

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: P269871

Luminaire Tested: **GAP-AF-02-LED-U-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9806 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - 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



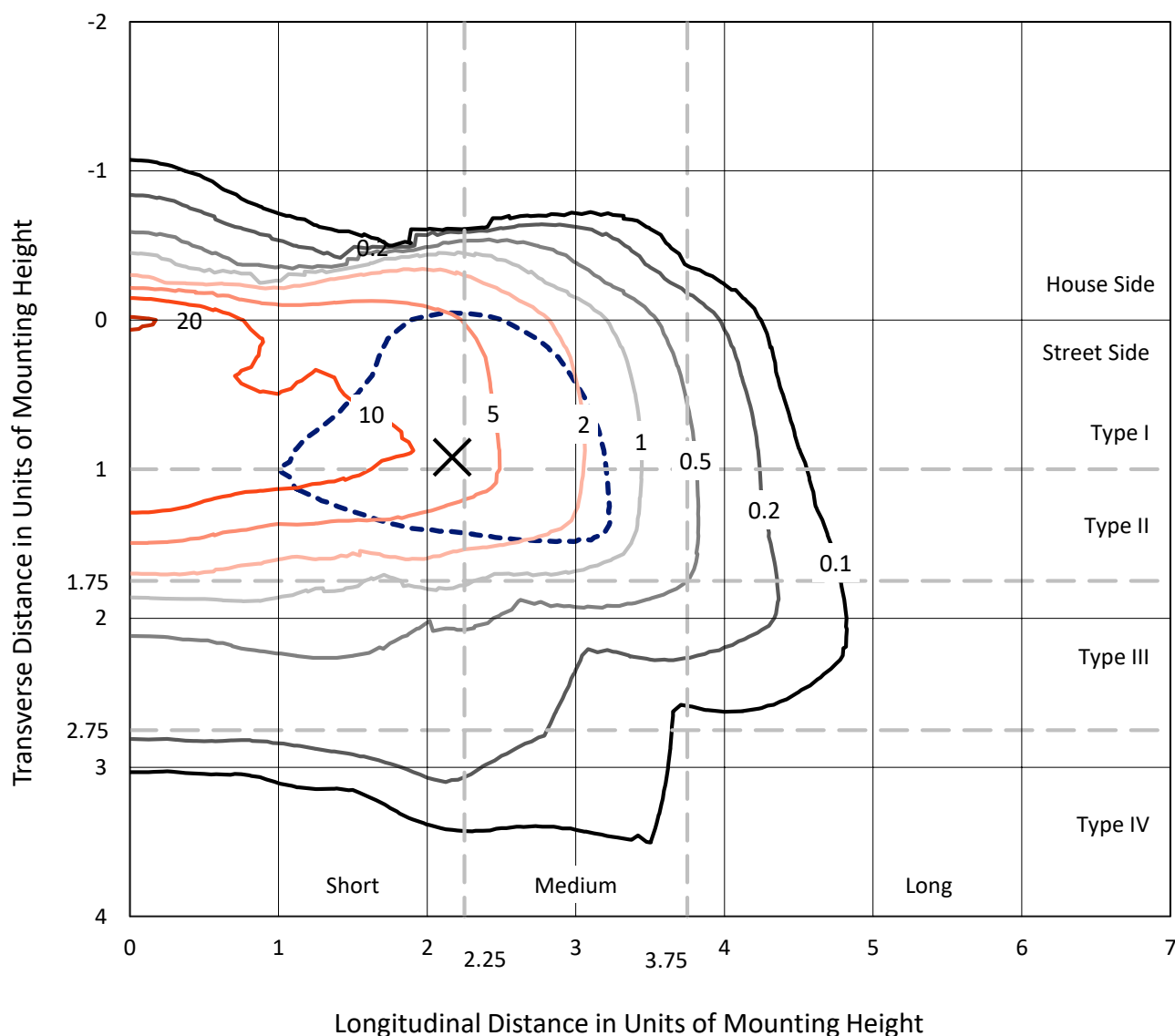
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

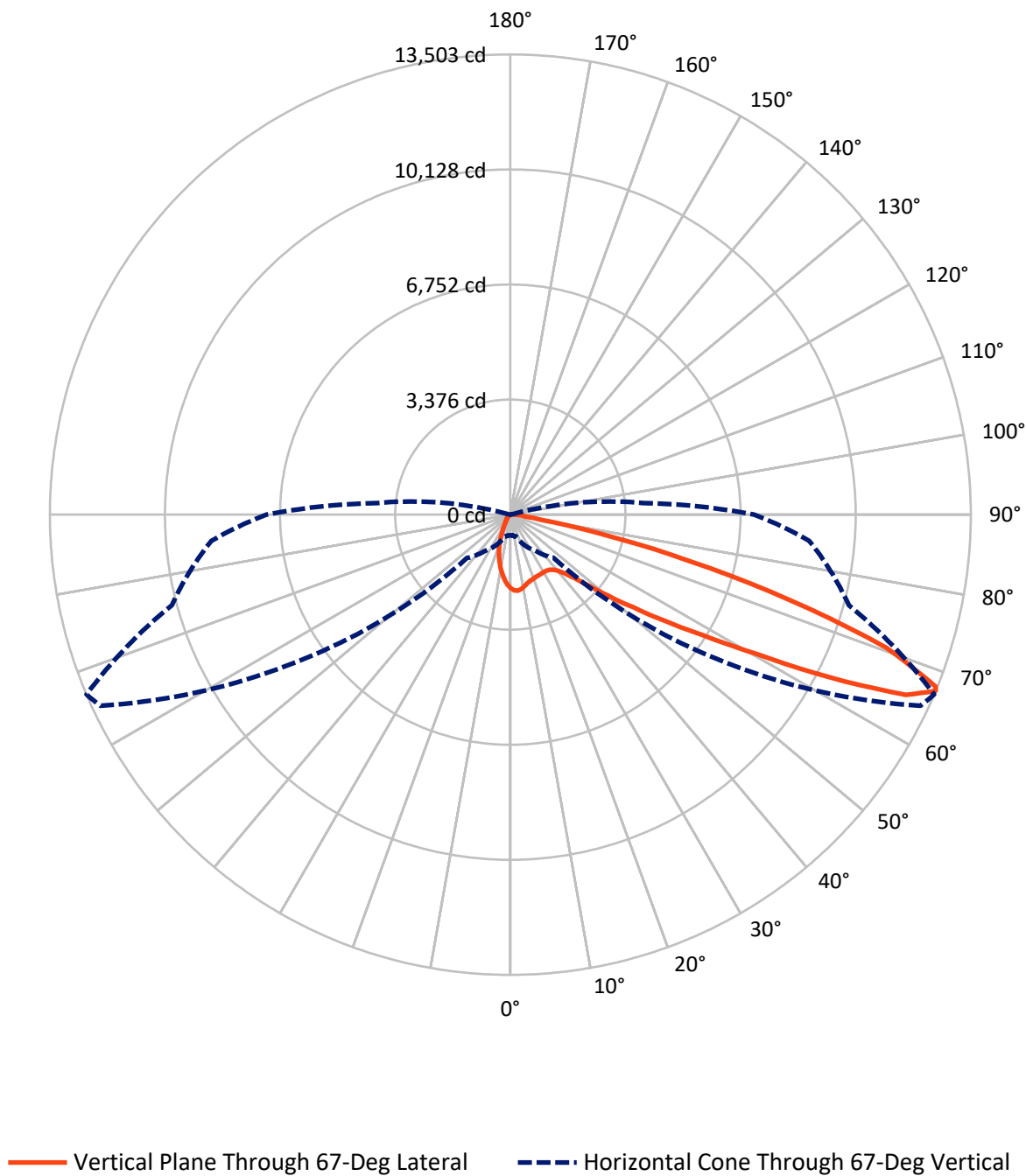


Based on 10 foot mounting height. Maximum calculated value = 21.6 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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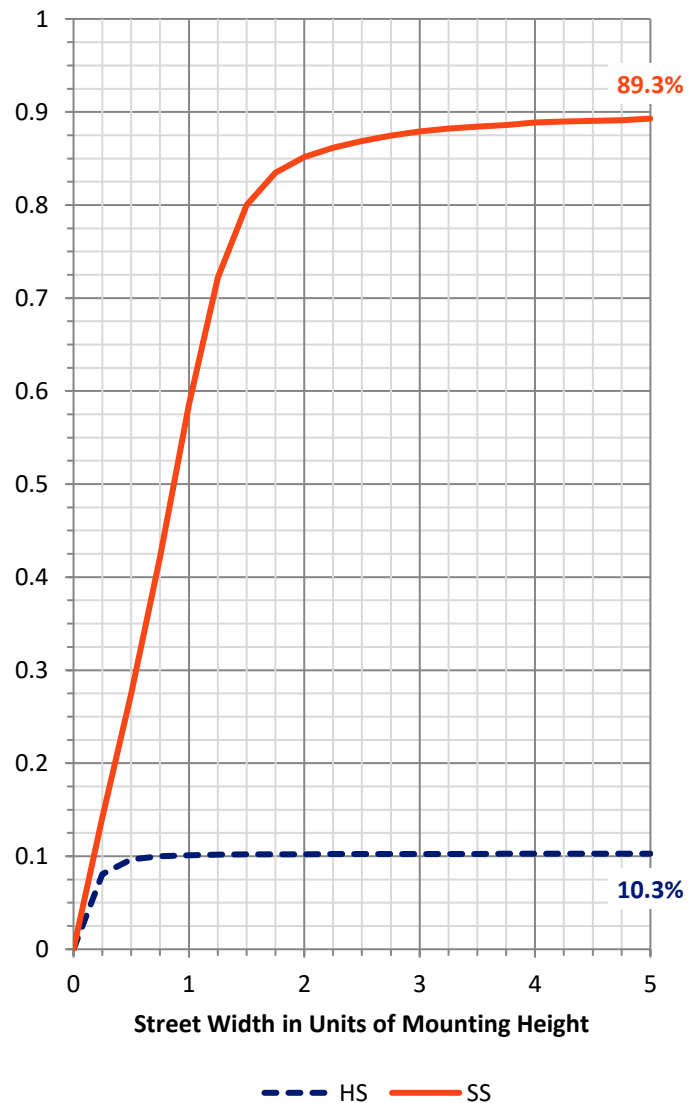
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.1	0.0	1018.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8787.8	0.0	8787.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	9806.0	0.0	9806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	1.8
10°-20°	374.5	3.8
20°-30°	544.5	5.6
30°-40°	849.5	8.7
40°-50°	1504.8	15.3
50°-60°	2381.2	24.3
60°-70°	2727.3	27.8
70°-80°	1131.3	11.5
80°-90°	116.8	1.2
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°	9806.0	100.0
0°-180°	9806.0	100.0

Coefficient of Utilization



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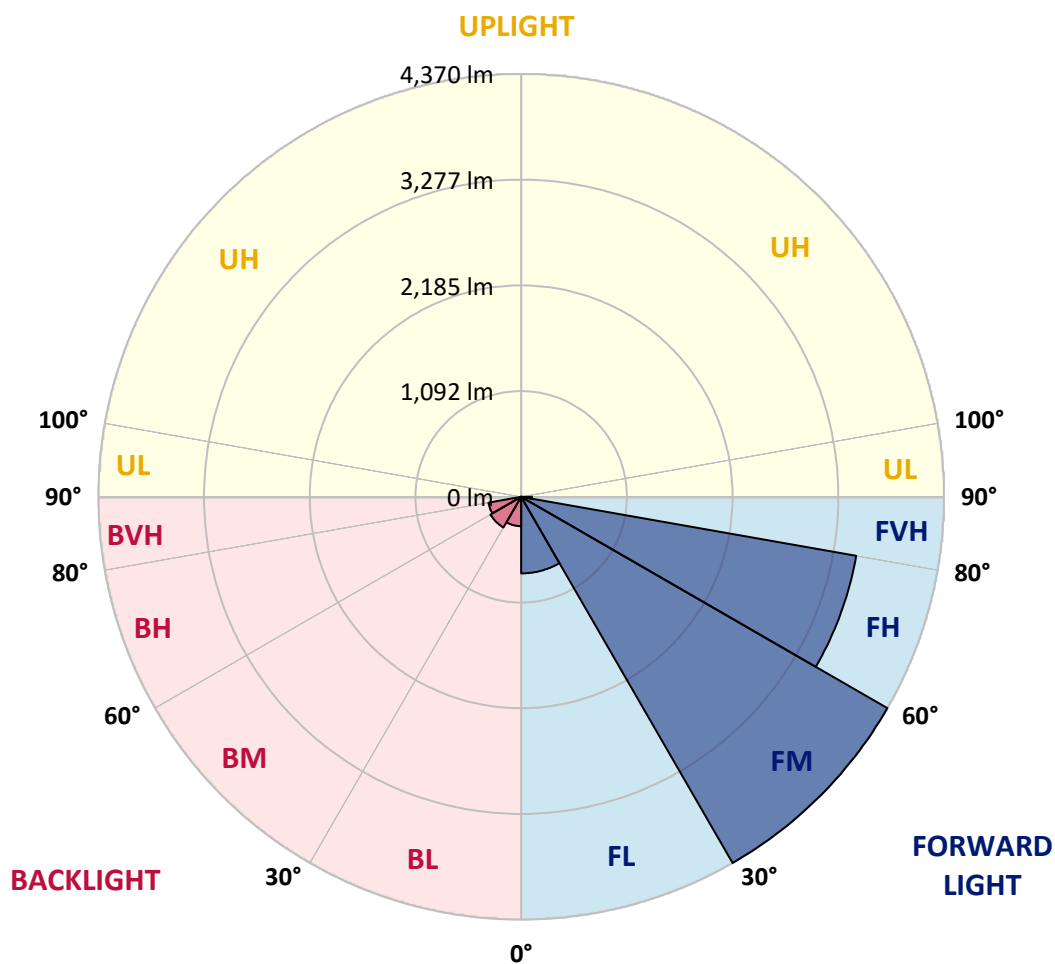
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	791.2	8.1			
FM	(30°-60°)	4369.6	44.6			
FH	(60°-80°)	3515.5	35.9			G2/5000
FVH	(80°-90°)	111.6	1.1			G2/225
BL	(0°-30°)	303.8	3.1	B1/500		
BM	(30°-60°)	365.9	3.7	B1/1000		
BH	(60°-80°)	343.1	3.5	B1/500		G1/500
BVH	(80°-90°)	5.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6
2.5°	2235.8	2240.4	2239.8	2243.2	2251.2	2251.8	2243.7	2228.3	2224.9	2204.9	2170.0
5°	2061.9	2075.1	2083.1	2115.7	2152.2	2196.4	2229.6	2241.5	2239.8	2225.6	2172.9
7.5°	1863.4	1876.6	1885.7	1924.1	1972.7	2048.1	2134.6	2205.5	2211.7	2227.2	2170.6
10°	1731.4	1733.5	1746.1	1782.7	1833.7	1911.0	2013.9	2138.0	2156.9	2213.5	2164.8
12.5°	1622.7	1624.3	1640.9	1680.4	1734.7	1812.5	1920.7	2064.2	2093.4	2196.4	2163.7
15°	1545.4	1551.7	1566.6	1607.7	1665.5	1742.7	1853.7	2009.9	2044.7	2190.1	2174.0
17.5°	1519.8	1526.6	1531.2	1560.8	1613.4	1689.1	1802.8	1974.5	2013.9	2193.5	2194.0
20°	1546.6	1551.7	1541.4	1548.9	1581.5	1649.0	1759.9	1944.1	1991.1	2197.4	2219.8
22.5°	1646.7	1649.0	1620.9	1588.4	1582.6	1619.9	1726.2	1920.0	1970.4	2208.4	2250.1
25°	1818.3	1814.2	1768.6	1698.2	1631.9	1614.7	1706.2	1905.1	1960.1	2219.8	2281.5
27.5°	2025.3	2031.1	1968.0	1865.7	1739.3	1649.0	1703.2	1898.8	1955.5	2227.7	2309.1
30°	2276.9	2285.0	2213.0	2084.2	1902.9	1733.5	1729.5	1897.8	1952.6	2222.6	2311.2
32.5°	2533.8	2543.6	2486.9	2354.2	2121.3	1875.4	1789.1	1910.3	1958.3	2204.9	2298.1
35°	2802.6	2816.4	2778.5	2664.7	2417.7	2080.3	1893.7	1948.7	1985.3	2203.3	2285.0
37.5°	3173.8	3186.4	3115.4	2994.8	2776.3	2354.7	2061.9	2020.7	2048.8	2230.6	2288.4
40°	3728.1	3726.3	3543.3	3358.6	3170.4	2703.7	2298.1	2151.1	2165.5	2313.6	2330.7
42.5°	4332.0	4329.1	4058.6	3777.8	3608.0	3133.2	2608.7	2376.5	2366.8	2466.2	2440.5
45°	4797.6	4796.9	4576.2	4259.9	4134.7	3626.2	3010.2	2690.0	2675.1	2714.5	2643.1
47.5°	4996.1	4999.4	4888.5	4666.1	4718.6	4293.1	3516.4	3144.1	3121.8	3105.7	2997.0
50°	4841.7	4848.5	4857.7	4814.1	5147.1	5189.4	4195.4	3784.1	3773.2	3701.7	3531.9
52.5°	4337.1	4372.1	4479.6	4617.5	5295.8	6049.6	5259.8	4579.1	4520.8	4444.8	4257.6
55°	3487.2	3525.6	3729.8	4064.3	5074.4	6614.7	6751.4	5604.0	5506.8	5279.8	5009.8
57.5°	2307.8	2367.4	2663.7	3089.1	4431.6	6705.7	8239.7	7026.5	6687.9	6066.3	5761.9
60°	1271.6	1328.7	1650.0	2035.6	3200.8	6256.1	9240.5	8878.6	8280.2	6945.3	6675.3
62.5°	783.1	814.0	1051.2	1409.9	1919.5	4937.8	9447.7	11205.8	10513.3	8077.2	7778.7
65°	623.5	636.5	752.7	1152.4	1376.2	2937.0	8779.0	12980.1	12748.9	9447.7	8766.4
67°	605.2	610.3	665.1	989.6	1297.2	1800.6	7354.9	13269.0	13503.4	10277.0	8797.3
67.5°	609.1	614.9	666.9	944.3	1294.9	1654.7	6864.0	13155.0	13451.4	10342.7	8660.6
70°	587.4	605.2	763.6	943.7	1231.4	1374.9	4110.6	11398.1	11706.4	9610.1	7348.6
72.5°	208.1	209.3	329.9	763.6	1339.0	1389.9	2064.2	8355.8	8583.9	7351.4	5298.1
75°	123.5	105.2	109.9	217.3	1279.5	1349.9	1190.9	5339.3	5424.4	4212.5	2683.1
77.5°	85.2	74.4	76.6	96.1	487.3	1331.0	946.0	2784.2	2693.4	1477.4	571.4
80°	48.6	42.8	45.8	84.1	177.3	1241.7	892.2	1129.1	962.7	250.4	157.8
82.5°	25.7	21.6	26.3	69.2	123.5	773.9	894.0	545.6	432.4	84.6	107.5
85°	9.2	7.5	12.5	47.5	82.4	237.3	828.7	458.8	360.3	41.2	81.7
87.5°	1.6	1.6	5.1	19.5	33.1	72.7	490.1	272.2	182.4	24.7	56.1
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°	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6	2162.6
2.5°	2155.8	2131.0	2097.9	2057.4	2009.2	1967.0	1935.5	1902.9	1896.1	1884.6	1882.8
5°	2141.4	2099.1	2016.8	1922.4	1821.8	1730.8	1657.0	1591.2	1562.1	1536.9	1533.9
7.5°	2120.3	2056.8	1916.7	1764.5	1607.2	1464.1	1343.0	1257.2	1178.2	1140.5	1134.7
10°	2095.7	2004.7	1803.9	1593.0	1375.6	1173.6	993.4	842.5	751.1	696.6	689.8
12.5°	2072.7	1953.9	1689.1	1415.0	1126.1	856.3	624.6	480.5	384.4	345.5	340.8
15°	2061.9	1912.6	1581.5	1233.2	865.3	545.1	341.4	264.2	232.8	223.7	223.0
17.5°	2060.8	1877.7	1476.3	1045.0	606.3	316.8	222.5	203.0	196.8	194.5	194.5
20°	2060.3	1844.6	1371.1	849.9	385.0	211.0	185.3	180.6	176.2	173.4	173.4
22.5°	2066.6	1814.8	1261.2	650.9	242.5	170.9	163.0	158.5	152.7	148.7	148.1
25°	2072.7	1791.9	1149.0	463.3	175.6	148.7	140.8	134.3	126.4	121.2	120.7
27.5°	2073.9	1763.4	1029.0	310.1	147.1	129.8	119.6	109.9	100.7	95.5	95.0
30°	2056.8	1715.4	895.7	209.3	129.8	112.6	99.0	88.7	80.0	76.0	76.0
32.5°	2023.1	1655.8	749.2	157.8	115.5	96.7	81.7	72.0	66.4	64.7	64.0
35°	1992.7	1591.7	598.8	133.8	103.6	81.7	67.0	60.6	57.2	56.7	56.1
37.5°	1975.0	1540.4	457.5	121.2	92.0	68.6	56.7	52.0	50.3	49.1	49.8
40°	1988.7	1497.4	338.0	111.0	80.7	57.2	48.1	45.8	44.0	43.5	43.5
42.5°	2048.8	1490.0	251.0	101.8	69.8	47.5	41.7	40.1	38.8	38.3	38.8
45°	2206.6	1535.7	195.0	93.2	58.8	40.1	35.5	34.9	34.3	34.3	34.3
47.5°	2444.0	1630.1	162.5	83.5	49.1	34.3	30.9	30.4	29.7	30.4	30.4
50°	2846.1	1802.8	145.3	73.8	40.7	29.1	26.3	26.3	26.3	26.3	26.9
52.5°	3457.4	2142.5	133.8	64.0	33.1	24.7	22.3	22.3	22.8	22.8	23.4
55°	4138.8	2593.2	123.5	54.3	28.0	20.7	18.2	18.9	19.5	20.0	20.0
57.5°	4877.6	3092.5	115.0	44.6	24.1	16.6	15.5	16.0	16.6	17.7	17.7
60°	5769.4	3633.0	102.3	34.9	20.0	13.1	11.9	13.1	14.9	16.0	16.6
62.5°	6748.5	4155.9	86.3	27.5	16.6	10.3	9.7	11.9	14.4	15.5	16.0
65°	7417.8	4319.9	66.4	22.3	12.5	7.5	8.1	10.9	13.7	15.5	15.5
67°	7146.6	3916.8	54.3	18.9	10.3	5.7	7.5	10.9	13.7	14.9	15.5
67.5°	6958.5	3758.9	52.0	18.2	9.7	5.7	7.5	10.9	13.7	15.5	15.5
70°	5661.8	2823.7	43.5	13.7	8.1	5.1	6.3	10.3	13.1	14.9	14.9
72.5°	3933.9	1741.1	38.8	9.7	6.8	4.6	5.7	9.7	12.5	14.4	14.9
75°	1870.4	630.3	33.1	7.5	6.3	4.0	5.1	9.7	12.5	14.4	14.4
77.5°	381.5	146.5	26.9	6.3	5.1	4.0	4.6	9.2	11.9	13.7	13.7
80°	125.3	56.7	20.0	5.7	5.1	4.0	4.6	8.5	11.9	13.1	13.7
82.5°	90.4	28.6	13.1	5.7	5.1	4.0	4.0	8.5	11.5	13.1	13.1
85°	69.2	20.0	8.5	5.7	5.1	4.0	4.0	8.1	10.9	12.5	12.5
87.5°	45.8	8.1	6.8	5.7	5.1	4.0	4.0	8.1	10.3	11.9	12.5
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)