

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: P200048

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200048
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
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 12086.3 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

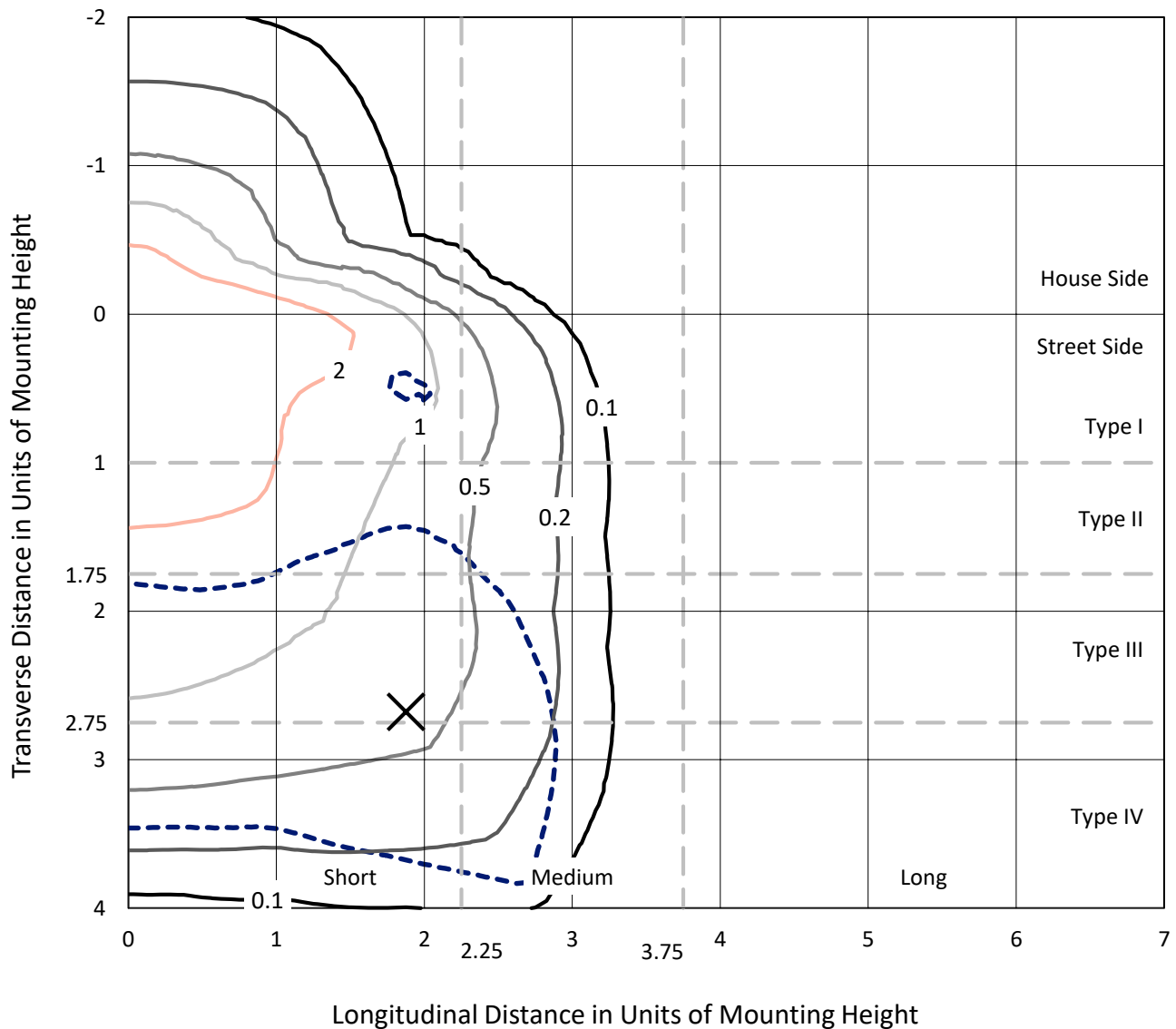


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

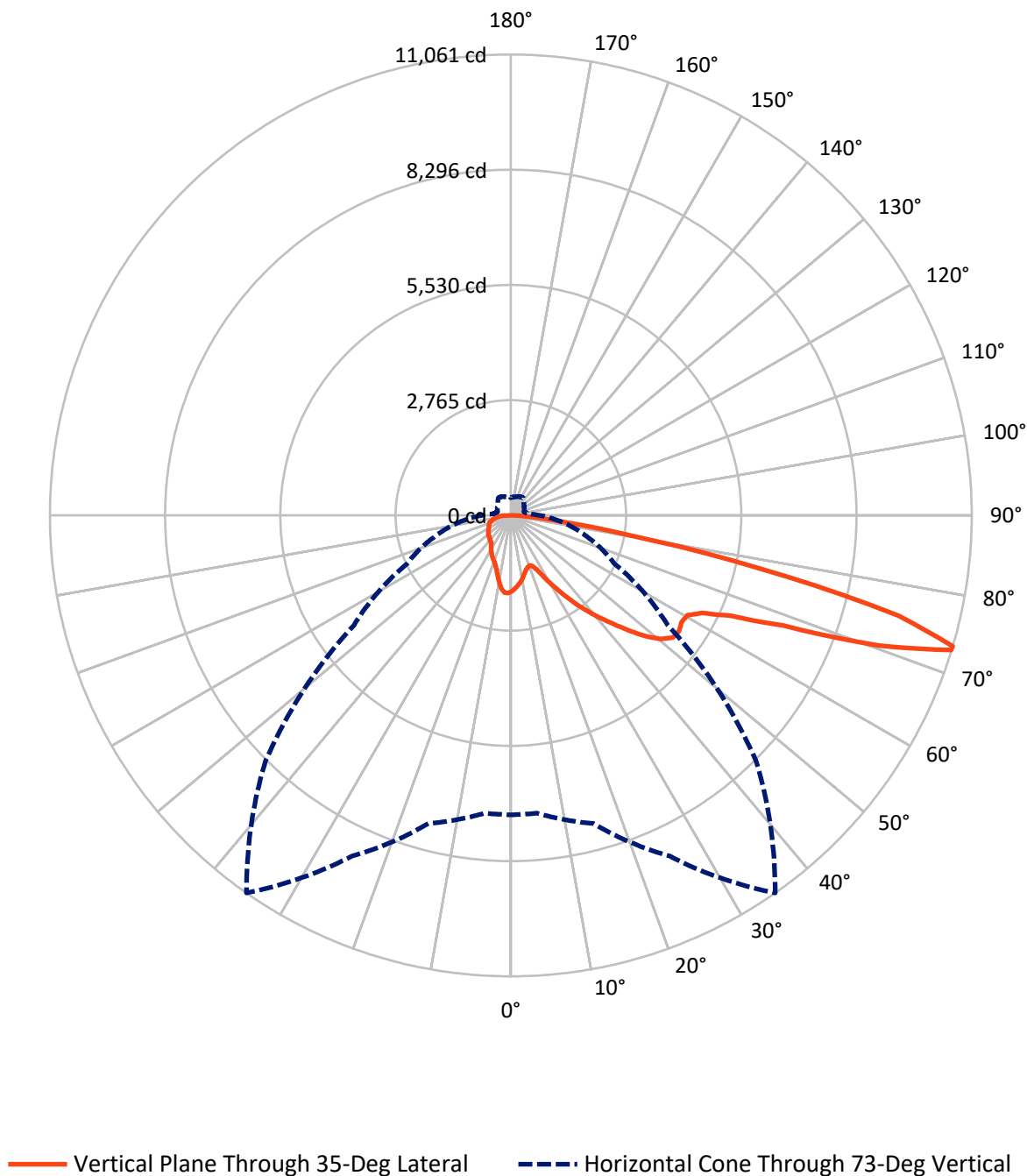


Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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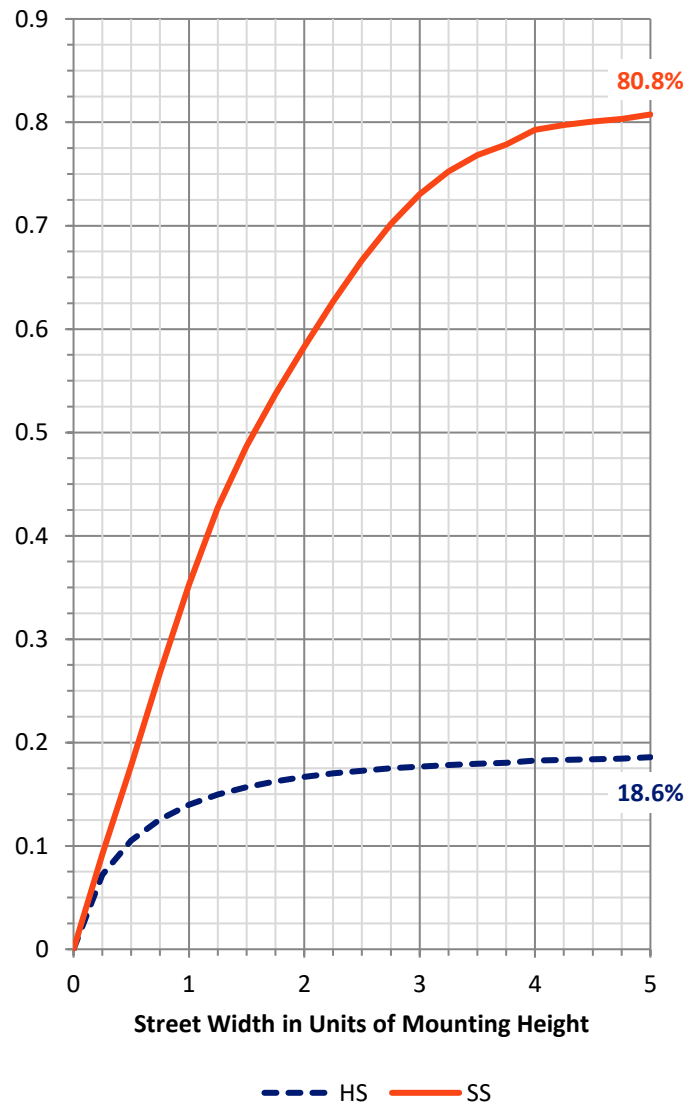
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2305.2	0.0	2305.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9781.1	0.0	9781.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	12086.3	0.0	12086.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.4
10°-20°	412.2	3.4
20°-30°	666.3	5.5
30°-40°	1117.3	9.2
40°-50°	1722.3	14.3
50°-60°	2310.7	19.1
60°-70°	3078.3	25.5
70°-80°	2347.8	19.4
80°-90°	266.1	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°	12086.3	100.0
0°-180°	12086.3	100.0

Coefficient of Utilization



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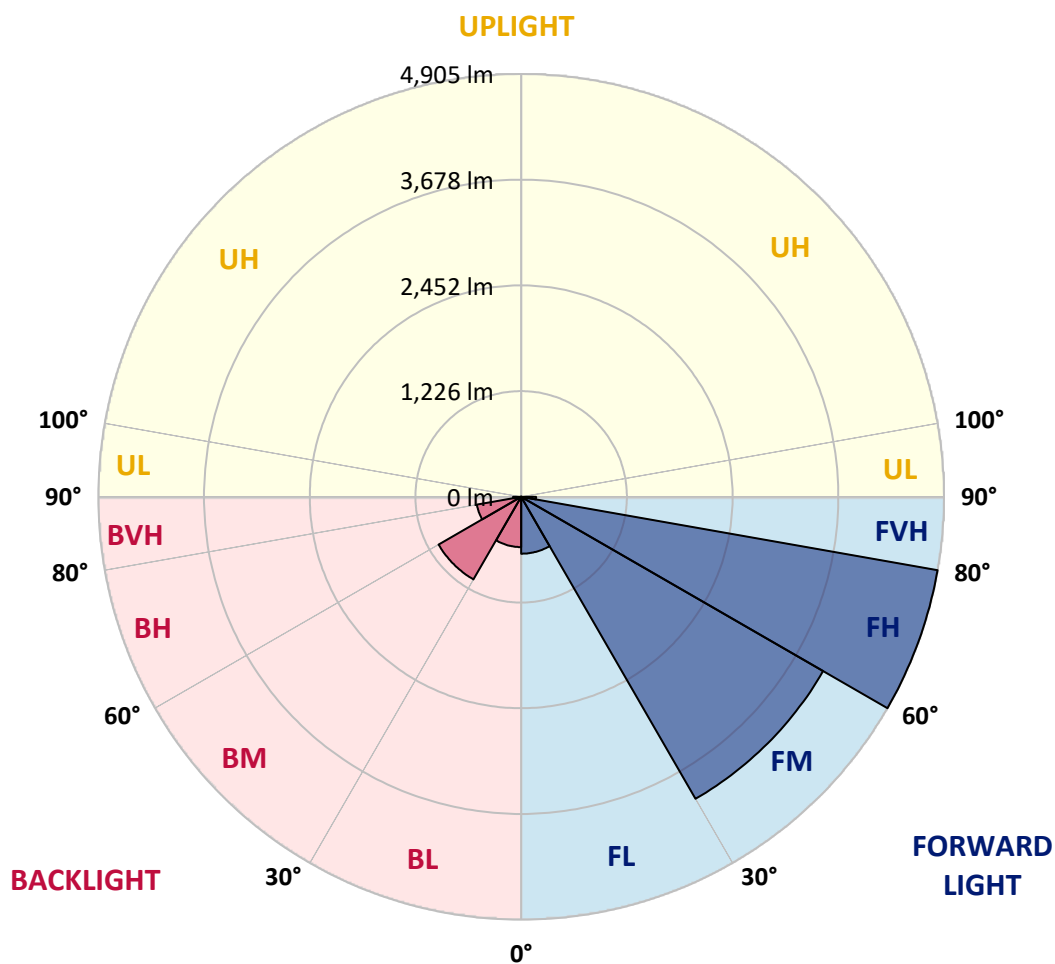
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.3	5.5			
FM	(30°-60°)	4044.1	33.5			
FH	(60°-80°)	4904.6	40.6			G2/5000
FVH	(80°-90°)	172.0	1.4			G2/225
BL	(0°-30°)	583.3	4.8	B2/1000		
BM	(30°-60°)	1106.2	9.2	B2/2500		
BH	(60°-80°)	521.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	94.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	1752.2	1755.7	1751.7	1756.9	1765.5	1774.8	1781.3	1790.5	1801.0	1815.5	1818.9
5°	1669.8	1675.1	1675.1	1684.3	1701.1	1716.3	1730.1	1745.3	1767.3	1792.3	1802.1
7.5°	1579.3	1582.2	1587.4	1601.3	1625.7	1647.2	1666.9	1691.4	1721.5	1754.6	1771.9
10°	1470.2	1474.2	1482.3	1502.1	1535.2	1564.7	1593.2	1626.9	1665.1	1706.4	1728.4
12.5°	1392.9	1391.8	1395.2	1409.8	1438.8	1474.8	1516.0	1558.9	1606.0	1654.1	1680.9
15°	1366.9	1360.5	1347.0	1343.7	1359.3	1395.2	1442.9	1495.6	1552.0	1610.1	1643.2
17.5°	1383.1	1372.1	1335.4	1308.8	1306.5	1333.7	1384.2	1443.5	1508.5	1579.3	1620.5
20°	1485.3	1459.1	1369.1	1307.1	1285.6	1299.0	1343.1	1405.7	1482.3	1576.4	1629.2
22.5°	1729.6	1691.4	1500.3	1384.9	1312.3	1296.1	1329.1	1395.9	1485.3	1612.3	1679.7
25°	2085.3	2030.8	1725.5	1578.7	1428.9	1342.5	1350.0	1418.5	1526.5	1695.9	1777.2
27.5°	2366.3	2330.8	2019.7	1852.1	1641.4	1467.8	1417.9	1475.3	1610.6	1833.0	1915.9
30°	2533.4	2512.0	2334.4	2162.0	1912.4	1667.6	1547.8	1582.2	1742.3	2022.7	2091.2
32.5°	2727.3	2714.5	2627.4	2469.0	2205.0	1929.8	1753.9	1741.8	1918.8	2250.7	2282.1
35°	2928.1	2924.0	2873.0	2759.3	2519.0	2275.8	2027.3	1945.0	2110.9	2487.7	2467.8
37.5°	3115.0	3108.0	3078.4	3012.3	2847.4	2647.3	2305.9	2153.3	2318.2	2713.9	2626.3
40°	3459.1	3404.6	3303.0	3253.0	3179.5	2960.1	2527.0	2347.8	2532.8	2929.9	2763.2
42.5°	3878.8	3789.9	3600.7	3532.4	3521.9	3206.6	2678.0	2536.4	2749.4	3144.1	2897.9
45°	4209.0	4125.5	3962.4	3875.9	3914.2	3430.2	2829.5	2737.7	2972.2	3368.7	3036.7
47.5°	4561.3	4430.1	4214.2	4240.4	4323.9	3641.4	2983.9	2954.3	3216.6	3620.0	3209.1
50°	4574.1	4473.7	4379.1	4535.3	4665.3	3835.9	3177.2	3181.2	3515.5	3936.3	3438.3
52.5°	4308.8	4287.5	4437.7	4683.2	4870.7	3989.7	3397.1	3415.7	3898.0	4299.6	3690.1
55°	4216.0	4191.6	4365.1	4631.6	4898.5	4116.8	3635.6	3669.3	4360.5	4682.7	3935.6
57.5°	4442.4	4388.4	4400.0	4607.3	4830.7	4256.0	3895.6	3963.5	4863.1	5017.5	4093.5
60°	5075.0	4959.5	4740.1	4734.9	4867.2	4465.0	4196.3	4279.2	5385.5	5177.7	4032.0
62.5°	5962.4	5846.9	5435.9	5168.4	5148.8	4809.8	4565.4	4587.5	5687.3	4960.7	3656.5
65°	6923.0	6819.6	6360.6	5982.7	5800.5	5380.9	4994.3	4725.0	5588.6	4363.5	2999.5
67.5°	8089.0	7978.1	7583.4	7234.7	7059.4	6302.5	5295.6	4593.3	4962.4	3380.3	2156.2
70°	8904.5	8791.3	8635.8	8918.4	9347.3	7632.2	5334.5	4057.6	3706.4	2246.7	1297.8
72.5°	7840.6	7787.8	8071.6	9262.0	11048.6	8438.9	4821.9	2954.3	2152.7	1192.7	751.0
73°	7183.6	7172.0	7656.1	9021.1	11060.7	8314.7	4597.3	2745.9	1846.3	1055.1	686.5
75°	3243.8	3337.4	4398.2	6890.4	9609.7	6851.6	3235.7	1575.2	1043.0	729.0	518.3
77.5°	779.4	812.1	1376.1	3272.4	6068.7	4083.1	1466.0	778.9	666.9	514.8	378.5
80°	332.0	343.0	529.9	1209.0	2857.3	1644.3	675.6	521.8	461.4	359.3	265.3
82.5°	184.5	196.1	300.7	548.5	1153.2	560.7	412.1	363.3	303.5	216.5	172.4
85°	104.5	110.9	175.9	306.5	488.7	225.2	246.7	241.5	171.2	111.5	84.7
87.5°	49.3	53.4	84.7	142.1	191.5	88.2	125.3	138.1	107.4	68.0	44.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2	1824.2
2.5°	1823.0	1833.5	1845.7	1852.1	1857.9	1864.8	1871.8	1871.8	1872.9	1873.6
5°	1810.3	1831.7	1850.9	1859.0	1860.8	1860.8	1859.0	1849.8	1841.6	1845.1
7.5°	1783.5	1814.9	1831.1	1828.2	1806.2	1780.7	1759.2	1733.1	1719.7	1717.4
10°	1745.3	1781.3	1784.1	1755.1	1700.6	1646.0	1600.7	1556.6	1535.7	1530.5
12.5°	1703.0	1736.0	1717.4	1657.6	1569.9	1490.6	1433.1	1388.3	1368.6	1363.3
15°	1668.6	1691.4	1644.3	1550.3	1439.9	1355.8	1308.3	1275.2	1261.2	1257.1
17.5°	1650.7	1655.3	1569.4	1442.3	1325.1	1254.9	1225.3	1209.5	1204.4	1201.5
20°	1659.3	1626.9	1498.1	1341.9	1231.1	1181.6	1174.7	1170.7	1169.5	1167.8
22.5°	1703.0	1618.1	1432.4	1246.6	1148.7	1127.1	1132.9	1132.4	1131.2	1130.1
25°	1780.7	1625.7	1368.6	1156.2	1079.6	1074.9	1085.4	1085.4	1080.7	1080.7
27.5°	1883.4	1641.4	1297.2	1070.3	1016.8	1017.4	1025.6	1023.2	1018.0	1014.6
30°	2008.7	1651.2	1213.7	993.0	958.2	955.9	958.2	948.4	932.7	931.6
32.5°	2137.0	1639.0	1116.7	924.6	896.2	890.9	889.2	875.2	857.2	852.0
35°	2253.2	1594.3	1018.0	870.0	836.9	825.4	833.4	828.8	812.6	808.5
37.5°	2337.8	1511.4	929.2	821.8	794.6	791.7	796.9	798.5	779.4	775.4
40°	2394.8	1398.7	853.2	781.2	786.4	775.4	758.0	745.8	740.0	738.3
42.5°	2440.6	1281.5	789.3	762.1	788.2	756.3	718.5	698.8	709.2	713.9
45°	2493.4	1167.2	736.0	738.3	779.4	734.2	691.3	672.1	676.2	677.3
47.5°	2566.0	1027.9	678.5	700.0	750.5	719.2	674.4	647.2	628.0	619.3
50°	2666.4	863.0	618.7	656.9	721.9	708.1	648.4	619.3	583.9	575.8
52.5°	2736.0	709.2	569.4	621.0	696.5	686.0	627.3	589.7	552.6	545.5
55°	2698.2	589.1	526.4	580.9	662.7	658.8	610.0	559.5	530.5	524.7
57.5°	2509.6	513.1	493.3	543.2	621.5	635.6	586.8	533.9	513.1	509.0
60°	2149.7	465.5	472.4	517.7	588.0	612.3	563.6	520.1	506.1	503.2
62.5°	1668.1	433.5	456.8	499.1	561.8	596.1	550.7	518.3	513.1	509.5
65°	1195.1	408.0	440.0	480.5	538.0	580.9	546.2	515.9	517.2	514.3
67.5°	812.1	385.3	419.7	459.7	514.8	567.6	539.7	507.8	522.4	518.9
70°	568.2	363.3	395.8	433.0	485.7	549.0	528.2	495.7	494.5	480.5
72.5°	443.4	334.4	363.3	395.8	448.6	523.0	505.0	468.4	449.3	434.8
73°	423.2	327.3	355.2	387.7	440.6	516.6	498.6	460.8	439.3	426.0
75°	349.9	297.1	322.8	351.7	405.7	486.4	467.2	426.5	399.4	391.1
77.5°	275.2	254.2	278.6	304.8	357.5	442.3	420.7	381.9	366.8	359.9
80°	203.8	210.7	232.1	255.3	310.0	395.3	376.1	337.2	404.6	387.7
82.5°	143.3	159.6	179.3	200.3	260.0	349.4	326.1	286.2	296.0	246.1
85°	84.7	104.5	123.0	141.1	187.5	289.6	269.4	228.2	187.0	178.2
87.5°	49.3	58.0	63.3	81.8	128.8	218.2	189.8	169.0	96.9	65.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)