

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: P200042

Luminaire Tested: **GAP-AF-02-LED-U-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200042
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-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13474.9 lumens
Efficiency: N/A
Efficacy: 104.5 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): 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

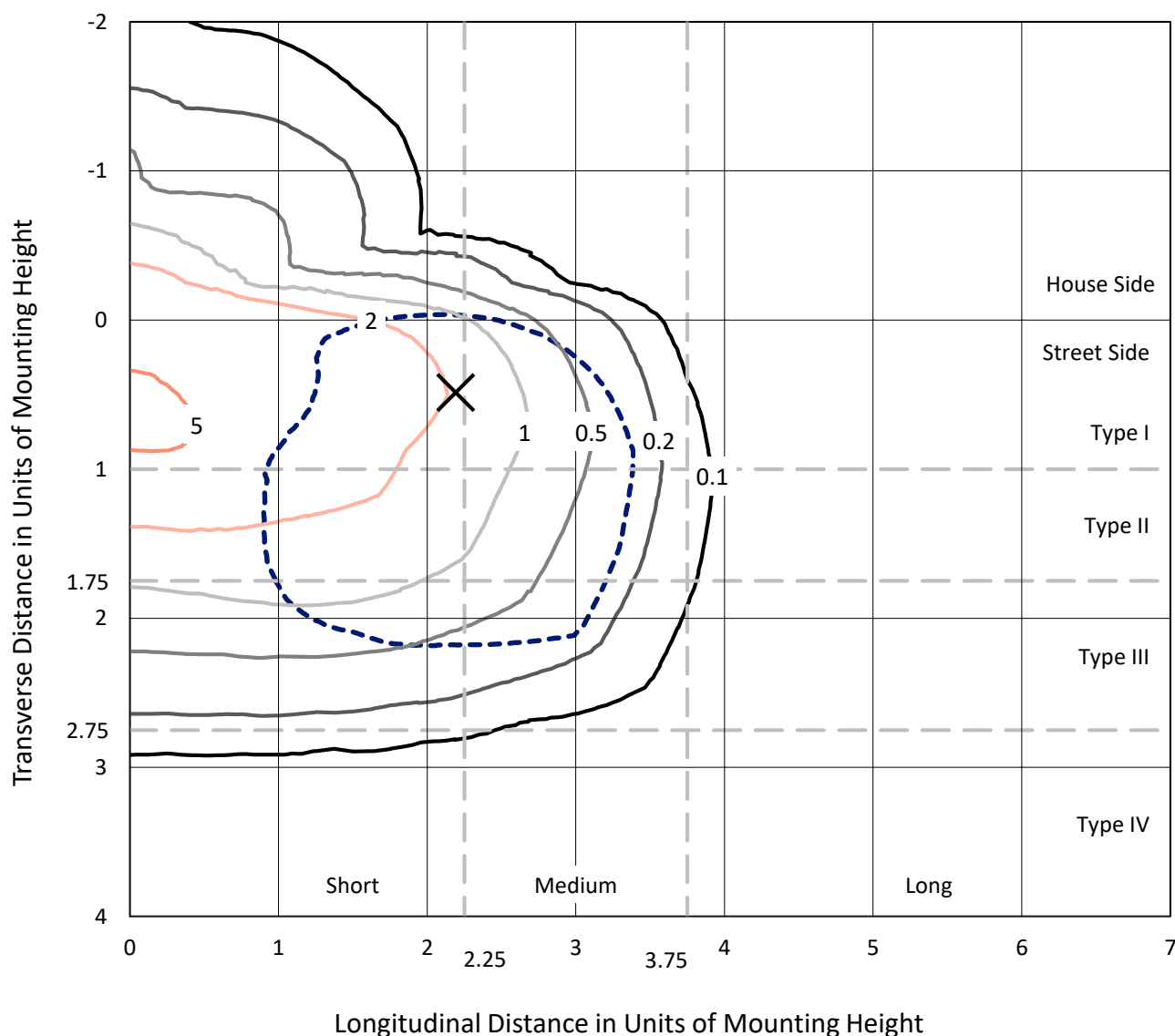


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

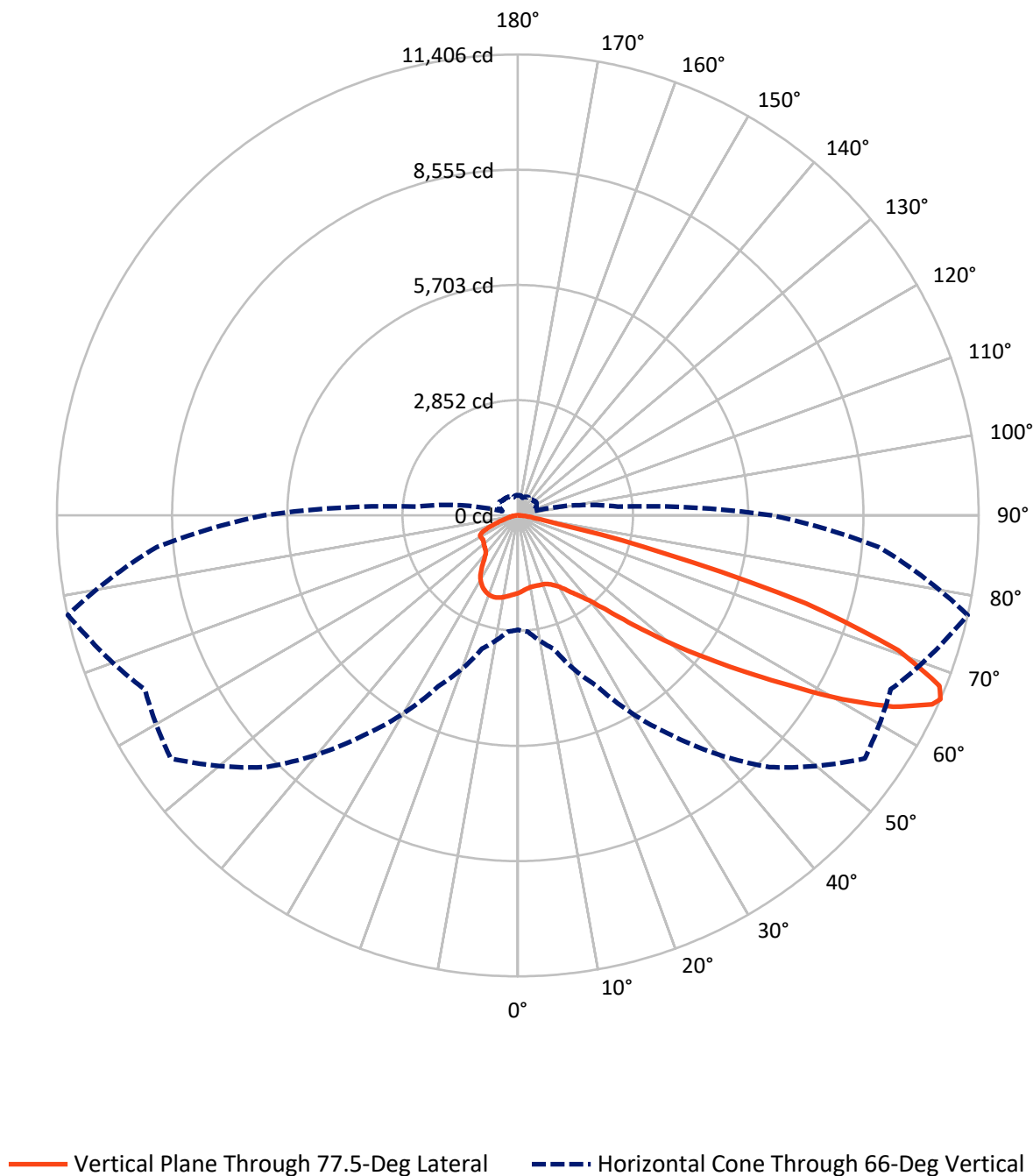


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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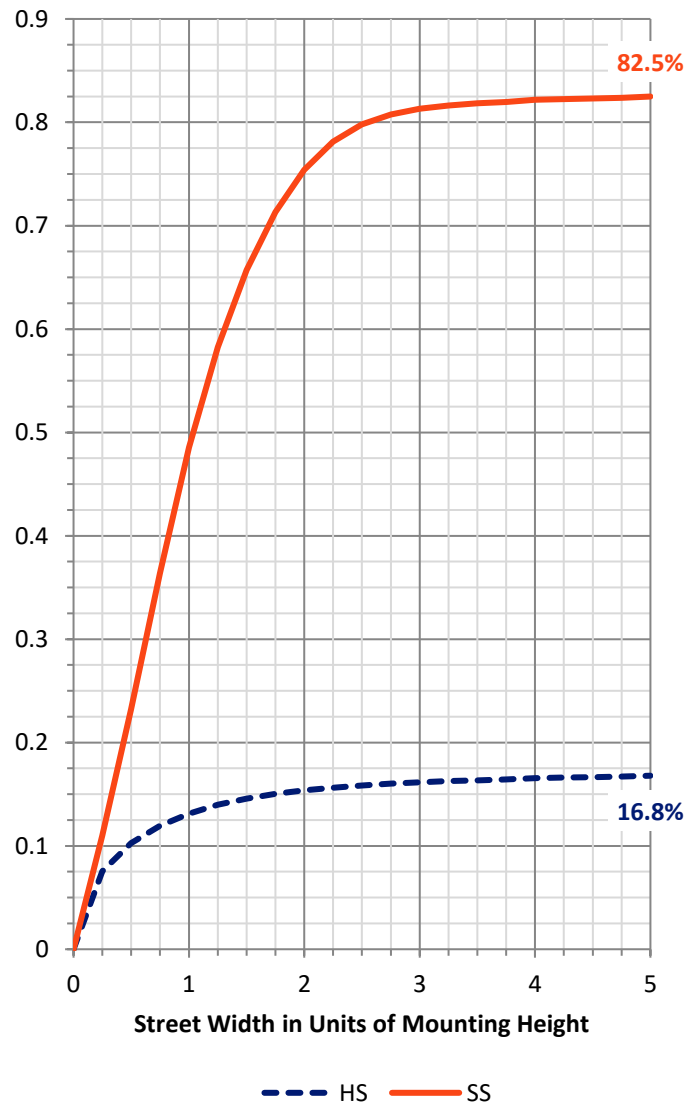
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2302.1	0.0	2302.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	11172.8	0.0	11172.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	13474.9	0.0	13474.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	1.3
10°-20°	484.0	3.6
20°-30°	826.0	6.1
30°-40°	1322.3	9.8
40°-50°	2042.8	15.2
50°-60°	2897.4	21.5
60°-70°	3876.0	28.8
70°-80°	1683.3	12.5
80°-90°	171.6	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°	13474.9	100.0
0°-180°	13474.9	100.0

Coefficient of Utilization



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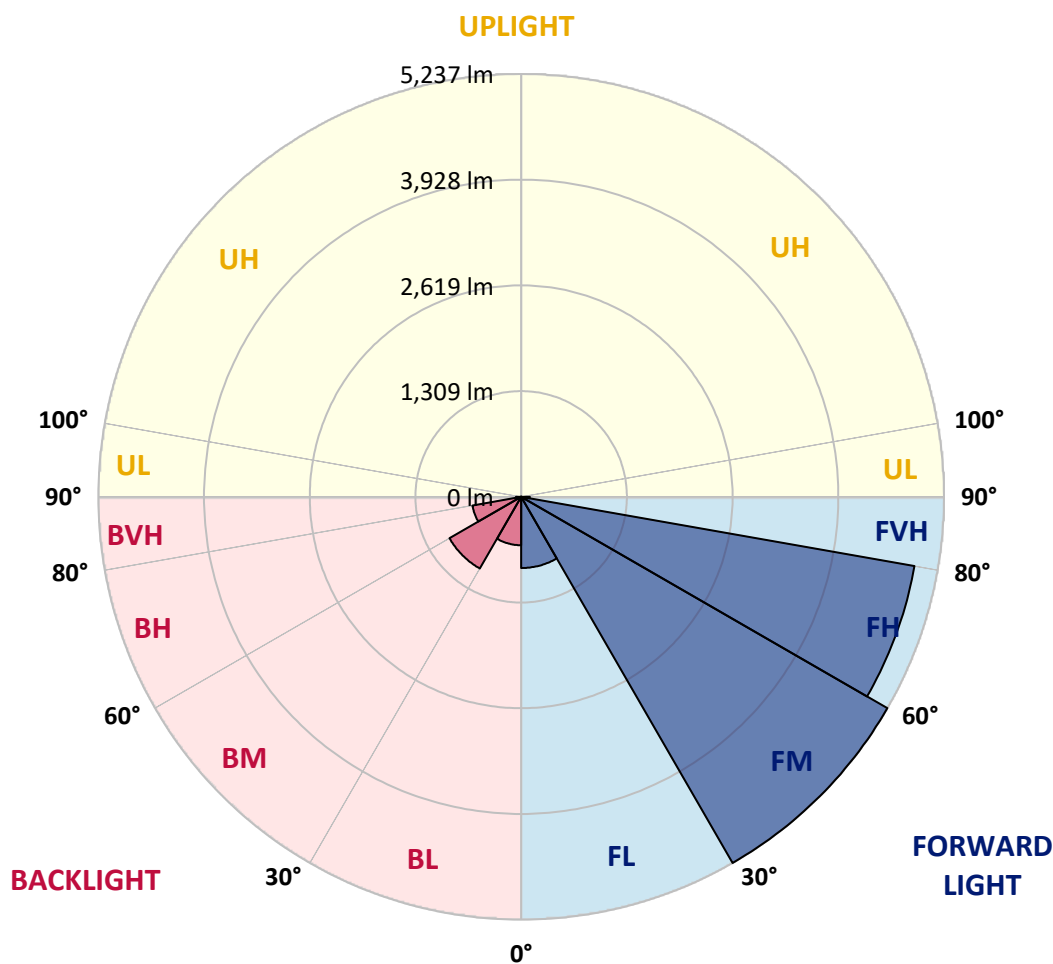
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.0	6.5			
FM	(30°-60°)	5237.1	38.9			
FH	(60°-80°)	4946.1	36.7			G2/5000
FVH	(80°-90°)	107.6	0.8			G2/225
BL	(0°-30°)	599.6	4.4	B2/1000		
BM	(30°-60°)	1025.5	7.6	B2/2500		
BH	(60°-80°)	613.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	64.0	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°	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1698.7	1710.1	1719.7	1728.6	1746.4	1775.7	1809.5	1836.8	1876.3	1883.9	1904.9
5°	1542.7	1542.7	1550.3	1563.7	1587.9	1631.8	1677.6	1738.8	1824.7	1845.1	1901.1
7.5°	1467.0	1467.6	1472.0	1483.5	1504.5	1544.6	1594.8	1666.9	1783.3	1817.1	1912.6
10°	1494.8	1488.5	1479.1	1473.3	1476.4	1500.0	1547.7	1628.0	1757.9	1801.1	1938.0
12.5°	1651.6	1639.4	1606.3	1562.4	1520.5	1503.2	1531.3	1609.5	1747.0	1797.4	1971.8
15°	1907.5	1902.4	1840.7	1749.6	1647.7	1562.4	1543.3	1602.5	1748.3	1801.8	2011.9
17.5°	2228.5	2221.3	2140.0	2007.4	1841.3	1675.2	1586.0	1608.3	1752.8	1809.5	2050.8
20°	2552.6	2530.8	2442.9	2285.0	2071.8	1828.6	1656.7	1622.9	1758.5	1817.7	2091.5
22.5°	2794.5	2776.6	2697.6	2544.2	2298.5	2006.2	1751.5	1648.4	1777.0	1841.9	2141.8
25°	3007.1	3008.4	2930.0	2781.6	2527.6	2194.7	1873.8	1716.5	1824.1	1891.6	2210.6
27.5°	3270.0	3254.8	3181.5	3034.4	2754.3	2385.0	2021.6	1810.1	1894.1	1962.3	2301.0
30°	3584.6	3573.8	3489.0	3322.2	3005.8	2589.5	2190.2	1918.9	1984.5	2055.1	2419.4
32.5°	3954.4	3949.4	3861.6	3647.0	3296.2	2830.1	2388.2	2062.9	2119.5	2192.8	2589.5
35°	4388.7	4389.3	4285.4	4027.7	3613.9	3110.2	2612.9	2248.1	2283.7	2360.2	2791.9
37.5°	4656.1	4688.6	4649.7	4386.8	3973.5	3423.4	2904.5	2494.0	2471.0	2548.0	3009.0
40°	4713.3	4752.9	4875.7	4742.1	4376.0	3768.6	3163.0	2730.1	2701.4	2795.7	3288.4
42.5°	4633.1	4687.9	4947.7	5041.9	4803.1	4193.8	3510.7	3080.9	3044.6	3171.4	3636.1
45°	4585.4	4626.1	4926.7	5197.9	5173.8	4674.5	3953.2	3521.5	3508.1	3674.3	4037.2
47.5°	4502.7	4539.6	4828.6	5234.2	5391.5	5115.1	4484.8	4060.2	4086.3	4303.9	4489.9
50°	4547.3	4562.4	4719.1	5141.8	5454.4	5438.0	5078.8	4684.1	4773.2	5045.0	5002.4
52.5°	4540.9	4580.3	4706.4	4990.3	5462.8	5637.2	5664.0	5380.0	5567.9	5879.8	5571.0
55°	3671.1	3743.7	4556.7	4952.1	5492.0	5832.7	6184.7	6113.5	6463.7	6827.2	6212.8
57.5°	3505.6	3551.5	4002.1	5032.4	5647.4	6205.8	6764.1	6920.8	7506.5	7928.6	6994.7
60°	3473.2	3529.8	3996.4	5130.4	5962.6	6813.9	7623.0	7898.2	8775.4	9237.7	7901.3
62.5°	3371.8	3433.0	3958.9	5117.7	6410.1	7654.9	8722.6	8937.2	9978.7	10428.2	8659.6
65°	3050.9	3108.3	3652.6	4912.1	6711.9	8552.6	10024.0	9889.6	10928.6	11266.9	9037.7
66°	2831.4	2887.4	3411.4	4670.1	6641.9	8807.3	10484.9	10184.4	11141.3	11406.2	8963.8
67.5°	2429.6	2473.5	2942.8	4128.3	6269.4	8878.6	10872.7	10406.0	11163.7	11257.2	8541.8
70°	1535.1	1547.7	1912.6	2849.8	4745.9	7700.0	10282.5	9855.8	10242.9	9989.6	7160.9
72.5°	665.9	661.6	918.1	1449.8	2686.8	5166.7	8317.7	8132.3	8034.9	7456.8	5012.6
75°	370.5	375.7	476.9	672.9	1091.9	2537.9	5441.1	5206.9	4396.3	3751.3	2272.9
77.5°	297.3	304.3	395.4	477.5	490.2	885.0	2546.1	2071.8	1247.3	1001.0	631.6
80°	234.9	247.7	345.0	371.8	330.4	364.8	822.6	657.7	493.5	452.7	327.2
82.5°	186.0	194.8	296.1	281.5	231.1	245.8	394.1	383.9	320.9	292.3	189.1
85°	133.8	150.2	243.2	212.0	151.6	165.5	261.6	250.9	184.0	150.2	83.4
87.5°	54.7	71.3	171.9	140.7	84.6	77.0	130.6	122.9	87.2	63.7	41.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2	1920.2
2.5°	1918.4	1933.6	1953.3	1965.5	1971.8	1976.3	1983.3	1982.6	1984.5	1985.1	1987.8
5°	1931.0	1956.5	1985.1	1992.8	1992.8	1985.8	1978.8	1967.3	1963.0	1961.6	1963.0
7.5°	1964.2	1992.3	2017.0	2008.0	1988.9	1960.9	1924.7	1892.9	1875.7	1870.0	1868.7
10°	2006.2	2040.0	2050.1	2016.4	1960.3	1892.9	1821.0	1768.7	1738.8	1730.5	1727.9
12.5°	2057.2	2088.9	2075.0	2003.6	1899.9	1791.0	1691.7	1608.3	1545.9	1526.2	1524.8
15°	2113.2	2137.9	2088.9	1964.2	1809.5	1649.0	1472.0	1328.1	1250.5	1225.7	1223.7
17.5°	2165.4	2178.1	2080.8	1895.4	1676.4	1416.6	1181.6	1071.0	1044.2	1050.5	1051.8
20°	2210.0	2210.0	2052.7	1796.8	1467.0	1110.4	962.0	960.2	979.2	998.3	1002.1
22.5°	2258.9	2229.7	2003.6	1657.3	1170.2	908.6	886.8	904.7	926.4	947.4	950.5
25°	2319.5	2245.6	1935.5	1445.9	920.0	825.1	833.4	848.1	858.9	872.2	874.2
27.5°	2387.0	2265.9	1845.7	1155.0	798.3	772.9	779.3	784.4	783.2	788.2	789.5
30°	2467.8	2289.5	1722.9	902.8	748.1	728.3	717.0	712.5	712.5	720.7	724.0
32.5°	2576.0	2324.5	1546.4	773.5	724.0	696.5	659.6	643.1	649.4	677.4	683.9
35°	2695.1	2362.0	1307.8	729.7	718.8	681.9	624.6	594.1	594.7	620.8	629.0
37.5°	2825.0	2409.8	1046.0	721.3	730.3	682.6	606.2	564.1	547.0	547.0	550.1
40°	2991.2	2458.9	846.8	727.1	754.4	690.2	596.5	540.5	492.1	493.5	495.9
42.5°	3207.7	2501.0	739.8	739.1	783.7	700.4	595.9	509.3	467.3	495.9	522.0
45°	3448.3	2521.9	692.7	750.1	807.3	706.7	585.7	504.2	470.5	555.8	605.6
47.5°	3725.2	2509.8	666.6	753.9	813.0	706.7	574.2	516.4	492.8	643.6	701.7
50°	4028.9	2474.8	641.2	746.2	811.1	705.5	585.1	528.5	501.1	659.0	699.0
52.5°	4386.1	2445.5	614.4	729.7	797.8	698.5	597.8	523.4	474.9	599.1	627.1
55°	4793.6	2453.8	584.4	706.1	776.8	685.0	593.4	503.0	447.6	527.8	544.9
57.5°	5314.4	2552.6	548.8	676.2	748.1	662.7	577.4	493.5	439.3	478.8	488.9
60°	5895.7	2724.4	504.2	646.3	712.5	627.1	565.4	497.9	443.1	474.9	480.0
62.5°	6322.3	2824.4	466.1	602.3	664.1	587.7	550.1	503.5	453.3	488.4	487.1
65°	6438.2	2660.0	418.4	538.0	598.5	546.3	531.0	510.0	457.8	499.2	493.5
66°	6275.9	2483.0	397.2	508.0	565.4	525.9	521.5	509.3	455.8	500.4	490.9
67.5°	5881.8	2120.1	361.0	464.2	512.5	495.4	506.2	503.5	450.8	499.2	485.7
70°	4796.8	1446.6	308.7	386.4	426.5	436.2	476.9	483.3	434.2	476.9	447.6
72.5°	3351.5	881.1	273.1	299.9	345.0	371.8	436.8	455.3	411.9	416.4	388.4
75°	1619.8	467.9	247.7	232.4	268.0	310.8	388.4	417.1	377.0	348.3	338.0
77.5°	504.9	285.8	210.1	187.2	210.1	250.9	324.7	365.5	335.5	291.6	287.8
80°	271.2	210.1	161.7	150.2	166.2	196.7	255.3	305.0	288.5	261.6	233.7
82.5°	178.8	136.2	119.7	116.5	126.7	150.2	189.8	252.7	252.7	224.1	163.1
85°	92.4	83.4	82.2	82.2	88.5	100.0	129.3	194.8	207.6	118.4	98.0
87.5°	45.9	47.7	44.6	46.4	49.7	49.0	61.7	98.0	117.1	71.9	59.9
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)