

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: P199982

Luminaire Tested: **GAP-AF-02-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199982
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-SL4-7030-800-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 7878.7 lumens
Efficiency: N/A
Efficacy: 91.6 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): 86
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

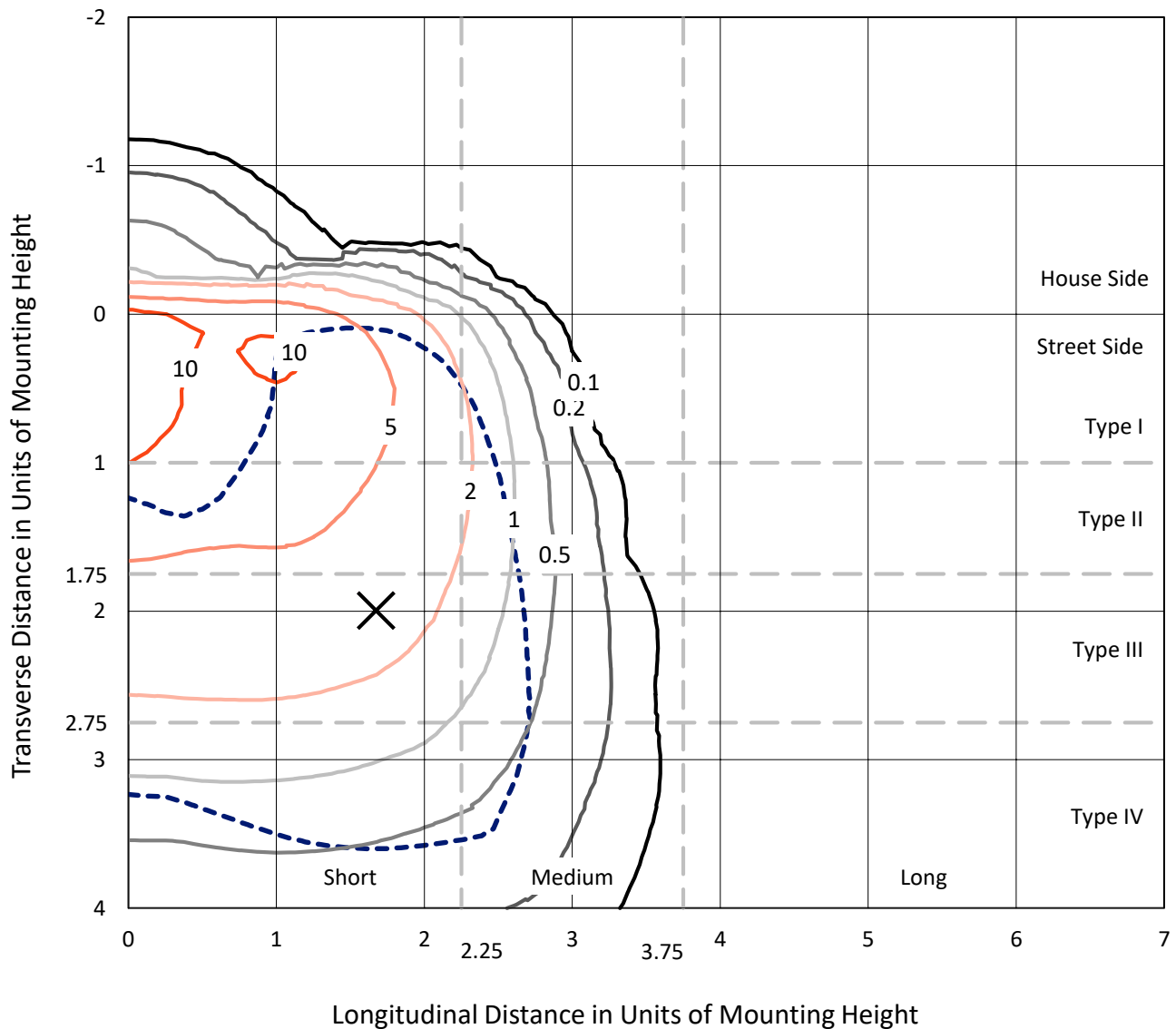


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

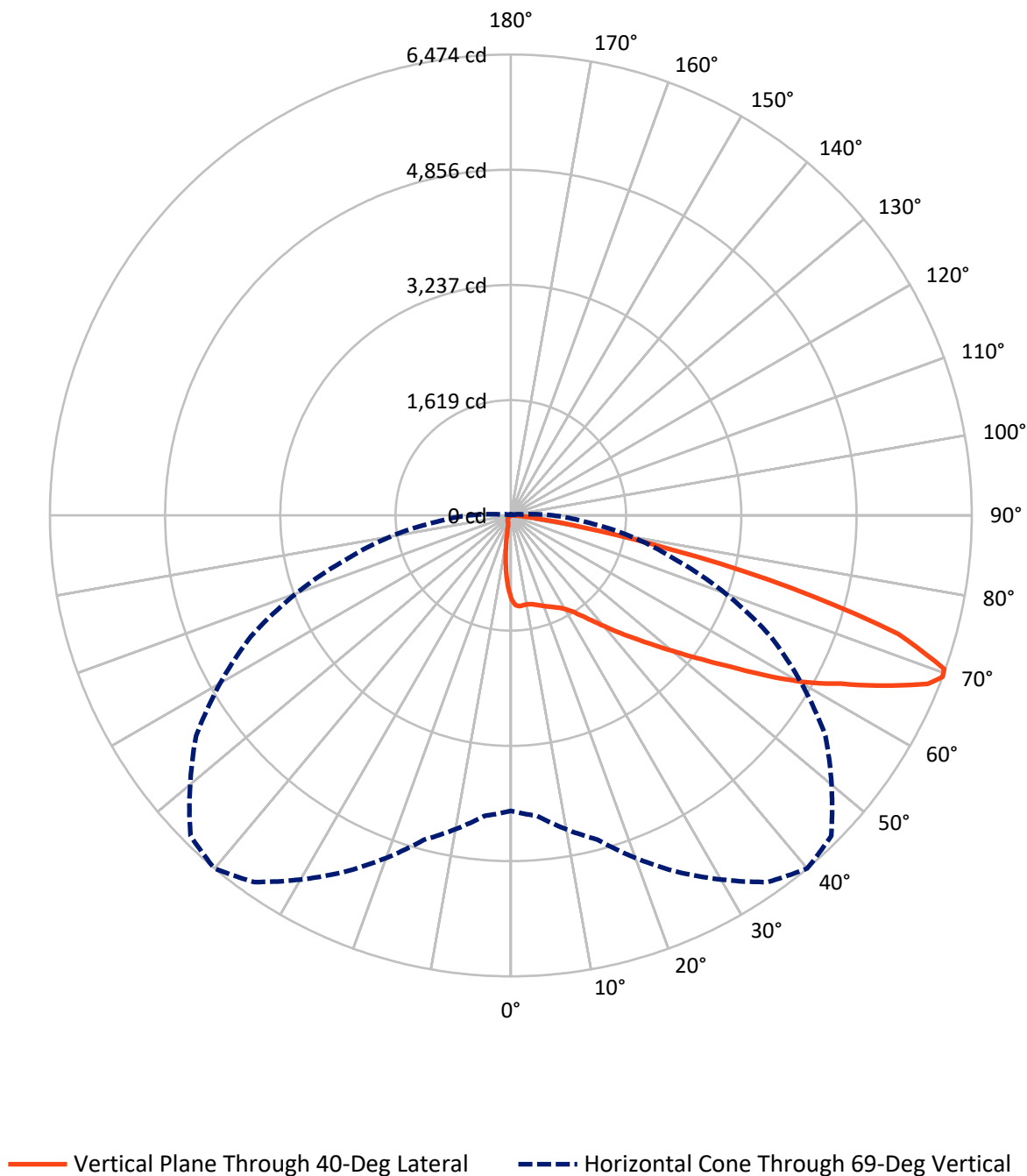


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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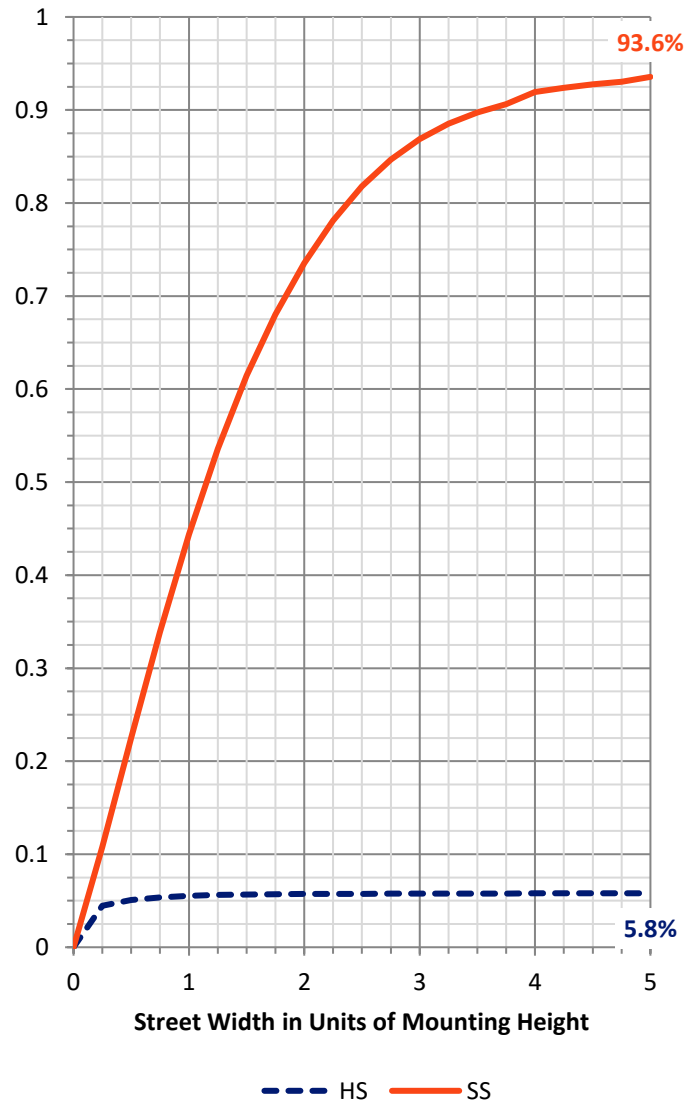
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.0	0.0	461.0
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	7417.7	0.0	7417.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	7878.7	0.0	7878.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	1.2
10°-20°	234.7	3.0
20°-30°	395.3	5.0
30°-40°	647.2	8.2
40°-50°	1120.5	14.2
50°-60°	1765.0	22.4
60°-70°	2305.0	29.3
70°-80°	1187.2	15.1
80°-90°	128.4	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°	7878.7	100.0
0°-180°	7878.7	100.0



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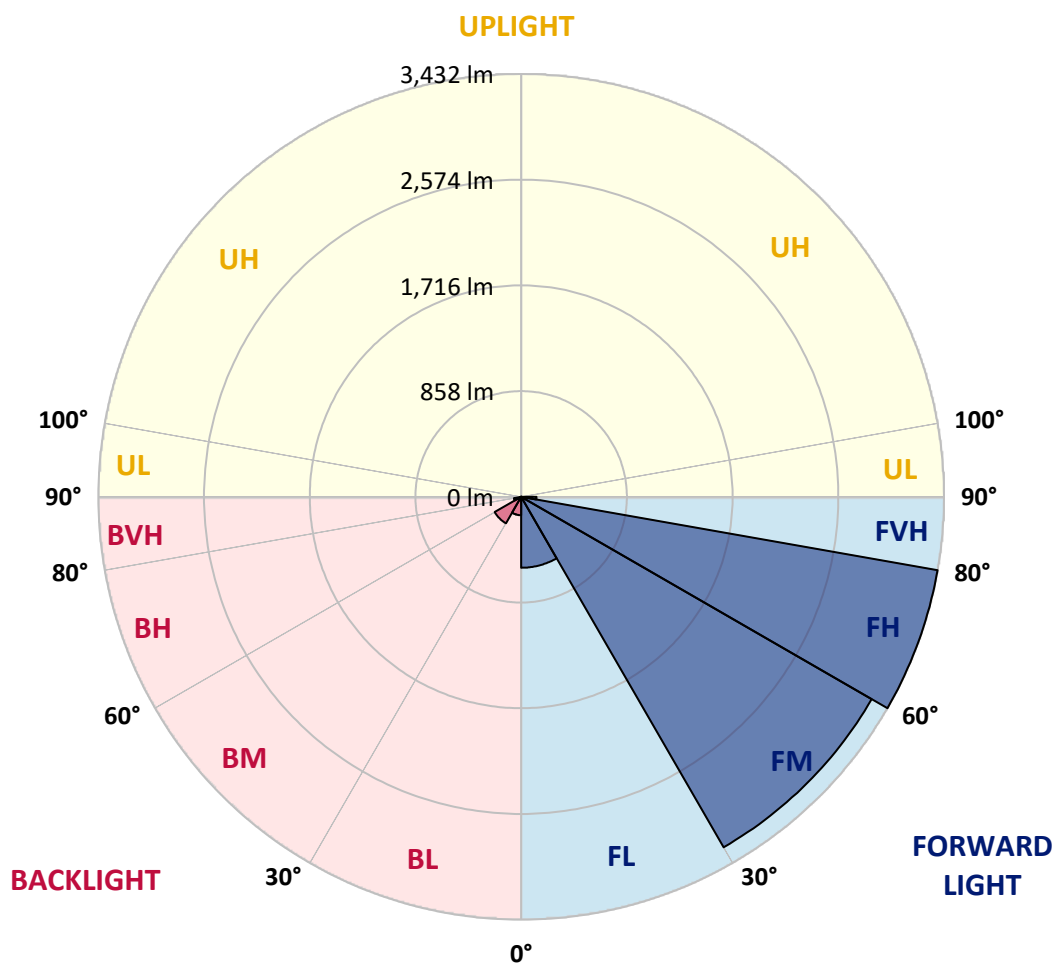
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.2	7.3			
FM	(30°-60°)	3284.9	41.7			
FH	(60°-80°)	3432.3	43.6			G2/5000
FVH	(80°-90°)	124.4	1.6			G2/225
BL	(0°-30°)	149.3	1.9	B1/500		
BM	(30°-60°)	247.7	3.1	B1/1000		
BH	(60°-80°)	59.9	0.8	B0/110		G0/110
BVH	(80°-90°)	4.0	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°	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2
2.5°	1292.5	1285.4	1281.2	1275.6	1268.6	1262.5	1260.1	1242.9	1226.3	1203.8	1178.1
5°	1316.3	1314.1	1306.5	1299.1	1290.6	1281.2	1276.0	1255.4	1232.0	1199.1	1154.1
7.5°	1318.8	1315.9	1306.5	1296.3	1284.6	1273.3	1264.3	1243.7	1222.2	1188.8	1134.0
10°	1315.1	1311.6	1304.7	1293.4	1278.9	1268.1	1259.2	1239.4	1221.2	1191.2	1130.2
12.5°	1310.8	1307.5	1304.2	1298.5	1285.9	1278.5	1270.9	1252.1	1235.7	1210.4	1143.8
15°	1315.1	1313.1	1316.9	1314.5	1307.5	1301.0	1293.4	1276.5	1261.5	1240.4	1168.6
17.5°	1332.9	1332.9	1344.6	1346.0	1339.4	1330.0	1319.2	1302.4	1289.7	1271.9	1198.2
20°	1374.6	1373.2	1388.1	1391.0	1375.0	1360.5	1344.6	1323.9	1314.1	1302.8	1227.3
22.5°	1446.3	1439.7	1448.7	1445.8	1414.4	1391.9	1372.2	1346.8	1341.7	1336.6	1259.6
25°	1539.7	1535.8	1541.9	1514.4	1458.9	1428.4	1405.1	1376.4	1376.4	1381.6	1296.3
27.5°	1675.2	1661.1	1640.4	1591.7	1508.7	1469.7	1444.4	1414.0	1421.9	1441.1	1344.6
30°	1814.0	1798.5	1751.1	1676.1	1569.2	1528.4	1498.8	1467.0	1485.7	1520.9	1409.2
32.5°	1951.0	1933.6	1866.4	1771.7	1656.0	1615.2	1586.6	1551.4	1582.7	1641.8	1504.0
35°	2083.7	2068.2	1990.8	1879.2	1771.3	1737.5	1711.3	1680.9	1721.2	1803.7	1637.7
37.5°	2232.8	2215.9	2121.6	2000.6	1911.5	1887.1	1867.9	1837.4	1907.7	2028.7	1823.9
40°	2416.2	2387.6	2260.5	2140.0	2073.7	2062.0	2048.9	2044.7	2153.9	2321.4	2071.9
42.5°	2626.3	2579.4	2405.8	2286.7	2252.0	2260.5	2257.2	2275.9	2462.0	2685.4	2373.8
45°	2836.4	2775.8	2567.6	2443.4	2448.1	2477.6	2495.8	2570.9	2848.1	3102.8	2698.9
47.5°	3014.6	2955.0	2722.8	2612.6	2668.8	2727.1	2776.9	2918.9	3244.8	3513.6	2951.7
50°	3167.0	3110.7	2887.5	2798.7	2925.4	3019.3	3099.9	3310.4	3671.5	3826.4	3128.9
52.5°	3291.7	3254.2	3058.1	3012.2	3218.6	3356.0	3474.1	3726.4	4049.5	4080.5	3266.9
55°	3413.2	3386.5	3241.5	3265.9	3562.7	3749.9	3899.5	4167.7	4375.1	4292.5	3399.0
57.5°	3552.9	3528.5	3450.7	3587.6	4015.3	4250.7	4414.0	4558.9	4661.5	4509.1	3523.8
60°	3695.4	3681.4	3683.3	3945.1	4535.0	4761.0	4851.0	4888.6	4943.0	4713.1	3530.9
62.5°	3831.5	3858.3	3949.1	4342.6	5032.5	5206.1	5251.5	5288.5	5224.8	4745.5	3262.2
65°	4061.7	4105.4	4322.6	4874.9	5579.8	5765.5	5812.4	5685.3	5269.3	4327.2	2653.5
67.5°	4174.4	4254.0	4641.5	5371.0	6110.7	6317.1	6299.7	5711.1	4728.6	3299.6	1702.8
69°	4150.9	4235.8	4715.1	5523.0	6287.0	6474.1	6364.0	5395.6	4028.5	2390.4	1045.3
70°	4058.0	4143.8	4677.1	5517.5	6309.5	6457.8	6244.8	5005.8	3406.1	1747.8	653.7
72.5°	3388.7	3462.9	4152.3	4987.0	5812.4	5691.9	5224.3	3468.0	1659.6	476.1	147.3
75°	2086.0	2127.3	2979.4	3756.9	4390.0	4080.5	3480.7	1725.3	494.7	134.6	81.6
77.5°	1102.1	1120.9	1631.1	2214.4	2782.9	2302.6	1783.9	672.9	228.0	84.4	59.1
80°	651.4	665.5	878.3	1012.5	1204.4	1006.0	713.4	413.1	163.3	53.0	52.6
82.5°	372.8	381.8	636.9	562.8	474.6	405.3	355.0	391.5	98.0	35.6	54.4
85°	136.9	138.9	358.3	428.2	282.3	167.9	176.4	324.5	26.2	22.5	42.7
87.5°	63.8	62.4	184.3	262.1	165.1	106.4	137.4	71.2	10.3	14.5	11.7
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°	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2	1177.2
2.5°	1163.1	1145.7	1114.2	1081.8	1049.1	1023.8	998.9	979.2	972.6	960.5	961.4
5°	1127.4	1095.6	1029.9	963.2	893.8	836.6	782.8	739.1	718.0	696.4	696.4
7.5°	1096.4	1050.0	947.3	839.0	726.9	632.6	547.7	484.0	448.8	420.6	420.2
10°	1084.7	1021.9	878.3	723.2	566.9	438.4	337.6	272.9	239.6	218.1	217.1
12.5°	1089.9	1012.1	825.4	616.2	420.2	281.9	195.6	153.8	139.8	133.2	133.2
15°	1104.9	1009.2	772.4	511.7	296.8	176.4	129.9	118.6	117.7	117.7	117.7
17.5°	1123.1	1010.2	718.0	409.8	202.1	126.2	112.1	110.7	111.7	111.7	111.7
20°	1142.0	1010.6	659.4	315.6	142.6	109.7	105.6	105.0	106.0	106.0	106.4
22.5°	1164.9	1013.0	600.7	235.9	117.7	103.7	100.4	100.4	100.8	100.8	100.4
25°	1191.2	1017.6	539.7	175.0	107.4	99.4	96.5	96.1	96.5	96.1	95.7
27.5°	1224.0	1024.2	471.8	136.9	102.7	95.2	92.9	92.9	92.5	91.9	91.4
30°	1265.3	1031.7	395.3	116.3	98.0	91.4	89.1	88.6	88.2	87.2	87.2
32.5°	1328.1	1048.2	319.8	105.6	92.9	86.4	84.4	84.4	83.5	82.5	82.1
35°	1424.7	1080.5	252.3	99.0	87.2	80.7	78.3	78.3	77.3	76.9	76.5
37.5°	1558.4	1129.7	196.0	92.9	81.6	74.6	72.2	71.8	70.8	69.9	69.4
40°	1736.1	1190.7	154.3	87.2	75.9	68.5	66.6	65.7	63.8	62.4	62.4
42.5°	1959.3	1260.1	125.2	81.2	69.4	62.9	61.4	60.0	56.7	55.2	54.8
45°	2193.0	1322.5	106.0	74.1	62.9	57.3	56.3	54.0	49.7	48.3	48.3
47.5°	2361.3	1337.0	93.3	67.5	56.7	51.2	50.7	46.4	42.7	41.7	41.3
50°	2466.3	1308.4	83.0	60.9	51.2	45.5	44.0	38.9	36.6	35.6	35.2
52.5°	2537.1	1257.3	74.6	55.2	46.0	40.3	37.0	33.4	31.4	30.5	30.5
55°	2594.0	1185.1	66.1	50.1	41.7	36.2	31.4	28.6	26.8	25.7	25.7
57.5°	2609.7	1087.0	57.7	46.0	37.4	31.9	26.8	24.8	22.5	22.1	22.1
60°	2494.0	910.2	51.2	40.8	33.8	27.7	23.5	21.1	18.8	18.2	17.8
62.5°	2188.7	704.4	45.1	36.2	29.5	23.9	20.2	17.4	15.6	15.6	15.6
65°	1669.5	472.2	39.5	31.4	25.7	20.2	17.4	14.1	13.1	13.1	13.5
67.5°	999.4	257.0	33.8	26.8	22.1	16.9	14.5	12.2	11.7	12.2	12.2
69°	585.7	151.0	30.5	23.9	19.2	15.0	12.7	10.8	11.7	12.2	12.2
70°	361.5	101.7	28.2	21.6	17.4	13.5	11.7	10.3	11.3	11.7	11.7
72.5°	100.8	52.6	22.5	16.9	14.1	11.3	9.4	9.4	10.8	11.3	11.3
75°	65.7	38.9	17.4	12.7	10.8	9.0	7.9	9.0	10.3	10.8	10.8
77.5°	54.4	31.9	14.1	10.3	9.0	8.4	7.5	7.9	9.4	9.9	9.9
80°	49.7	22.5	11.3	9.4	7.9	7.5	7.0	6.5	8.4	9.0	9.0
82.5°	47.4	17.8	9.9	8.4	7.5	6.5	6.1	6.5	7.5	7.9	8.4
85°	29.5	11.7	9.0	7.9	6.5	6.1	6.1	6.1	7.0	7.5	7.5
87.5°	10.8	9.4	7.9	6.5	5.7	5.7	5.7	5.7	6.1	7.0	7.0
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)