

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: P322477

Luminaire Tested: **GAN-SA3B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10362 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

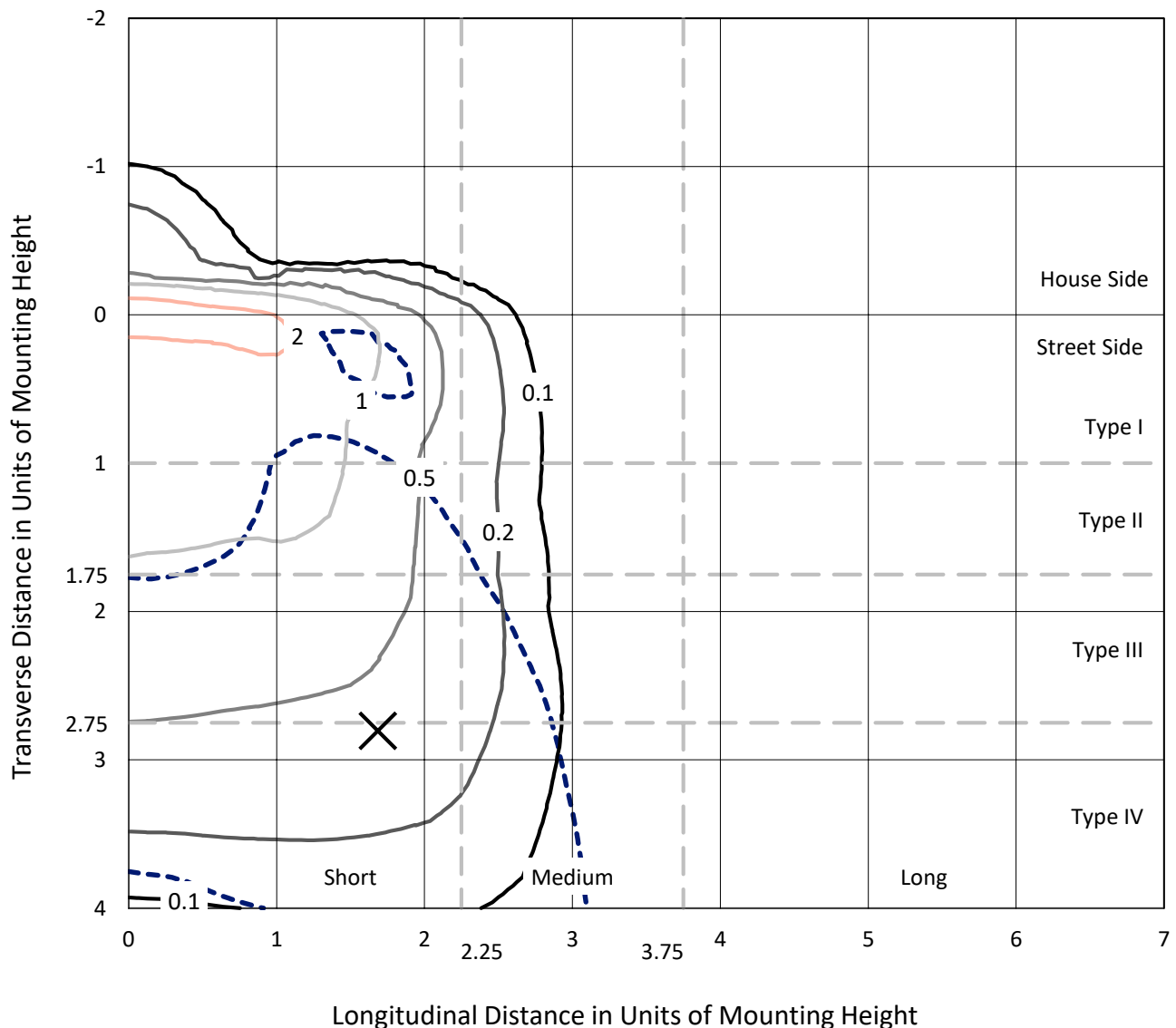
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

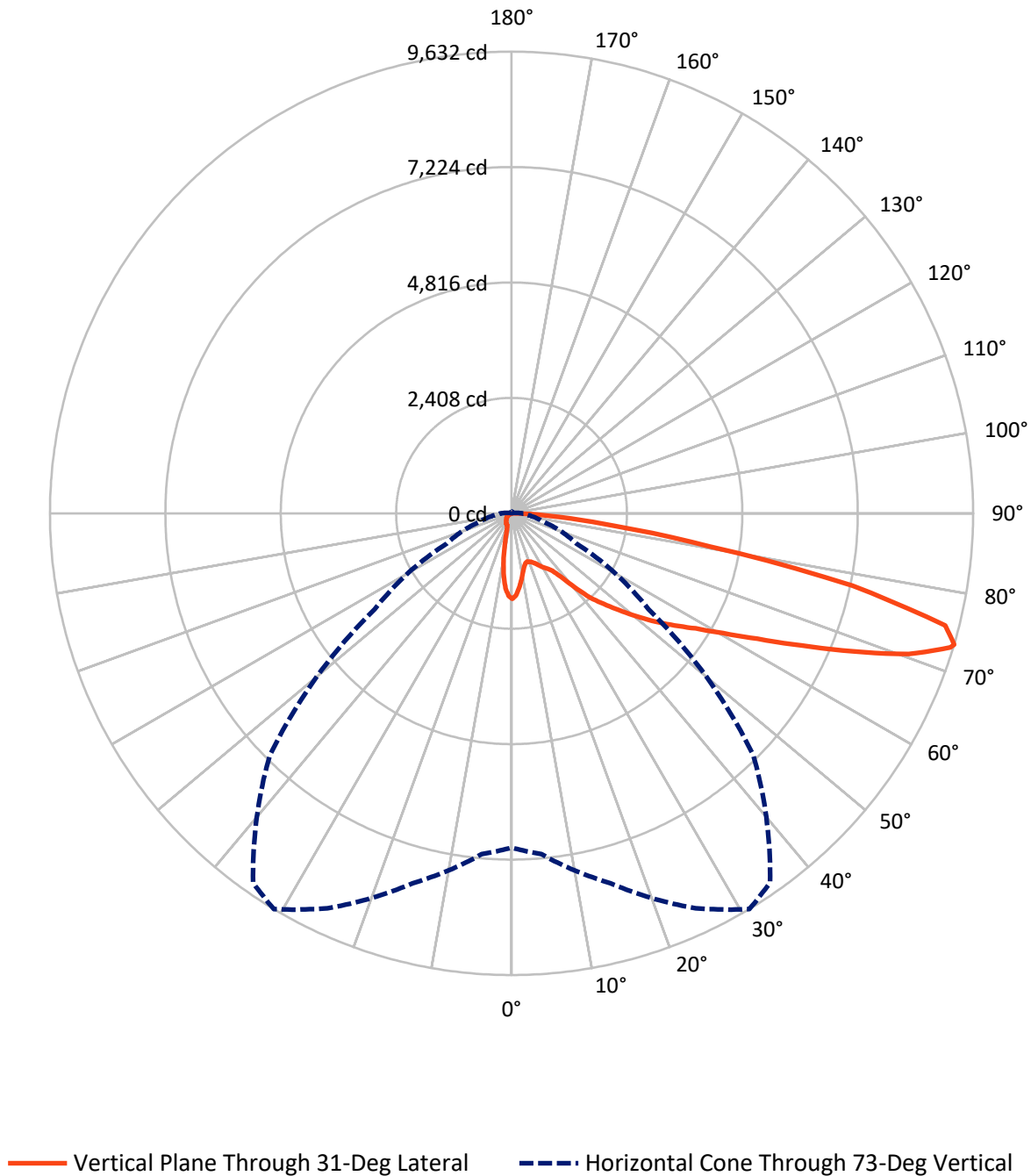
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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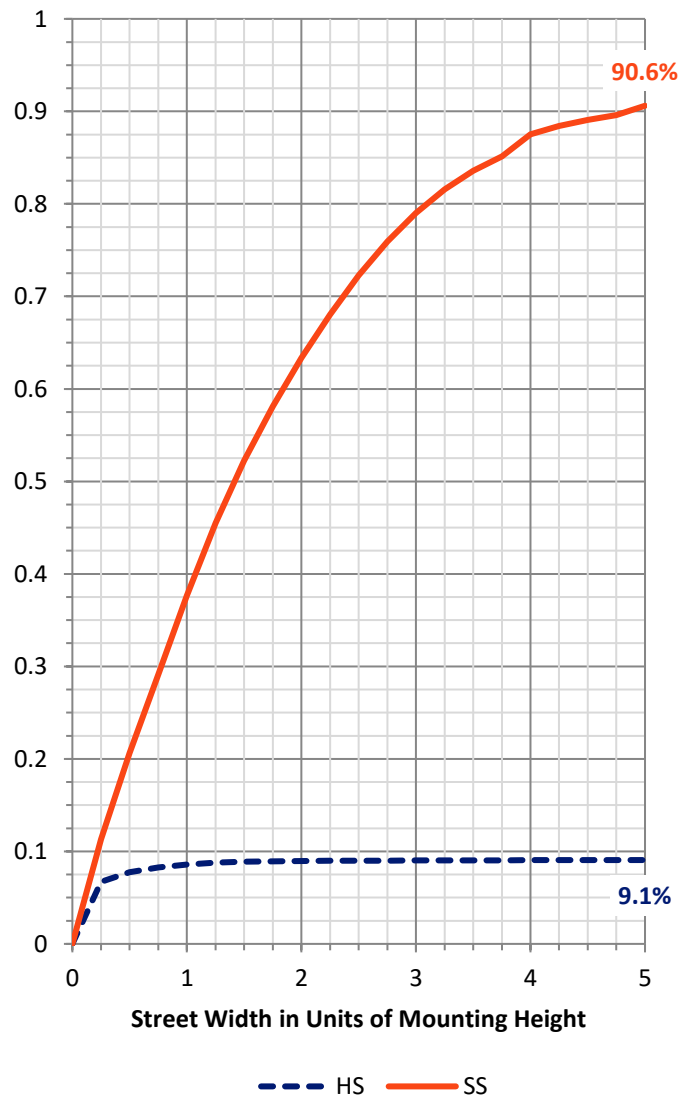
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.5	0.0	944.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	9417.5	0.0	9417.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	10362.0	0.0	10362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.8	1.4
10°-20°	321.0	3.1
20°-30°	480.9	4.6
30°-40°	765.1	7.4
40°-50°	1366.2	13.2
50°-60°	2120.0	20.5
60°-70°	2818.3	27.2
70°-80°	2119.9	20.5
80°-90°	222.8	2.1
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°	10362.0	100.0
0°-180°	10362.0	100.0

Coefficient of Utilization



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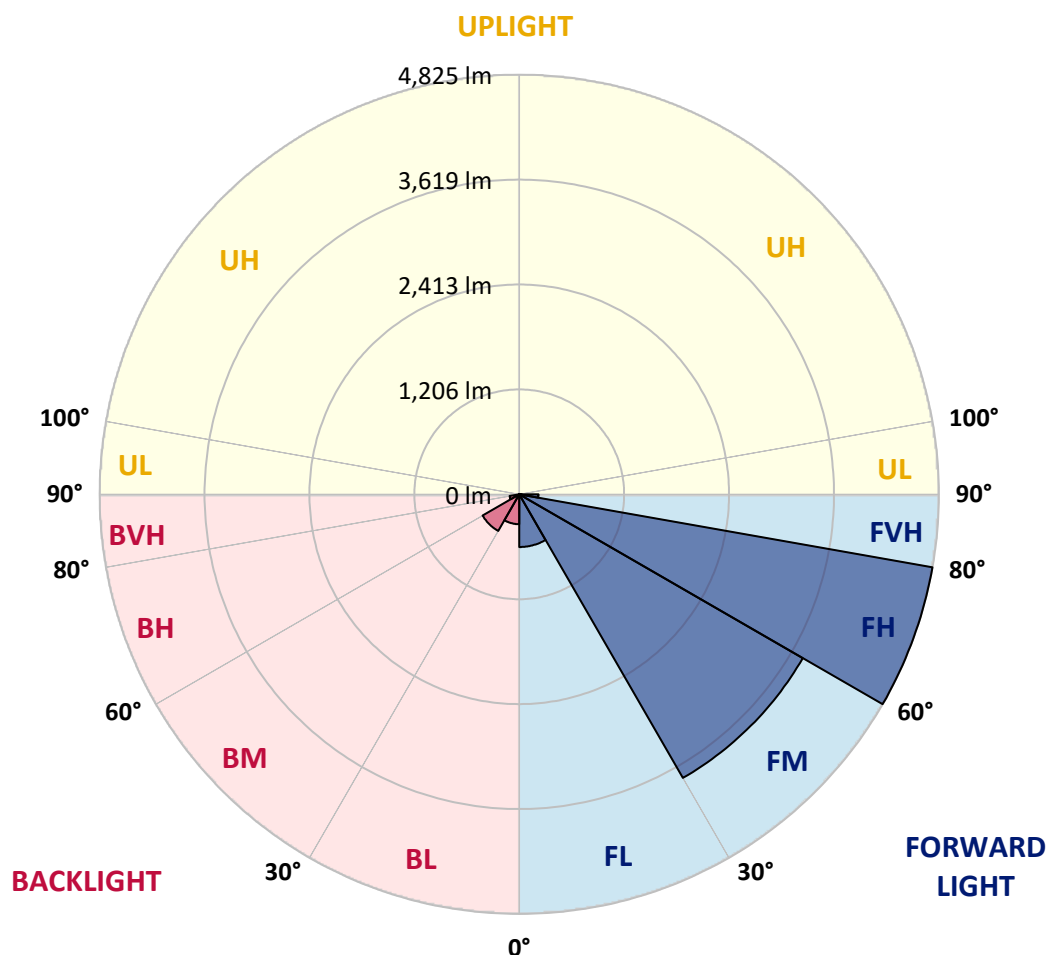
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	606.2	5.9			
FM	(30°-60°)	3765.2	36.3			
FH	(60°-80°)	4825.2	46.6			G2/5000
FVH	(80°-90°)	220.9	2.1			G2/225
BL	(0°-30°)	343.5	3.3	B1/500		
BM	(30°-60°)	486.2	4.7	B1/1000		
BH	(60°-80°)	113.0	1.1	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1689.5	1696.6	1704.2	1705.7	1718.4	1718.9	1737.2	1750.9	1764.5	1777.7	1782.3
5°	1516.1	1527.8	1541.4	1555.1	1582.0	1592.7	1637.3	1682.9	1726.5	1768.1	1788.4
7.5°	1331.0	1344.2	1363.5	1397.4	1427.4	1448.1	1518.6	1599.8	1680.9	1757.5	1801.6
10°	1162.2	1174.3	1194.6	1230.6	1276.8	1305.2	1400.0	1512.5	1631.7	1747.8	1821.3
12.5°	1054.7	1061.3	1072.4	1111.0	1152.5	1184.5	1296.0	1435.5	1591.1	1747.3	1853.3
15°	1034.9	1036.9	1027.8	1045.0	1077.5	1108.4	1221.5	1373.1	1560.2	1755.4	1894.9
17.5°	1066.3	1065.3	1034.9	1032.9	1058.7	1084.1	1185.0	1330.0	1538.4	1774.2	1948.6
20°	1114.0	1110.4	1057.7	1048.1	1075.5	1099.3	1182.5	1313.8	1530.3	1805.6	2014.0
22.5°	1177.4	1171.3	1088.6	1078.5	1107.9	1132.8	1213.9	1329.5	1537.4	1847.7	2090.1
25°	1256.0	1246.8	1141.9	1130.7	1160.6	1185.5	1270.2	1374.6	1558.7	1898.9	2186.4
27.5°	1344.7	1331.5	1227.1	1198.2	1232.1	1258.0	1345.2	1443.6	1592.2	1953.2	2304.6
30°	1428.4	1411.1	1316.8	1269.2	1310.7	1339.6	1426.3	1525.7	1645.9	2036.8	2466.3
32.5°	1512.5	1493.3	1396.9	1340.1	1377.7	1409.1	1510.0	1638.8	1746.8	2164.6	2681.3
35°	1706.2	1686.0	1567.8	1474.0	1473.5	1491.2	1627.1	1793.5	1880.2	2342.6	2937.9
37.5°	2032.3	2020.6	1908.0	1730.1	1682.4	1662.6	1786.9	1978.0	2071.8	2587.5	3227.4
40°	2389.2	2379.1	2252.8	2091.6	2019.1	1970.4	2016.0	2235.1	2342.6	2886.7	3523.0
42.5°	2792.3	2744.2	2519.0	2470.9	2406.0	2369.0	2327.9	2552.0	2675.2	3212.2	3816.1
45°	3158.4	3077.3	2785.2	2712.2	2697.5	2706.7	2729.5	2977.9	3049.4	3599.1	4108.2
47.5°	3376.5	3312.6	3088.5	3018.5	3014.4	3074.8	3247.2	3459.1	3422.1	3936.3	4365.2
50°	3583.9	3526.1	3340.0	3357.2	3376.0	3458.1	3834.9	3954.0	3762.3	4242.0	4601.0
52.5°	3751.7	3663.5	3566.1	3663.0	3755.2	3887.6	4441.3	4398.2	4003.7	4485.4	4802.8
55°	3848.5	3808.5	3855.6	3953.0	4126.4	4341.4	5013.8	4767.8	4180.2	4707.5	4937.2
57.5°	4203.5	4124.9	4218.7	4302.9	4529.0	4829.7	5504.1	5043.2	4307.4	4844.9	4968.1
60°	4633.0	4569.6	4624.8	4764.8	5070.0	5423.5	5962.5	5267.8	4373.9	4933.1	4888.0
62.5°	5316.5	5232.8	5198.3	5355.0	5759.6	6145.5	6310.3	5423.5	4359.1	4894.1	4613.2
65°	6232.2	6145.5	5991.4	6133.3	6648.0	6920.3	6699.2	5456.4	4257.7	4578.2	3918.5
67.5°	7170.3	7107.4	6975.5	7214.9	7679.3	7767.1	7110.4	5376.3	3931.2	3712.1	2768.5
70°	7789.9	7763.0	7848.7	8378.1	8792.3	8767.0	7487.7	4945.8	3064.1	2282.8	1369.6
72.5°	7343.2	7472.0	8104.8	9064.6	9570.7	9363.8	7294.0	3797.8	1751.4	878.2	396.0
73°	6973.0	7137.8	7989.7	9090.5	9632.0	9405.4	7131.2	3486.0	1492.8	693.1	300.2
75°	4851.0	5053.3	6614.5	8466.3	9345.0	8961.2	5944.2	2133.7	691.6	307.3	121.2
77.5°	2355.3	2504.8	3642.2	6117.1	7267.6	7001.4	3700.5	795.1	312.3	192.2	55.8
80°	879.2	977.6	1581.0	3113.3	4199.9	4310.0	1627.6	300.7	207.9	154.7	28.4
82.5°	230.2	256.6	583.1	1388.3	2152.4	2252.8	513.1	151.6	152.1	127.3	17.2
85°	73.5	84.2	182.0	623.2	1014.1	890.4	133.9	73.5	110.5	94.8	9.6
87.5°	9.1	11.7	57.8	146.5	223.6	124.2	20.8	21.8	47.2	52.7	5.6
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°	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1786.9	1784.3	1784.8	1771.6	1763.0	1745.8	1728.0	1719.9	1711.3	1707.8	1711.3
5°	1796.0	1791.4	1778.2	1737.7	1694.6	1638.8	1586.6	1547.0	1497.3	1483.6	1497.8
7.5°	1810.2	1801.1	1762.5	1679.9	1584.0	1477.6	1357.9	1270.7	1199.2	1153.0	1169.8
10°	1831.0	1813.7	1736.2	1595.7	1424.3	1235.7	1065.8	933.5	839.7	801.1	799.6
12.5°	1866.0	1833.5	1703.7	1486.2	1229.1	977.6	755.0	611.5	535.4	486.3	485.3
15°	1904.5	1856.8	1662.6	1354.8	1001.9	700.2	486.3	377.2	328.1	312.3	310.3
17.5°	1951.7	1883.7	1609.4	1193.1	764.1	464.0	317.4	286.0	284.0	282.4	282.4
20°	2011.0	1915.7	1540.9	1008.0	542.0	309.8	269.8	271.8	272.8	270.8	271.3
22.5°	2079.9	1948.1	1459.3	809.3	366.6	259.1	258.1	260.6	261.6	260.6	261.1
25°	2160.1	1985.6	1359.9	600.9	264.7	245.9	248.5	252.0	254.5	254.5	254.5
27.5°	2259.4	2031.3	1240.3	419.3	228.7	232.2	239.3	245.9	249.5	250.5	250.5
30°	2388.7	2088.1	1096.8	287.5	207.9	214.0	227.2	239.8	246.4	247.4	247.9
32.5°	2552.0	2151.9	930.4	212.5	190.1	194.7	208.9	230.2	242.9	244.9	244.9
35°	2739.1	2226.0	751.5	185.1	177.5	179.0	190.1	214.5	236.8	242.4	242.9
37.5°	2944.0	2299.0	571.5	172.9	166.8	166.8	174.9	195.7	222.1	239.3	241.4
40°	3135.1	2343.1	400.6	163.3	157.2	157.2	164.3	179.5	204.3	230.2	235.8
42.5°	3311.6	2358.3	278.9	154.1	148.1	149.6	155.7	167.8	186.6	212.5	217.5
45°	3493.1	2355.8	203.3	143.5	138.9	143.5	148.1	157.2	170.9	185.6	186.6
47.5°	3630.0	2334.5	161.2	133.4	130.3	136.4	140.5	146.5	154.1	153.1	153.1
50°	3758.3	2282.8	129.8	119.7	121.7	128.8	130.8	132.8	133.4	123.7	122.7
52.5°	3855.6	2202.1	103.9	105.0	113.1	120.2	118.1	115.1	110.0	98.4	96.3
55°	3888.1	2047.0	81.6	86.7	100.4	109.5	101.9	95.3	85.7	76.1	74.0
57.5°	3829.3	1846.7	66.4	67.4	84.7	92.3	83.7	76.1	65.4	57.3	55.8
60°	3704.5	1624.1	54.8	50.7	65.4	72.0	66.4	58.8	49.2	43.1	42.6
62.5°	3457.1	1386.8	45.1	39.6	49.7	55.3	51.7	46.1	38.0	34.0	33.5
65°	2936.9	1109.4	36.5	31.9	38.5	43.1	40.1	36.0	29.9	26.9	26.4
67.5°	2050.0	749.9	29.9	26.4	30.4	34.0	31.4	29.4	23.8	23.3	23.8
70°	988.8	361.5	24.8	21.3	23.8	26.4	25.4	23.8	22.8	26.4	30.4
72.5°	283.4	121.2	19.8	17.7	19.3	20.8	21.8	21.3	24.8	31.9	37.0
73°	218.0	97.9	18.8	16.7	18.3	20.3	21.3	20.8	25.4	32.5	37.0
75°	93.3	47.2	14.2	13.7	15.2	17.7	18.8	18.8	25.4	33.0	35.5
77.5°	42.1	25.4	9.1	10.6	13.2	14.2	15.7	15.7	20.3	25.4	25.4
80°	23.8	13.7	7.1	8.1	9.6	9.6	9.6	8.6	9.1	10.1	11.2
82.5°	15.2	9.1	5.6	6.6	6.1	5.1	4.1	4.1	3.5	4.1	5.1
85°	8.6	5.1	5.1	4.1	2.5	2.0	2.5	2.0	0.5	0.0	0.5
87.5°	5.1	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)