

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: P200056

Luminaire Tested: **GAW-AF-02-LED-U-T4W-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200056
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: GAW-AF-02-LED-U-T4W-7030
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 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: 11931.1 lumens
Efficiency: N/A
Efficacy: 105.6 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 - 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

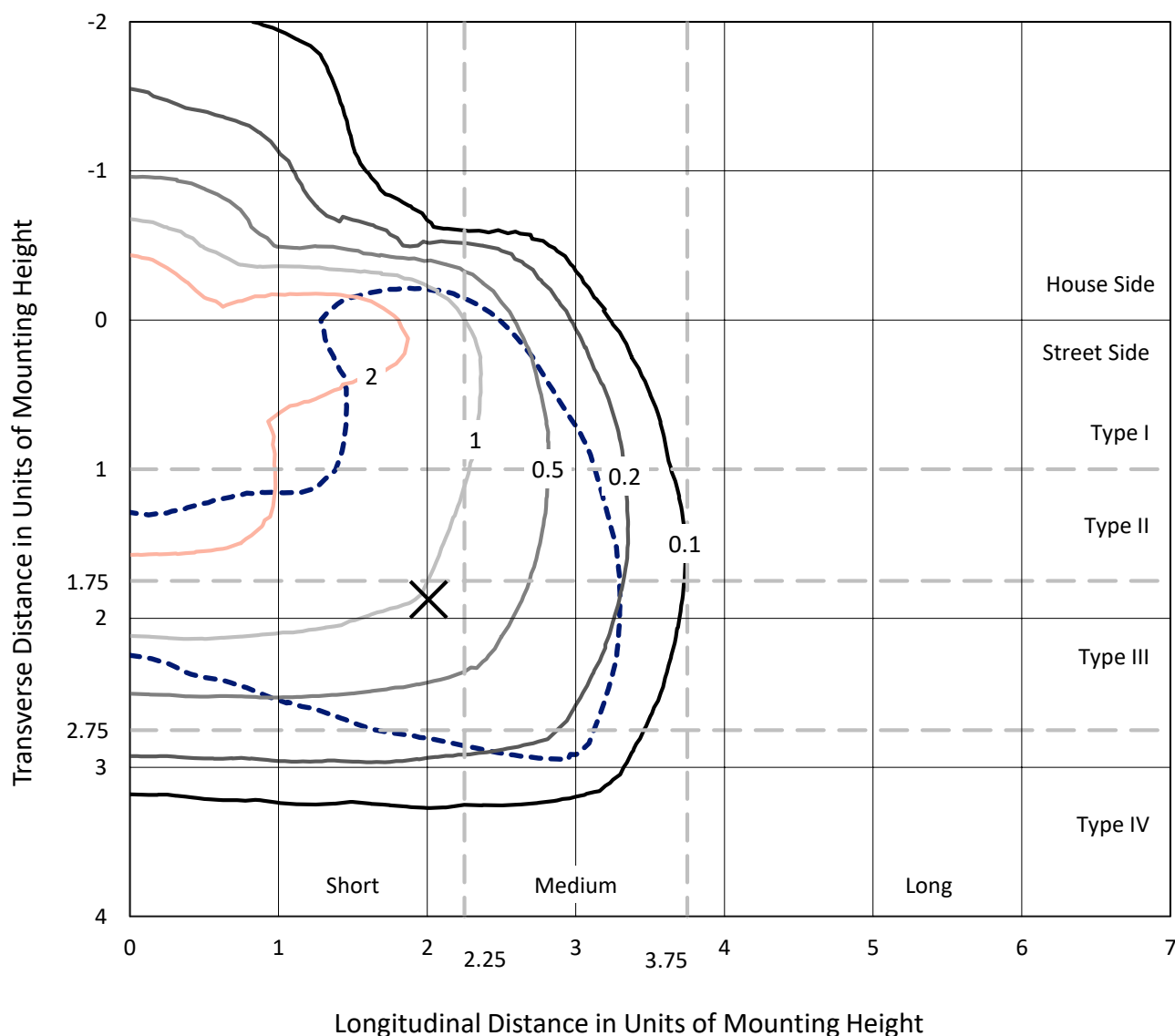


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

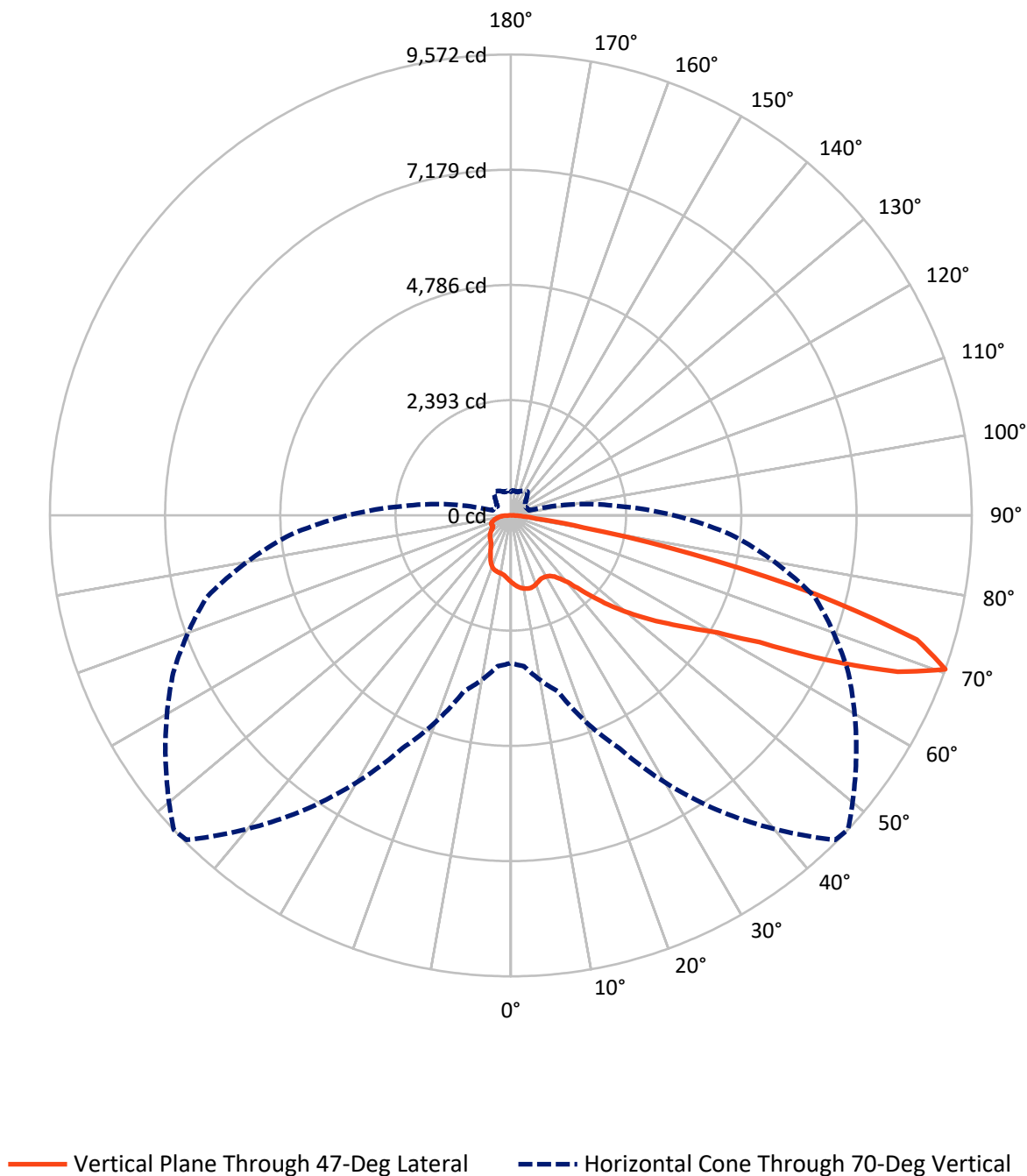


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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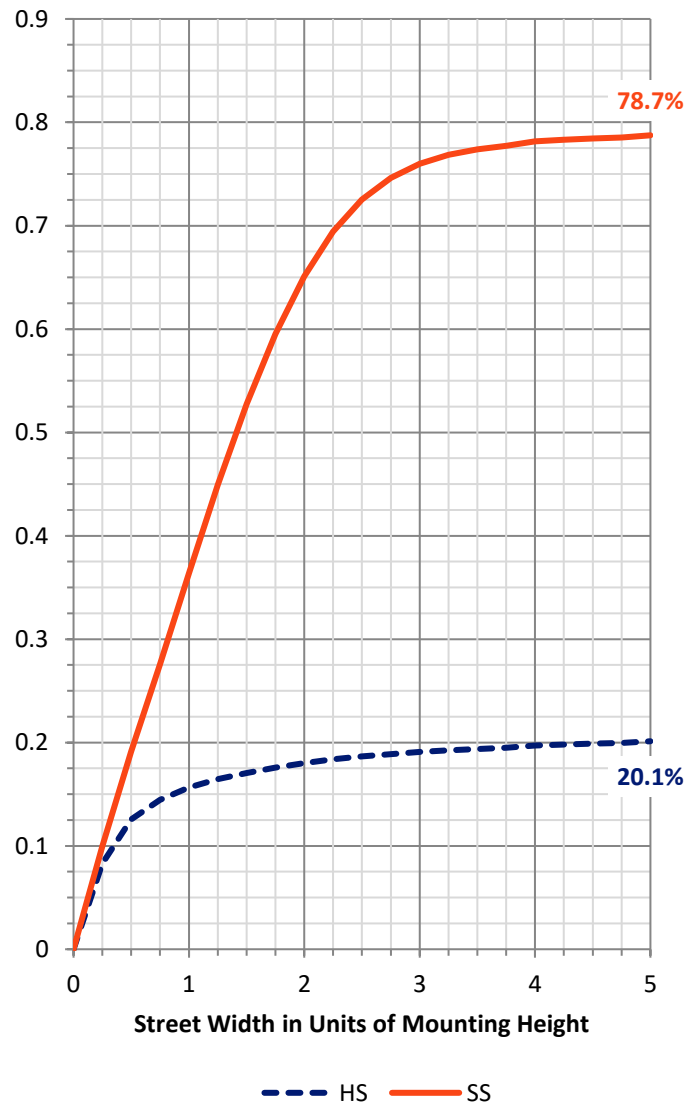
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2489.1	0.0	2489.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9442.0	0.0	9442.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	11931.1	0.0	11931.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.1
10°-20°	389.2	3.3
20°-30°	574.7	4.8
30°-40°	835.3	7.0
40°-50°	1503.2	12.6
50°-60°	2604.1	21.8
60°-70°	3716.9	31.2
70°-80°	1908.0	16.0
80°-90°	267.1	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°	11931.1	100.0
0°-180°	11931.1	100.0

Coefficient of Utilization



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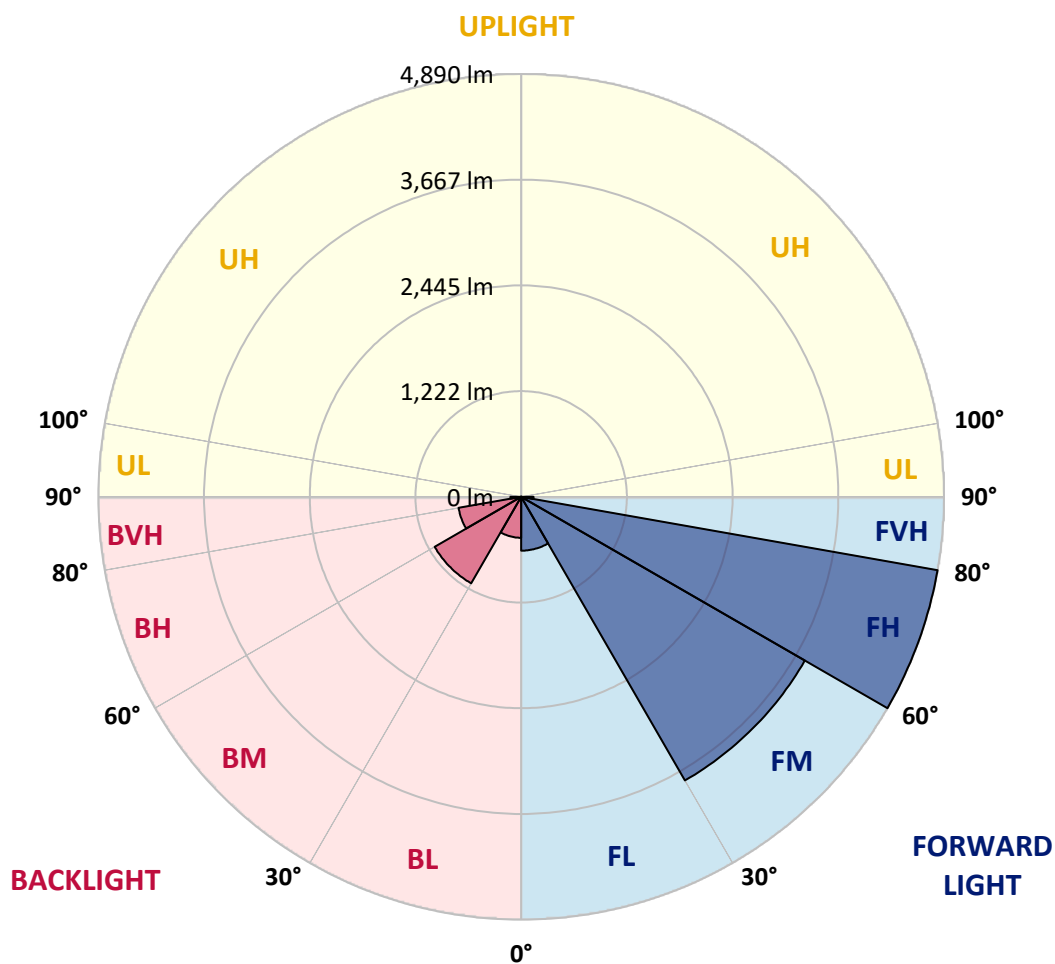
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.5	5.2			
FM	(30°-60°)	3787.3	31.7			
FH	(60°-80°)	4889.7	41.0			G2/5000
FVH	(80°-90°)	142.5	1.2			G2/225
BL	(0°-30°)	473.9	4.0	B1/500		
BM	(30°-60°)	1155.4	9.7	B2/2500		
BH	(60°-80°)	735.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	124.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5
2.5°	1465.6	1462.8	1461.6	1459.2	1456.3	1441.9	1439.0	1428.4	1414.1	1398.8	1383.2
5°	1562.0	1561.5	1555.1	1543.4	1524.8	1492.9	1485.4	1459.8	1425.7	1392.5	1359.4
7.5°	1646.7	1641.5	1629.4	1606.1	1573.7	1530.0	1519.6	1484.2	1437.2	1392.0	1347.2
10°	1708.9	1706.0	1679.2	1647.3	1604.9	1556.7	1544.6	1505.1	1453.4	1396.0	1340.3
12.5°	1744.3	1738.5	1707.7	1669.4	1618.9	1571.9	1559.6	1519.6	1461.6	1396.0	1330.4
15°	1741.9	1737.9	1707.0	1665.3	1614.2	1573.0	1562.0	1522.0	1459.8	1390.3	1317.6
17.5°	1695.4	1697.3	1671.1	1629.9	1588.1	1556.7	1546.9	1509.8	1448.2	1378.6	1302.6
20°	1614.2	1622.4	1604.9	1568.4	1545.2	1523.7	1517.3	1485.9	1430.2	1361.7	1286.3
22.5°	1533.0	1540.5	1533.6	1502.8	1499.2	1486.6	1483.0	1460.5	1414.6	1351.3	1276.3
25°	1473.2	1480.1	1479.1	1452.3	1462.8	1462.1	1459.2	1448.2	1411.1	1351.3	1278.2
27.5°	1457.0	1459.2	1457.0	1432.6	1447.0	1458.7	1456.3	1454.6	1421.6	1368.2	1300.1
30°	1512.7	1509.2	1491.2	1441.9	1455.3	1471.4	1469.1	1470.3	1452.8	1412.2	1349.6
32.5°	1734.9	1719.3	1662.4	1523.7	1488.3	1497.0	1498.2	1517.3	1520.3	1480.1	1426.2
35°	2067.6	2050.1	1976.4	1743.1	1591.1	1560.9	1560.9	1589.8	1607.3	1577.7	1545.2
37.5°	2419.9	2400.8	2361.3	2047.3	1806.9	1671.6	1668.8	1689.1	1714.1	1721.1	1729.1
40°	2820.4	2800.1	2811.1	2388.5	2108.1	1863.9	1822.7	1808.1	1875.4	1920.1	1985.1
42.5°	3258.6	3249.4	3253.4	2768.7	2451.2	2151.2	2092.6	2017.7	2098.9	2178.4	2314.8
45°	3664.4	3672.5	3668.5	3175.6	2833.2	2501.7	2439.6	2294.6	2374.1	2510.4	2732.8
47.5°	4019.6	3986.0	4038.2	3620.3	3261.0	2894.2	2817.5	2623.1	2703.7	2872.1	3248.2
50°	4450.9	4446.3	4369.6	4213.5	3778.1	3288.2	3187.8	2962.7	3088.0	3321.9	3897.8
52.5°	4904.2	4820.1	4749.8	4674.9	4326.6	3692.3	3569.2	3301.0	3539.6	3833.9	4689.5
55°	4997.1	4959.4	5046.4	5172.5	4855.5	4112.0	3968.6	3725.3	4048.0	4419.0	5602.5
57.5°	5195.6	5195.1	5375.0	5599.6	5399.9	4557.1	4412.7	4237.8	4619.8	5089.4	6571.8
60°	5329.6	5367.5	5701.8	6137.7	5934.5	5071.4	4938.5	4829.4	5269.9	5838.9	7475.1
62.5°	5399.9	5451.1	5907.3	6355.9	6690.3	5927.6	5794.7	5637.3	6130.2	6660.7	8003.2
65°	5108.0	5208.4	5875.3	6544.6	7352.0	7315.5	7255.7	6979.4	7205.7	7310.2	7812.4
67.5°	4300.0	4402.7	5179.4	6368.7	7824.5	8654.0	8666.8	8194.9	7867.4	7365.9	6568.4
70°	3063.6	3144.3	3786.9	5339.6	7464.6	9528.7	9572.2	8755.0	7735.7	6532.4	4589.1
72.5°	1454.6	1504.0	2112.3	3475.2	5923.5	8730.6	8814.7	8039.9	6577.7	4836.4	2503.4
75°	534.6	549.7	714.0	1478.4	3435.6	6438.4	6537.6	5763.3	4360.3	2407.7	953.8
77.5°	320.4	330.3	400.6	624.0	1351.3	3680.1	3827.0	3134.4	1905.6	896.3	469.0
80°	224.1	231.0	287.4	388.3	638.5	1402.4	1533.0	1279.3	759.3	567.0	341.3
82.5°	151.6	154.9	202.0	262.3	424.4	501.0	540.4	568.8	512.0	422.0	216.6
85°	99.2	102.7	137.0	172.9	269.9	258.8	264.7	334.9	373.7	286.7	120.1
87.5°	57.0	59.2	82.4	92.4	132.3	109.7	110.9	176.5	239.2	193.3	73.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5	1384.5
2.5°	1379.2	1371.6	1354.9	1344.3	1334.5	1332.1	1328.0	1327.5	1327.0	1327.0	1325.2
5°	1348.4	1335.5	1309.5	1294.9	1282.8	1281.6	1281.1	1284.1	1285.1	1286.3	1284.6
7.5°	1328.7	1311.2	1278.8	1257.8	1243.4	1239.9	1245.7	1259.0	1267.7	1271.2	1269.5
10°	1316.5	1294.9	1257.2	1234.6	1222.4	1220.7	1228.3	1243.9	1262.0	1268.8	1268.3
12.5°	1302.6	1278.2	1238.1	1214.3	1207.4	1210.8	1220.7	1235.1	1253.8	1264.7	1265.4
15°	1288.6	1260.2	1219.0	1198.0	1195.2	1199.7	1209.1	1220.1	1234.6	1245.7	1246.8
17.5°	1271.8	1242.2	1201.0	1179.5	1177.2	1179.5	1180.1	1185.9	1195.2	1205.5	1208.5
20°	1253.8	1223.6	1180.6	1159.1	1148.8	1139.5	1128.9	1130.2	1133.0	1143.5	1145.8
22.5°	1240.9	1210.8	1164.9	1135.3	1107.5	1079.6	1058.7	1055.9	1057.0	1065.8	1068.7
25°	1242.2	1210.3	1160.9	1109.8	1048.9	1004.2	976.3	971.7	971.1	977.5	981.5
27.5°	1264.7	1232.9	1175.9	1083.8	985.1	918.9	889.3	885.8	881.1	882.9	887.5
30°	1315.3	1285.7	1212.6	1057.0	915.9	835.3	804.4	801.0	794.7	791.7	795.2
32.5°	1397.8	1373.4	1266.0	1031.5	846.9	763.8	732.6	724.9	720.9	717.4	720.3
35°	1534.8	1524.2	1337.4	1003.6	785.9	708.8	680.2	668.6	662.8	669.2	673.9
37.5°	1749.5	1755.2	1430.9	960.1	738.9	672.2	648.4	635.1	626.3	631.5	636.8
40°	2053.6	2057.7	1534.1	898.5	698.2	650.6	625.2	613.0	600.8	591.5	590.9
42.5°	2453.0	2411.8	1635.7	831.8	651.3	637.3	608.9	593.9	575.2	549.7	544.4
45°	2926.6	2782.1	1712.9	755.2	598.4	621.1	590.9	570.0	541.0	513.1	510.2
47.5°	3472.3	3179.8	1750.7	675.7	549.1	597.3	568.8	535.8	499.2	485.2	483.5
50°	4138.6	3651.7	1768.7	598.4	506.2	566.0	536.9	498.0	467.3	464.4	462.6
52.5°	4897.3	4219.3	1774.5	535.2	470.8	525.3	510.8	473.1	448.7	451.0	451.0
55°	5691.4	4805.6	1695.4	489.4	438.2	483.5	493.5	463.2	442.9	452.3	455.6
57.5°	6420.4	5325.1	1447.0	453.9	407.4	451.6	487.0	472.4	458.6	496.2	498.7
60°	6979.9	5632.1	1080.8	422.0	384.8	440.6	503.8	507.9	511.4	601.4	613.5
62.5°	7097.2	5529.9	743.0	397.0	374.4	449.8	534.6	535.2	531.1	593.9	601.4
65°	6559.2	4883.9	540.4	383.1	365.7	466.6	560.7	548.5	521.8	569.5	555.5
67.5°	5208.9	3679.6	449.8	372.7	352.9	465.6	588.6	560.7	516.6	557.8	535.2
70°	3381.1	2224.8	400.6	364.0	337.8	443.5	604.9	559.5	501.5	518.9	492.2
72.5°	1649.6	995.0	367.4	351.2	322.2	412.7	604.2	549.1	485.8	484.7	470.2
75°	645.5	455.6	337.3	332.0	295.4	377.9	588.1	534.1	467.3	448.7	443.5
77.5°	377.9	325.0	299.0	303.6	263.6	343.1	564.3	507.9	441.7	419.7	413.9
80°	275.2	243.2	254.8	262.3	225.2	308.2	532.3	476.0	413.3	424.4	416.2
82.5°	176.5	156.7	206.6	214.1	187.5	272.8	497.4	442.3	373.2	339.0	330.8
85°	89.9	99.2	153.8	163.2	144.5	224.1	455.1	397.6	328.0	282.1	286.7
87.5°	50.5	68.0	98.2	109.7	102.1	172.4	369.2	328.0	267.5	217.7	191.5
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)