

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: P192990

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11192.5 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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

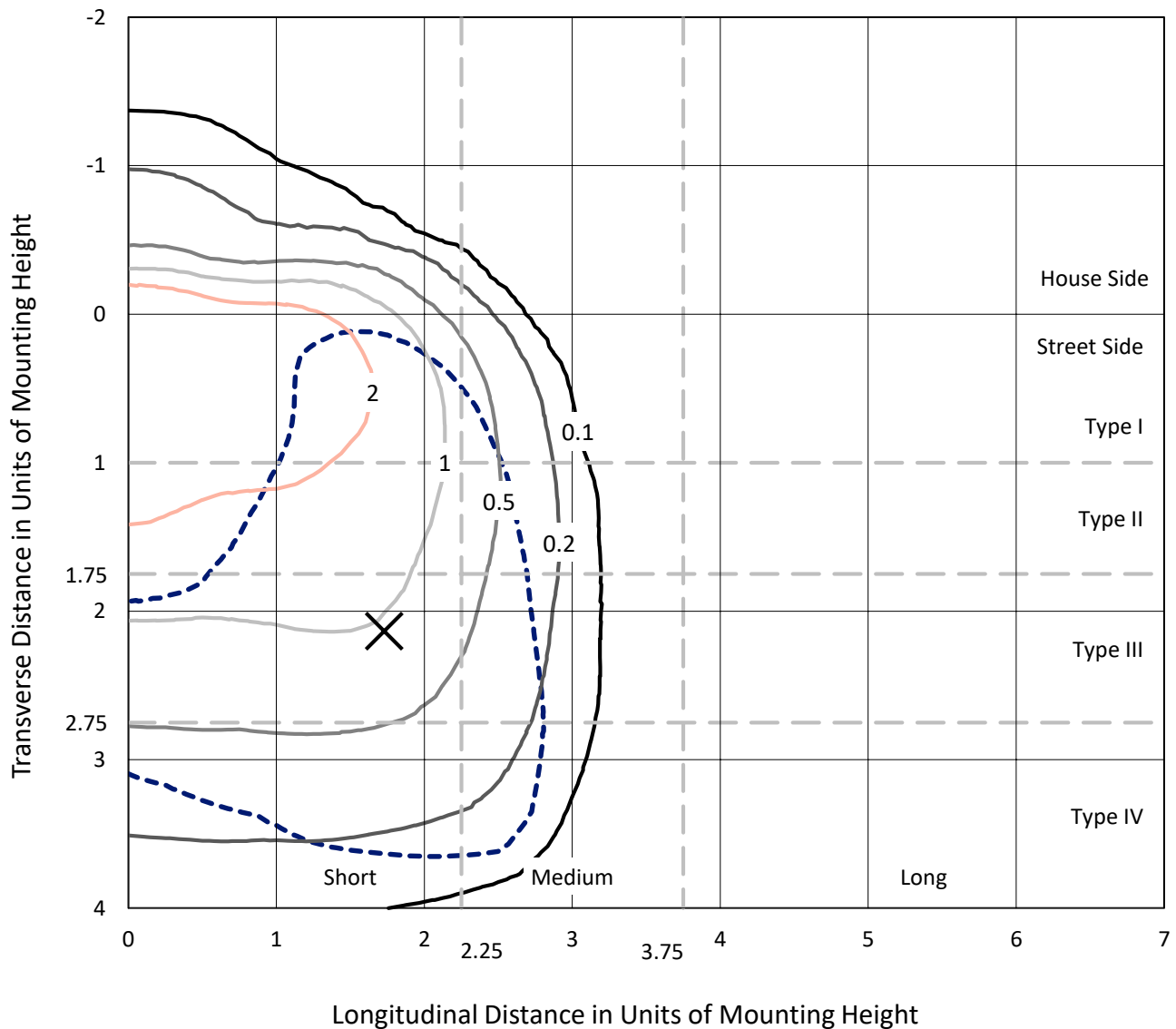


REPORT NUMBER: P192990

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

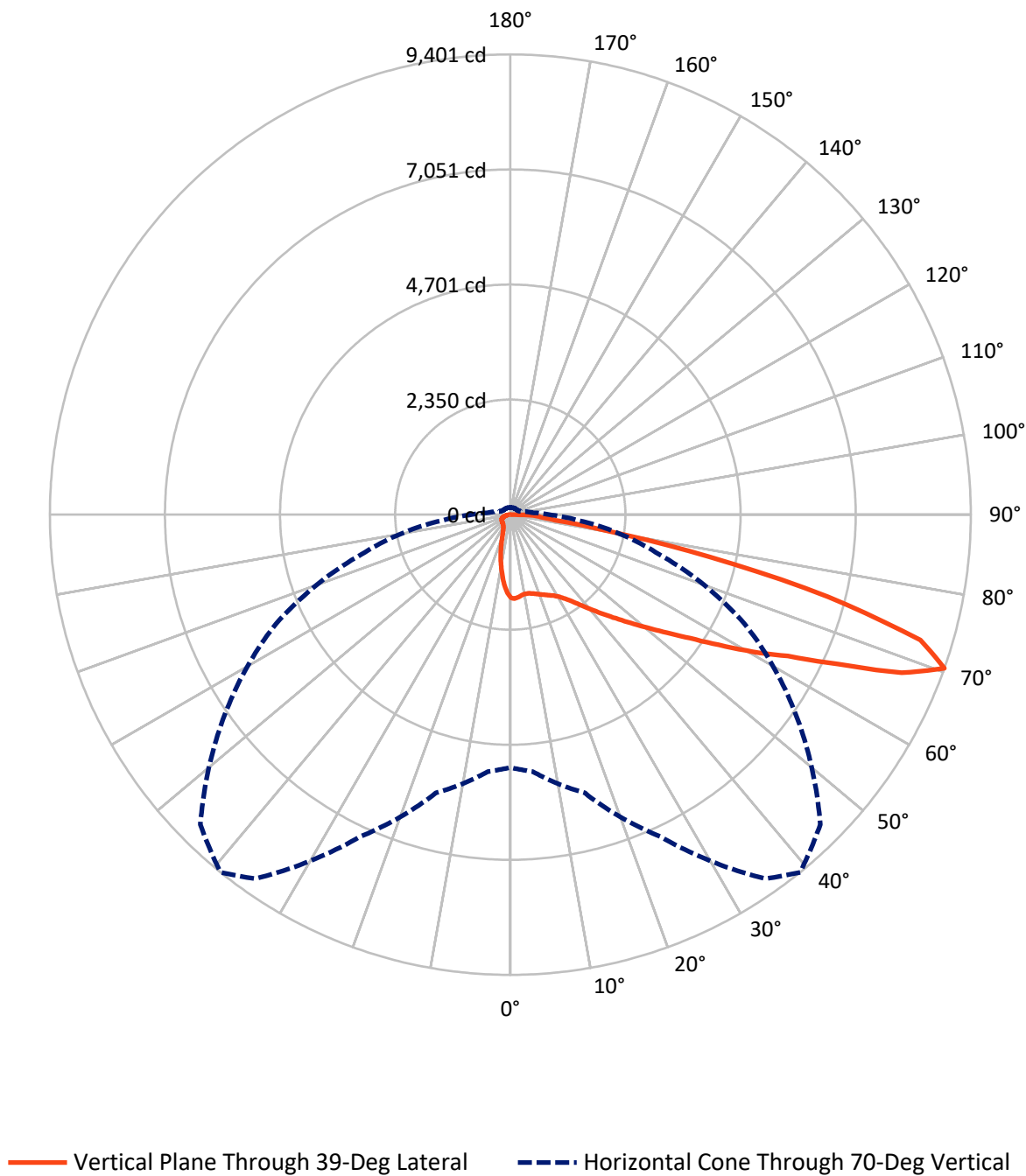


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P192990

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P192990

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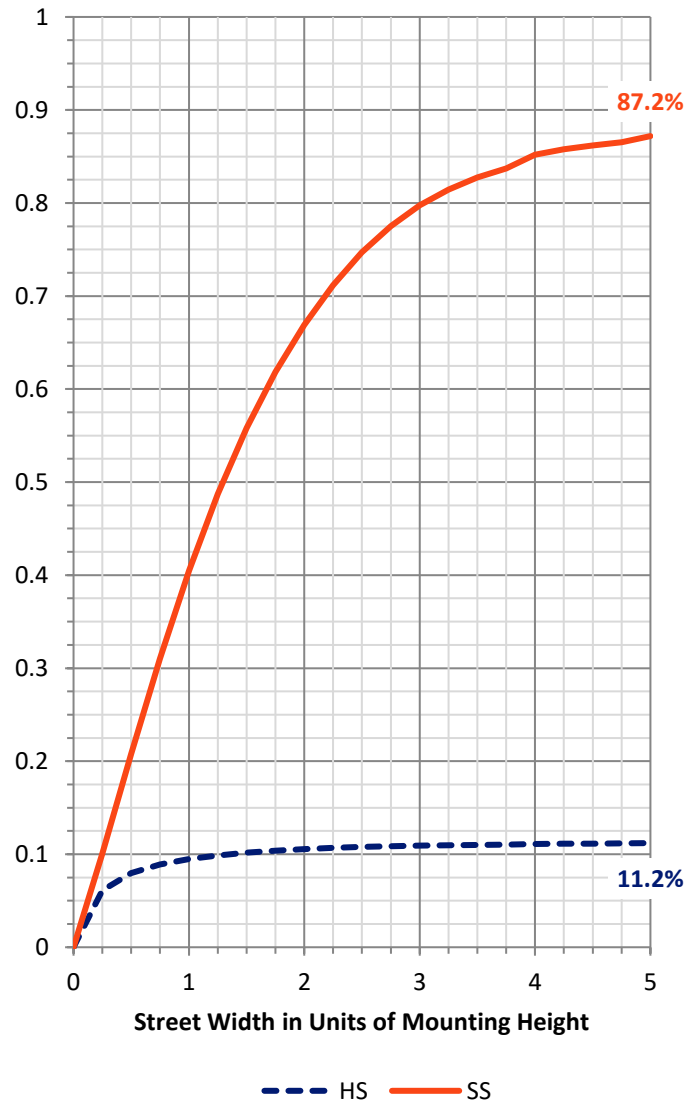
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.0	0.0	1273.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	9919.5	0.0	9919.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	11192.5	0.0	11192.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	1.3
10°-20°	364.5	3.3
20°-30°	567.5	5.1
30°-40°	884.1	7.9
40°-50°	1484.3	13.3
50°-60°	2357.9	21.1
60°-70°	3145.2	28.1
70°-80°	1899.3	17.0
80°-90°	343.8	3.1
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°	11192.5	100.0
0°-180°	11192.5	100.0

Coefficient of Utilization



REPORT NUMBER: P192990

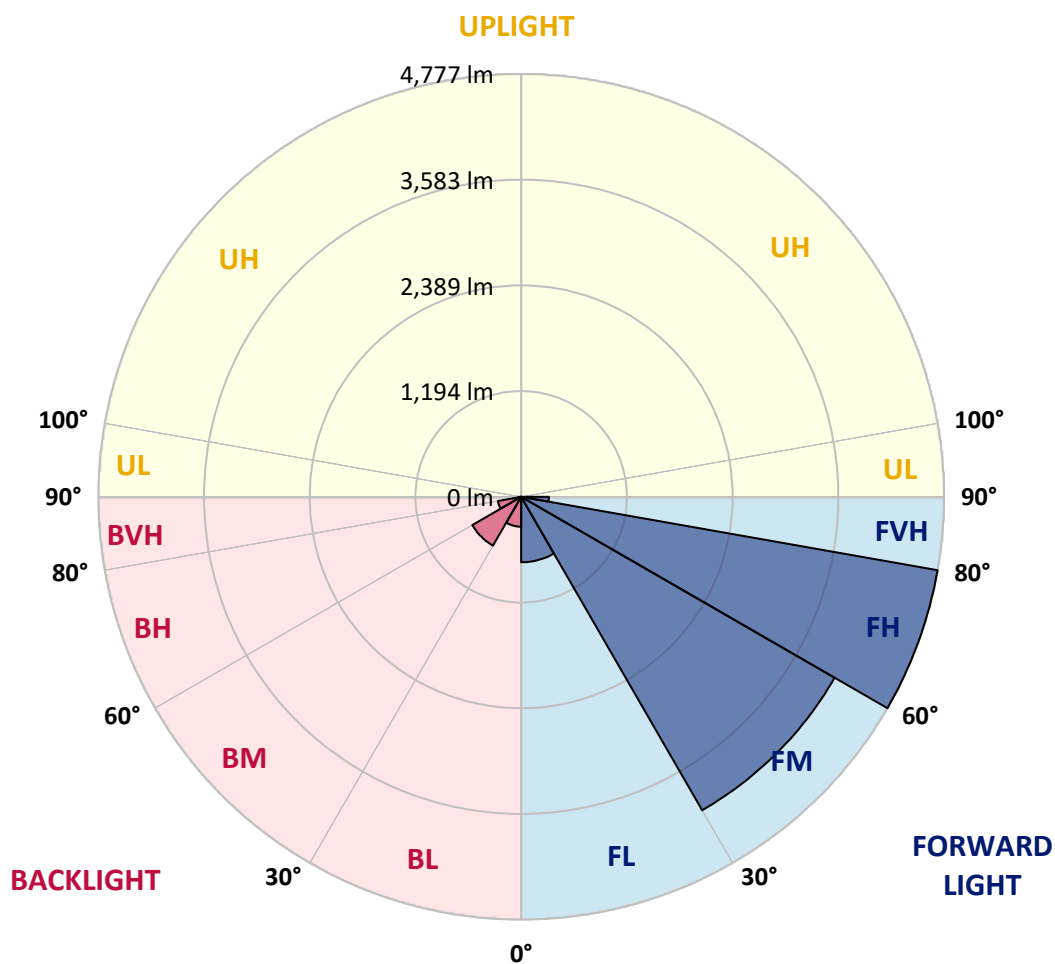
CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	740.2	6.6			
FM	(30°-60°)	4089.3	36.5			
FH	(60°-80°)	4777.3	42.7			G2/5000
FVH	(80°-90°)	312.8	2.8			G3/500
BL	(0°-30°)	337.7	3.0	B1/500		
BM	(30°-60°)	637.0	5.7	B1/1000		
BH	(60°-80°)	267.2	2.4	B1/500		G1/500
BVH	(80°-90°)	31.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P192990

CATALOG NUMBER: GAN-AF-02-LED-U-SL4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
2.5°	1732.2	1731.6	1727.1	1723.7	1720.9	1719.6	1721.9	1713.4	1706.0	1696.9	1687.3
5°	1719.0	1718.5	1711.1	1704.3	1697.5	1695.2	1694.6	1679.4	1670.1	1656.5	1638.4
7.5°	1704.9	1702.0	1692.3	1681.0	1669.1	1663.4	1657.7	1637.7	1627.5	1613.9	1592.8
10°	1690.1	1686.6	1677.5	1666.2	1654.8	1646.3	1636.6	1617.2	1606.4	1596.2	1571.7
12.5°	1674.7	1671.8	1669.6	1664.4	1656.5	1649.2	1641.7	1625.2	1613.9	1601.8	1573.5
15°	1672.4	1671.3	1676.5	1679.9	1675.3	1670.8	1662.8	1648.5	1636.6	1624.6	1587.6
17.5°	1690.7	1690.1	1703.2	1712.3	1710.0	1702.0	1691.3	1675.3	1665.6	1655.4	1609.3
20°	1730.4	1733.3	1749.2	1761.3	1749.9	1738.5	1720.9	1698.7	1693.5	1688.9	1631.5
22.5°	1805.6	1808.5	1819.8	1824.4	1794.8	1778.3	1753.8	1725.4	1721.9	1725.4	1658.2
25°	1922.9	1920.0	1918.3	1901.2	1847.1	1821.6	1790.2	1760.6	1762.4	1777.7	1695.8
27.5°	2078.2	2062.9	2038.9	1987.8	1901.7	1873.4	1835.2	1807.9	1818.7	1848.3	1752.1
30°	2239.3	2222.2	2166.9	2083.3	1973.4	1942.2	1899.5	1868.8	1897.2	1943.9	1827.3
32.5°	2388.3	2386.0	2305.3	2197.6	2072.5	2045.3	2002.5	1967.8	2013.8	2085.0	1939.9
35°	2551.1	2556.2	2459.4	2330.3	2206.3	2177.7	2147.1	2120.8	2182.4	2280.2	2103.2
37.5°	2725.3	2735.5	2621.0	2475.4	2358.7	2346.8	2328.6	2317.2	2412.2	2547.7	2331.4
40°	2957.9	2947.7	2789.0	2639.2	2546.0	2545.4	2539.7	2553.4	2711.6	2897.0	2624.5
42.5°	3207.2	3177.0	2967.1	2815.1	2751.3	2770.7	2782.1	2837.9	3071.8	3321.6	2981.8
45°	3475.7	3408.2	3152.0	3001.3	2979.6	3020.6	3059.3	3180.4	3495.7	3804.7	3373.4
47.5°	3690.3	3624.9	3343.3	3196.4	3243.6	3305.6	3380.2	3571.9	3970.3	4303.7	3759.7
50°	3859.4	3816.7	3536.0	3423.9	3534.4	3630.0	3751.8	4015.3	4464.3	4789.7	4117.7
52.5°	4023.3	3991.3	3730.7	3657.4	3875.9	4007.8	4173.4	4491.0	4970.6	5267.7	4418.7
55°	4171.2	4148.3	3940.1	3948.1	4277.6	4449.5	4657.7	5032.7	5522.7	5693.9	4673.7
57.5°	4337.9	4308.8	4179.1	4312.9	4793.8	5016.7	5287.7	5641.6	6040.5	6072.9	4867.7
60°	4505.8	4480.7	4444.3	4733.9	5449.3	5683.6	5940.3	6231.7	6565.7	6367.2	4856.3
62.5°	4651.5	4654.3	4718.6	5176.1	6091.2	6362.6	6675.6	6963.5	7040.8	6418.3	4497.2
65°	4898.4	4943.3	5135.1	5802.1	6994.8	7357.8	7742.0	7695.9	7172.4	5939.8	3727.3
67.5°	5192.1	5271.1	5659.8	6636.3	8136.9	8618.9	8767.4	7861.5	6646.0	4828.3	2656.9
70°	5162.5	5271.1	5886.4	7258.3	9078.2	9401.3	8950.6	7114.9	5277.4	3154.4	1411.3
72.5°	4584.3	4739.6	5424.8	6973.2	8781.6	8753.2	7770.4	5304.2	3135.5	1266.8	551.4
75°	3494.0	3651.0	4240.6	5509.1	6940.8	6701.8	5513.6	2930.2	1190.0	503.0	347.7
77.5°	2010.0	2131.6	2586.9	3378.6	4403.3	4158.1	3068.9	1303.1	579.3	350.5	271.4
80°	1122.2	1190.0	1466.5	1714.0	2157.9	1978.0	1373.2	809.7	432.4	254.3	209.4
82.5°	887.1	947.5	1185.9	1081.2	985.6	909.4	788.8	721.0	345.4	160.5	125.2
85°	775.0	832.5	1003.8	851.3	673.1	617.5	640.8	709.6	268.6	96.7	107.0
87.5°	718.2	795.0	894.5	656.1	524.1	464.4	591.2	777.9	86.6	60.3	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192990

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2	1699.2
2.5°	1678.7	1669.6	1654.8	1641.7	1621.2	1610.4	1598.5	1589.9	1583.0	1577.3	1586.6
5°	1627.0	1609.8	1578.6	1545.0	1505.1	1473.8	1447.6	1423.2	1406.1	1394.8	1402.7
7.5°	1578.0	1550.1	1501.1	1440.2	1372.0	1314.0	1266.1	1224.0	1195.0	1176.2	1183.6
10°	1550.1	1515.4	1439.7	1344.1	1243.4	1152.9	1077.9	1013.0	967.9	942.4	946.3
12.5°	1543.3	1498.3	1393.6	1262.2	1124.5	998.7	892.8	802.9	739.8	706.8	707.9
15°	1548.4	1491.0	1350.3	1183.6	1009.5	850.7	718.7	609.4	536.0	498.4	497.9
17.5°	1557.0	1485.3	1304.9	1098.8	892.8	708.4	561.0	454.1	389.2	359.0	356.8
20°	1566.0	1476.1	1253.6	1007.3	771.6	576.5	439.3	355.6	314.6	298.2	297.0
22.5°	1579.2	1468.1	1200.8	910.4	652.8	469.5	361.3	305.1	283.4	274.9	273.7
25°	1600.2	1464.2	1144.4	809.7	545.8	392.7	314.6	279.9	267.4	261.7	261.2
27.5°	1635.5	1469.9	1091.5	712.0	458.7	340.9	288.6	267.4	258.4	253.3	252.6
30°	1681.0	1487.4	1035.7	619.2	390.9	305.6	272.6	259.0	251.6	246.4	246.4
32.5°	1756.7	1517.1	977.1	538.8	342.5	281.2	260.6	251.6	245.3	241.3	240.7
35°	1868.3	1572.9	922.4	472.3	307.9	263.5	250.4	243.5	239.0	236.8	236.8
37.5°	2030.4	1661.1	874.1	424.5	286.8	251.6	240.7	235.6	232.7	232.7	232.7
40°	2248.3	1782.9	834.8	392.7	274.9	243.0	233.3	229.3	227.6	228.3	228.3
42.5°	2517.6	1941.1	808.6	370.5	269.3	237.8	228.3	224.7	223.1	222.5	223.1
45°	2824.3	2120.8	805.8	354.0	263.5	234.5	224.7	221.4	218.0	215.7	215.7
47.5°	3122.4	2303.5	829.1	348.2	257.2	230.4	221.9	218.5	213.4	208.2	208.2
50°	3385.8	2458.9	860.4	350.5	254.9	224.7	217.4	215.7	207.7	202.0	201.5
52.5°	3595.2	2578.4	886.0	357.4	257.2	220.8	211.6	212.3	203.8	197.4	196.8
55°	3763.1	2656.9	879.2	364.2	262.3	218.5	206.6	207.7	200.9	194.6	194.6
57.5°	3836.5	2627.9	803.5	358.5	266.3	219.1	202.5	207.1	201.5	195.8	195.8
60°	3679.0	2370.2	661.8	333.5	261.2	217.4	200.9	209.4	208.8	203.1	202.5
62.5°	3202.1	1908.6	513.3	296.5	243.5	208.8	196.3	208.8	215.1	213.4	212.8
65°	2467.9	1359.5	392.1	256.6	219.6	194.6	184.3	195.8	204.4	206.6	206.0
67.5°	1601.8	833.1	302.2	219.1	193.0	178.1	169.1	174.2	175.8	175.8	174.7
70°	787.5	448.4	240.7	184.3	165.6	160.5	155.3	152.5	149.6	147.4	147.4
72.5°	388.6	293.1	198.0	155.9	142.8	140.5	139.5	136.0	133.8	130.9	129.7
75°	287.4	238.4	168.5	131.4	122.9	120.6	122.9	120.0	119.5	117.2	116.1
77.5°	236.1	203.1	145.1	112.6	105.3	101.3	104.7	105.3	105.9	102.3	101.3
80°	191.7	171.9	121.2	93.3	86.6	83.7	85.9	90.4	91.7	86.6	84.2
82.5°	138.3	140.5	97.9	72.8	67.2	64.9	69.4	75.1	76.3	68.9	67.2
85°	116.1	117.2	75.1	51.8	46.1	42.7	50.0	55.7	59.8	52.3	50.7
87.5°	48.4	68.9	43.2	29.1	25.5	22.2	26.8	29.6	35.8	33.0	32.4
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)