

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: P200040

Luminaire Tested: **GAP-AF-02-LED-U-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200040
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-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 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: 12285.1 lumens
Efficiency: N/A
Efficacy: 108.7 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

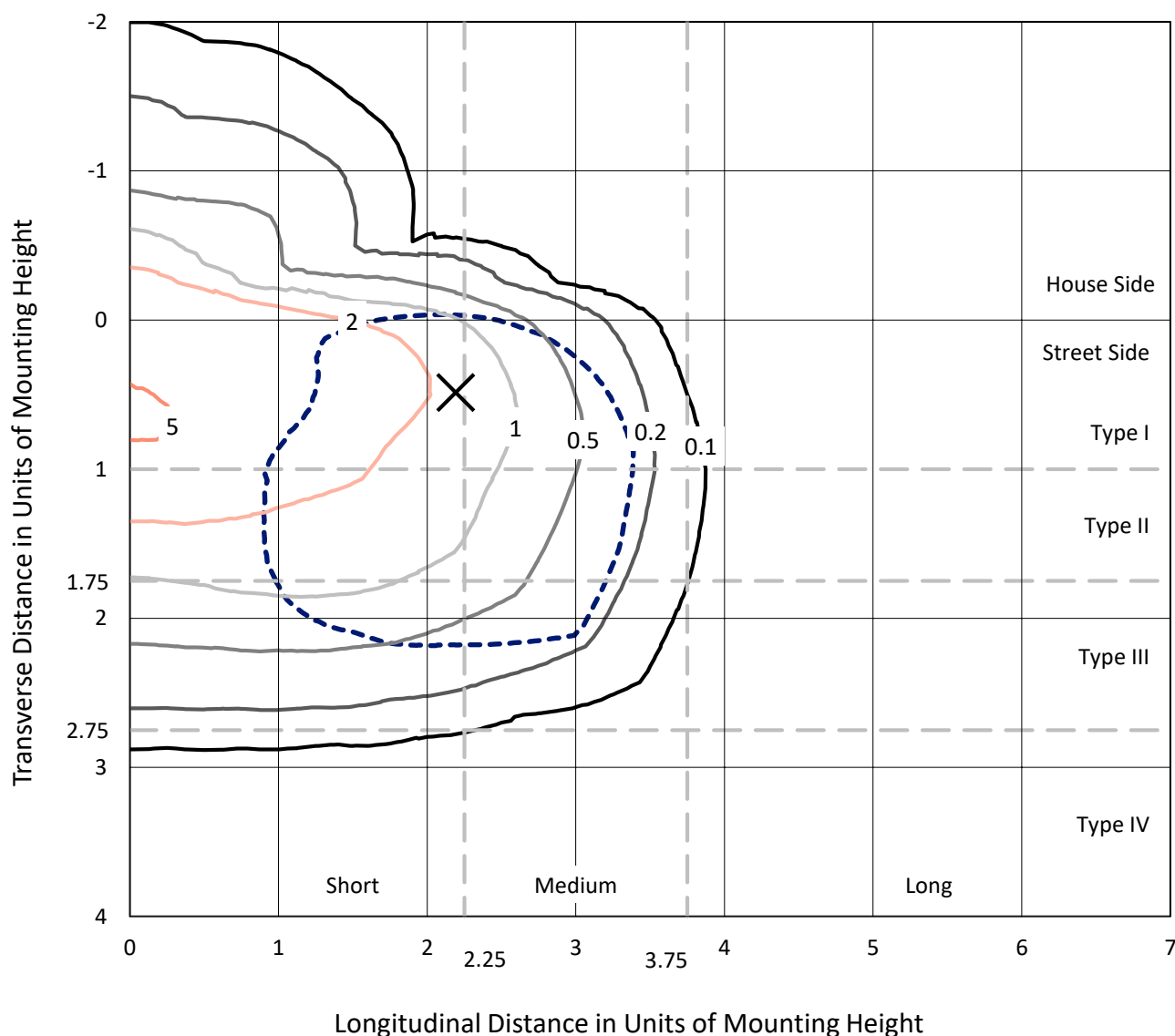


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

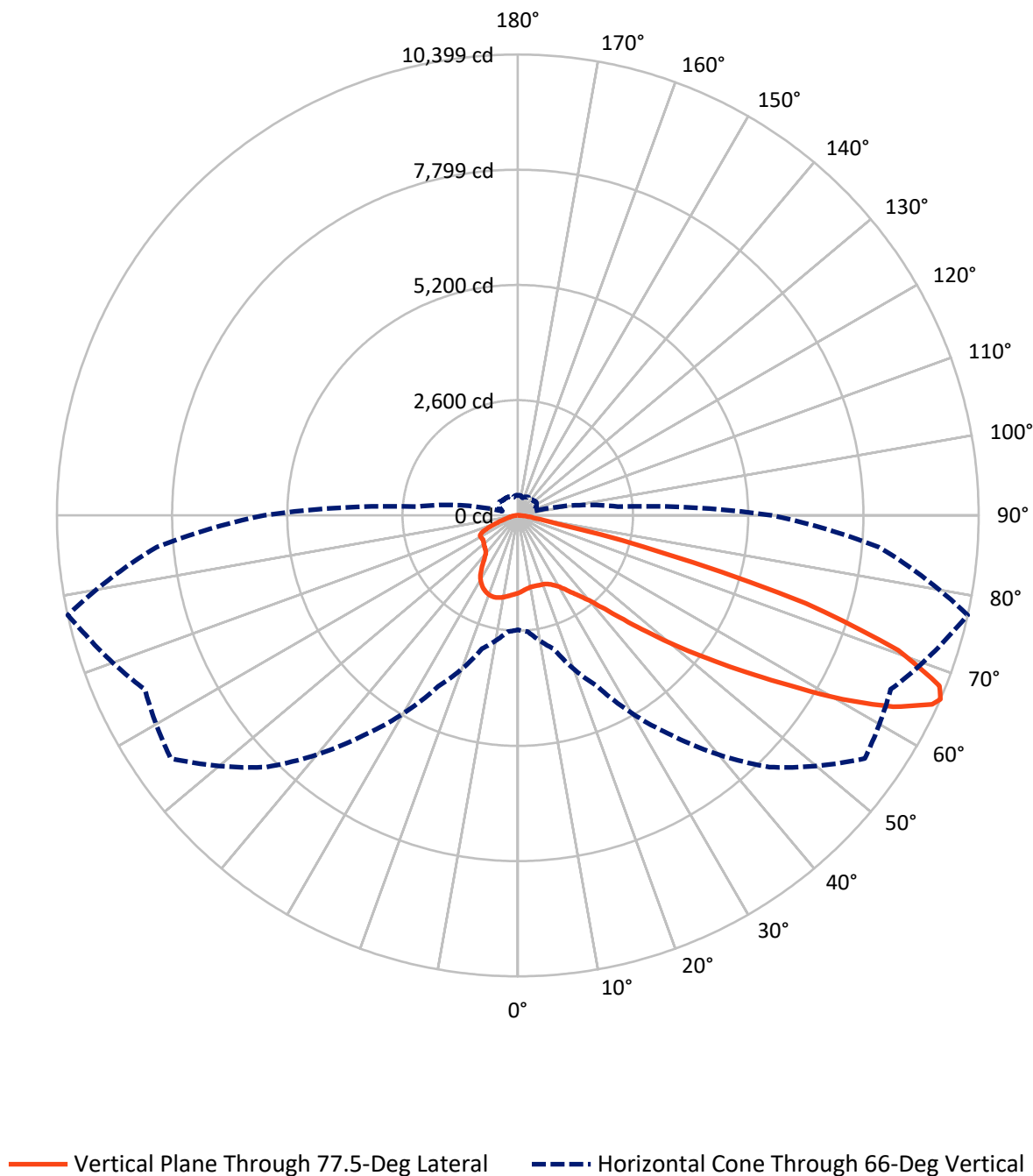


Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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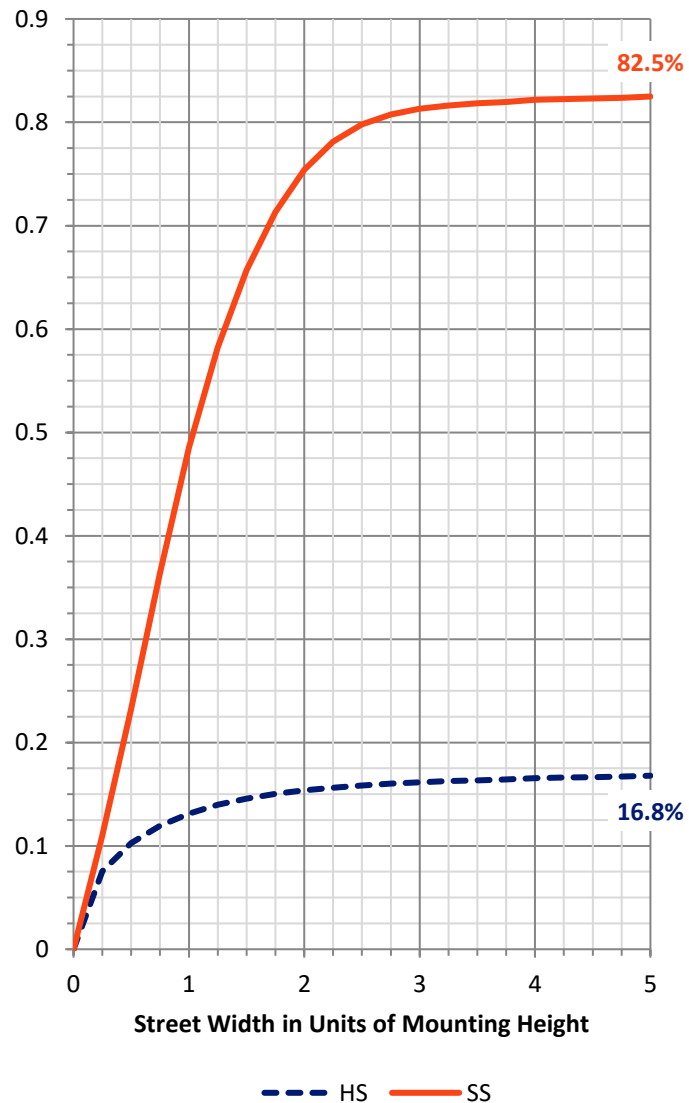
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.8	0.0	2098.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10186.3	0.0	10186.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	12285.1	0.0	12285.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	1.3
10°-20°	441.3	3.6
20°-30°	753.1	6.1
30°-40°	1205.5	9.8
40°-50°	1862.4	15.2
50°-60°	2641.6	21.5
60°-70°	3533.7	28.8
70°-80°	1534.6	12.5
80°-90°	156.5	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°	12285.1	100.0
0°-180°	12285.1	100.0

Coefficient of Utilization



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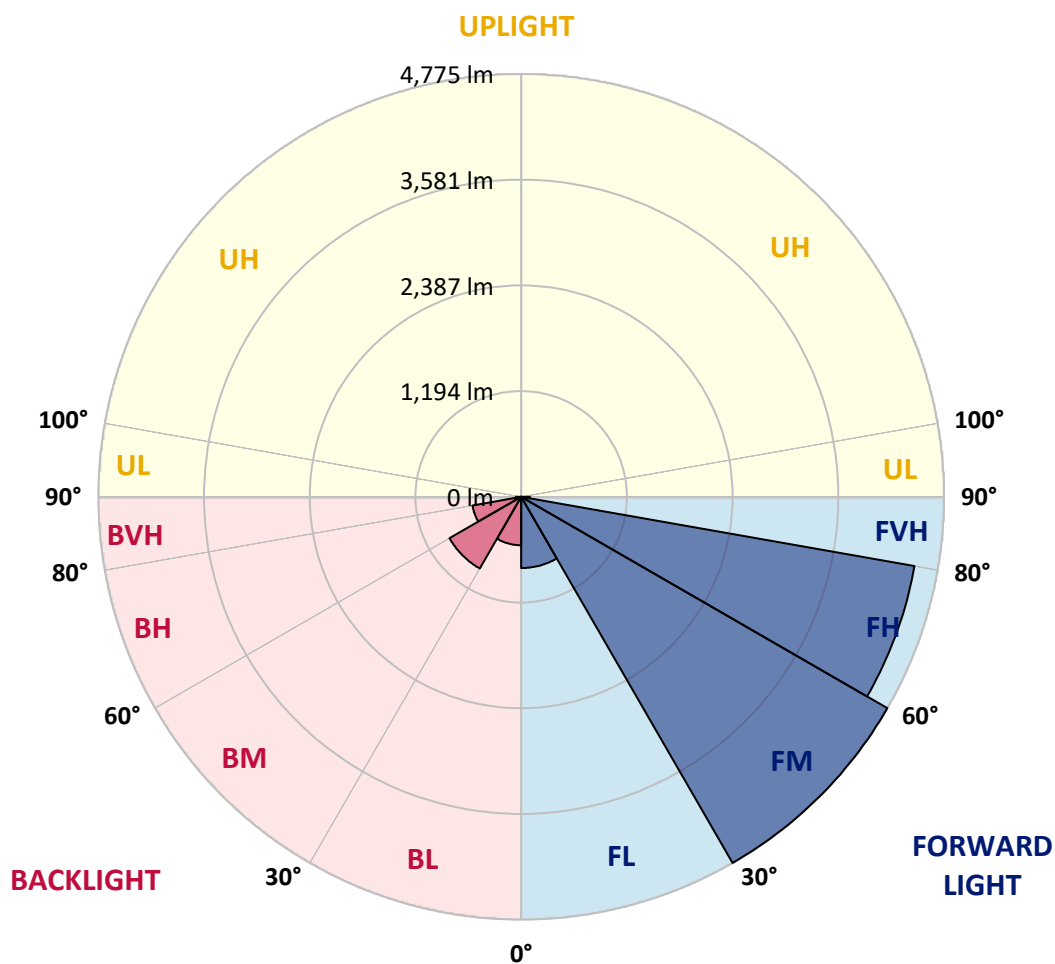
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	804.1	6.5			
FM	(30°-60°)	4774.6	38.9			
FH	(60°-80°)	4509.4	36.7			G2/5000
FVH	(80°-90°)	98.1	0.8			G1/100
BL	(0°-30°)	546.6	4.4	B2/1000		
BM	(30°-60°)	934.9	7.6	B1/1000		
BH	(60°-80°)	559.0	4.5	B2/1000		G2/1000
BVH	(80°-90°)	58.3	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°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1548.6	1559.1	1567.9	1575.9	1592.2	1618.9	1649.7	1674.6	1710.7	1717.5	1736.7
5°	1406.5	1406.5	1413.5	1425.7	1447.6	1487.8	1529.5	1585.3	1663.6	1682.1	1733.3
7.5°	1337.5	1338.0	1342.0	1352.5	1371.6	1408.3	1454.0	1519.7	1625.9	1656.7	1743.7
10°	1362.9	1357.1	1348.5	1343.3	1346.1	1367.6	1411.1	1484.3	1602.7	1642.1	1766.9
12.5°	1505.7	1494.6	1464.5	1424.4	1386.2	1370.4	1396.0	1467.5	1592.8	1638.7	1797.8
15°	1739.1	1734.4	1678.1	1595.0	1502.2	1424.4	1407.0	1461.1	1594.0	1642.7	1834.3
17.5°	2031.6	2025.2	1951.0	1830.2	1678.7	1527.2	1445.9	1466.3	1598.0	1649.7	1869.7
20°	2327.1	2307.3	2227.2	2083.2	1888.9	1667.1	1510.4	1479.6	1603.3	1657.3	1906.8
22.5°	2547.7	2531.4	2459.4	2319.6	2095.5	1829.0	1596.9	1502.9	1620.1	1679.4	1952.7
25°	2741.6	2742.7	2671.3	2536.0	2304.5	2000.9	1708.3	1564.9	1663.0	1724.5	2015.4
27.5°	2981.2	2967.4	2900.7	2766.6	2511.1	2174.5	1842.9	1650.3	1726.9	1789.0	2097.8
30°	3268.1	3258.1	3181.0	3028.8	2740.3	2360.8	1996.8	1749.6	1809.4	1873.8	2205.7
32.5°	3605.2	3600.6	3520.6	3324.9	3005.0	2580.1	2177.3	1880.7	1932.4	1999.1	2360.8
35°	4001.2	4001.7	3907.1	3671.9	3294.7	2835.6	2382.2	2049.6	2082.2	2151.8	2545.3
37.5°	4244.9	4274.6	4239.2	3999.4	3622.7	3121.2	2648.1	2273.6	2252.8	2323.1	2743.3
40°	4297.1	4333.2	4445.2	4323.3	3989.5	3435.7	2883.8	2489.0	2462.9	2548.8	2998.1
42.5°	4224.1	4274.0	4510.8	4596.7	4379.0	3823.5	3200.6	2808.8	2775.8	2891.3	3315.0
45°	4180.5	4217.6	4491.6	4738.9	4716.8	4261.7	3604.1	3210.6	3198.3	3349.9	3680.7
47.5°	4105.1	4138.7	4402.3	4772.0	4915.3	4663.5	4088.8	3701.6	3725.4	3923.9	4093.4
50°	4145.8	4159.6	4302.4	4687.9	4972.8	4957.7	4630.4	4270.5	4351.8	4599.6	4560.7
52.5°	4139.9	4175.9	4290.8	4549.7	4980.4	5139.4	5163.8	4904.9	5076.1	5360.6	5079.1
55°	3346.9	3413.2	4154.4	4514.9	5007.2	5317.6	5638.7	5573.7	5892.9	6224.4	5664.2
57.5°	3196.1	3237.8	3648.8	4588.1	5148.8	5657.8	6166.9	6309.7	6843.7	7228.6	6377.0
60°	3166.5	3218.1	3643.6	4677.4	5436.0	6212.2	6949.9	7200.7	8000.6	8422.0	7203.6
62.5°	3074.1	3129.8	3609.4	4665.8	5844.2	6978.9	7952.4	8148.0	9097.7	9507.4	7895.0
65°	2781.6	2833.8	3330.1	4478.3	6119.3	7797.4	9138.9	9016.4	9963.7	10271.9	8239.7
66°	2581.4	2632.4	3110.2	4257.8	6055.4	8029.6	9559.1	9285.2	10157.7	10399.1	8172.4
67.5°	2215.0	2255.1	2683.0	3763.8	5715.9	8094.6	9912.6	9487.1	10177.9	10263.3	7787.6
70°	1399.5	1411.1	1743.7	2598.1	4326.7	7020.1	9374.6	8985.6	9338.5	9107.6	6528.5
72.5°	607.2	603.1	837.0	1321.7	2449.6	4710.5	7583.2	7414.4	7325.5	6798.4	4570.0
75°	337.8	342.5	434.8	613.6	995.5	2313.8	4960.7	4747.1	4008.0	3420.2	2072.2
77.5°	271.1	277.4	360.4	435.4	447.0	806.9	2321.3	1888.9	1137.2	912.6	575.8
80°	214.1	225.8	314.6	339.0	301.2	332.5	749.9	599.7	449.8	412.7	298.4
82.5°	169.5	177.6	269.9	256.5	210.8	224.1	359.4	350.0	292.6	266.5	172.4
85°	122.0	137.0	221.7	193.3	138.1	150.9	238.6	228.7	167.7	137.0	76.1
87.5°	49.9	65.0	156.7	128.3	77.2	70.3	119.0	112.0	79.5	58.0	37.7
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°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1748.9	1762.9	1780.8	1791.9	1797.8	1801.8	1808.1	1807.5	1809.4	1809.9	1812.2
5°	1760.6	1783.7	1809.9	1816.9	1816.9	1810.4	1804.1	1793.6	1789.5	1788.5	1789.5
7.5°	1790.8	1816.3	1839.0	1830.7	1813.3	1787.8	1754.7	1725.7	1710.0	1704.9	1703.7
10°	1829.0	1859.8	1869.1	1838.3	1787.3	1725.7	1660.0	1612.5	1585.3	1577.7	1575.4
12.5°	1875.4	1904.5	1891.8	1826.7	1732.1	1632.9	1542.3	1466.3	1409.3	1391.4	1390.3
15°	1926.6	1949.1	1904.5	1790.8	1649.7	1503.4	1342.0	1210.8	1140.0	1117.4	1115.6
17.5°	1974.2	1985.8	1897.0	1728.1	1528.3	1291.6	1077.3	976.3	951.9	957.7	959.0
20°	2014.8	2014.8	1871.4	1638.2	1337.5	1012.3	877.2	875.3	892.7	910.1	913.6
22.5°	2059.5	2032.8	1826.7	1510.9	1066.9	828.3	808.6	824.8	844.6	863.7	866.7
25°	2114.6	2047.3	1764.6	1318.2	838.8	752.2	759.8	773.2	783.1	795.2	796.9
27.5°	2176.1	2065.9	1682.8	1052.9	727.8	704.7	710.5	715.1	714.0	718.6	719.8
30°	2249.8	2087.4	1570.7	823.0	682.0	664.1	653.6	649.5	649.5	657.0	660.0
32.5°	2348.5	2119.3	1410.0	705.3	660.0	635.1	601.4	586.2	592.0	617.7	623.5
35°	2457.1	2153.5	1192.2	665.2	655.3	621.6	569.5	541.6	542.2	566.0	573.5
37.5°	2575.6	2197.1	953.8	657.6	665.8	622.2	552.7	514.3	498.7	498.7	501.5
40°	2727.0	2241.8	772.0	662.8	687.9	629.3	543.9	492.9	448.7	449.8	452.3
42.5°	2924.5	2280.0	674.4	673.9	714.5	638.5	543.3	464.4	426.1	452.3	476.0
45°	3143.8	2299.3	631.5	683.8	736.1	644.3	534.1	459.8	429.0	506.8	552.0
47.5°	3396.4	2288.2	607.7	687.2	741.3	644.3	523.6	470.8	449.3	586.8	639.7
50°	3673.2	2256.3	584.5	680.3	739.4	643.2	533.4	481.9	456.8	600.8	637.3
52.5°	3998.8	2229.6	560.2	665.2	727.3	636.8	545.1	477.1	433.0	546.2	571.8
55°	4370.4	2237.1	532.8	643.7	708.2	624.6	541.0	458.6	408.1	481.2	496.9
57.5°	4845.1	2327.1	500.4	616.4	682.0	604.3	526.5	449.8	400.6	436.5	445.8
60°	5375.1	2483.8	459.8	589.1	649.5	571.8	515.4	454.0	404.0	433.0	437.7
62.5°	5764.1	2574.9	424.9	549.1	605.4	535.8	501.5	459.1	413.3	445.2	444.0
65°	5869.6	2425.2	381.4	490.5	545.6	498.0	484.1	465.0	417.4	455.1	449.8
66°	5721.7	2263.9	362.2	463.3	515.4	479.4	475.4	464.4	415.6	456.2	447.5
67.5°	5362.3	1932.9	329.1	423.2	467.3	451.6	461.5	459.1	411.0	455.1	442.9
70°	4373.2	1318.9	281.6	352.4	389.0	397.6	434.8	440.6	395.8	434.8	408.1
72.5°	3055.6	803.4	249.0	273.3	314.6	339.0	398.2	415.0	375.6	379.6	354.1
75°	1476.7	426.6	225.8	211.9	244.4	283.3	354.1	380.2	343.6	317.5	308.2
77.5°	460.3	260.6	191.5	170.7	191.5	228.7	296.0	333.2	305.9	265.8	262.3
80°	247.3	191.5	147.4	137.0	151.6	179.4	232.7	278.1	263.0	238.6	213.0
82.5°	163.2	124.2	109.2	106.2	115.5	137.0	172.9	230.4	230.4	204.4	148.6
85°	84.1	76.1	74.9	74.9	80.7	91.1	117.8	177.6	189.2	107.9	89.4
87.5°	41.8	43.4	40.7	42.4	45.3	44.7	56.3	89.4	106.8	65.5	54.5
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)