

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: P200216

Luminaire Tested: **GAP-AF-02-LED-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12619.1 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

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

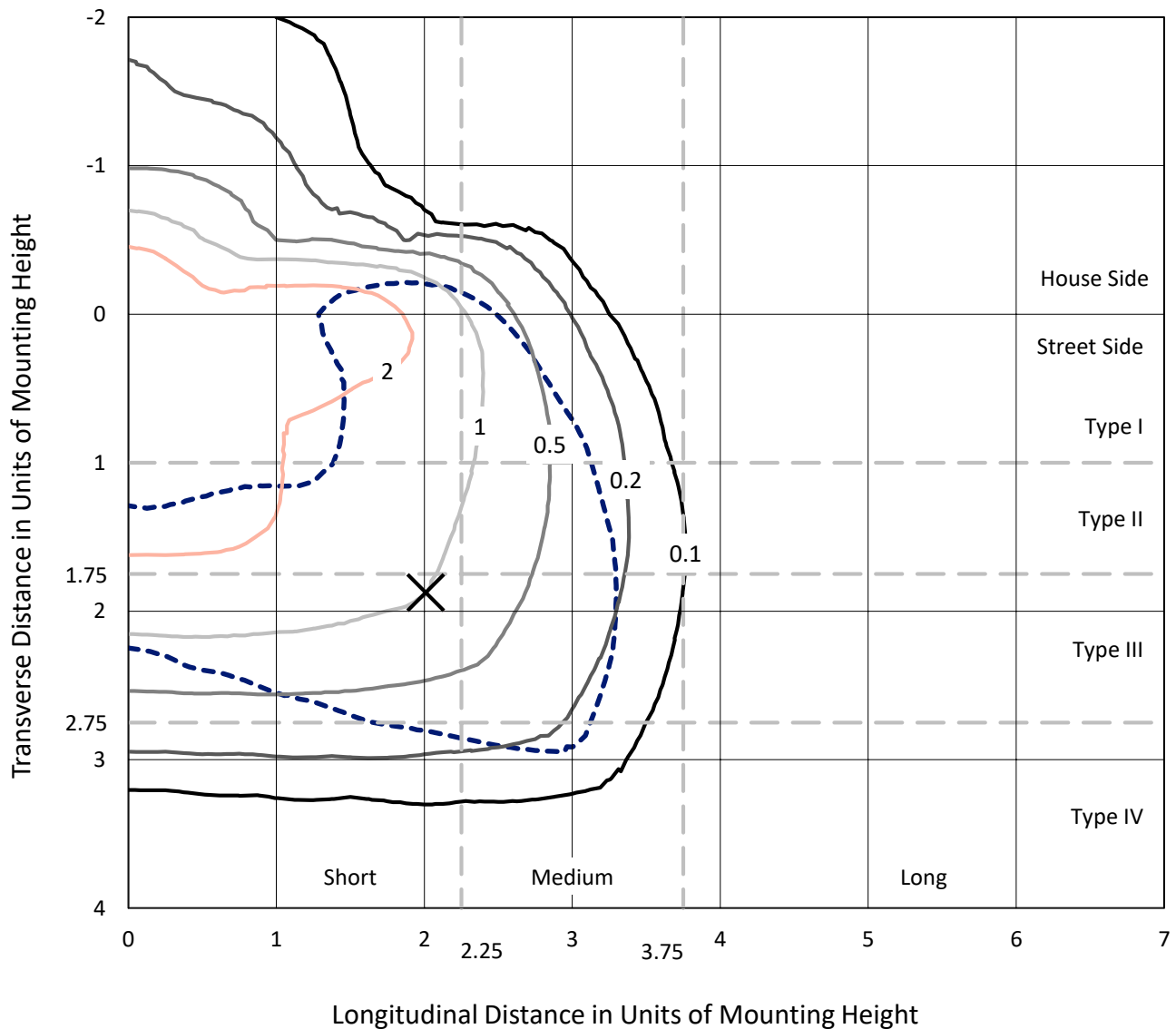


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

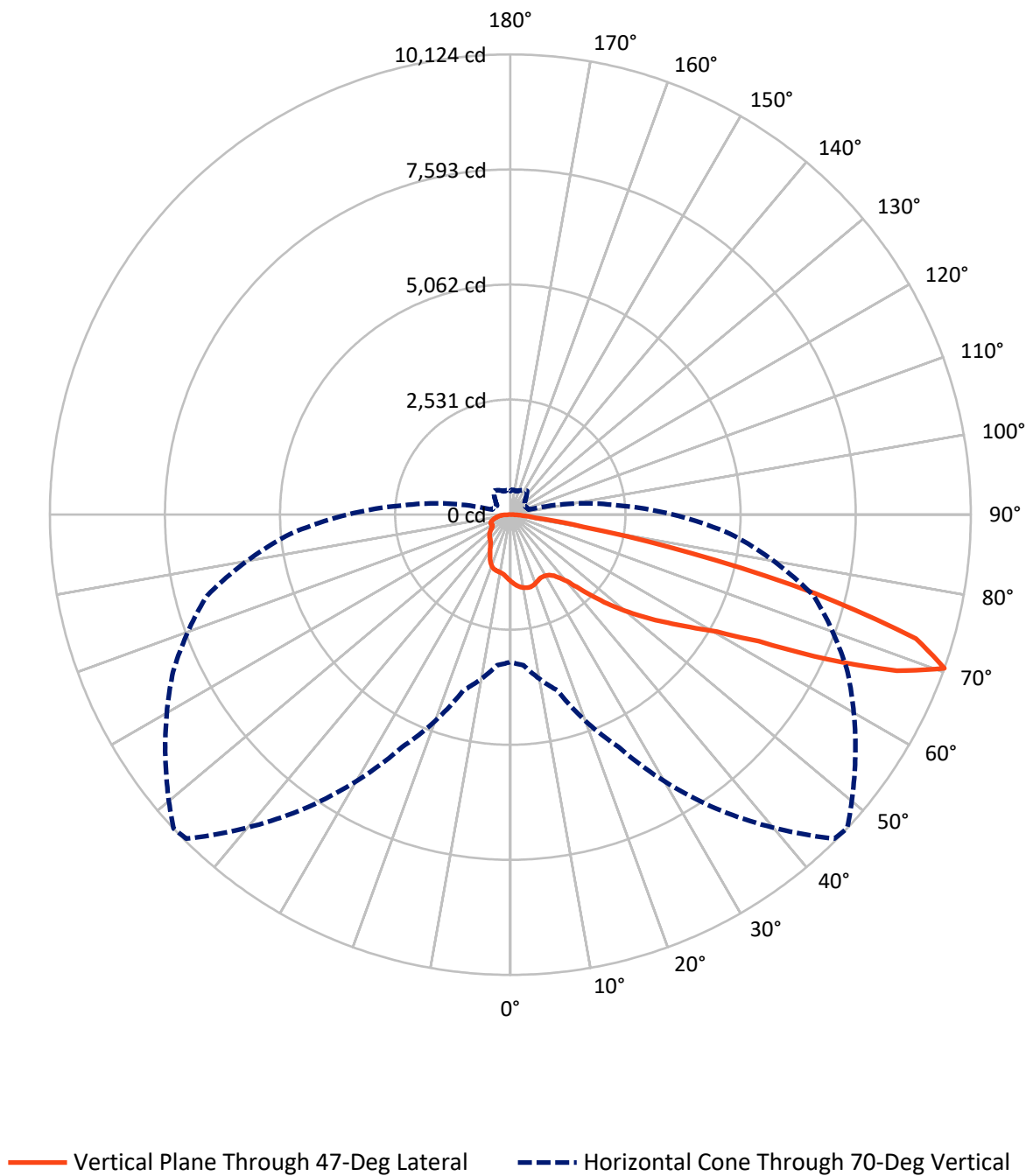


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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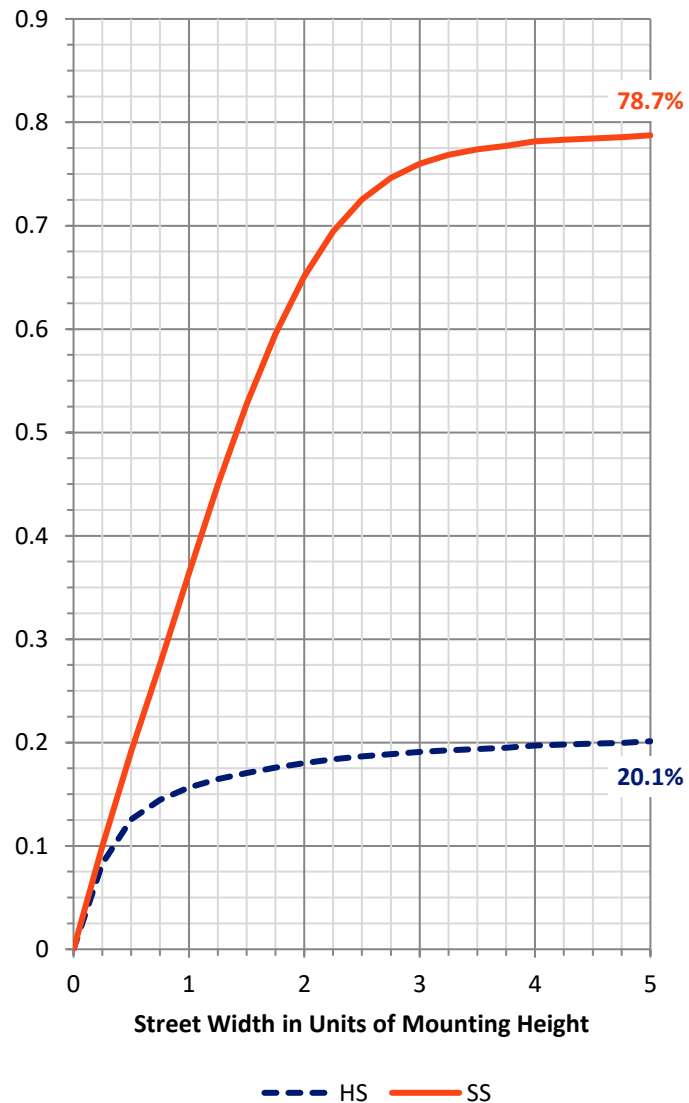
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2632.6	0.0	2632.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9986.5	0.0	9986.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	12619.1	0.0	12619.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	1.1
10°-20°	411.6	3.3
20°-30°	607.8	4.8
30°-40°	883.4	7.0
40°-50°	1589.9	12.6
50°-60°	2754.3	21.8
60°-70°	3931.2	31.2
70°-80°	2018.1	16.0
80°-90°	282.5	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°	12619.1	100.0
0°-180°	12619.1	100.0

Coefficient of Utilization



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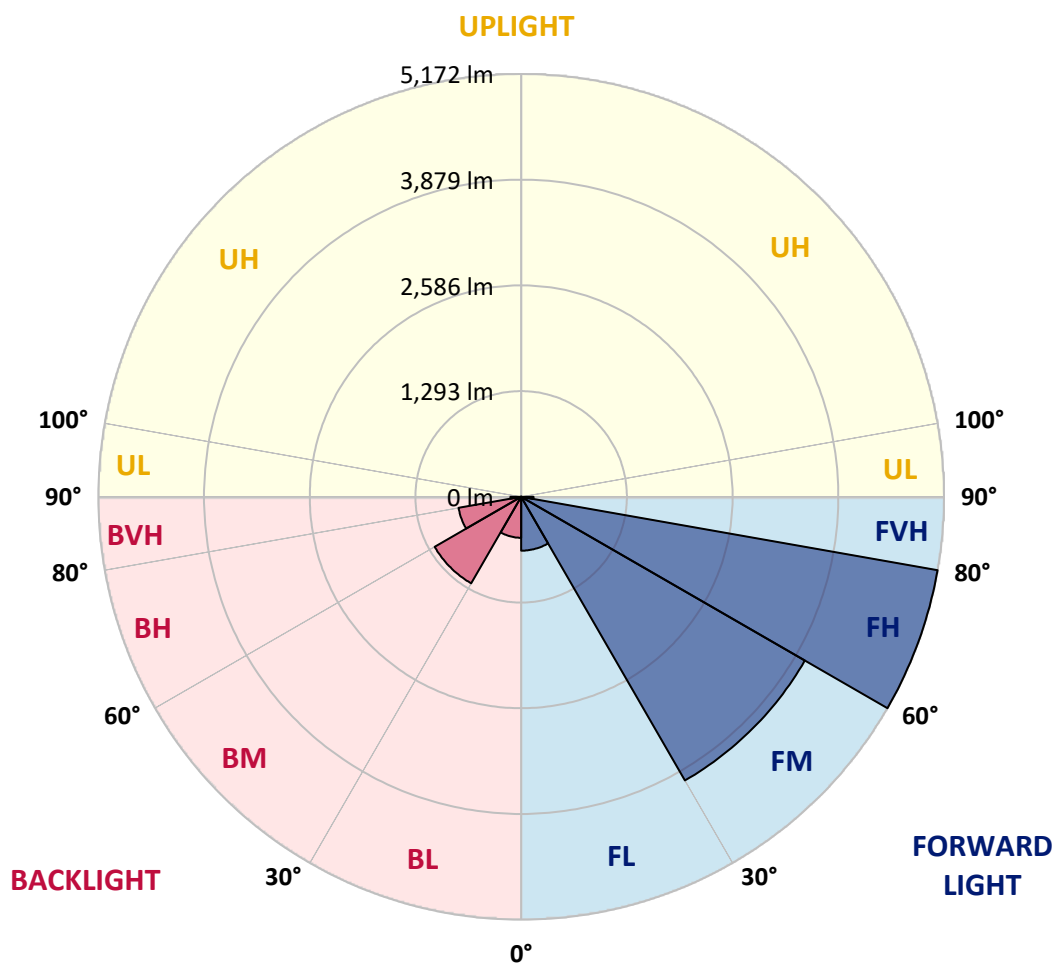
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.4	5.2			
FM	(30°-60°)	4005.7	31.7			
FH	(60°-80°)	5171.7	41.0			G3/7500
FVH	(80°-90°)	150.8	1.2			G2/225
BL	(0°-30°)	501.3	4.0	B2/1000		
BM	(30°-60°)	1222.0	9.7	B2/2500		
BH	(60°-80°)	777.6	6.2	B2/1000		G2/1000
BVH	(80°-90°)	131.8	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3
2.5°	1550.2	1547.1	1545.9	1543.4	1540.4	1525.0	1521.9	1510.9	1495.6	1479.6	1463.0
5°	1652.1	1651.5	1644.7	1632.4	1612.8	1579.0	1571.0	1544.0	1507.8	1472.8	1437.9
7.5°	1741.7	1736.2	1723.3	1698.7	1664.3	1618.3	1607.3	1569.8	1520.1	1472.2	1425.0
10°	1807.3	1804.3	1776.0	1742.3	1697.5	1646.5	1633.7	1591.9	1537.3	1476.5	1417.5
12.5°	1844.9	1838.8	1806.1	1765.6	1712.2	1662.5	1649.6	1607.3	1545.9	1476.5	1407.1
15°	1842.4	1838.1	1805.5	1761.3	1707.3	1663.7	1652.1	1609.7	1544.0	1470.4	1393.6
17.5°	1793.2	1795.1	1767.5	1723.9	1679.7	1646.5	1636.1	1596.8	1531.8	1458.1	1377.6
20°	1707.3	1715.9	1697.5	1658.8	1634.3	1611.6	1604.8	1571.7	1512.7	1440.3	1360.4
22.5°	1621.4	1629.4	1622.0	1589.5	1585.8	1572.3	1568.6	1544.7	1496.2	1429.3	1350.0
25°	1558.2	1565.5	1564.3	1536.1	1547.1	1546.5	1543.4	1531.8	1492.5	1429.3	1351.8
27.5°	1541.0	1543.4	1541.0	1515.2	1530.5	1542.8	1540.4	1538.5	1503.5	1447.1	1375.2
30°	1599.9	1596.2	1577.2	1525.0	1539.1	1556.3	1553.9	1555.1	1536.7	1493.7	1427.4
32.5°	1835.1	1818.4	1758.2	1611.6	1574.1	1583.3	1584.6	1604.8	1607.9	1565.5	1508.4
35°	2186.8	2168.3	2090.4	1843.7	1682.8	1650.8	1650.8	1681.5	1699.9	1668.6	1634.3
37.5°	2559.4	2539.2	2497.4	2165.3	1911.2	1768.1	1765.0	1786.5	1812.9	1820.2	1828.8
40°	2983.0	2961.5	2973.2	2526.3	2229.7	1971.3	1927.8	1912.4	1983.6	2030.9	2099.6
42.5°	3446.5	3436.7	3441.0	2928.4	2592.6	2275.2	2213.2	2134.0	2219.9	2304.1	2448.3
45°	3875.8	3884.3	3880.1	3358.8	2996.5	2646.1	2580.3	2426.8	2510.9	2655.3	2890.3
47.5°	4251.4	4215.8	4271.1	3829.0	3449.0	3061.1	2980.0	2774.3	2859.7	3037.7	3435.5
50°	4707.6	4702.7	4621.6	4456.5	3996.1	3477.9	3371.6	3133.5	3266.1	3513.5	4122.5
52.5°	5187.1	5098.1	5023.7	4944.5	4576.2	3905.2	3775.0	3491.4	3743.7	4055.0	4959.9
55°	5285.3	5245.4	5337.5	5470.6	5135.5	4349.1	4197.4	3940.2	4281.6	4673.8	5925.6
57.5°	5495.3	5494.7	5684.9	5922.6	5711.3	4819.9	4667.0	4482.3	4886.2	5382.9	6950.8
60°	5637.1	5677.0	6030.6	6491.6	6276.7	5363.8	5223.3	5107.9	5573.9	6175.5	7906.1
62.5°	5711.3	5765.4	6247.9	6722.5	7076.1	6269.4	6128.8	5962.5	6483.7	7044.8	8464.8
65°	5402.5	5508.8	6214.1	6922.0	7776.0	7737.3	7674.1	7381.8	7621.3	7731.8	8262.8
67.5°	4547.9	4656.6	5478.0	6736.0	8275.7	9153.1	9166.6	8667.4	8321.1	7790.7	6947.2
70°	3240.3	3325.6	4005.3	5647.5	7895.0	10078.2	10124.2	9259.9	8181.8	6909.1	4853.7
72.5°	1538.5	1590.7	2234.0	3675.6	6265.1	9234.1	9323.1	8503.5	6957.0	5115.3	2647.9
75°	565.4	581.3	755.1	1563.7	3633.8	6809.7	6914.6	6095.7	4611.8	2546.5	1008.6
77.5°	338.9	349.3	423.6	660.0	1429.3	3892.3	4047.6	3315.2	2015.5	947.9	496.0
80°	237.0	244.4	303.9	410.7	675.4	1483.3	1621.4	1353.1	803.0	599.8	361.0
82.5°	160.2	163.9	213.7	277.5	448.8	529.8	571.5	601.6	541.4	446.3	229.0
85°	105.0	108.6	144.8	182.9	285.5	273.8	280.0	354.2	395.4	303.3	127.1
87.5°	60.1	62.6	87.2	97.6	139.9	116.0	117.2	186.6	253.0	204.5	77.3
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°	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3	1464.3
2.5°	1458.7	1450.7	1432.9	1421.8	1411.4	1408.9	1404.6	1404.0	1403.4	1403.4	1401.5
5°	1426.2	1412.6	1385.0	1369.6	1356.7	1355.5	1354.9	1358.0	1359.2	1360.4	1358.6
7.5°	1405.2	1386.8	1352.4	1330.3	1315.0	1311.3	1317.5	1331.6	1340.8	1344.5	1342.6
10°	1392.3	1369.6	1329.7	1305.8	1292.9	1291.1	1299.0	1315.6	1334.6	1342.0	1341.4
12.5°	1377.6	1351.8	1309.5	1284.3	1276.9	1280.6	1291.1	1306.4	1326.1	1337.7	1338.3
15°	1362.9	1332.8	1289.2	1267.1	1264.1	1269.0	1278.8	1290.5	1305.8	1317.5	1318.7
17.5°	1345.1	1313.8	1270.2	1247.5	1245.0	1247.5	1248.1	1254.2	1264.1	1275.1	1278.2
20°	1326.1	1294.1	1248.7	1226.0	1215.0	1205.1	1194.1	1195.3	1198.4	1209.4	1211.9
22.5°	1312.5	1280.6	1232.1	1200.8	1171.4	1141.9	1119.8	1116.8	1118.0	1127.2	1130.3
25°	1313.8	1280.0	1227.8	1173.8	1109.4	1062.1	1032.7	1027.8	1027.1	1033.9	1038.2
27.5°	1337.7	1304.0	1243.8	1146.2	1041.9	971.8	940.5	936.8	931.9	933.7	938.7
30°	1391.1	1359.8	1282.5	1118.0	968.7	883.4	850.9	847.2	840.5	837.4	841.1
32.5°	1478.4	1452.6	1338.9	1091.0	895.7	807.9	774.8	766.8	762.5	758.8	761.9
35°	1623.2	1612.2	1414.4	1061.5	831.2	749.6	719.5	707.3	701.1	707.9	712.8
37.5°	1850.4	1856.6	1513.4	1015.4	781.5	711.0	685.8	671.7	662.5	668.0	673.5
40°	2172.0	2176.3	1622.6	950.3	738.6	688.2	661.2	648.3	635.5	625.6	625.0
42.5°	2594.4	2550.8	1730.0	879.7	688.9	674.1	644.0	628.1	608.3	581.3	575.8
45°	3095.4	2942.5	1811.6	798.7	633.0	656.9	625.0	602.8	572.1	542.7	539.6
47.5°	3672.5	3363.1	1851.6	714.6	580.7	631.8	601.6	566.6	527.9	513.2	511.4
50°	4377.3	3862.2	1870.7	633.0	535.3	598.5	567.8	526.7	494.2	491.1	489.3
52.5°	5179.7	4462.6	1876.8	566.0	497.9	555.6	540.2	500.3	474.5	477.0	477.0
55°	6019.6	5082.6	1793.2	517.5	463.5	511.4	521.8	489.9	468.4	478.2	481.9
57.5°	6790.7	5632.2	1530.5	480.1	431.0	477.6	515.1	499.7	485.0	524.9	527.3
60°	7382.4	5956.9	1143.1	446.3	407.0	466.0	532.9	537.2	540.8	636.1	649.0
62.5°	7506.4	5848.8	785.8	419.9	396.0	475.8	565.4	566.0	561.7	628.1	636.1
65°	6937.3	5165.6	571.5	405.2	386.8	493.6	593.0	580.1	551.9	602.2	587.5
67.5°	5509.4	3891.7	475.8	394.1	373.3	492.3	622.6	593.0	546.4	589.9	566.0
70°	3576.1	2353.2	423.6	384.9	357.3	469.0	639.8	591.8	530.4	548.8	520.6
72.5°	1744.7	1052.3	388.6	371.4	340.7	436.5	639.1	580.7	513.8	512.6	497.3
75°	682.7	481.9	356.7	351.2	312.5	399.7	622.0	564.8	494.2	474.5	469.0
77.5°	399.7	343.8	316.2	321.1	278.8	362.8	596.7	537.2	467.2	443.9	437.7
80°	291.0	257.3	269.5	277.5	238.2	326.0	562.9	503.4	437.1	448.8	440.2
82.5°	186.6	165.7	218.6	226.6	198.2	288.6	526.1	467.8	394.8	358.5	350.0
85°	95.1	105.0	162.6	172.5	152.8	237.0	481.3	420.5	346.9	298.4	303.3
87.5°	53.4	71.8	103.7	116.0	108.0	182.3	390.5	346.9	283.1	230.3	202.5
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)