

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: P199986

Luminaire Tested: **GAP-AF-02-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7030-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10696.5 lumens
Efficiency: N/A
Efficacy: 82.9 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 - 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



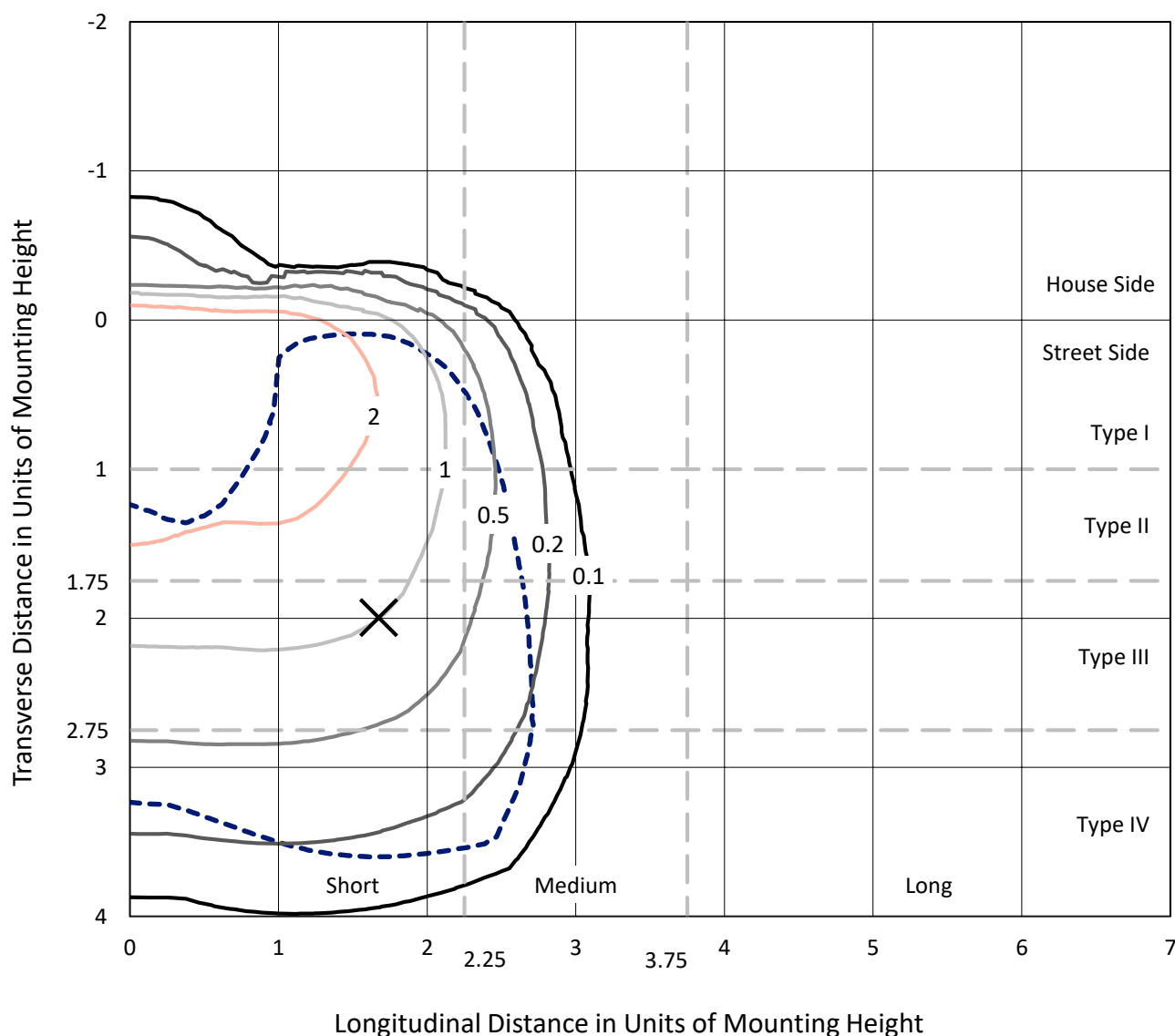
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

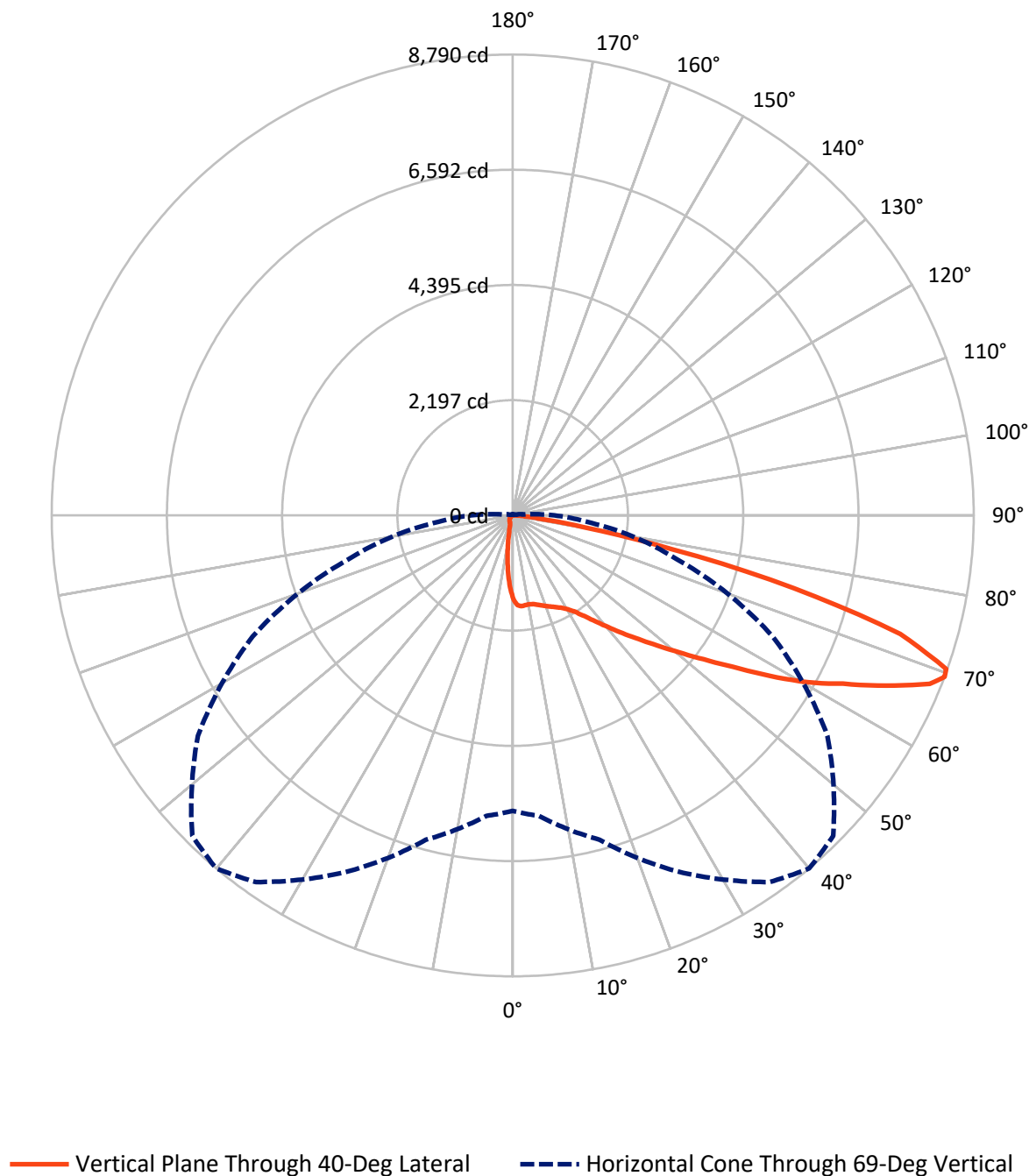


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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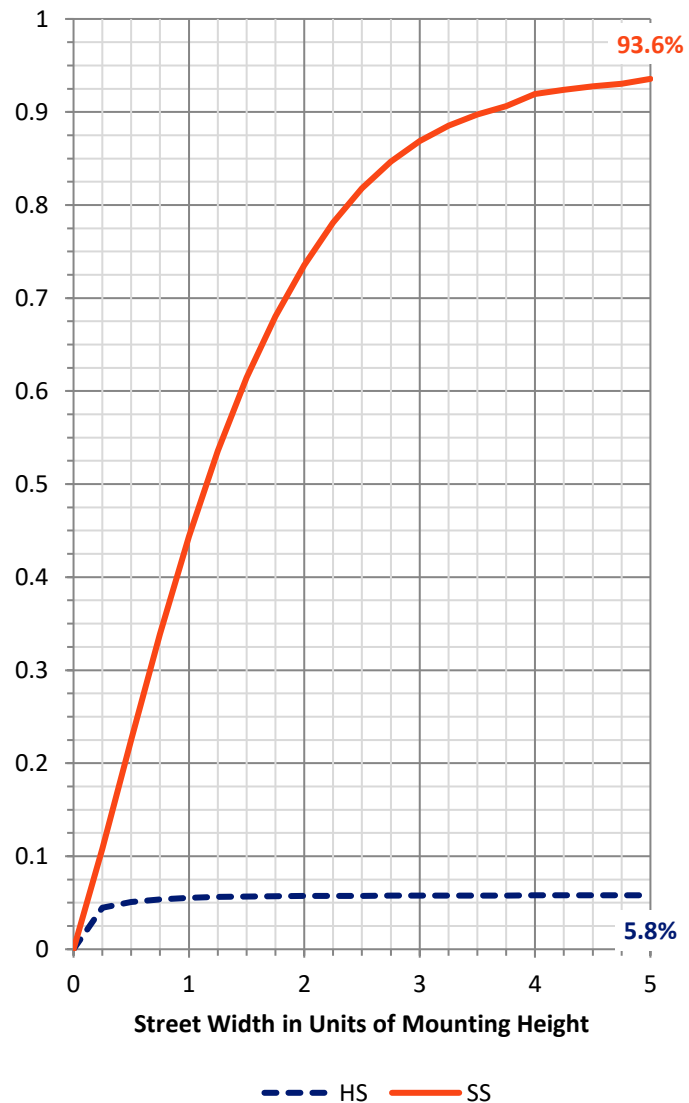
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	625.8	0.0	625.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	10070.7	0.0	10070.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	10696.5	0.0	10696.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.2
10°-20°	318.7	3.0
20°-30°	536.7	5.0
30°-40°	878.6	8.2
40°-50°	1521.3	14.2
50°-60°	2396.2	22.4
60°-70°	3129.3	29.3
70°-80°	1611.7	15.1
80°-90°	174.3	1.6
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°	10696.5	100.0
0°-180°	10696.5	100.0



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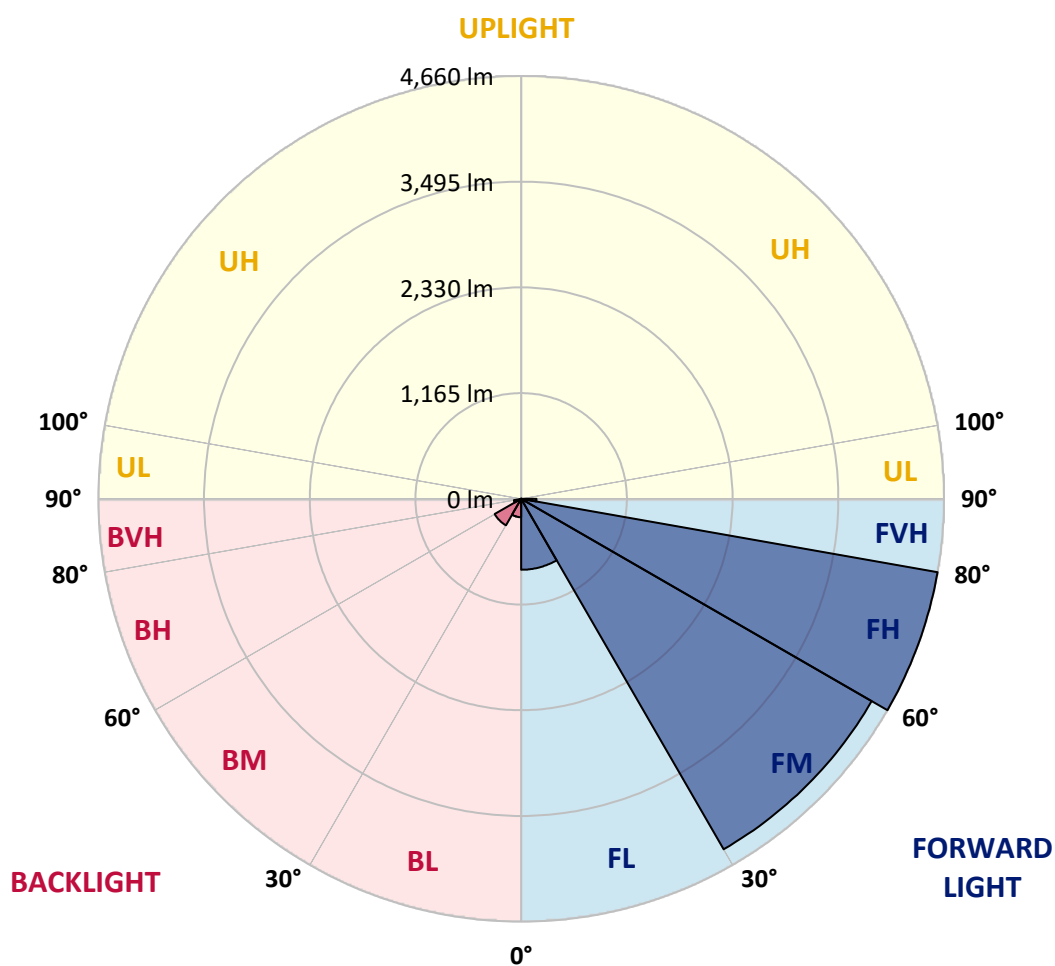
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.2	7.3			
FM	(30°-60°)	4459.8	41.7			
FH	(60°-80°)	4659.8	43.6			G2/5000
FVH	(80°-90°)	168.9	1.6			G2/225
BL	(0°-30°)	202.7	1.9	B1/500		
BM	(30°-60°)	336.4	3.1	B1/1000		
BH	(60°-80°)	81.3	0.8	B0/110		G0/110
BVH	(80°-90°)	5.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1754.7	1745.2	1739.4	1731.9	1722.3	1714.0	1710.8	1687.3	1665.0	1634.4	1599.3
5°	1787.2	1783.9	1773.9	1763.7	1752.2	1739.4	1732.5	1704.5	1672.6	1628.1	1566.9
7.5°	1790.4	1786.6	1773.9	1759.8	1743.9	1728.6	1716.6	1688.5	1659.2	1614.0	1539.6
10°	1785.3	1780.8	1771.3	1756.1	1736.2	1721.6	1709.6	1682.8	1658.0	1617.2	1534.4
12.5°	1779.7	1775.1	1770.6	1763.0	1745.9	1735.6	1725.4	1700.0	1677.6	1643.4	1552.9
15°	1785.3	1782.8	1787.8	1784.6	1775.1	1766.1	1756.1	1733.1	1712.7	1684.0	1586.7
17.5°	1809.5	1809.5	1825.4	1827.4	1818.4	1805.6	1791.0	1768.2	1750.9	1726.8	1626.8
20°	1866.1	1864.3	1884.6	1888.4	1866.8	1847.0	1825.4	1797.5	1783.9	1768.8	1666.2
22.5°	1963.6	1954.6	1966.7	1963.0	1920.2	1889.7	1863.0	1828.6	1821.6	1814.6	1710.1
25°	2090.2	2085.2	2093.4	2055.9	1980.8	1939.4	1907.5	1868.7	1868.7	1875.8	1759.8
27.5°	2274.2	2255.2	2227.1	2160.9	2048.3	1995.4	1960.9	1919.6	1930.5	1956.7	1825.4
30°	2462.7	2441.7	2377.4	2275.6	2130.3	2075.0	2034.9	1991.6	2017.0	2064.8	1913.2
32.5°	2648.7	2625.1	2534.0	2405.5	2248.2	2192.9	2153.9	2106.2	2148.8	2229.1	2041.8
35°	2828.8	2807.9	2702.7	2551.2	2404.8	2359.0	2323.3	2281.9	2336.7	2448.7	2223.3
37.5°	3031.3	3008.4	2880.4	2716.1	2595.1	2562.0	2536.0	2494.6	2590.1	2754.3	2476.2
40°	3280.3	3241.4	3068.9	2905.2	2815.5	2799.5	2781.7	2776.0	2924.4	3151.7	2812.9
42.5°	3565.4	3501.9	3266.3	3104.5	3057.4	3068.9	3064.4	3089.9	3342.7	3645.8	3222.9
45°	3850.8	3768.6	3485.9	3317.2	3323.5	3363.6	3388.4	3490.4	3866.6	4212.4	3664.2
47.5°	4092.7	4011.8	3696.7	3547.0	3623.5	3702.4	3769.9	3962.9	4405.4	4770.2	4007.4
50°	4299.6	4223.2	3920.1	3799.8	3971.7	4099.1	4208.5	4494.5	4984.7	5194.8	4248.0
52.5°	4468.9	4418.0	4151.9	4089.5	4369.6	4556.2	4716.6	5059.1	5497.9	5539.9	4435.3
55°	4633.9	4597.6	4400.9	4434.0	4837.0	5091.1	5294.1	5658.3	5939.8	5827.7	4614.8
57.5°	4823.6	4790.5	4684.8	4870.8	5451.4	5771.1	5992.6	6189.3	6328.8	6121.8	4784.1
60°	5017.1	4998.1	5000.6	5355.9	6156.9	6463.8	6586.0	6637.0	6710.8	6398.8	4793.6
62.5°	5201.9	5238.1	5361.6	5895.8	6832.4	7068.0	7129.7	7180.1	7093.4	6442.7	4428.9
65°	5514.5	5573.7	5868.5	6618.5	7575.4	7827.6	7891.2	7718.7	7154.0	5874.8	3602.4
67.5°	5667.3	5775.5	6301.4	7292.1	8296.2	8576.3	8552.7	7753.7	6419.8	4479.8	2311.8
69°	5635.4	5750.7	6401.4	7498.4	8535.6	8789.6	8640.0	7325.2	5469.2	3245.2	1419.2
70°	5509.3	5625.9	6349.8	7490.7	8566.2	8767.3	8478.3	6796.2	4624.3	2373.0	887.5
72.5°	4600.8	4701.3	5637.3	6770.7	7891.2	7727.6	7092.8	4708.4	2253.3	646.3	200.0
75°	2832.0	2888.0	4044.9	5100.6	5960.1	5539.9	4725.6	2342.4	671.7	182.7	110.8
77.5°	1496.2	1521.7	2214.4	3006.5	3778.1	3126.2	2422.0	913.6	309.4	114.6	80.2
80°	884.4	903.5	1192.6	1374.6	1635.1	1365.7	968.4	560.9	221.6	71.9	71.3
82.5°	506.2	518.3	864.7	764.0	644.3	550.1	482.0	531.6	133.1	48.4	73.9
85°	186.0	188.5	486.4	581.3	383.3	228.0	239.4	440.7	35.6	30.6	57.9
87.5°	86.7	84.6	250.2	355.9	224.1	144.5	186.5	96.8	13.9	19.7	16.0
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°	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1579.1	1555.5	1512.8	1468.9	1424.3	1389.9	1356.1	1329.4	1320.5	1304.0	1305.2
5°	1530.6	1487.3	1398.2	1307.8	1213.6	1135.9	1062.6	1003.4	974.8	945.5	945.5
7.5°	1488.5	1425.7	1286.1	1139.0	986.8	858.9	743.6	657.0	609.3	571.1	570.5
10°	1472.7	1387.4	1192.6	981.8	769.7	595.4	458.5	370.6	325.4	296.1	294.8
12.5°	1479.7	1374.1	1120.6	836.6	570.5	382.6	265.5	208.8	189.8	180.9	180.9
15°	1500.0	1370.2	1048.7	694.7	403.0	239.4	176.4	161.0	159.8	159.8	159.8
17.5°	1524.9	1371.4	974.8	556.4	274.5	171.3	152.2	150.2	151.6	151.6	151.6
20°	1550.4	1372.1	895.2	428.6	193.6	149.0	143.2	142.6	143.9	143.9	144.5
22.5°	1581.5	1375.2	815.6	320.2	159.8	140.7	136.2	136.2	136.9	136.9	136.2
25°	1617.2	1381.6	732.8	237.5	145.8	134.9	131.1	130.6	131.1	130.6	129.9
27.5°	1661.9	1390.6	640.5	186.0	139.5	129.3	126.0	126.0	125.4	124.8	124.1
30°	1717.8	1400.7	536.7	157.9	133.1	124.1	121.0	120.3	119.7	118.4	118.4
32.5°	1803.1	1423.0	434.2	143.2	126.0	117.1	114.6	114.6	113.3	112.1	111.5
35°	1934.3	1467.0	342.5	134.4	118.4	109.5	106.3	106.3	105.1	104.5	103.8
37.5°	2115.7	1533.8	266.1	126.0	110.8	101.3	98.0	97.5	96.1	94.8	94.2
40°	2357.0	1616.6	209.4	118.4	103.1	93.0	90.3	89.1	86.7	84.6	84.6
42.5°	2660.1	1710.8	170.0	110.2	94.2	85.3	83.4	81.5	77.0	75.2	74.6
45°	2977.2	1795.4	143.9	100.6	85.3	77.7	76.4	73.2	67.5	65.5	65.5
47.5°	3205.7	1815.3	126.7	91.7	77.0	69.4	68.8	63.1	57.9	56.7	56.0
50°	3348.4	1776.3	112.6	82.8	69.4	61.7	59.9	52.9	49.7	48.4	47.7
52.5°	3444.5	1706.9	101.3	75.2	62.4	54.7	50.3	45.3	42.6	41.4	41.4
55°	3521.5	1609.0	89.8	68.2	56.7	49.0	42.6	38.8	36.3	35.1	35.1
57.5°	3543.2	1475.9	78.3	62.4	51.0	43.2	36.3	33.8	30.6	29.9	29.9
60°	3386.0	1235.8	69.4	55.4	45.9	37.5	31.8	28.6	25.4	24.8	24.1
62.5°	2971.5	956.3	61.0	49.0	40.1	32.4	27.5	23.6	21.0	21.0	21.0
65°	2266.7	641.2	53.5	42.6	35.1	27.5	23.6	19.1	17.8	17.8	18.5
67.5°	1356.8	348.9	45.9	36.3	29.9	23.0	19.7	16.6	16.0	16.6	16.6
69°	795.2	205.0	41.4	32.4	26.1	20.3	17.2	14.6	16.0	16.6	16.6
70°	490.9	138.2	38.2	29.3	23.6	18.5	16.0	13.9	15.3	16.0	16.0
72.5°	136.9	71.3	30.6	23.0	19.1	15.3	12.8	12.8	14.6	15.3	15.3
75°	89.1	52.9	23.6	17.2	14.6	12.1	10.8	12.1	13.9	14.6	14.6
77.5°	73.9	43.2	19.1	13.9	12.1	11.5	10.2	10.8	12.8	13.3	13.3
80°	67.5	30.6	15.3	12.8	10.8	10.2	9.5	9.0	11.5	12.1	12.1
82.5°	64.4	24.1	13.3	11.5	10.2	9.0	8.3	9.0	10.2	10.8	11.5
85°	40.1	16.0	12.1	10.8	9.0	8.3	8.3	8.3	9.5	10.2	10.2
87.5°	14.6	12.8	10.8	9.0	7.6	7.6	7.6	7.6	8.3	9.5	9.5
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)