

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: P199933

Luminaire Tested: **GAP-AF-01-LED-U-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-AFL-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5095.8 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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



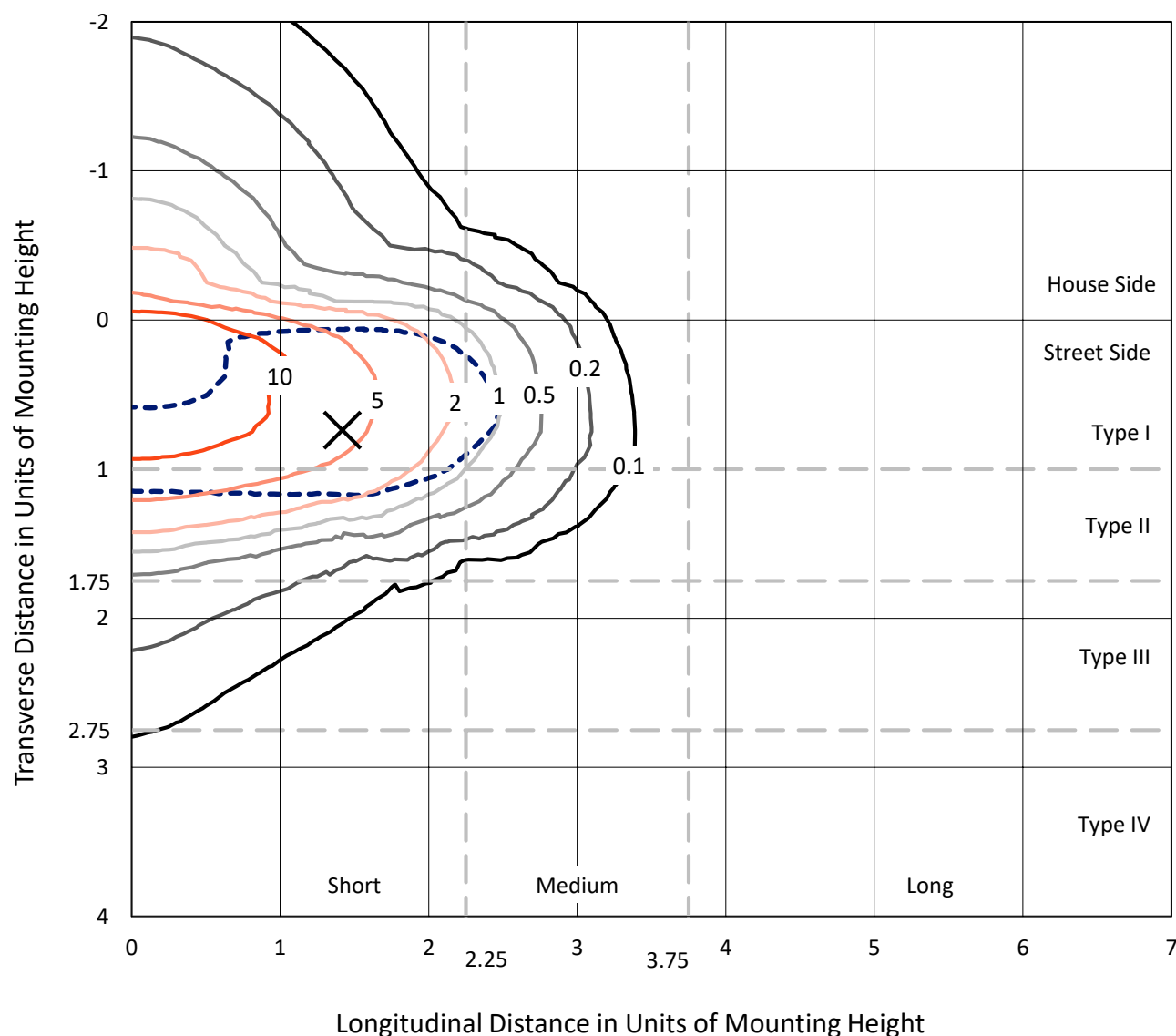
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

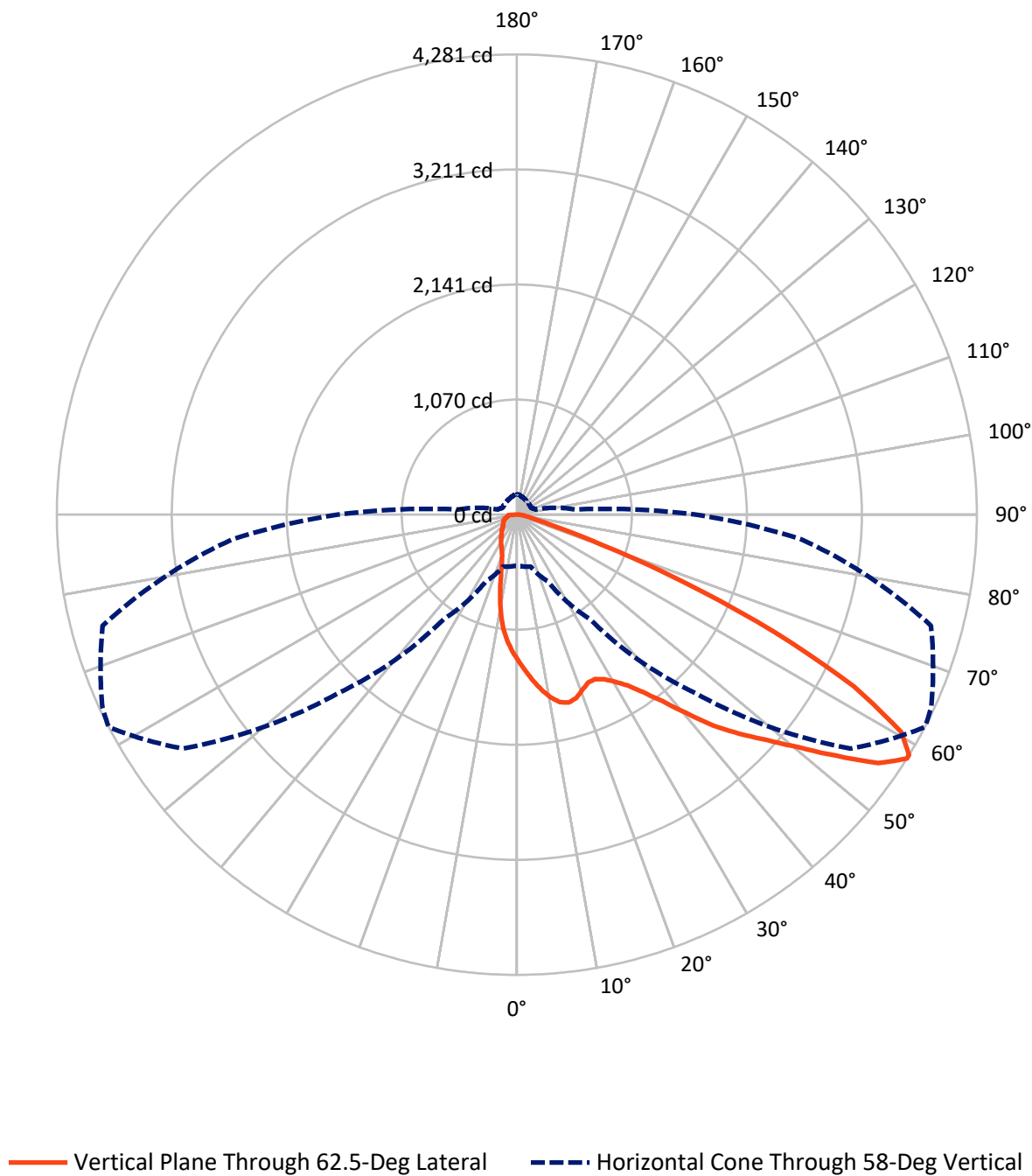


Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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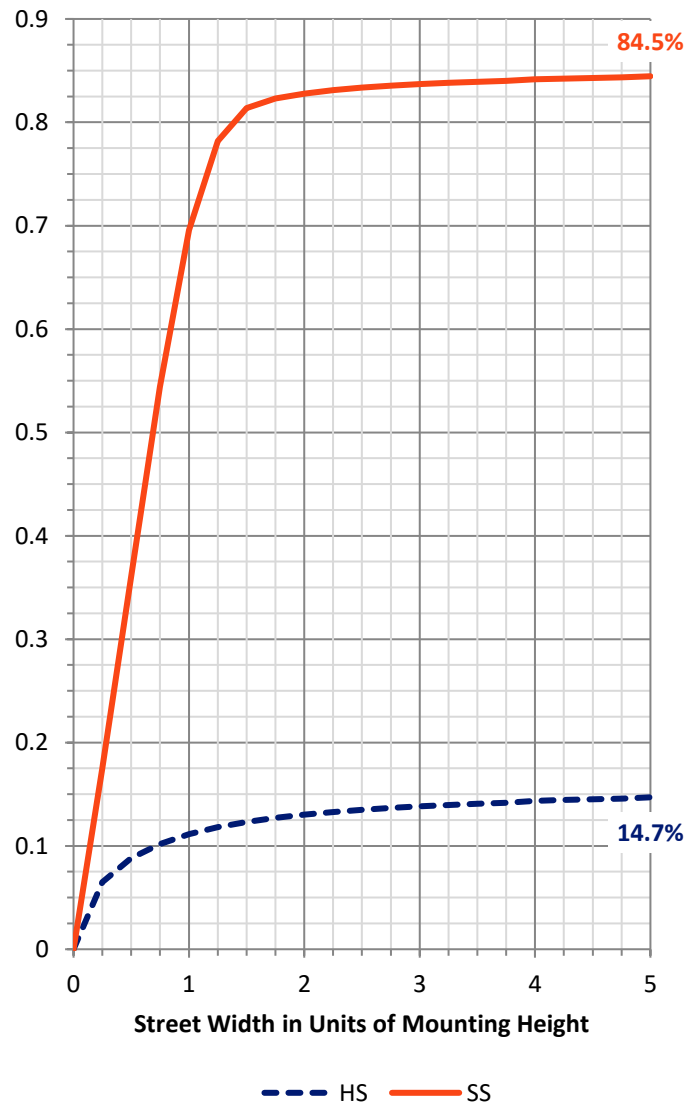
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	777.1	0.0	777.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4318.7	0.0	4318.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	5095.8	0.0	5095.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	2.4
10°-20°	309.4	6.1
20°-30°	500.2	9.8
30°-40°	794.1	15.6
40°-50°	1162.0	22.8
50°-60°	1215.3	23.8
60°-70°	718.0	14.1
70°-80°	202.3	4.0
80°-90°	73.4	1.4
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°	5095.8	100.0
0°-180°	5095.8	100.0

Coefficient of Utilization



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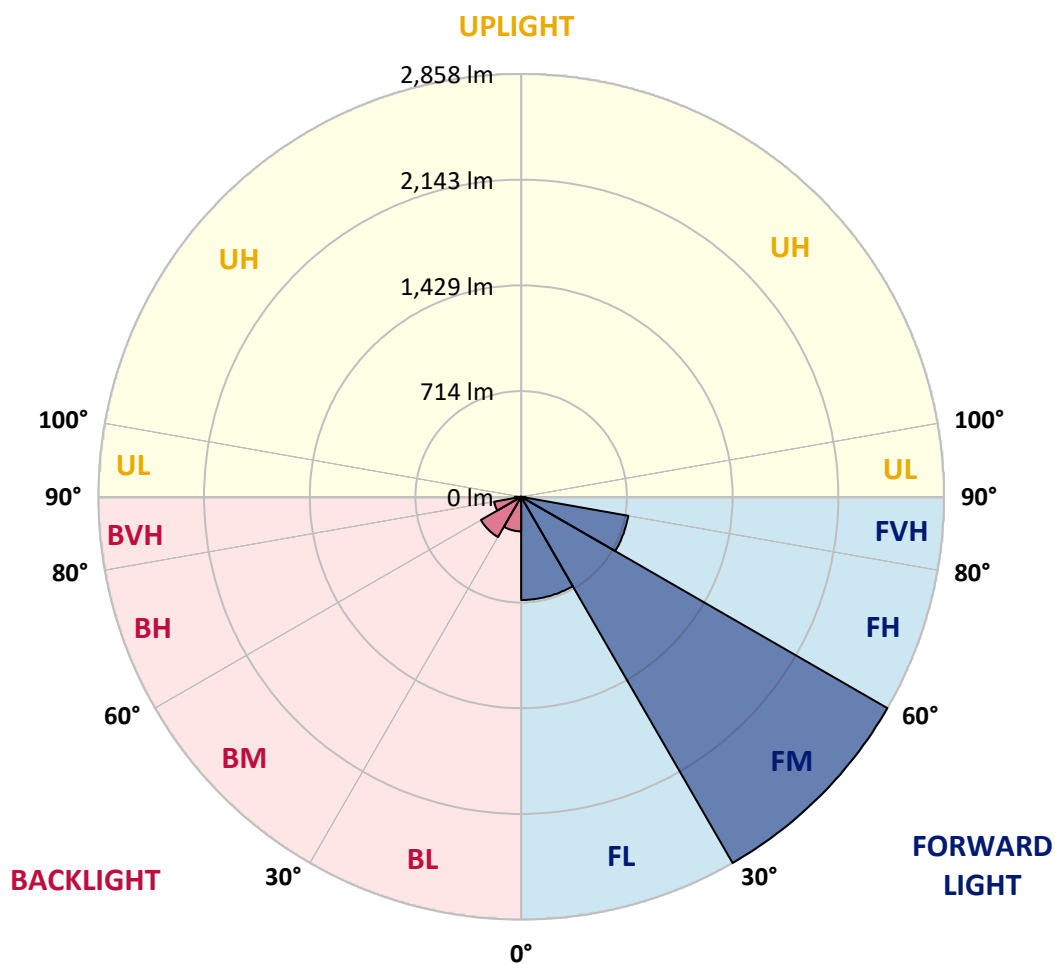
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	697.2	13.7			
FM	(30°-60°)	2857.7	56.1			
FH	(60°-80°)	734.8	14.4			G1/1800
FVH	(80°-90°)	29.0	0.6			G1/100
BL	(0°-30°)	233.6	4.6	B1/500		
BM	(30°-60°)	313.7	6.2	B1/1000		
BH	(60°-80°)	185.4	3.6	B1/500		G1/500
BVH	(80°-90°)	44.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1546.8	1534.3	1526.4	1519.5	1510.3	1490.9	1464.7	1448.1	1439.7	1411.2	1377.3
5°	1698.4	1687.4	1679.2	1669.9	1653.5	1623.0	1580.9	1547.2	1530.7	1473.6	1405.9
7.5°	1662.9	1667.6	1681.6	1706.3	1727.5	1723.3	1685.8	1643.0	1621.2	1541.7	1439.1
10°	1448.9	1456.8	1481.2	1539.1	1632.7	1728.7	1758.0	1728.4	1706.3	1609.2	1473.2
12.5°	1405.9	1405.7	1407.6	1423.0	1478.6	1613.8	1760.3	1790.1	1776.9	1673.6	1507.9
15°	1423.4	1423.8	1422.4	1429.0	1446.3	1499.7	1687.0	1813.8	1823.2	1738.4	1544.0
17.5°	1469.5	1468.3	1462.8	1462.8	1469.0	1489.9	1600.5	1791.8	1835.0	1795.5	1575.5
20°	1546.8	1541.2	1526.6	1513.1	1506.4	1517.7	1565.0	1740.9	1814.6	1845.7	1601.7
22.5°	1640.3	1636.0	1612.3	1583.5	1560.2	1560.0	1583.2	1696.5	1779.3	1893.0	1623.8
25°	1761.3	1754.3	1719.0	1673.0	1632.3	1616.6	1623.0	1694.4	1760.0	1944.4	1643.5
27.5°	1903.4	1890.6	1848.8	1782.4	1722.5	1691.0	1681.6	1733.5	1777.6	2007.9	1670.8
30°	2075.6	2060.9	2007.5	1920.9	1836.2	1784.5	1764.6	1802.8	1835.7	2085.4	1714.8
32.5°	2271.7	2250.5	2188.7	2093.2	1981.9	1903.1	1870.7	1894.4	1920.7	2178.8	1769.7
35°	2542.6	2517.5	2428.0	2296.2	2170.4	2062.2	2010.4	2027.7	2053.1	2318.1	1849.1
37.5°	2727.3	2716.0	2656.6	2532.7	2395.9	2271.5	2191.3	2201.3	2215.8	2491.9	1950.9
40°	2725.7	2730.3	2731.5	2732.7	2639.6	2520.3	2434.2	2423.6	2420.7	2683.0	2066.5
42.5°	2589.1	2607.9	2668.3	2790.9	2847.7	2792.8	2713.9	2683.5	2668.3	2908.1	2189.1
45°	2380.1	2390.3	2503.4	2743.0	2954.2	3062.9	3003.1	2907.1	2879.7	3114.9	2290.8
47.5°	2272.4	2283.4	2354.7	2615.7	2953.0	3280.9	3315.5	3132.7	3083.8	3294.9	2378.7
50°	2016.0	2038.9	2128.7	2394.5	2845.2	3381.2	3642.0	3401.5	3300.1	3470.1	2466.7
52.5°	1544.8	1580.3	1681.0	2030.8	2571.9	3331.7	3903.4	3727.3	3584.2	3651.5	2542.4
55°	974.5	1000.9	1085.4	1434.2	2057.5	3073.1	4002.5	4079.7	3952.6	3823.3	2607.9
57.5°	529.8	541.6	573.3	791.9	1338.2	2501.8	3858.1	4280.3	4227.6	3969.2	2657.3
58°	474.1	482.1	501.7	686.2	1186.9	2345.6	3794.0	4281.1	4254.7	3990.4	2661.1
60°	351.9	347.7	330.2	391.5	660.6	1620.5	3406.7	4109.8	4187.3	4016.7	2642.4
62.5°	309.1	299.3	263.5	259.4	321.3	746.5	2606.7	3520.5	3703.6	3867.4	2528.7
65°	290.3	279.8	233.7	218.8	231.8	315.8	1535.5	2640.2	2869.9	3414.9	2237.8
67.5°	276.4	262.8	214.8	194.4	195.3	208.8	615.4	1662.9	1921.4	2592.7	1740.6
70°	263.0	248.1	198.7	175.2	169.7	165.1	244.7	832.4	1066.8	1637.7	1109.8
72.5°	248.6	234.0	184.5	160.1	149.2	134.2	159.8	340.5	475.6	774.8	503.4
75°	227.7	214.4	170.3	146.6	131.2	111.1	120.7	177.8	213.3	308.5	242.5
77.5°	202.0	191.2	154.5	135.6	116.4	90.2	92.9	123.4	136.8	176.6	144.2
80°	145.2	149.0	137.4	122.0	103.7	73.2	71.2	90.0	97.1	113.5	93.9
82.5°	101.9	104.2	113.7	99.5	85.7	57.6	52.6	63.4	67.6	74.7	50.6
85°	70.3	68.0	78.0	69.4	62.0	38.4	35.9	42.9	45.6	46.3	26.1
87.5°	42.3	42.3	45.2	37.1	33.4	19.8	19.4	24.5	26.1	24.9	14.4
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°	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6	1353.6
2.5°	1357.2	1340.2	1303.9	1274.9	1238.2	1200.0	1178.7	1155.9	1140.3	1128.9	1147.0
5°	1367.5	1332.8	1257.9	1186.9	1108.3	1026.8	964.9	907.3	867.2	842.3	865.8
7.5°	1383.9	1330.3	1211.0	1089.7	948.8	813.0	691.6	615.4	571.1	549.2	562.9
10°	1402.6	1326.5	1156.1	957.8	756.4	585.3	494.5	463.8	453.8	449.7	451.6
12.5°	1418.1	1318.3	1088.7	798.5	567.9	462.1	436.1	435.3	437.5	437.9	438.6
15°	1429.2	1306.3	988.6	632.5	454.2	421.0	419.7	424.0	428.1	429.7	430.7
17.5°	1436.6	1281.6	875.6	500.1	407.0	401.2	404.6	410.0	414.4	415.6	416.6
20°	1435.8	1245.3	741.0	417.1	381.4	381.4	387.1	391.3	391.5	390.2	390.9
22.5°	1428.4	1195.8	610.4	372.9	358.5	362.6	368.3	364.3	347.5	336.4	337.2
25°	1416.0	1136.4	498.7	344.8	337.4	344.6	342.8	312.2	288.2	277.4	277.4
27.5°	1405.0	1066.4	412.8	320.3	316.3	325.1	295.4	267.5	257.6	252.4	250.7
30°	1397.0	990.8	355.4	296.8	296.3	289.9	256.3	248.6	246.9	242.9	241.4
32.5°	1398.9	914.3	318.7	276.2	277.8	248.1	237.5	239.3	237.7	233.5	231.5
35°	1414.8	841.6	294.7	257.6	252.4	224.1	226.5	229.7	229.1	223.1	221.2
37.5°	1443.1	772.7	278.8	241.9	220.2	212.1	216.0	220.8	219.6	215.5	214.0
40°	1472.9	707.9	265.8	229.7	201.4	204.0	207.4	210.0	211.2	212.4	211.4
42.5°	1501.9	640.3	249.9	217.2	193.4	196.3	197.8	200.4	206.8	211.4	211.2
45°	1519.1	576.7	233.7	199.4	187.2	188.8	187.9	193.2	201.0	208.5	208.8
47.5°	1538.4	527.1	220.8	183.1	181.2	182.4	179.5	184.7	192.0	201.0	202.0
50°	1561.7	497.6	210.5	170.1	172.9	172.9	172.3	177.1	187.2	197.8	199.6
52.5°	1588.1	491.8	201.8	160.7	164.9	164.7	165.3	172.5	183.5	193.9	195.6
55°	1620.2	507.5	192.4	153.8	156.9	157.9	160.3	168.5	177.8	189.6	190.3
57.5°	1657.7	539.2	184.9	148.3	149.6	152.9	156.7	164.1	174.2	187.2	187.9
58°	1663.9	545.9	183.8	147.8	148.3	151.9	156.2	163.5	173.5	187.6	188.4
60°	1664.1	568.2	181.2	145.7	142.8	148.8	153.6	160.7	172.3	189.3	190.9
62.5°	1605.1	567.9	179.3	142.6	137.0	144.4	150.0	158.4	171.1	193.4	196.7
65°	1413.4	516.1	170.1	137.7	132.4	140.6	146.9	156.7	174.5	211.2	213.3
67.5°	1105.4	423.1	153.1	131.0	126.4	136.8	145.0	156.5	178.1	215.2	216.7
70°	731.0	316.6	134.4	123.4	120.1	132.2	145.9	164.7	173.9	206.6	202.7
72.5°	379.3	222.3	119.3	113.7	113.0	128.2	159.8	163.7	169.9	194.4	189.6
75°	199.2	154.3	106.1	103.1	104.4	127.2	188.6	159.3	164.7	186.0	195.1
77.5°	122.0	124.5	94.8	93.6	95.9	124.3	188.4	153.8	156.9	171.1	181.2
80°	81.6	101.1	86.1	86.5	88.1	113.7	169.2	145.2	147.6	161.7	172.1
82.5°	51.6	59.8	78.2	82.3	80.2	93.9	143.7	132.2	135.6	184.9	195.6
85°	26.1	37.4	68.0	79.2	72.2	65.8	116.6	116.0	117.6	133.4	139.5
87.5°	12.0	20.6	53.0	69.2	54.5	41.1	84.6	85.9	92.7	94.8	94.8
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)