

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: P200046

Luminaire Tested: **GAP-AF-02-LED-U-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9765.6 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

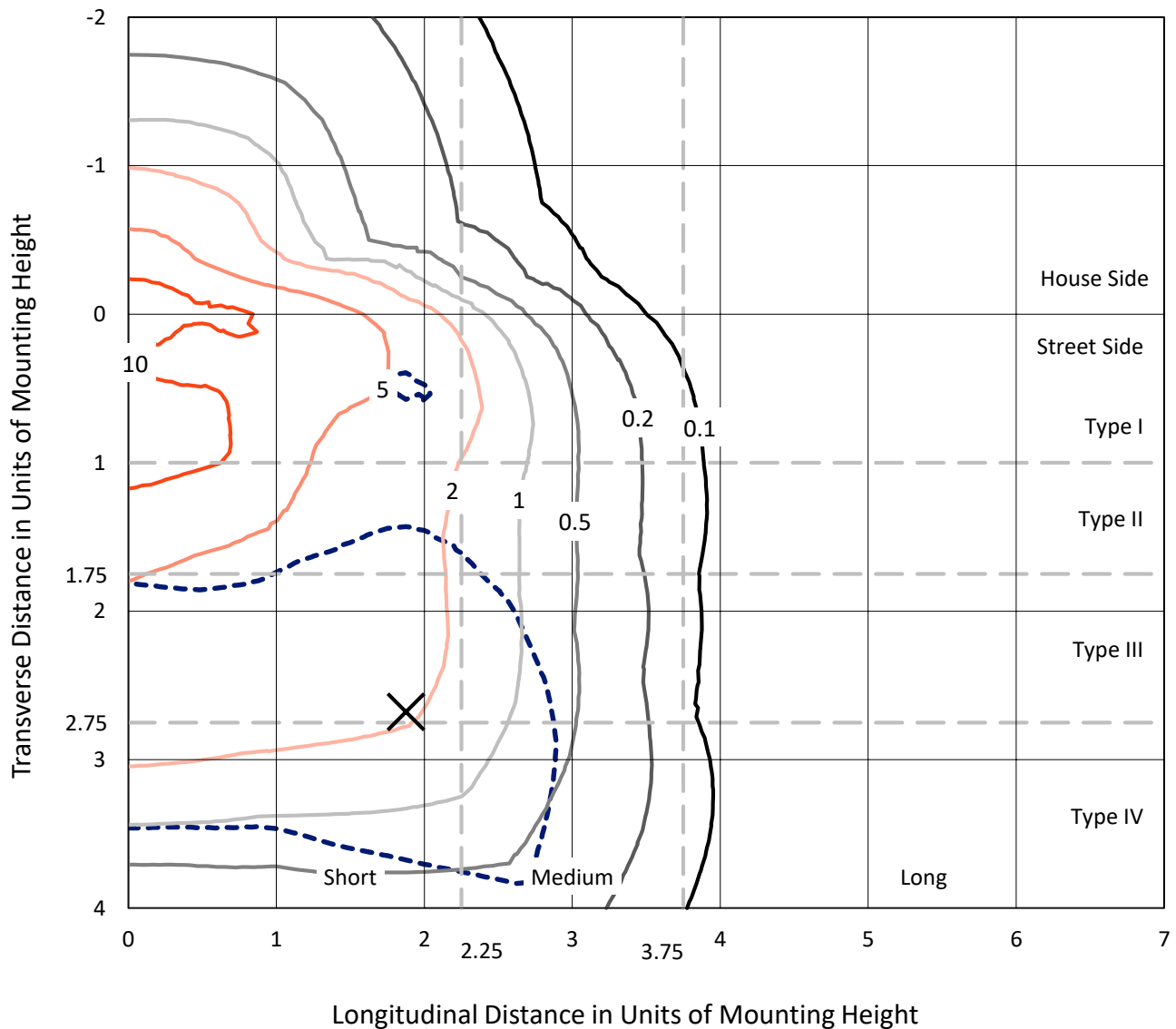


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

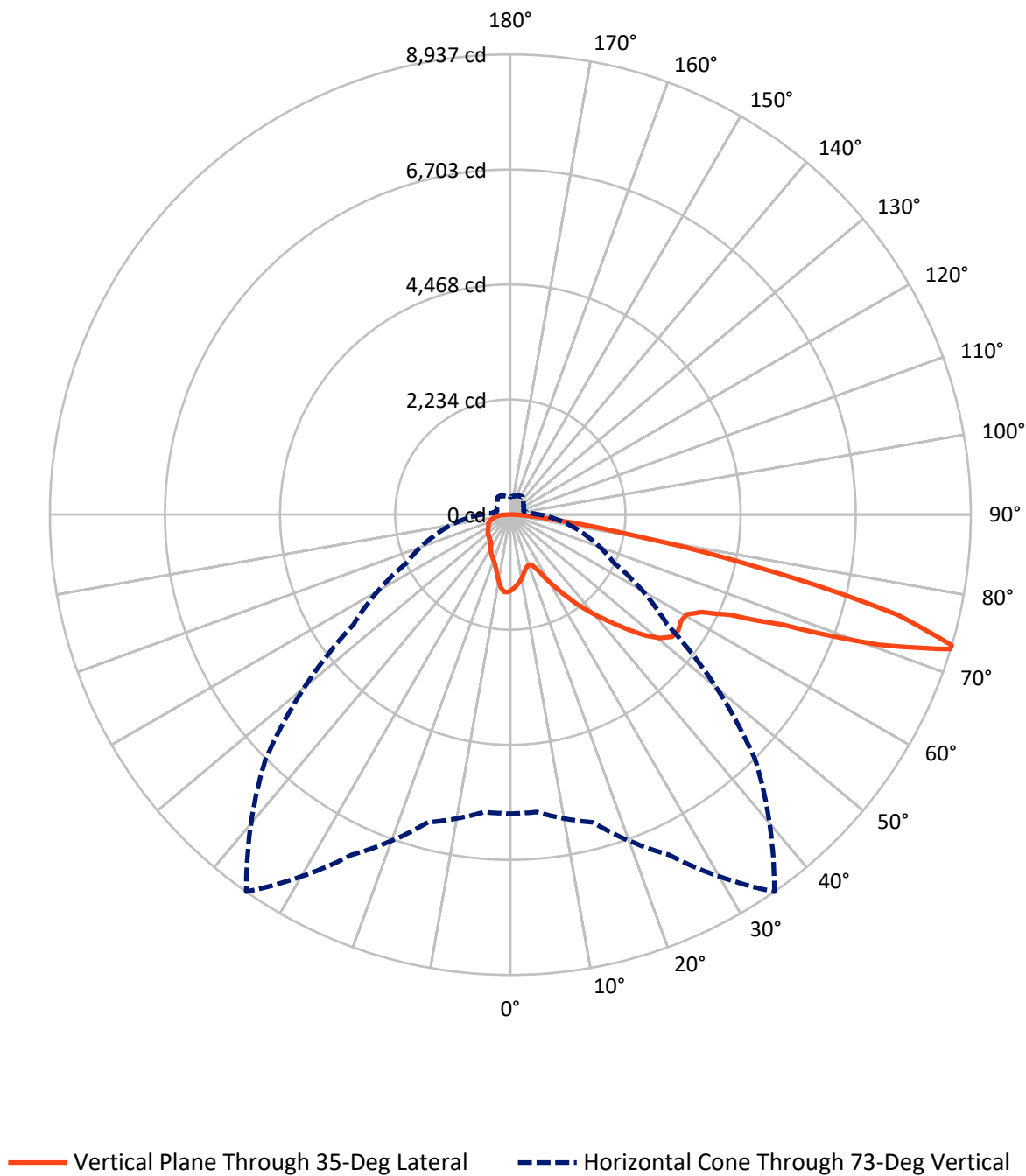


Based on 10 foot mounting height. Maximum calculated value = 14.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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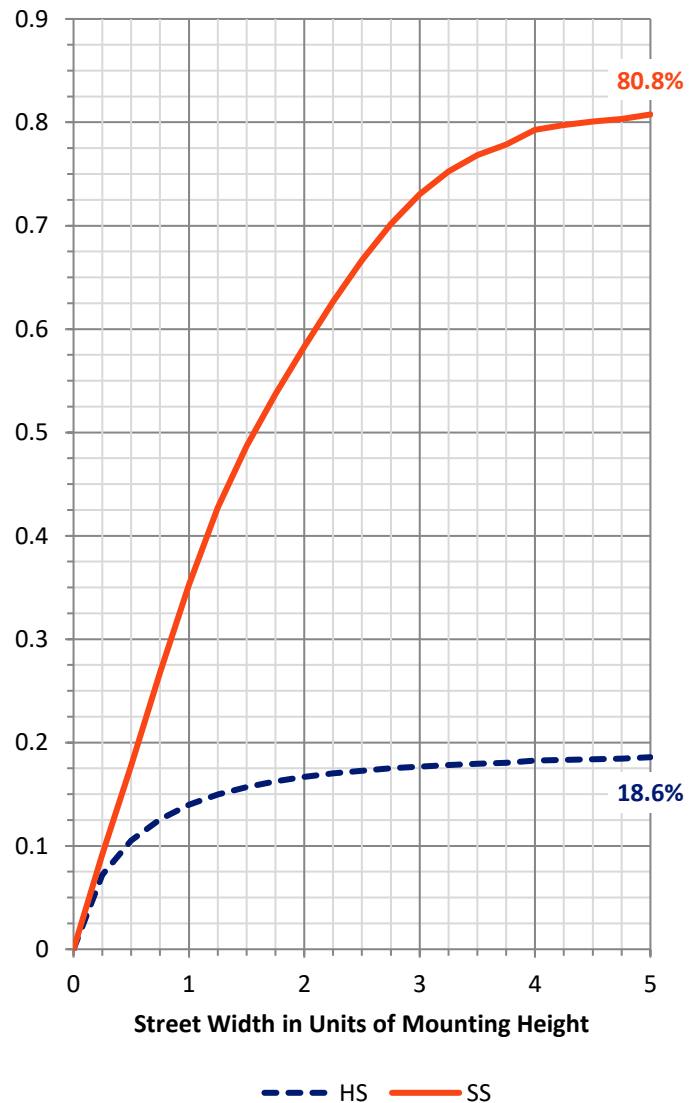
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1862.6	0.0	1862.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	7903.0	0.0	7903.0
	% Fixture	80.9	0.0	80.9
Total	Lumens	9765.6	0.0	9765.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	1.4
10°-20°	333.0	3.4
20°-30°	538.4	5.5
30°-40°	902.8	9.2
40°-50°	1391.6	14.3
50°-60°	1867.0	19.1
60°-70°	2487.2	25.5
70°-80°	1897.0	19.4
80°-90°	215.0	2.2
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°	9765.6	100.0
0°-180°	9765.6	100.0

Coefficient of Utilization



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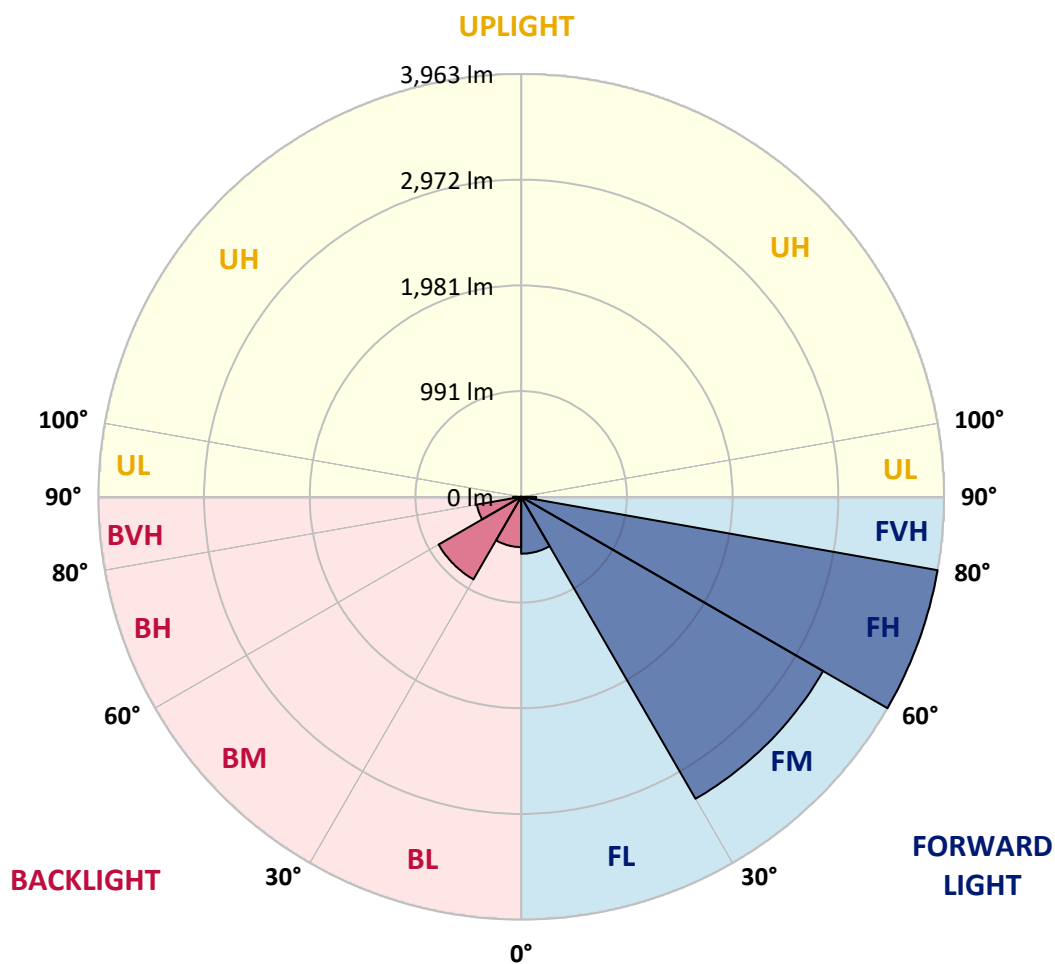
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.5	5.5			
FM	(30°-60°)	3267.6	33.5			
FH	(60°-80°)	3962.9	40.6			G2/5000
FVH	(80°-90°)	139.0	1.4			G2/225
BL	(0°-30°)	471.3	4.8	B1/500		
BM	(30°-60°)	893.8	9.2	B1/1000		
BH	(60°-80°)	421.4	4.3	B1/500		G1/500
BVH	(80°-90°)	76.0	0.8			G1/100
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°	45°	55°	65°	75°	85°	90°
0°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9
2.5°	1415.8	1418.6	1415.4	1419.5	1426.6	1434.0	1439.3	1446.7	1455.3	1467.0	1469.7
5°	1349.3	1353.4	1353.4	1361.0	1374.5	1386.7	1398.0	1410.1	1428.0	1448.1	1456.1
7.5°	1276.0	1278.4	1282.6	1293.8	1313.6	1330.9	1346.8	1366.5	1391.0	1417.6	1431.8
10°	1187.8	1191.2	1197.7	1213.7	1240.4	1264.3	1287.3	1314.5	1345.4	1378.8	1396.6
12.5°	1125.5	1124.6	1127.3	1139.1	1162.5	1191.6	1224.9	1259.6	1297.6	1336.6	1358.1
15°	1104.4	1099.2	1088.4	1085.6	1098.3	1127.3	1165.8	1208.5	1254.0	1300.8	1327.6
17.5°	1117.5	1108.7	1079.1	1057.5	1055.7	1077.7	1118.5	1166.4	1218.8	1276.0	1309.4
20°	1200.1	1178.9	1106.2	1056.1	1038.7	1049.6	1085.2	1135.9	1197.7	1273.6	1316.3
22.5°	1397.5	1366.5	1212.2	1119.0	1060.4	1047.1	1073.9	1127.9	1200.1	1302.8	1357.1
25°	1685.0	1640.8	1394.2	1275.6	1154.6	1084.7	1090.9	1146.1	1233.3	1370.3	1436.0
27.5°	1911.9	1883.3	1632.0	1496.5	1326.2	1186.0	1145.7	1192.1	1301.4	1481.0	1547.9
30°	2047.0	2029.6	1886.2	1746.8	1545.3	1347.2	1250.7	1278.4	1407.8	1634.3	1689.7
32.5°	2203.6	2193.3	2123.0	1995.0	1781.6	1559.2	1417.2	1407.4	1550.4	1818.6	1844.0
35°	2365.9	2362.6	2321.3	2229.4	2035.3	1838.9	1638.1	1571.4	1705.6	2010.0	1994.0
37.5°	2516.9	2511.3	2487.4	2433.9	2300.7	2138.9	1863.2	1739.9	1873.0	2192.9	2122.1
40°	2795.0	2750.9	2668.8	2628.4	2568.9	2391.6	2041.8	1897.0	2046.5	2367.3	2232.7
42.5°	3134.0	3062.3	2909.3	2854.1	2845.6	2591.0	2163.8	2049.3	2221.5	2540.4	2341.5
45°	3400.9	3333.4	3201.6	3131.7	3162.6	2771.6	2286.1	2212.1	2401.5	2721.8	2453.6
47.5°	3685.6	3579.6	3405.1	3426.2	3493.7	2942.3	2411.0	2387.0	2599.0	2924.9	2592.8
50°	3695.8	3614.8	3538.3	3664.4	3769.5	3099.3	2567.0	2570.4	2840.5	3180.4	2778.1
52.5°	3481.5	3464.2	3585.7	3783.9	3935.5	3223.5	2744.8	2759.8	3149.5	3474.0	2981.5
55°	3406.4	3386.8	3527.0	3742.2	3958.0	3326.3	2937.6	2964.8	3523.3	3783.5	3180.0
57.5°	3589.3	3545.8	3555.2	3722.6	3903.2	3438.8	3147.6	3202.5	3929.4	4054.2	3307.6
60°	4100.6	4007.2	3830.0	3825.7	3932.7	3607.6	3390.6	3457.6	4351.5	4183.5	3257.9
62.5°	4817.6	4724.3	4392.2	4176.1	4160.1	3886.3	3688.8	3706.6	4595.3	4008.1	2954.5
65°	5593.7	5510.3	5139.3	4833.9	4686.7	4347.7	4035.4	3817.7	4515.5	3525.6	2423.6
67.5°	6535.9	6446.3	6127.4	5845.6	5703.9	5092.3	4278.8	3711.3	4009.6	2731.2	1742.1
70°	7194.7	7103.3	6977.7	7205.9	7552.5	6166.8	4310.2	3278.5	2994.8	1815.4	1048.6
72.5°	6335.2	6292.5	6521.8	7483.6	8927.0	6818.7	3896.0	2387.0	1739.4	963.6	606.8
73°	5804.3	5794.9	6186.0	7289.0	8936.9	6718.3	3714.6	2218.6	1491.7	852.6	554.8
75°	2621.0	2696.5	3553.7	5567.5	7764.5	5536.0	2614.5	1272.8	842.7	589.0	418.8
77.5°	629.8	656.1	1111.9	2644.0	4903.4	3299.1	1184.6	629.4	538.8	415.9	305.7
80°	268.2	277.2	428.2	976.9	2308.6	1328.6	545.9	421.6	372.8	290.3	214.3
82.5°	149.1	158.5	242.9	443.1	931.8	453.0	332.9	293.6	245.3	175.0	139.3
85°	84.4	89.6	142.1	247.6	394.9	181.9	199.3	195.1	138.3	90.0	68.5
87.5°	39.9	43.1	68.5	114.9	154.7	71.2	101.3	111.7	86.8	54.8	35.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9	1473.9
2.5°	1473.1	1481.4	1491.3	1496.5	1501.1	1506.8	1512.3	1512.3	1513.4	1513.8
5°	1462.7	1480.0	1495.5	1502.1	1503.5	1503.5	1502.1	1494.5	1488.0	1490.9
7.5°	1441.1	1466.5	1479.6	1477.1	1459.3	1438.7	1421.4	1400.2	1389.6	1387.6
10°	1410.1	1439.3	1441.5	1418.0	1374.1	1330.0	1293.4	1257.8	1240.8	1236.6
12.5°	1375.9	1402.7	1387.6	1339.3	1268.5	1204.2	1157.8	1121.8	1105.8	1101.6
15°	1348.3	1366.5	1328.6	1252.5	1163.5	1095.5	1057.0	1030.4	1019.1	1015.8
17.5°	1333.7	1337.5	1268.1	1165.4	1070.6	1013.9	990.0	977.4	973.1	970.8
20°	1340.7	1314.5	1210.4	1084.2	994.7	954.8	949.1	945.8	945.0	943.6
22.5°	1375.9	1307.5	1157.4	1007.4	928.0	910.6	915.4	914.9	914.0	913.1
25°	1438.7	1313.6	1105.8	934.1	872.2	868.5	877.0	877.0	873.2	873.2
27.5°	1521.8	1326.2	1048.2	864.8	821.6	822.0	828.6	826.8	822.5	819.8
30°	1623.0	1334.2	980.6	802.4	774.2	772.4	774.2	766.2	753.6	752.7
32.5°	1726.8	1324.3	902.3	747.0	724.1	719.8	718.5	707.2	692.7	688.5
35°	1820.5	1288.2	822.5	703.0	676.2	666.8	673.5	669.6	656.5	653.3
37.5°	1889.0	1221.2	750.8	664.1	642.0	639.6	643.9	645.2	629.8	626.5
40°	1934.9	1130.2	689.3	631.2	635.5	626.5	612.5	602.6	597.8	596.5
42.5°	1971.9	1035.4	637.7	615.7	636.9	611.1	580.6	564.7	573.1	576.8
45°	2014.6	943.1	594.6	596.5	629.8	593.3	558.6	543.0	546.3	547.3
47.5°	2073.3	830.5	548.3	565.5	606.4	581.0	544.8	523.0	507.4	500.4
50°	2154.4	697.3	499.9	530.9	583.3	572.1	523.8	500.4	471.8	465.2
52.5°	2210.7	573.1	460.1	501.8	562.8	554.3	507.0	476.5	446.5	440.9
55°	2180.2	476.1	425.3	469.4	535.6	532.3	492.9	452.2	428.7	423.9
57.5°	2027.8	414.5	398.6	438.9	502.3	513.5	474.0	431.5	414.5	411.3
60°	1737.0	376.1	381.8	418.4	475.1	494.7	455.4	420.2	408.9	406.6
62.5°	1347.8	350.2	369.1	403.2	454.0	481.7	445.0	418.8	414.5	411.8
65°	965.7	329.6	355.4	388.3	434.8	469.4	441.3	417.0	417.8	415.5
67.5°	656.1	311.4	339.0	371.4	415.9	458.7	436.2	410.4	422.1	419.2
70°	459.1	293.6	319.8	349.8	392.6	443.6	426.7	400.4	399.6	388.3
72.5°	358.3	270.1	293.6	319.8	362.5	422.5	408.0	378.5	363.0	351.3
73°	341.9	264.5	287.1	313.2	355.9	417.4	402.8	372.3	355.0	344.1
75°	282.8	240.2	260.7	284.2	327.8	393.0	377.5	344.7	322.7	316.1
77.5°	222.3	205.4	225.1	246.2	288.9	357.4	340.1	308.5	296.4	290.7
80°	164.7	170.2	187.6	206.4	250.4	319.4	303.8	272.5	326.9	313.2
82.5°	115.9	128.9	144.9	161.8	210.1	282.3	263.6	231.2	239.2	198.9
85°	68.5	84.4	99.4	113.9	151.5	234.1	217.7	184.3	151.0	144.0
87.5°	39.9	46.9	51.2	66.1	104.2	176.4	153.4	136.5	78.3	53.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)