

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: P269913

Luminaire Tested: **GAP-AF-02-LED-U-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269913
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-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 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: 10857.2 lumens
Efficiency: N/A
Efficacy: 96.1 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

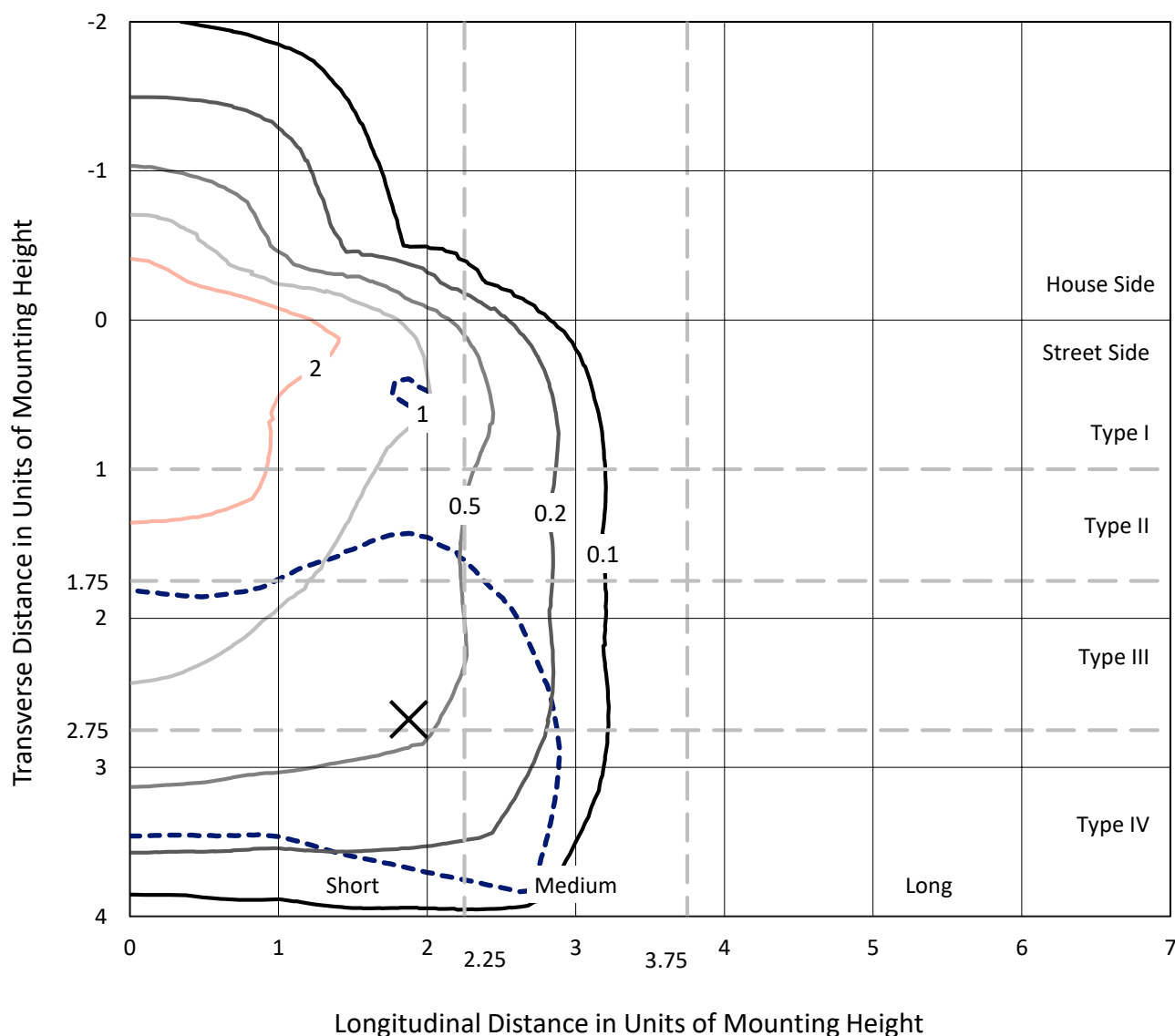


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

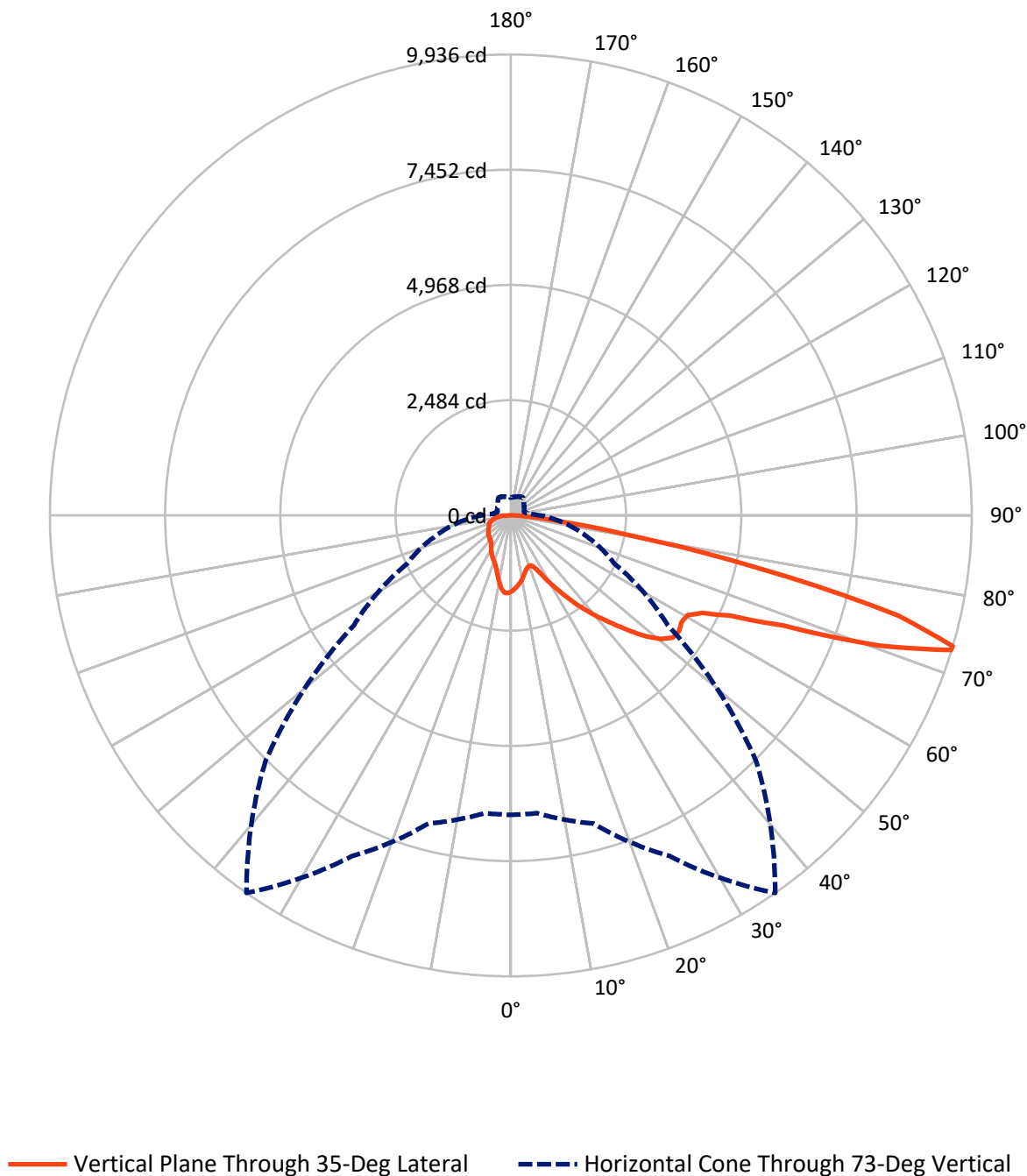


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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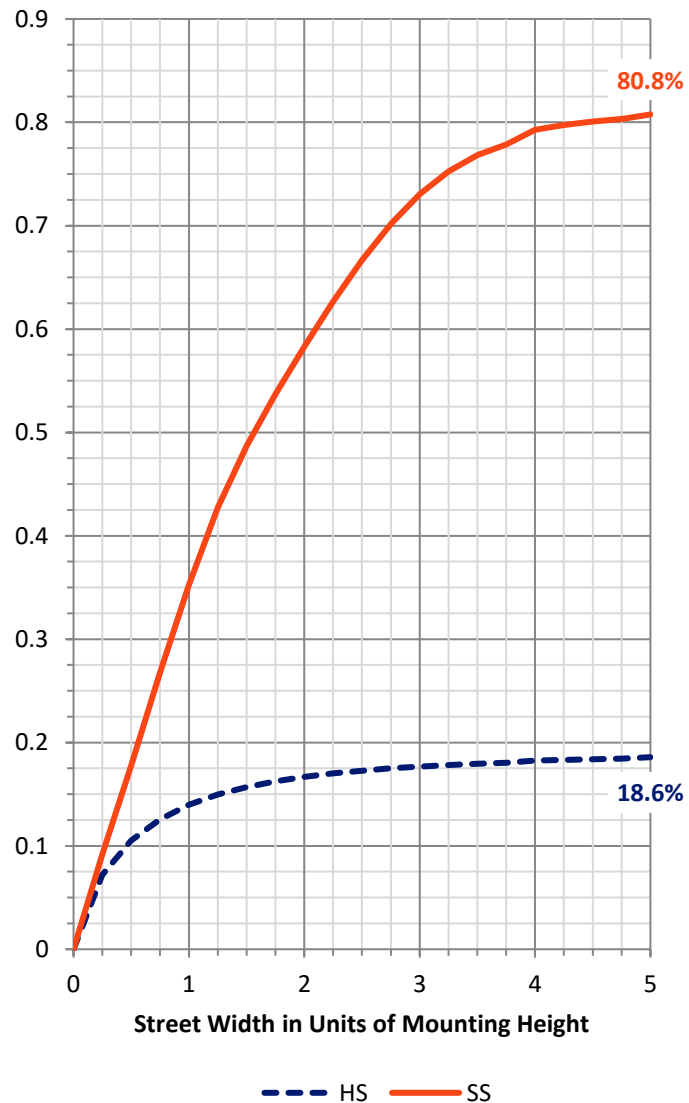
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2070.8	0.0	2070.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	8786.4	0.0	8786.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	10857.2	0.0	10857.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.4
10°-20°	370.3	3.4
20°-30°	598.6	5.5
30°-40°	1003.7	9.2
40°-50°	1547.2	14.3
50°-60°	2075.7	19.1
60°-70°	2765.3	25.5
70°-80°	2109.1	19.4
80°-90°	239.1	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°	10857.2	100.0
0°-180°	10857.2	100.0

Coefficient of Utilization



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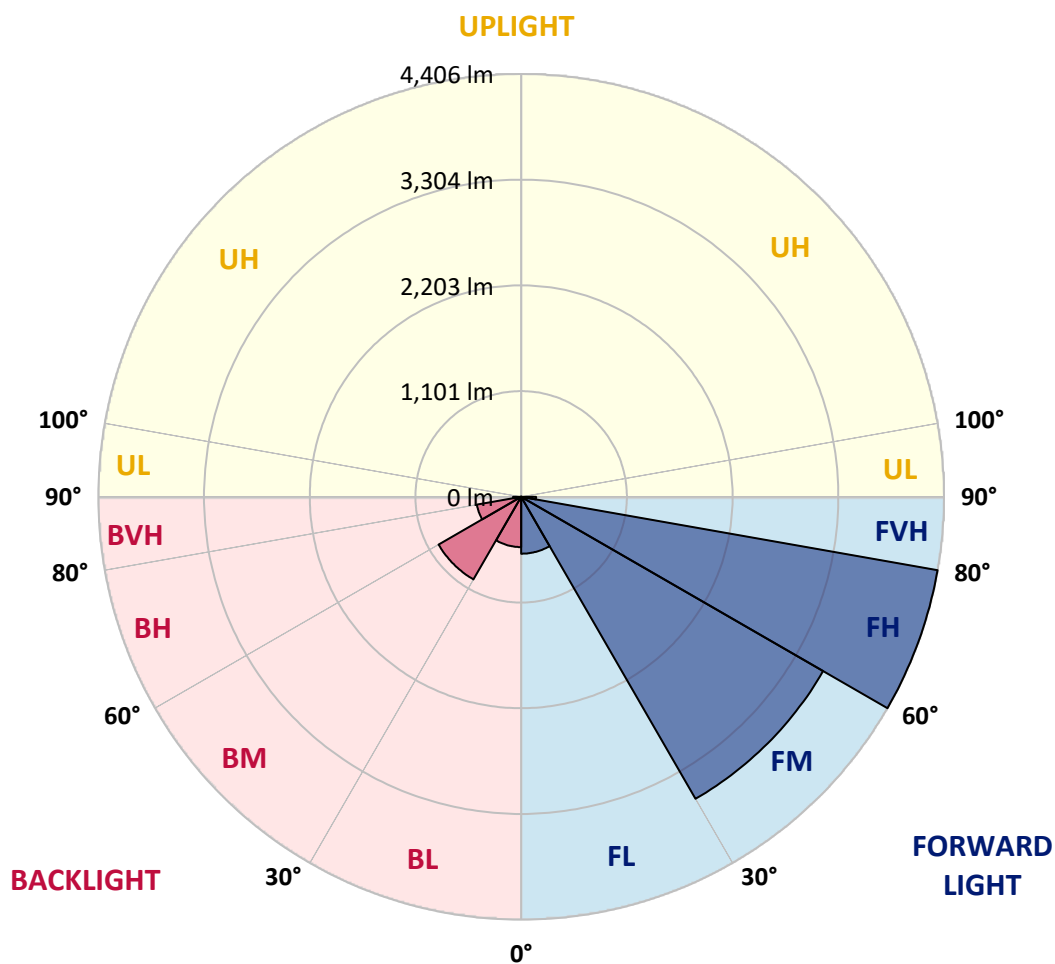
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.2	5.5			
FM	(30°-60°)	3632.9	33.5			
FH	(60°-80°)	4405.8	40.6			G2/5000
FVH	(80°-90°)	154.5	1.4			G2/225
BL	(0°-30°)	524.0	4.8	B2/1000		
BM	(30°-60°)	993.7	9.2	B1/1000		
BH	(60°-80°)	468.5	4.3	B1/500		G1/500
BVH	(80°-90°)	84.5	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°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1574.0	1577.2	1573.6	1578.2	1586.0	1594.3	1600.2	1608.4	1617.8	1630.9	1633.9
5°	1500.0	1504.8	1504.8	1513.0	1528.1	1541.8	1554.2	1567.8	1587.6	1610.0	1618.8
7.5°	1418.7	1421.3	1426.0	1438.5	1460.4	1479.7	1497.4	1519.4	1546.4	1576.2	1591.7
10°	1320.7	1324.3	1331.6	1349.3	1379.1	1405.6	1431.2	1461.5	1495.8	1532.9	1552.6
12.5°	1251.2	1250.3	1253.3	1266.4	1292.5	1324.8	1361.8	1400.4	1442.7	1485.9	1510.0
15°	1227.9	1222.1	1210.0	1207.1	1221.1	1253.3	1296.2	1343.5	1394.2	1446.4	1476.1
17.5°	1242.4	1232.6	1199.6	1175.7	1173.6	1198.1	1243.4	1296.7	1355.1	1418.7	1455.7
20°	1334.3	1310.7	1229.9	1174.2	1154.9	1166.9	1206.5	1262.7	1331.6	1416.1	1463.5
22.5°	1553.7	1519.4	1347.7	1244.1	1178.8	1164.3	1193.9	1253.9	1334.3	1448.3	1508.9
25°	1873.2	1824.3	1550.0	1418.2	1283.6	1206.0	1212.7	1274.2	1371.3	1523.4	1596.5
27.5°	2125.7	2093.8	1814.3	1663.8	1474.5	1318.5	1273.7	1325.3	1446.8	1646.6	1721.1
30°	2275.8	2256.5	2097.0	1942.1	1717.9	1498.0	1390.4	1421.3	1565.1	1817.0	1878.5
32.5°	2449.9	2438.4	2360.2	2217.9	1980.8	1733.5	1575.5	1564.7	1723.7	2021.8	2050.0
35°	2630.3	2626.6	2580.8	2478.7	2262.8	2044.4	1821.1	1747.2	1896.2	2234.7	2216.8
37.5°	2798.2	2791.9	2765.3	2706.0	2557.8	2378.1	2071.4	1934.3	2082.5	2437.9	2359.2
40°	3107.3	3058.4	2967.1	2922.2	2856.2	2659.1	2270.0	2109.0	2275.2	2631.9	2482.2
42.5°	3484.3	3404.5	3234.5	3173.2	3163.7	2880.5	2405.7	2278.5	2469.8	2824.4	2603.2
45°	3781.0	3706.0	3559.4	3481.7	3516.1	3081.4	2541.8	2459.3	2669.9	3026.1	2727.9
47.5°	4097.4	3979.6	3785.6	3809.2	3884.2	3271.1	2680.5	2653.9	2889.5	3251.9	2882.8
50°	4108.9	4018.7	3933.8	4074.1	4190.9	3445.8	2854.1	2857.7	3158.0	3536.0	3088.6
52.5°	3870.6	3851.5	3986.4	4206.9	4375.4	3584.0	3051.6	3068.3	3501.6	3862.4	3314.8
55°	3787.3	3765.3	3921.2	4160.6	4400.3	3698.1	3265.9	3296.2	3917.1	4206.5	3535.4
57.5°	3990.6	3942.1	3952.5	4138.8	4339.4	3823.2	3499.4	3560.4	4368.5	4507.2	3677.2
60°	4558.9	4455.1	4258.1	4253.4	4372.2	4010.9	3769.6	3844.0	4837.8	4651.2	3622.0
62.5°	5356.1	5252.3	4883.1	4642.8	4625.2	4320.7	4101.1	4121.0	5108.9	4456.2	3284.7
65°	6219.0	6126.1	5713.8	5374.3	5210.6	4833.7	4486.4	4244.5	5020.3	3919.8	2694.5
67.5°	7266.4	7166.8	6812.2	6499.0	6341.5	5661.6	4757.1	4126.2	4457.7	3036.5	1936.9
70°	7999.0	7897.3	7757.6	8011.4	8396.7	6856.0	4792.0	3645.0	3329.5	2018.2	1165.8
72.5°	7043.3	6995.8	7250.8	8320.1	9925.0	7580.7	4331.5	2653.9	1933.8	1071.4	674.6
73°	6453.1	6442.6	6877.5	8103.7	9935.9	7469.1	4129.8	2466.7	1658.5	947.8	616.7
75°	2913.9	2998.0	3950.9	6189.7	8632.4	6154.8	2906.6	1415.0	936.9	654.9	465.6
77.5°	700.1	729.5	1236.2	2939.6	5451.5	3667.9	1316.9	699.7	599.1	462.4	340.0
80°	298.2	308.1	476.0	1086.1	2566.7	1477.1	606.9	468.7	414.5	322.8	238.3
82.5°	165.7	176.2	270.1	492.7	1035.9	503.7	370.2	326.4	272.6	194.5	154.9
85°	93.9	99.6	158.0	275.3	439.0	202.3	221.6	216.9	153.8	100.2	76.1
87.5°	44.3	48.0	76.1	127.6	172.0	79.2	112.6	124.1	96.5	61.1	39.6
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°	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7	1638.7
2.5°	1637.6	1647.0	1658.0	1663.8	1669.0	1675.2	1681.4	1681.4	1682.4	1683.1
5°	1626.2	1645.4	1662.7	1669.9	1671.6	1671.6	1669.9	1661.7	1654.3	1657.5
7.5°	1602.1	1630.3	1644.9	1642.3	1622.5	1599.6	1580.3	1556.9	1544.8	1542.7
10°	1567.8	1600.2	1602.7	1576.6	1527.7	1478.6	1437.9	1398.3	1379.5	1374.9
12.5°	1529.8	1559.5	1542.7	1489.0	1410.2	1339.0	1287.4	1247.1	1229.4	1224.7
15°	1498.9	1519.4	1477.1	1392.6	1293.5	1217.9	1175.3	1145.5	1132.9	1129.3
17.5°	1482.8	1487.0	1409.8	1295.6	1190.3	1127.3	1100.7	1086.5	1081.9	1079.3
20°	1490.6	1461.5	1345.8	1205.4	1105.9	1061.4	1055.2	1051.6	1050.6	1049.0
22.5°	1529.8	1453.5	1286.7	1119.8	1031.9	1012.5	1017.7	1017.2	1016.2	1015.2
25°	1599.6	1460.4	1229.4	1038.6	969.8	965.6	975.0	975.0	970.8	970.8
27.5°	1691.9	1474.5	1165.3	961.5	913.4	913.9	921.3	919.1	914.5	911.4
30°	1804.4	1483.3	1090.3	892.0	860.8	858.7	860.8	852.0	837.8	836.9
32.5°	1919.7	1472.3	1003.1	830.6	805.1	800.3	798.8	786.2	770.0	765.4
35°	2024.1	1432.2	914.5	781.5	751.8	741.5	748.6	744.5	730.0	726.3
37.5°	2100.1	1357.7	834.7	738.2	713.8	711.2	715.9	717.3	700.1	696.5
40°	2151.3	1256.5	766.4	701.8	706.4	696.5	680.9	670.0	664.7	663.2
42.5°	2192.4	1151.2	709.0	684.6	708.0	679.4	645.4	627.7	637.1	641.3
45°	2239.8	1048.5	661.2	663.2	700.1	659.5	621.0	603.8	607.4	608.4
47.5°	2305.1	923.4	609.5	628.8	674.2	646.1	605.8	581.4	564.1	556.3
50°	2395.2	775.2	555.8	590.1	648.5	636.1	582.5	556.3	524.5	517.2
52.5°	2457.8	637.1	511.5	557.8	625.7	616.2	563.5	529.7	496.4	490.0
55°	2423.8	529.2	472.9	521.8	595.3	591.8	548.0	502.6	476.6	471.3
57.5°	2254.4	460.9	443.1	488.0	558.3	571.0	527.1	479.6	460.9	457.2
60°	1931.1	418.2	424.4	465.1	528.2	550.0	506.3	467.2	454.6	452.0
62.5°	1498.5	389.4	410.3	448.3	504.7	535.5	494.7	465.6	460.9	457.7
65°	1073.6	366.5	395.3	431.6	483.3	521.8	490.7	463.4	464.6	462.0
67.5°	729.5	346.1	377.0	413.0	462.4	509.9	484.8	456.2	469.3	466.1
70°	510.4	326.4	355.5	389.0	436.3	493.2	474.5	445.3	444.2	431.6
72.5°	398.3	300.4	326.4	355.5	403.0	469.8	453.6	420.8	403.6	390.6
73°	380.2	294.0	319.1	348.3	395.8	464.1	447.9	413.9	394.6	382.7
75°	314.3	266.9	290.0	315.9	364.4	436.9	419.7	383.1	358.8	351.3
77.5°	247.2	228.3	250.3	273.8	321.1	397.3	377.9	343.1	329.5	323.3
80°	183.1	189.3	208.5	229.3	278.5	355.1	337.9	302.9	363.5	348.3
82.5°	128.7	143.4	161.1	179.9	233.6	313.9	292.9	257.1	265.9	221.1
85°	76.1	93.9	110.5	126.8	168.4	260.1	242.0	205.0	168.0	160.1
87.5°	44.3	52.1	56.9	73.5	115.7	196.0	170.5	151.8	87.0	58.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)