

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: P193301

Luminaire Tested: **GAN-AF-03-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193301
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: GAN-AF-03-LED-U-T4W-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14099.9 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 124
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



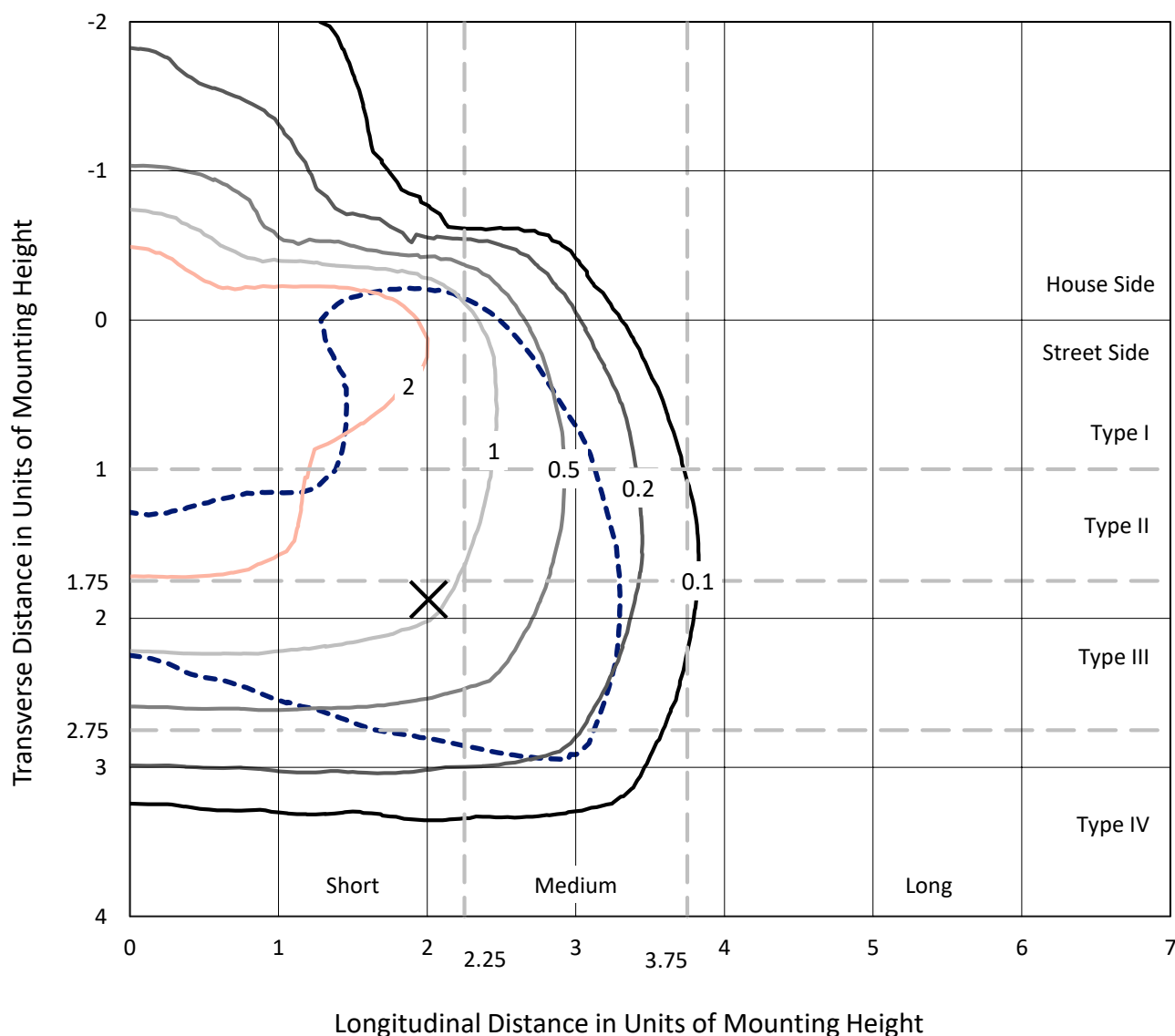
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

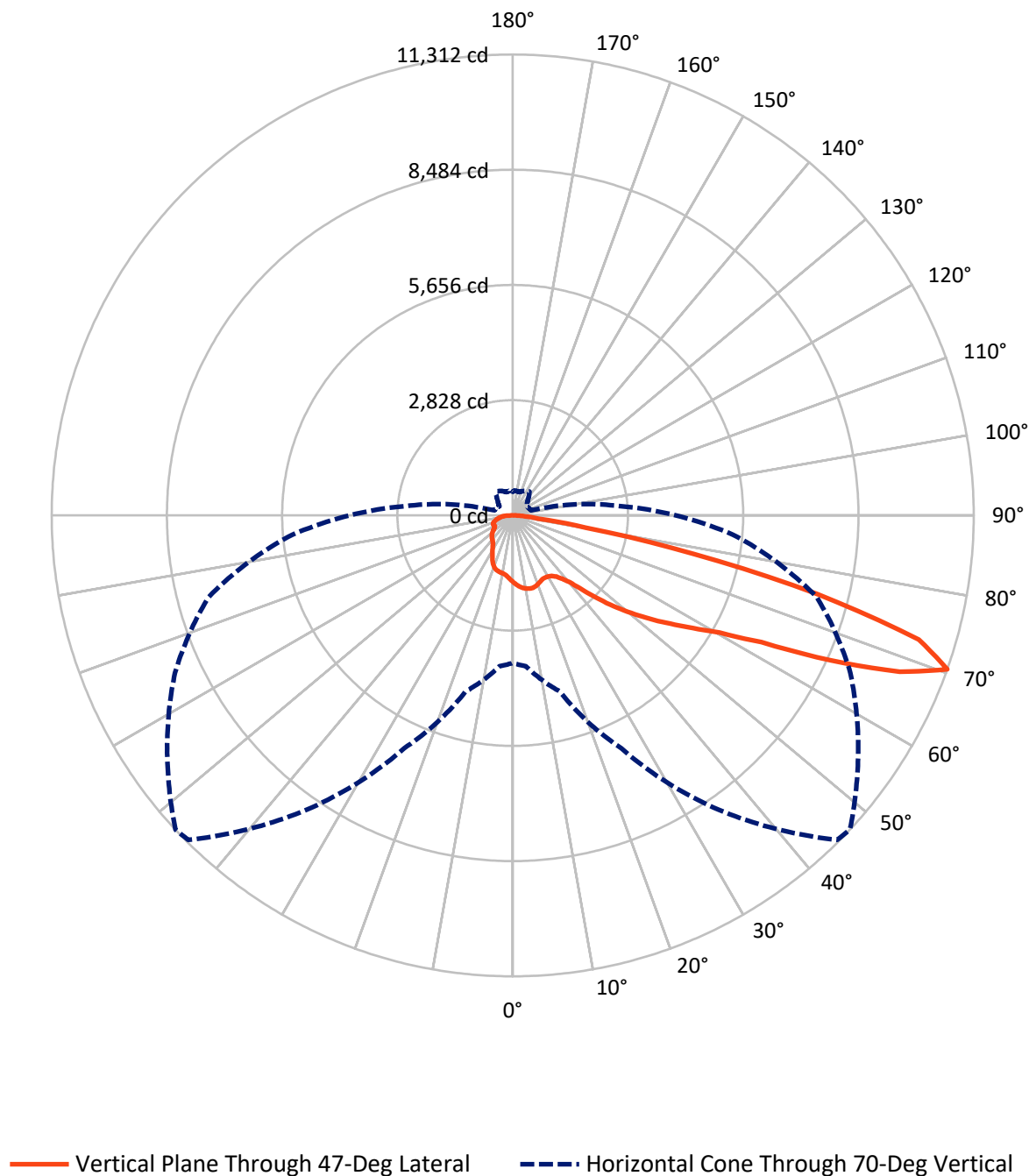


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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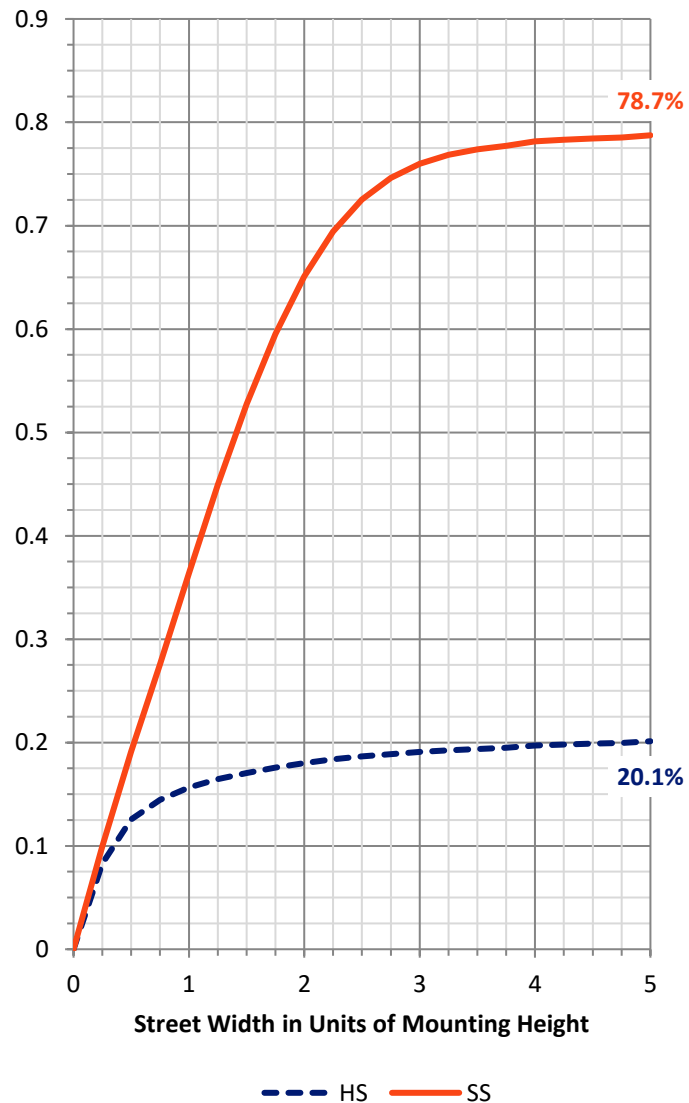
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2941.5	0.0	2941.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	11158.4	0.0	11158.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	14099.9	0.0	14099.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.8	1.1
10°-20°	459.9	3.3
20°-30°	679.1	4.8
30°-40°	987.1	7.0
40°-50°	1776.4	12.6
50°-60°	3077.5	21.8
60°-70°	4392.5	31.2
70°-80°	2254.9	16.0
80°-90°	315.7	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°	14099.9	100.0
0°-180°	14099.9	100.0

Coefficient of Utilization



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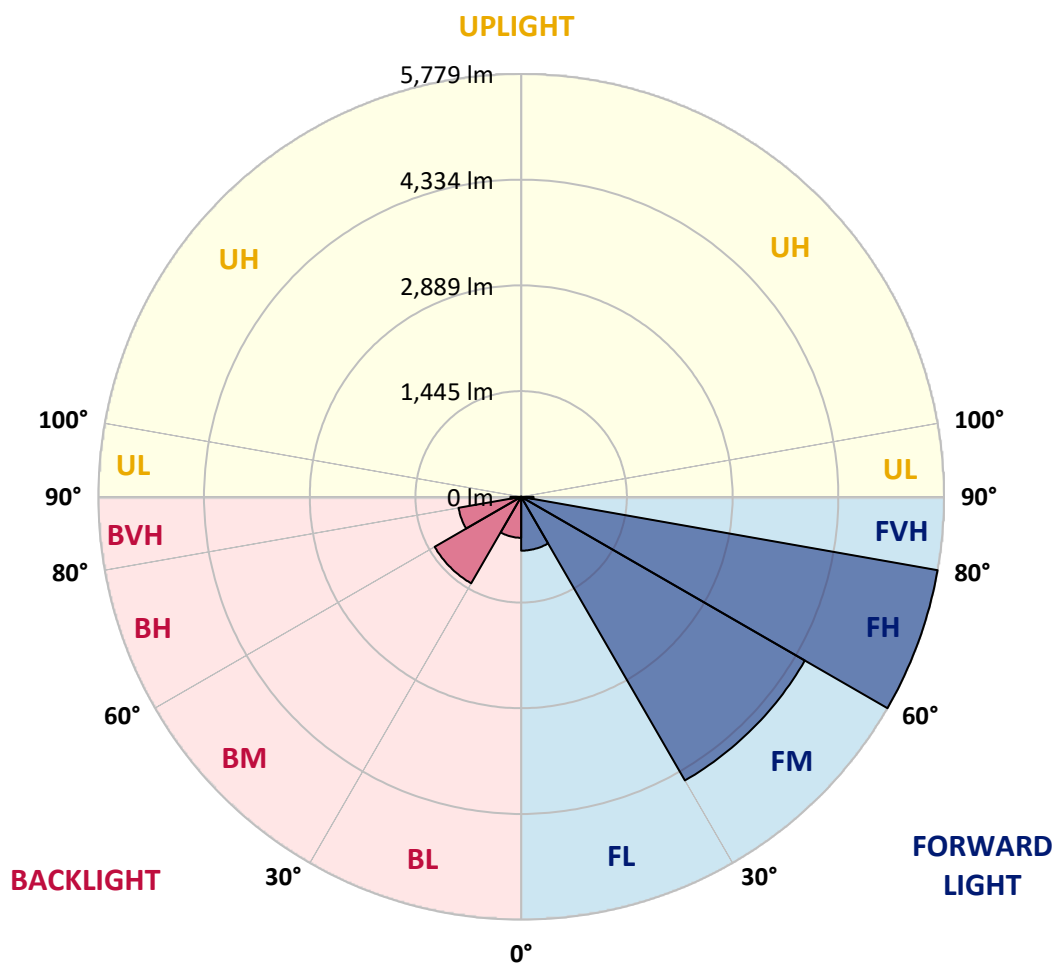
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.7	5.2			
FM	(30°-60°)	4475.7	31.7			
FH	(60°-80°)	5778.5	41.0			G3/7500
FVH	(80°-90°)	168.4	1.2			G2/225
BL	(0°-30°)	560.1	4.0	B2/1000		
BM	(30°-60°)	1365.4	9.7	B2/2500		
BH	(60°-80°)	868.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	147.2	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°	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0
2.5°	1732.1	1728.6	1727.3	1724.5	1721.1	1703.9	1700.5	1688.2	1671.0	1653.2	1634.6
5°	1845.9	1845.3	1837.7	1824.0	1802.0	1764.3	1755.4	1725.2	1684.8	1645.7	1606.5
7.5°	1946.1	1939.9	1925.4	1898.1	1859.7	1808.2	1795.9	1754.0	1698.4	1644.9	1592.1
10°	2019.4	2016.1	1984.4	1946.8	1896.7	1839.7	1825.4	1778.7	1717.7	1649.7	1583.9
12.5°	2061.2	2054.5	2018.1	1972.7	1913.1	1857.6	1843.2	1795.9	1727.3	1649.7	1572.2
15°	2058.6	2053.7	2017.5	1968.1	1907.6	1858.9	1845.9	1798.6	1725.2	1642.9	1557.2
17.5°	2003.7	2005.8	1974.9	1926.2	1876.8	1839.7	1828.1	1784.2	1711.4	1629.2	1539.4
20°	1907.6	1917.3	1896.7	1853.5	1826.0	1800.7	1793.2	1756.2	1690.2	1609.3	1520.2
22.5°	1811.6	1820.6	1812.3	1776.0	1771.8	1756.8	1752.6	1725.9	1671.6	1597.0	1508.5
25°	1740.9	1749.2	1747.8	1716.3	1728.6	1727.9	1724.5	1711.4	1667.7	1597.0	1510.5
27.5°	1721.8	1724.5	1721.8	1693.0	1710.1	1723.8	1721.1	1718.9	1680.0	1616.8	1536.5
30°	1787.6	1783.5	1762.3	1703.9	1719.7	1739.0	1736.1	1737.5	1717.0	1668.9	1594.8
32.5°	2050.4	2031.7	1964.6	1800.7	1758.8	1769.1	1770.4	1793.2	1796.5	1749.2	1685.5
35°	2443.4	2422.9	2335.8	2060.0	1880.3	1844.6	1844.6	1878.8	1899.5	1864.5	1826.0
37.5°	2859.8	2837.1	2790.5	2419.4	2135.4	1975.6	1972.1	1996.1	2025.6	2033.9	2043.4
40°	3333.1	3309.1	3322.1	2822.7	2491.4	2202.6	2153.9	2136.8	2216.4	2269.2	2346.1
42.5°	3851.1	3840.0	3844.9	3272.1	2896.8	2542.1	2472.9	2384.4	2480.4	2574.4	2735.7
45°	4330.5	4340.1	4335.3	3752.9	3348.2	2956.5	2883.2	2711.6	2805.6	2966.8	3229.4
47.5°	4750.3	4710.5	4772.2	4278.4	3853.8	3420.3	3329.6	3099.9	3195.2	3394.1	3838.8
50°	5260.0	5254.5	5163.9	4979.4	4465.0	3886.1	3767.4	3501.2	3649.4	3925.8	4606.3
52.5°	5795.7	5696.2	5613.3	5524.8	5113.3	4363.4	4218.0	3901.1	4183.0	4530.8	5541.9
55°	5905.5	5860.8	5963.8	6112.6	5738.1	4859.5	4690.0	4402.5	4783.9	5222.3	6620.9
57.5°	6140.1	6139.4	6352.0	6617.5	6381.5	5385.5	5214.7	5008.2	5459.5	6014.5	7766.4
60°	6298.6	6343.1	6738.2	7253.4	7013.4	5993.3	5836.2	5707.2	6227.9	6900.2	8833.8
62.5°	6381.5	6441.9	6981.1	7511.3	7906.4	7005.0	6848.1	6662.1	7244.4	7871.5	9458.1
65°	6036.5	6155.1	6943.3	7734.3	8688.4	8645.2	8574.5	8248.1	8515.5	8639.0	9232.4
67.5°	5081.6	5203.0	6120.9	7526.5	9246.8	10227.1	10242.2	9684.4	9297.5	8704.9	7762.5
70°	3620.6	3715.9	4475.3	6310.2	8821.5	11260.8	11312.2	10346.5	9141.8	7719.8	5423.2
72.5°	1718.9	1777.3	2496.2	4106.8	7000.2	10317.6	10417.1	9501.3	7773.4	5715.5	2958.5
75°	631.7	649.6	843.7	1747.2	4060.2	7608.7	7726.0	6811.0	5153.0	2845.4	1127.0
77.5°	378.7	390.3	473.3	737.4	1597.0	4349.1	4522.6	3704.2	2252.1	1059.2	554.3
80°	264.7	273.0	339.6	458.9	754.6	1657.3	1811.6	1511.8	897.2	670.2	403.3
82.5°	179.0	183.1	238.7	310.1	501.4	591.9	638.6	672.3	605.0	498.7	255.8
85°	117.4	121.4	161.9	204.5	318.9	305.9	312.8	395.8	441.7	338.8	142.0
87.5°	67.2	69.9	97.5	109.0	156.3	129.7	131.0	208.5	282.7	228.5	86.5
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°	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0	1636.0
2.5°	1629.8	1621.0	1601.0	1588.7	1577.0	1574.3	1569.5	1568.9	1568.1	1568.1	1566.0
5°	1593.5	1578.4	1547.5	1530.4	1516.0	1514.7	1513.9	1517.4	1518.7	1520.2	1518.0
7.5°	1570.2	1549.7	1511.2	1486.5	1469.3	1465.2	1472.0	1487.9	1498.2	1502.4	1500.2
10°	1555.8	1530.4	1485.8	1459.0	1444.6	1442.5	1451.5	1470.0	1491.3	1499.5	1498.8
12.5°	1539.4	1510.5	1463.2	1435.0	1426.8	1431.0	1442.5	1459.7	1481.7	1494.6	1495.4
15°	1522.8	1489.2	1440.5	1415.8	1412.4	1417.8	1428.9	1441.9	1459.0	1472.0	1473.5
17.5°	1503.0	1468.0	1419.3	1393.9	1391.1	1393.9	1394.5	1401.5	1412.4	1424.7	1428.1
20°	1481.7	1446.0	1395.2	1369.9	1357.5	1346.5	1334.2	1335.5	1339.0	1351.3	1354.0
22.5°	1466.6	1431.0	1376.7	1341.7	1308.8	1275.9	1251.2	1247.7	1249.2	1259.4	1262.8
25°	1468.0	1430.2	1372.0	1311.5	1239.5	1186.8	1153.8	1148.4	1147.7	1155.2	1160.0
27.5°	1494.6	1457.0	1389.8	1280.7	1164.0	1085.9	1050.8	1046.8	1041.4	1043.3	1048.9
30°	1554.4	1519.5	1432.9	1249.2	1082.4	987.1	950.8	946.6	939.1	935.7	939.7
32.5°	1651.8	1623.0	1496.1	1219.0	1000.9	902.7	865.7	856.8	852.0	847.9	851.2
35°	1813.7	1801.3	1580.4	1186.0	928.8	837.6	803.9	790.3	783.4	790.9	796.4
37.5°	2067.5	2074.4	1690.9	1134.5	873.2	794.4	766.2	750.4	740.1	746.4	752.5
40°	2426.9	2431.8	1813.0	1061.9	825.2	768.9	738.8	724.4	709.9	699.0	698.2
42.5°	2898.8	2850.1	1933.1	983.0	769.6	753.3	719.6	701.8	679.8	649.6	643.4
45°	3458.6	3287.8	2024.2	892.4	707.2	734.0	698.2	673.6	639.2	606.4	603.0
47.5°	4103.4	3757.8	2068.9	798.4	648.9	705.9	672.3	633.1	589.9	573.5	571.4
50°	4890.9	4315.4	2090.1	707.2	598.2	668.7	634.5	588.6	552.2	548.8	546.8
52.5°	5787.5	4986.3	2097.0	632.5	556.3	620.8	603.6	559.1	530.2	532.9	532.9
55°	6725.9	5679.1	2003.7	578.3	517.9	571.4	583.1	547.4	523.4	534.4	538.4
57.5°	7587.5	6293.0	1710.1	536.5	481.5	533.7	575.6	558.5	541.9	586.5	589.2
60°	8248.7	6656.0	1277.2	498.7	454.8	520.6	595.5	600.3	604.3	710.6	725.1
62.5°	8387.3	6535.3	878.0	469.2	442.5	531.6	631.7	632.5	627.7	701.8	710.6
65°	7751.4	5771.7	638.6	452.8	432.1	551.5	662.6	648.2	616.7	672.9	656.4
67.5°	6155.8	4348.3	531.6	440.5	417.1	550.1	695.6	662.6	610.5	659.2	632.5
70°	3995.7	2629.4	473.3	430.2	399.3	524.1	714.8	661.2	592.6	613.3	581.7
72.5°	1949.5	1175.7	434.2	414.9	380.7	487.8	714.1	648.9	574.1	572.7	555.6
75°	762.8	538.4	398.6	392.3	349.2	446.6	694.9	631.1	552.2	530.2	524.1
77.5°	446.6	384.1	353.2	358.8	311.4	405.4	666.8	600.3	522.0	495.9	489.1
80°	325.1	287.5	301.1	310.1	266.1	364.3	629.0	562.4	488.4	501.4	491.8
82.5°	208.5	185.2	244.2	253.2	221.6	322.5	588.0	522.7	441.1	400.7	391.0
85°	106.3	117.4	181.8	192.8	170.8	264.7	537.8	470.0	387.6	333.3	338.8
87.5°	59.6	80.3	116.0	129.7	120.7	203.8	436.3	387.6	316.2	257.2	226.3
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)