

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: P192941

Luminaire Tested: **GAN-AF-03-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11525.8 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - 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



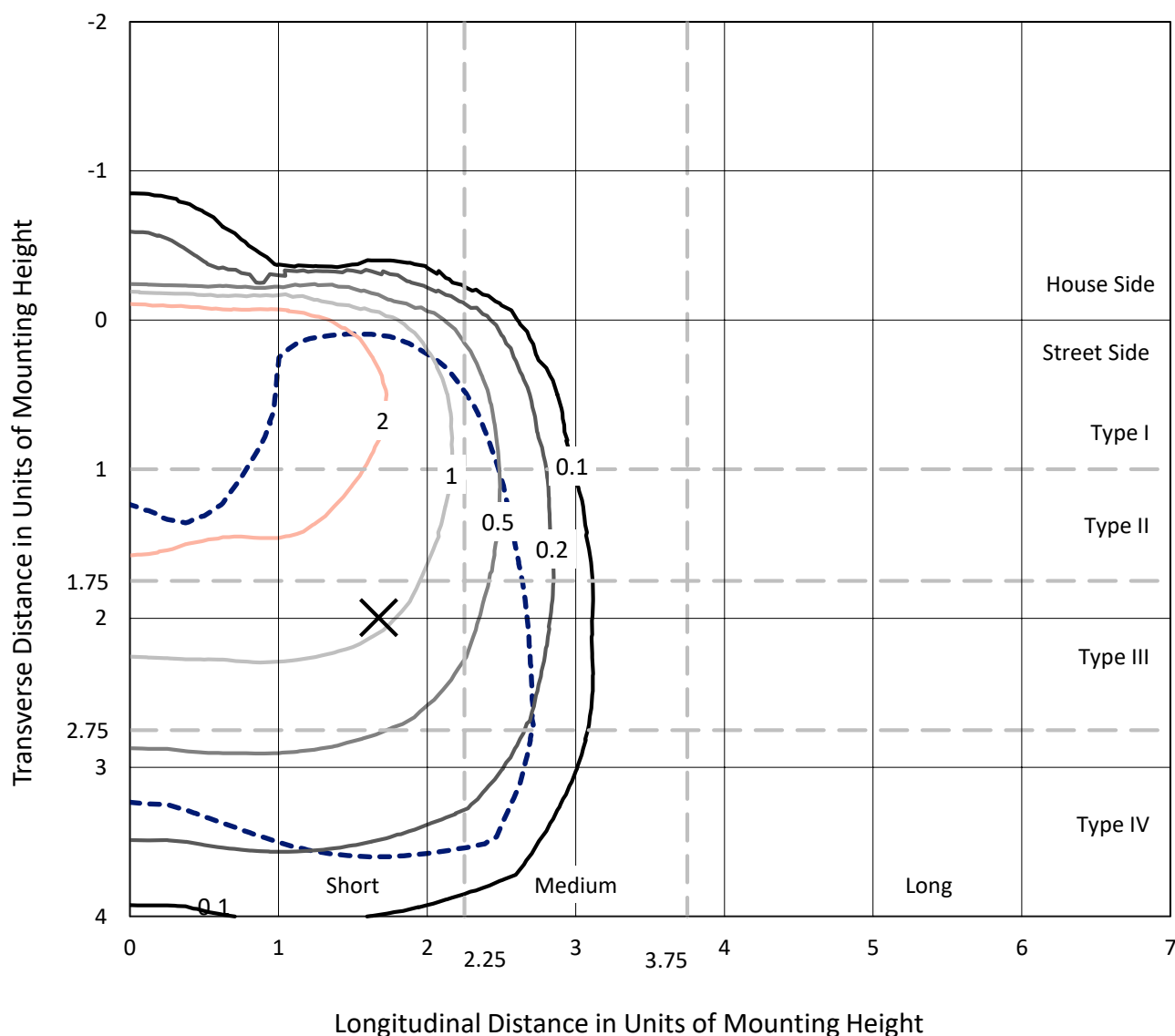
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

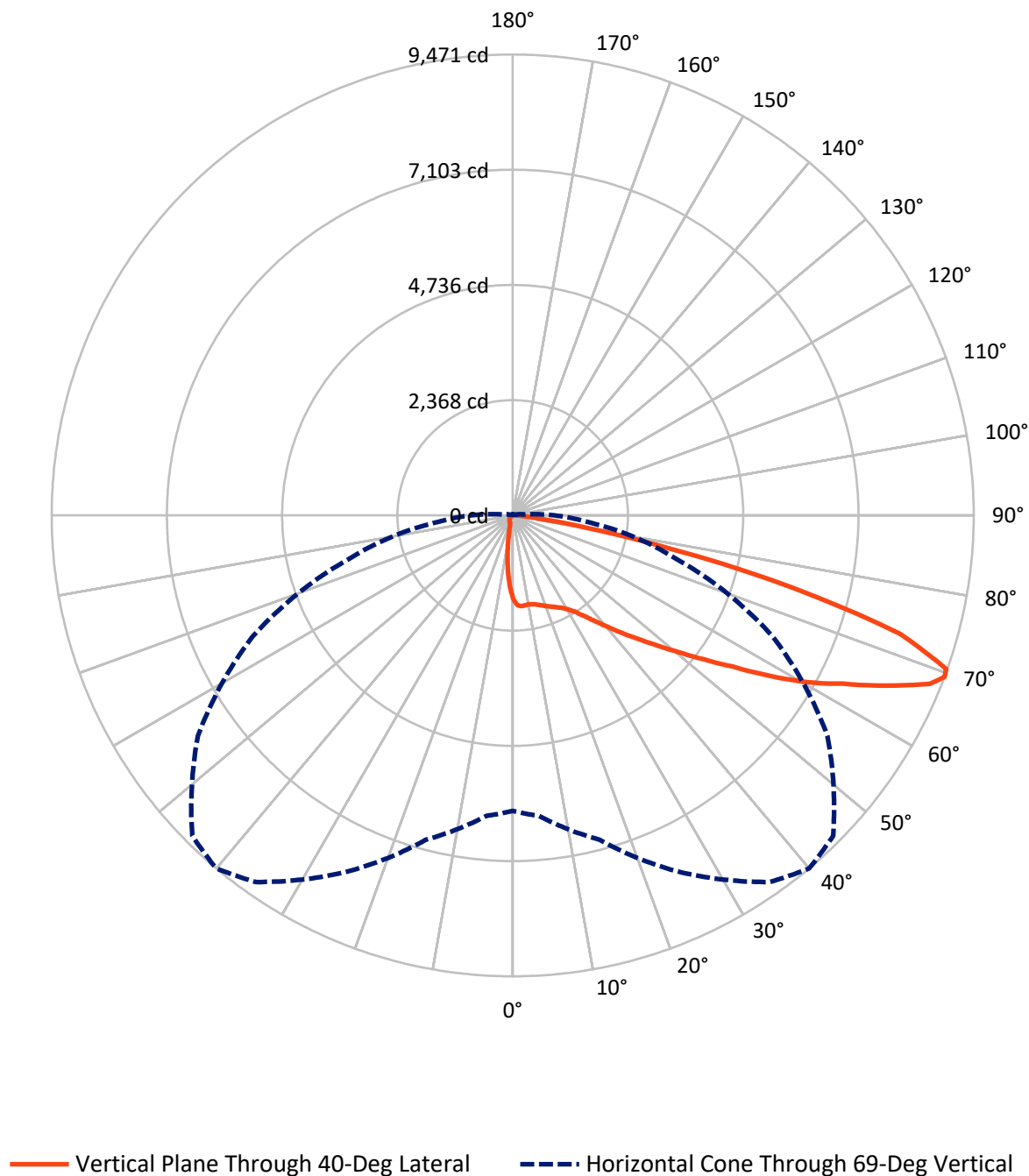


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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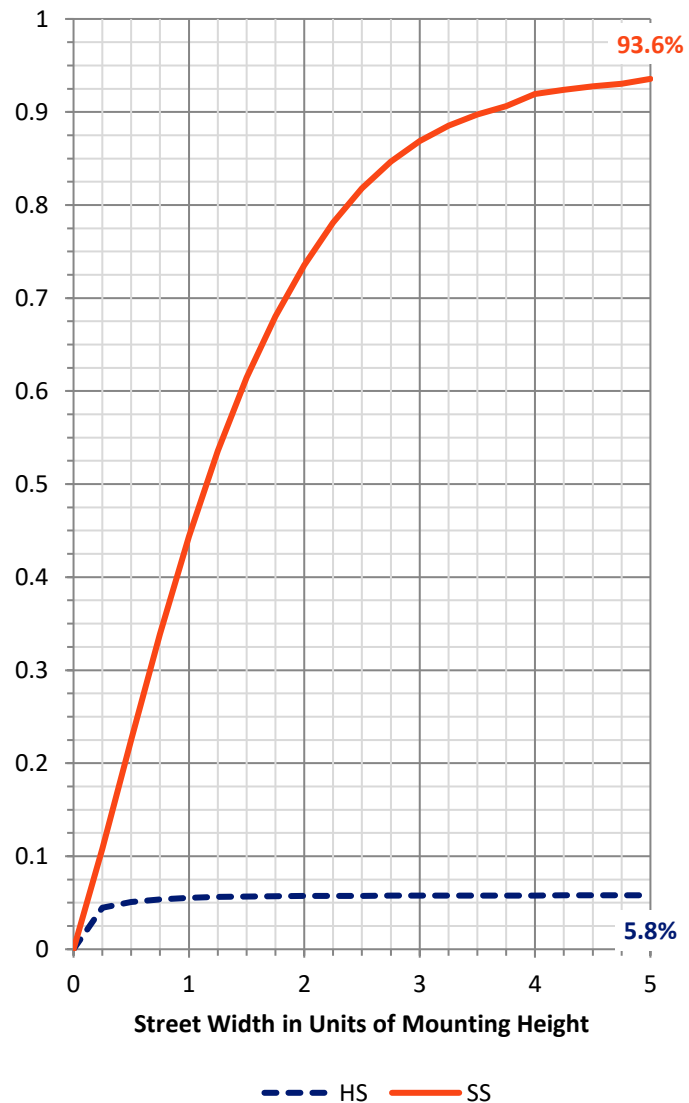
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	674.3	0.0	674.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	10851.4	0.0	10851.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	11525.8	0.0	11525.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.2
10°-20°	343.4	3.0
20°-30°	578.3	5.0
30°-40°	946.7	8.2
40°-50°	1639.2	14.2
50°-60°	2582.0	22.4
60°-70°	3371.9	29.3
70°-80°	1736.7	15.1
80°-90°	187.9	1.6
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°	11525.8	100.0
0°-180°	11525.8	100.0



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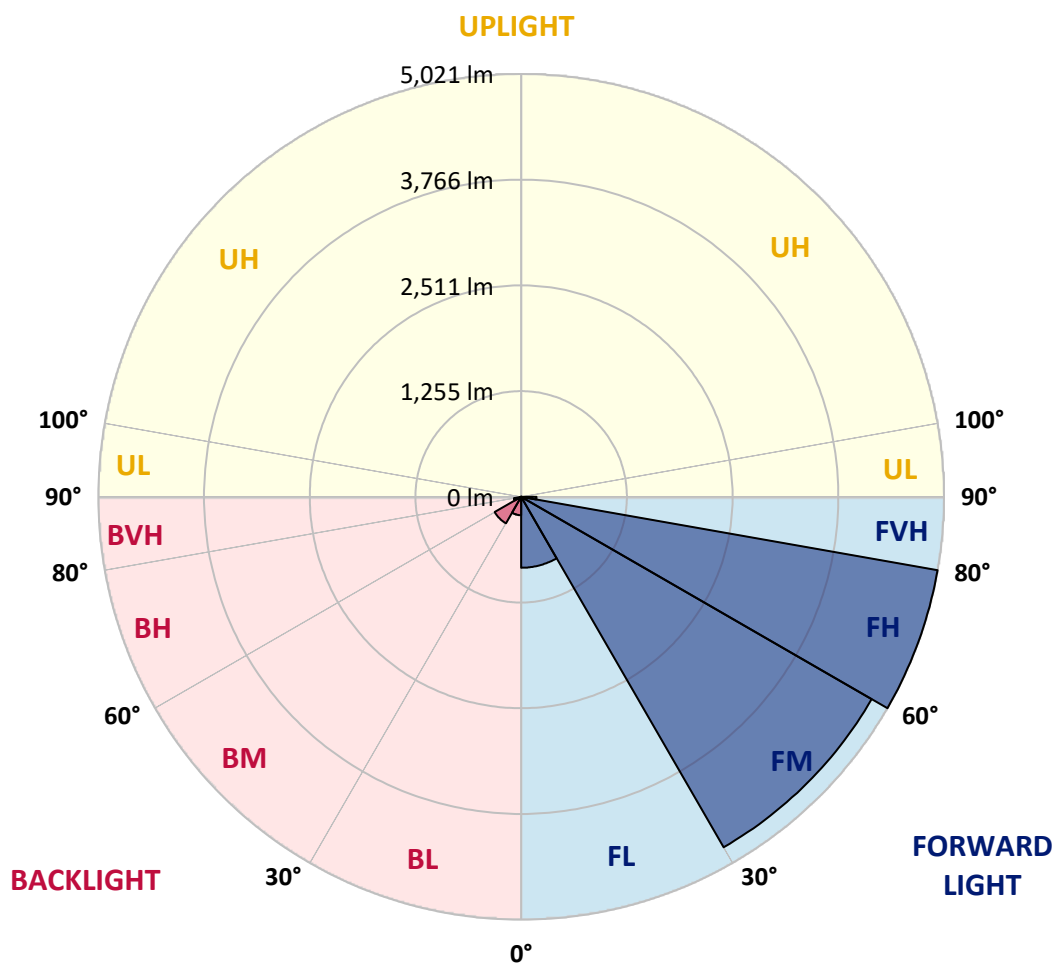
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	842.9	7.3			
FM	(30°-60°)	4805.5	41.7			
FH	(60°-80°)	5021.1	43.6			G3/7500
FVH	(80°-90°)	182.0	1.6			G2/225
BL	(0°-30°)	218.4	1.9	B1/500		
BM	(30°-60°)	362.4	3.1	B1/1000		
BH	(60°-80°)	87.6	0.8	B0/110		G0/110
BVH	(80°-90°)	5.9	0.1			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0
2.5°	1890.7	1880.5	1874.4	1866.0	1855.8	1846.9	1843.4	1818.1	1794.0	1761.2	1723.3
5°	1925.8	1922.3	1911.4	1900.3	1888.0	1874.4	1866.8	1836.5	1802.2	1754.2	1688.4
7.5°	1929.2	1925.0	1911.4	1896.3	1879.2	1862.7	1849.6	1819.3	1787.9	1739.2	1658.9
10°	1923.7	1918.9	1908.6	1892.2	1870.8	1855.1	1842.1	1813.2	1786.5	1742.5	1653.4
12.5°	1917.5	1912.7	1907.8	1899.7	1881.2	1870.2	1859.3	1831.7	1807.8	1770.8	1673.3
15°	1923.7	1921.0	1926.5	1923.1	1912.7	1903.1	1892.2	1867.5	1845.5	1814.6	1709.7
17.5°	1949.7	1949.7	1966.8	1969.0	1959.3	1945.7	1929.8	1905.2	1886.7	1860.5	1752.8
20°	2010.8	2008.7	2030.7	2034.9	2011.6	1990.2	1966.8	1936.7	1922.3	1905.9	1795.4
22.5°	2115.8	2106.2	2119.2	2115.2	2069.2	2036.3	2007.4	1970.4	1962.9	1955.3	1842.7
25°	2252.4	2246.8	2255.7	2215.2	2134.4	2089.7	2055.3	2013.5	2013.5	2021.1	1896.3
27.5°	2450.5	2430.0	2399.9	2328.6	2207.0	2150.1	2113.1	2068.5	2080.1	2108.2	1966.8
30°	2653.7	2631.1	2561.7	2452.0	2295.5	2235.9	2192.7	2146.0	2173.3	2224.8	2061.6
32.5°	2854.0	2828.6	2730.5	2591.9	2422.5	2362.8	2320.8	2269.6	2315.4	2401.8	2200.2
35°	3048.2	3025.5	2912.3	2749.1	2591.2	2541.8	2503.4	2458.9	2517.9	2638.6	2395.7
37.5°	3266.3	3241.6	3103.7	2926.7	2796.4	2760.7	2732.6	2688.0	2790.9	2967.9	2668.1
40°	3534.5	3492.7	3306.8	3130.5	3033.8	3016.6	2997.4	2991.2	3151.0	3396.0	3031.0
42.5°	3841.9	3773.4	3519.5	3345.2	3294.5	3306.8	3302.1	3329.4	3601.8	3928.4	3472.8
45°	4149.2	4060.7	3756.3	3574.4	3581.2	3624.4	3651.2	3760.9	4166.4	4538.9	3948.3
47.5°	4410.0	4322.9	3983.3	3822.0	3904.4	3989.4	4062.2	4270.1	4746.9	5140.0	4318.0
50°	4632.9	4550.6	4224.1	4094.4	4279.6	4416.8	4534.8	4842.9	5371.1	5597.6	4577.4
52.5°	4815.5	4760.5	4473.8	4406.5	4708.4	4909.4	5082.3	5451.4	5924.1	5969.4	4779.1
55°	4993.1	4954.1	4742.1	4777.7	5212.0	5485.7	5704.5	6097.0	6400.2	6279.4	4972.6
57.5°	5197.6	5162.0	5048.0	5248.4	5874.0	6218.5	6457.2	6669.1	6819.4	6596.4	5155.1
60°	5406.1	5385.6	5388.3	5771.1	6634.2	6964.8	7096.6	7151.4	7231.1	6895.0	5165.3
62.5°	5605.1	5644.3	5777.3	6352.9	7362.1	7615.9	7682.4	7736.6	7643.3	6942.3	4772.2
65°	5941.9	6005.8	6323.4	7131.6	8162.8	8434.4	8503.0	8317.2	7708.6	6330.3	3881.8
67.5°	6106.6	6223.2	6789.9	7857.4	8939.4	9241.2	9215.8	8354.8	6917.5	4827.1	2491.1
69°	6072.3	6196.5	6897.6	8079.7	9197.3	9471.0	9309.9	7893.1	5893.2	3496.9	1529.2
70°	5936.5	6062.0	6842.1	8071.5	9230.2	9447.0	9135.6	7323.0	4982.9	2557.0	956.3
72.5°	4957.4	5065.8	6074.4	7295.6	8503.0	8326.6	7642.6	5073.5	2428.0	696.3	215.5
75°	3051.6	3111.9	4358.6	5496.1	6422.2	5969.4	5091.9	2524.0	723.9	196.8	119.4
77.5°	1612.2	1639.7	2386.1	3239.5	4071.1	3368.6	2609.7	984.5	333.5	123.5	86.5
80°	953.0	973.5	1285.0	1481.2	1761.8	1471.6	1043.5	604.4	238.7	77.6	76.8
82.5°	545.4	558.5	931.7	823.3	694.4	592.7	519.3	572.8	143.3	52.1	79.5
85°	200.4	203.1	524.1	626.4	413.0	245.7	258.0	474.7	38.5	32.9	62.4
87.5°	93.3	91.2	269.7	383.5	241.5	155.7	201.0	104.3	15.1	21.3	17.2
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°	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0	1722.0
2.5°	1701.3	1676.0	1630.0	1582.7	1534.8	1497.6	1461.4	1432.5	1422.9	1405.1	1406.3
5°	1649.3	1602.7	1506.5	1409.1	1307.7	1223.9	1145.0	1081.2	1050.3	1018.9	1018.9
7.5°	1604.0	1536.0	1385.9	1227.3	1063.4	925.5	801.3	708.0	656.5	615.3	614.7
10°	1586.9	1494.8	1285.0	1057.8	829.5	641.5	494.0	399.3	350.6	319.0	317.6
12.5°	1594.4	1480.5	1207.5	901.5	614.7	412.4	286.0	225.1	204.5	194.8	194.8
15°	1616.4	1476.4	1130.0	748.5	434.3	258.0	190.0	173.6	172.2	172.2	172.2
17.5°	1643.2	1477.7	1050.3	599.7	295.6	184.5	164.0	161.9	163.3	163.3	163.3
20°	1670.6	1478.5	964.6	461.7	208.5	160.5	154.4	153.7	155.0	155.0	155.7
22.5°	1704.1	1481.9	878.9	345.0	172.2	151.7	146.9	146.9	147.5	147.5	146.9
25°	1742.5	1488.7	789.6	255.8	157.2	145.5	141.4	140.6	141.4	140.6	140.0
27.5°	1790.6	1498.4	690.2	200.4	150.2	139.3	135.8	135.8	135.2	134.5	133.8
30°	1851.0	1509.3	578.3	170.1	143.3	133.8	130.3	129.7	128.9	127.7	127.7
32.5°	1942.9	1533.4	467.8	154.4	135.8	126.2	123.5	123.5	122.2	120.7	120.0
35°	2084.2	1580.7	369.1	144.8	127.7	118.0	114.6	114.6	113.2	112.5	111.9
37.5°	2279.8	1652.8	286.8	135.8	119.4	109.0	105.7	105.0	103.6	102.2	101.5
40°	2539.8	1741.9	225.7	127.7	111.1	100.2	97.5	96.0	93.3	91.2	91.2
42.5°	2866.3	1843.4	183.2	118.6	101.5	91.9	89.9	87.9	83.0	81.0	80.3
45°	3208.0	1934.7	155.0	108.3	91.9	83.7	82.4	78.8	72.7	70.7	70.7
47.5°	3454.3	1956.0	136.6	98.8	83.0	74.8	74.1	68.0	62.4	61.0	60.4
50°	3608.0	1914.1	121.4	89.1	74.8	66.5	64.5	57.0	53.5	52.1	51.5
52.5°	3711.5	1839.3	109.0	81.0	67.2	59.0	54.2	48.7	46.0	44.6	44.6
55°	3794.6	1733.6	96.7	73.4	61.0	52.8	46.0	41.8	39.2	37.7	37.7
57.5°	3817.9	1590.3	84.3	67.2	54.8	46.7	39.2	36.4	32.9	32.2	32.2
60°	3648.5	1331.7	74.8	59.6	49.3	40.4	34.3	30.9	27.5	26.8	26.1
62.5°	3201.9	1030.5	65.9	52.8	43.2	35.0	29.5	25.3	22.6	22.6	22.6
65°	2442.4	690.8	57.6	46.0	37.7	29.5	25.3	20.5	19.2	19.2	19.8
67.5°	1462.0	376.0	49.3	39.2	32.2	24.7	21.3	17.8	17.2	17.8	17.8
69°	856.9	220.9	44.6	35.0	28.1	22.0	18.6	15.8	17.2	17.8	17.8
70°	529.0	148.9	41.2	31.5	25.3	19.8	17.2	15.1	16.5	17.2	17.2
72.5°	147.5	76.8	32.9	24.7	20.5	16.5	13.7	13.7	15.8	16.5	16.5
75°	96.0	57.0	25.3	18.6	15.8	13.0	11.7	13.0	15.1	15.8	15.8
77.5°	79.5	46.7	20.5	15.1	13.0	12.3	10.9	11.7	13.7	14.4	14.4
80°	72.7	32.9	16.5	13.7	11.7	10.9	10.3	9.7	12.3	13.0	13.0
82.5°	69.3	26.1	14.4	12.3	10.9	9.7	9.0	9.7	10.9	11.7	12.3
85°	43.2	17.2	13.0	11.7	9.7	9.0	9.0	9.0	10.3	10.9	10.9
87.5°	15.8	13.7	11.7	9.7	8.2	8.2	8.2	8.2	9.0	10.3	10.3
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)