

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: P269887

Luminaire Tested: **GAP-AF-02-LED-U-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269887
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-SL4-7027-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 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: 9608.7 lumens
Efficiency: N/A
Efficacy: 74.5 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



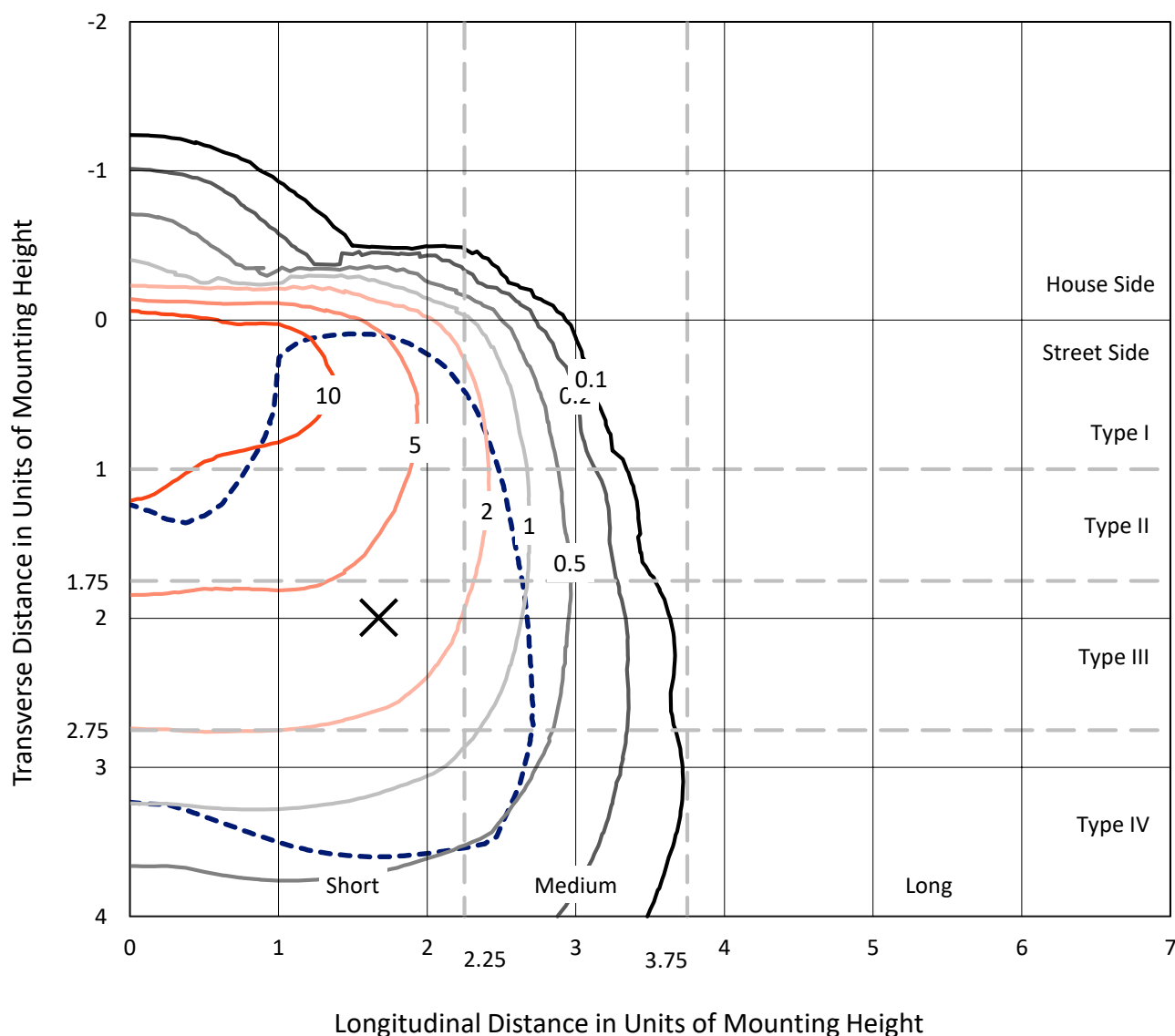
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

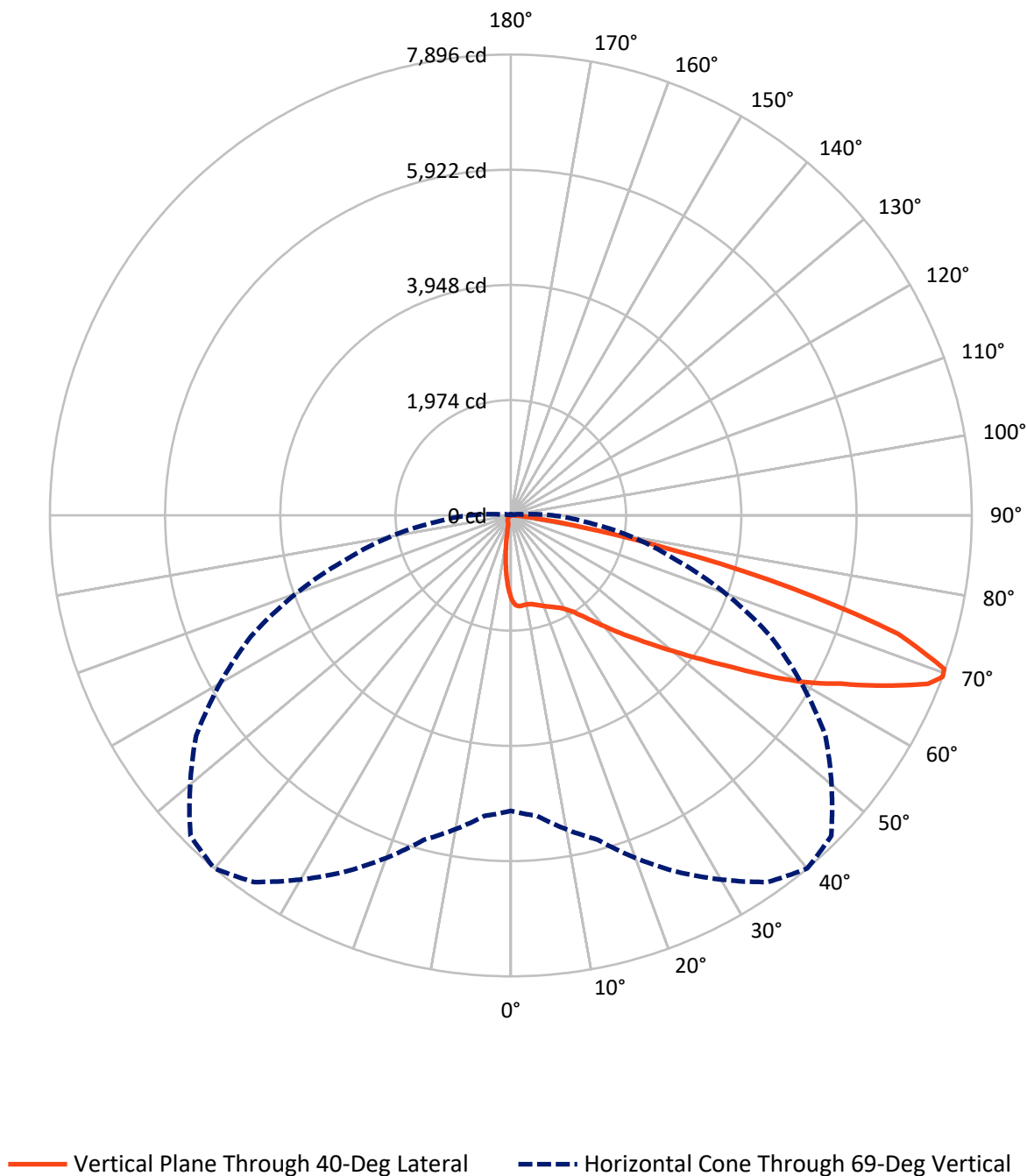


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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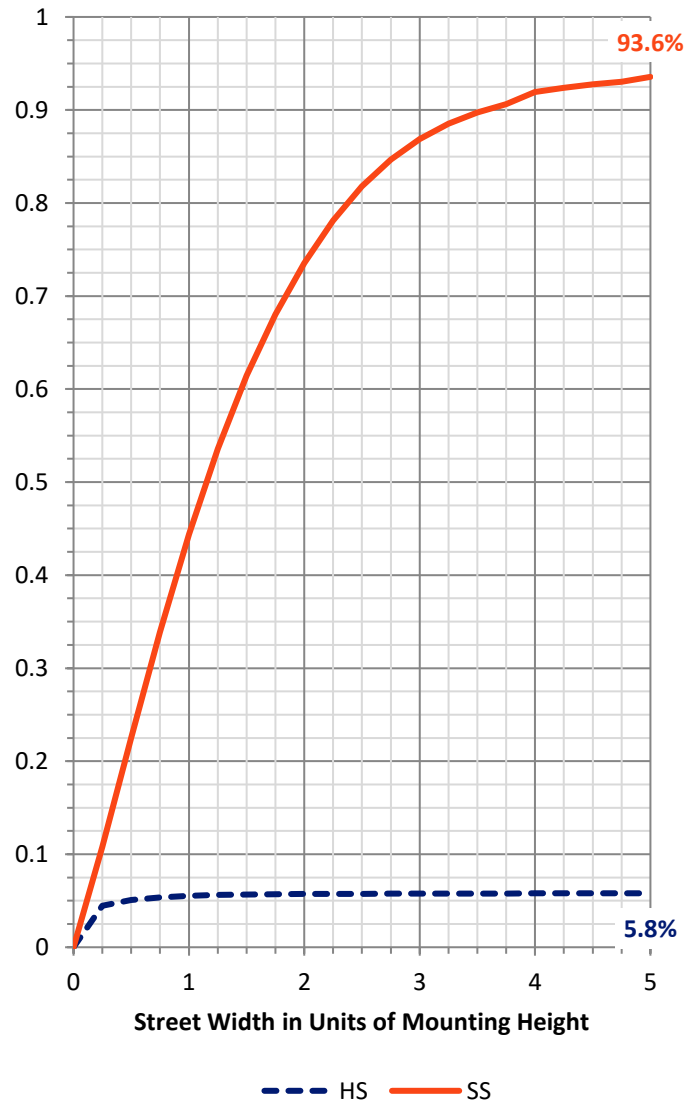
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	562.2	0.0	562.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	9046.6	0.0	9046.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	9608.7	0.0	9608.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	1.2
10°-20°	286.2	3.0
20°-30°	482.1	5.0
30°-40°	789.3	8.2
40°-50°	1366.6	14.2
50°-60°	2152.5	22.4
60°-70°	2811.1	29.3
70°-80°	1447.8	15.1
80°-90°	156.6	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°	9608.7	100.0
0°-180°	9608.7	100.0

Coefficient of Utilization



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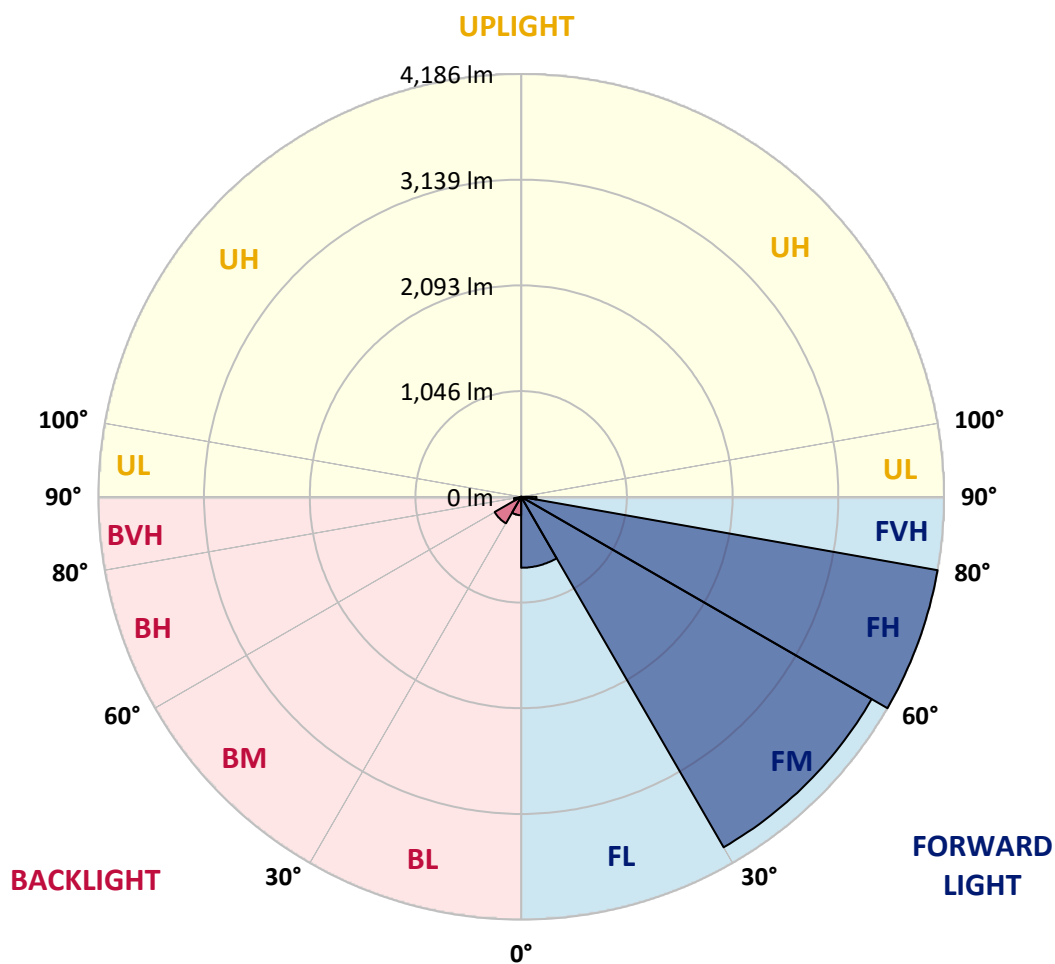
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	702.7	7.3			
FM	(30°-60°)	4006.2	41.7			
FH	(60°-80°)	4186.0	43.6			G2/5000
FVH	(80°-90°)	151.7	1.6			G2/225
BL	(0°-30°)	182.1	1.9	B1/500		
BM	(30°-60°)	302.1	3.1	B1/1000		
BH	(60°-80°)	73.0	0.8	B0/110		G0/110
BVH	(80°-90°)	4.9	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°	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6
2.5°	1576.3	1567.7	1562.5	1555.8	1547.2	1539.7	1536.8	1515.7	1495.7	1468.2	1436.7
5°	1605.5	1602.5	1593.5	1584.3	1574.0	1562.5	1556.3	1531.2	1502.5	1462.5	1407.6
7.5°	1608.3	1604.9	1593.5	1580.8	1566.6	1552.8	1542.0	1516.8	1490.5	1449.9	1383.0
10°	1603.7	1599.7	1591.2	1577.5	1559.6	1546.5	1535.7	1511.7	1489.4	1452.7	1378.4
12.5°	1598.7	1594.6	1590.5	1583.7	1568.4	1559.1	1549.9	1527.1	1507.0	1476.3	1395.0
15°	1603.7	1601.5	1606.0	1603.1	1594.6	1586.5	1577.5	1556.9	1538.5	1512.7	1425.3
17.5°	1625.5	1625.5	1639.8	1641.6	1633.5	1622.0	1608.9	1588.4	1572.8	1551.2	1461.4
20°	1676.3	1674.7	1692.9	1696.4	1677.0	1659.2	1639.8	1614.7	1602.5	1588.9	1496.8
22.5°	1763.9	1755.8	1766.7	1763.4	1724.9	1697.5	1673.5	1642.6	1636.4	1630.1	1536.2
25°	1877.6	1873.1	1880.5	1846.8	1779.4	1742.2	1713.5	1678.7	1678.7	1685.0	1580.8
27.5°	2042.9	2025.9	2000.6	1941.1	1840.0	1792.5	1761.5	1724.4	1734.2	1757.7	1639.8
30°	2212.3	2193.4	2135.6	2044.2	1913.7	1864.0	1828.0	1789.1	1811.9	1854.8	1718.6
32.5°	2379.3	2358.1	2276.3	2160.9	2019.6	1969.9	1934.9	1892.0	1930.3	2002.4	1834.2
35°	2541.1	2522.4	2427.8	2291.8	2160.2	2119.1	2087.0	2049.8	2099.1	2199.7	1997.2
37.5°	2723.0	2702.5	2587.5	2439.9	2331.2	2301.5	2278.1	2240.9	2326.7	2474.2	2224.4
40°	2946.7	2911.8	2756.8	2609.8	2529.2	2514.8	2498.8	2493.7	2627.0	2831.2	2526.8
42.5°	3202.8	3145.8	2934.1	2788.8	2746.5	2756.8	2752.8	2775.7	3002.8	3275.0	2895.1
45°	3459.2	3385.4	3131.4	2979.9	2985.5	3021.5	3043.8	3135.4	3473.4	3784.0	3291.6
47.5°	3676.5	3603.8	3320.8	3186.3	3255.0	3325.9	3386.5	3559.9	3957.4	4285.1	3599.9
50°	3862.4	3793.7	3521.4	3413.4	3567.8	3682.2	3780.5	4037.4	4477.8	4666.5	3816.0
52.5°	4014.4	3968.7	3729.7	3673.6	3925.2	4092.9	4236.9	4544.6	4938.8	4976.5	3984.3
55°	4162.7	4130.0	3953.4	3983.1	4345.1	4573.4	4755.7	5082.9	5335.8	5235.1	4145.5
57.5°	4333.1	4303.3	4208.4	4375.5	4897.0	5184.2	5383.2	5559.9	5685.2	5499.2	4297.6
60°	4506.9	4489.8	4492.1	4811.2	5530.8	5806.5	5916.2	5962.1	6028.3	5748.1	4306.1
62.5°	4672.9	4705.4	4816.4	5296.2	6137.6	6349.2	6404.6	6449.9	6372.0	5787.5	3978.5
65°	4953.7	5006.9	5271.7	5945.4	6805.0	7031.6	7088.7	6933.7	6426.5	5277.4	3236.1
67.5°	5091.0	5188.2	5660.6	6550.5	7452.5	7704.1	7682.9	6965.2	5766.9	4024.2	2076.7
69°	5062.3	5165.9	5750.4	6735.9	7667.6	7895.7	7761.4	6580.3	4913.0	2915.2	1274.9
70°	4949.0	5053.8	5704.1	6728.9	7695.1	7875.7	7616.1	6105.1	4154.0	2131.7	797.2
72.5°	4132.9	4223.2	5064.0	6082.2	7088.7	6941.7	6371.5	4229.6	2024.2	580.6	179.7
75°	2544.0	2594.3	3633.6	4581.9	5354.0	4976.5	4245.0	2104.2	603.4	164.1	99.5
77.5°	1344.0	1367.0	1989.2	2700.8	3393.9	2808.3	2175.7	820.7	277.9	102.9	72.0
80°	794.5	811.6	1071.3	1234.8	1468.8	1226.8	869.9	503.9	199.1	64.6	64.0
82.5°	454.7	465.6	776.8	686.3	578.8	494.2	433.0	477.5	119.6	43.5	66.4
85°	167.1	169.3	436.9	522.2	344.3	204.8	215.1	395.9	32.0	27.5	52.0
87.5°	77.9	76.0	224.8	319.7	201.3	129.8	167.5	87.0	12.5	17.7	14.4
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°	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6
2.5°	1418.5	1397.3	1359.0	1319.5	1279.5	1248.6	1218.2	1194.2	1186.2	1171.4	1172.5
5°	1374.9	1336.0	1256.0	1174.8	1090.2	1020.4	954.5	901.4	875.7	849.3	849.3
7.5°	1337.1	1280.7	1155.3	1023.2	886.4	771.6	668.0	590.2	547.3	513.0	512.5
10°	1322.9	1246.3	1071.3	882.0	691.4	534.9	411.9	332.9	292.3	266.0	264.8
12.5°	1329.2	1234.4	1006.6	751.5	512.5	343.7	238.5	187.6	170.5	162.5	162.5
15°	1347.5	1230.9	942.1	624.1	362.0	215.1	158.5	144.6	143.5	143.5	143.5
17.5°	1369.8	1231.9	875.7	499.8	246.6	153.9	136.7	134.9	136.2	136.2	136.2
20°	1392.7	1232.6	804.2	385.0	173.9	133.8	128.6	128.1	129.3	129.3	129.8
22.5°	1420.7	1235.3	732.7	287.6	143.5	126.4	122.3	122.3	123.0	123.0	122.3
25°	1452.7	1241.1	658.3	213.3	131.0	121.2	117.8	117.3	117.8	117.3	116.7
27.5°	1492.9	1249.2	575.4	167.1	125.3	116.2	113.2	113.2	112.6	112.1	111.5
30°	1543.1	1258.3	482.1	141.8	119.6	111.5	108.7	108.1	107.5	106.4	106.4
32.5°	1619.7	1278.3	390.0	128.6	113.2	105.2	102.9	102.9	101.8	100.7	100.2
35°	1737.6	1317.8	307.7	120.7	106.4	98.4	95.5	95.5	94.4	93.9	93.2
37.5°	1900.5	1377.8	239.0	113.2	99.5	91.0	88.0	87.6	86.3	85.2	84.6
40°	2117.3	1452.2	188.1	106.4	92.6	83.5	81.1	80.0	77.9	76.0	76.0
42.5°	2389.6	1536.8	152.7	99.0	84.6	76.6	74.9	73.2	69.2	67.6	67.0
45°	2674.4	1612.8	129.3	90.4	76.6	69.8	68.6	65.8	60.6	58.8	58.8
47.5°	2879.7	1630.7	113.8	82.4	69.2	62.3	61.8	56.7	52.0	50.9	50.3
50°	3007.9	1595.7	101.1	74.4	62.3	55.4	53.8	47.5	44.6	43.5	42.8
52.5°	3094.2	1533.3	91.0	67.6	56.1	49.1	45.2	40.7	38.3	37.2	37.2
55°	3163.4	1445.4	80.7	61.3	50.9	44.0	38.3	34.9	32.6	31.5	31.5
57.5°	3182.9	1325.8	70.3	56.1	45.8	38.8	32.6	30.4	27.5	26.9	26.9
60°	3041.7	1110.1	62.3	49.8	41.2	33.7	28.6	25.7	22.8	22.3	21.6
62.5°	2669.3	859.0	54.8	44.0	36.0	29.1	24.7	21.2	18.9	18.9	18.9
65°	2036.2	576.0	48.1	38.3	31.5	24.7	21.2	17.2	16.0	16.0	16.6
67.5°	1218.8	313.4	41.2	32.6	26.9	20.7	17.7	14.9	14.4	14.9	14.9
69°	714.3	184.2	37.2	29.1	23.4	18.2	15.5	13.1	14.4	14.9	14.9
70°	441.0	124.1	34.3	26.3	21.2	16.6	14.4	12.5	13.7	14.4	14.4
72.5°	123.0	64.0	27.5	20.7	17.2	13.7	11.5	11.5	13.1	13.7	13.7
75°	80.0	47.5	21.2	15.5	13.1	10.9	9.7	10.9	12.5	13.1	13.1
77.5°	66.4	38.8	17.2	12.5	10.9	10.3	9.2	9.7	11.5	11.9	11.9
80°	60.6	27.5	13.7	11.5	9.7	9.2	8.5	8.1	10.3	10.9	10.9
82.5°	57.9	21.6	11.9	10.3	9.2	8.1	7.5	8.1	9.2	9.7	10.3
85°	36.0	14.4	10.9	9.7	8.1	7.5	7.5	7.5	8.5	9.2	9.2
87.5°	13.1	11.5	9.7	8.1	6.8	6.8	6.8	6.8	7.5	8.5	8.5
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)