4598.1	4788.7	5080.9	5373.7	4516.1	3988.3	4025.2	4783.5	5136.9	4317.5
57.5°	4873.3	4814.1	4826.7	5054.2	5299.2	4668.8	4273.4	4348.0	5334.9	5504.3	4490.7
60°	5567.3	5440.6	5199.8	5194.1	5339.3	4898.1	4603.3	4694.4	5907.8	5680.0	4423.2
62.5°	6540.8	6414.1	5963.3	5669.8	5648.1	5276.3	5008.2	5032.5	6239.0	5441.8	4011.2
65°	7594.5	7481.2	6977.6	6563.1	6363.2	5902.8	5478.8	5183.4	6130.7	4786.6	3290.5
67.5°	8873.6	8752.0	8319.1	7936.4	7744.2	6913.9	5809.2	5038.8	5443.8	3708.2	2365.4
70°	9768.3	9644.0	9473.5	9783.5	10254.0	8372.5	5851.9	4451.1	4066.0	2464.7	1423.6
72.5°	8601.1	8543.2	8854.6	10160.3	12120.1	9257.5	5289.7	3240.7	2361.5	1308.4	824.0
73°	7880.5	7867.6	8398.6	9896.1	12133.6	9121.3	5043.3	3012.2	2025.3	1157.5	753.3
75°	3558.5	3661.0	4824.9	7558.9	10541.8	7516.2	3549.7	1728.1	1144.2	799.7	568.5
77.5°	855.1	890.8	1509.6	3589.7	6657.2	4479.2	1608.3	854.4	731.6	564.8	415.0
80°	364.2	376.3	581.3	1326.2	3134.4	1803.8	741.1	572.4	506.2	394.1	290.9
82.5°	202.4	215.2	329.9	601.7	1265.1	615.0	452.0	398.6	333.0	237.5	189.1
85°	114.6	121.6	193.0	336.2	536.1	247.0	270.6	264.9	187.8	122.3	93.0
87.5°	54.1	58.6	93.0	156.0	210.1	96.8	137.5	151.6	117.8	74.6	48.4
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°	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1	2001.1
2.5°	1999.9	2011.4	2024.7	2031.6	2038.0	2045.7	2053.3	2053.3	2054.6	2055.2
5°	1985.9	2009.4	2030.5	2039.4	2041.3	2041.3	2039.4	2029.2	2020.2	2024.0
7.5°	1956.7	1990.9	2008.7	2005.6	1981.4	1953.3	1929.8	1901.2	1886.6	1883.9
10°	1914.5	1954.0	1957.2	1925.3	1865.5	1805.6	1756.1	1707.6	1684.7	1679.0
12.5°	1868.2	1904.4	1883.9	1818.4	1722.3	1635.1	1572.0	1523.0	1501.3	1495.6
15°	1830.5	1855.3	1803.8	1700.6	1579.7	1487.3	1435.1	1398.8	1383.5	1379.1
17.5°	1810.8	1815.9	1721.6	1582.2	1453.5	1376.5	1344.1	1326.9	1321.2	1318.0
20°	1820.4	1784.6	1643.3	1472.0	1350.5	1296.4	1288.7	1284.3	1282.9	1281.1
22.5°	1868.2	1775.1	1571.3	1367.6	1260.0	1236.5	1242.9	1242.2	1240.9	1239.6
25°	1953.3	1783.4	1501.3	1268.3	1184.3	1179.1	1190.6	1190.6	1185.6	1185.6
27.5°	2066.1	1800.6	1423.0	1174.1	1115.5	1116.1	1125.1	1122.5	1116.7	1113.0
30°	2203.6	1811.4	1331.4	1089.5	1051.2	1048.7	1051.2	1040.3	1023.2	1021.9
32.5°	2344.2	1798.1	1225.1	1014.3	983.0	977.4	975.4	960.2	940.4	934.7
35°	2471.7	1749.0	1116.7	954.4	918.1	905.4	914.3	909.2	891.3	886.9
37.5°	2564.7	1658.0	1019.4	901.6	871.7	868.5	874.2	876.0	855.1	850.6
40°	2627.0	1534.4	936.0	857.0	862.7	850.6	831.6	818.2	811.8	809.8
42.5°	2677.3	1405.8	865.9	836.0	864.7	829.6	788.2	766.6	778.0	783.2
45°	2735.2	1280.4	807.3	809.8	855.1	805.5	758.3	737.3	741.8	743.1
47.5°	2814.8	1127.5	744.3	767.9	823.3	788.9	739.8	709.9	688.9	679.4
50°	2925.0	946.7	678.7	720.8	792.0	776.8	711.2	679.4	640.5	631.6
52.5°	3001.4	778.0	624.6	681.2	764.0	752.6	688.3	647.0	606.2	598.5
55°	2960.1	646.3	577.4	637.3	727.1	722.6	669.2	613.8	582.0	575.6
57.5°	2753.2	562.8	541.2	595.9	681.9	697.2	643.6	585.7	562.8	558.5
60°	2358.4	510.7	518.2	567.9	644.9	671.7	618.2	570.5	555.1	552.0
62.5°	1829.9	475.6	501.1	547.6	616.3	653.9	604.2	568.5	562.8	559.0
65°	1311.0	447.6	482.6	527.1	590.2	637.3	599.2	566.1	567.3	564.1
67.5°	890.8	422.8	460.3	504.2	564.8	622.7	592.0	557.1	573.1	569.2
70°	623.4	398.6	434.2	474.9	532.9	602.3	579.4	543.8	542.5	527.1
72.5°	486.4	366.8	398.6	434.2	492.2	573.6	554.0	513.8	492.8	476.9
73°	464.2	359.1	389.6	425.3	483.3	566.6	547.0	505.6	482.0	467.3
75°	383.9	326.0	354.0	385.8	445.0	533.5	512.5	467.9	438.0	429.2
77.5°	301.8	278.8	305.6	334.3	392.2	485.1	461.6	418.9	402.4	394.8
80°	223.4	231.1	254.7	280.1	340.1	433.5	412.6	370.0	443.8	425.3
82.5°	157.3	175.2	196.7	219.6	285.2	383.3	357.9	313.9	324.7	270.0
85°	93.0	114.6	134.9	154.7	205.6	317.7	295.4	250.2	205.0	195.5
87.5°	54.1	63.7	69.4	89.8	141.4	239.4	208.2	185.3	106.3	71.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)