

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: P322496

Luminaire Tested: **GAN-SA2D-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322496
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-SA2D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 9428 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

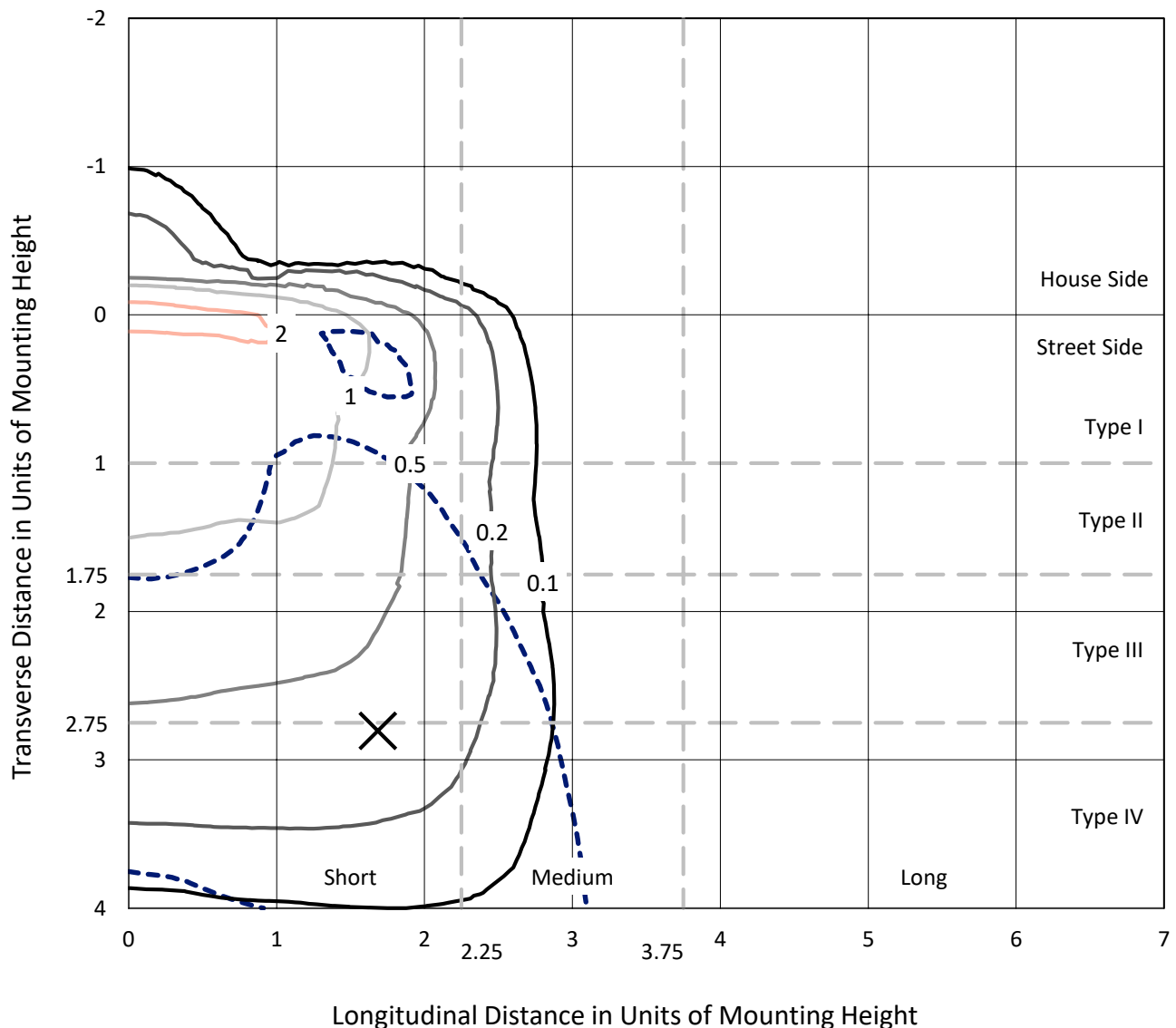
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

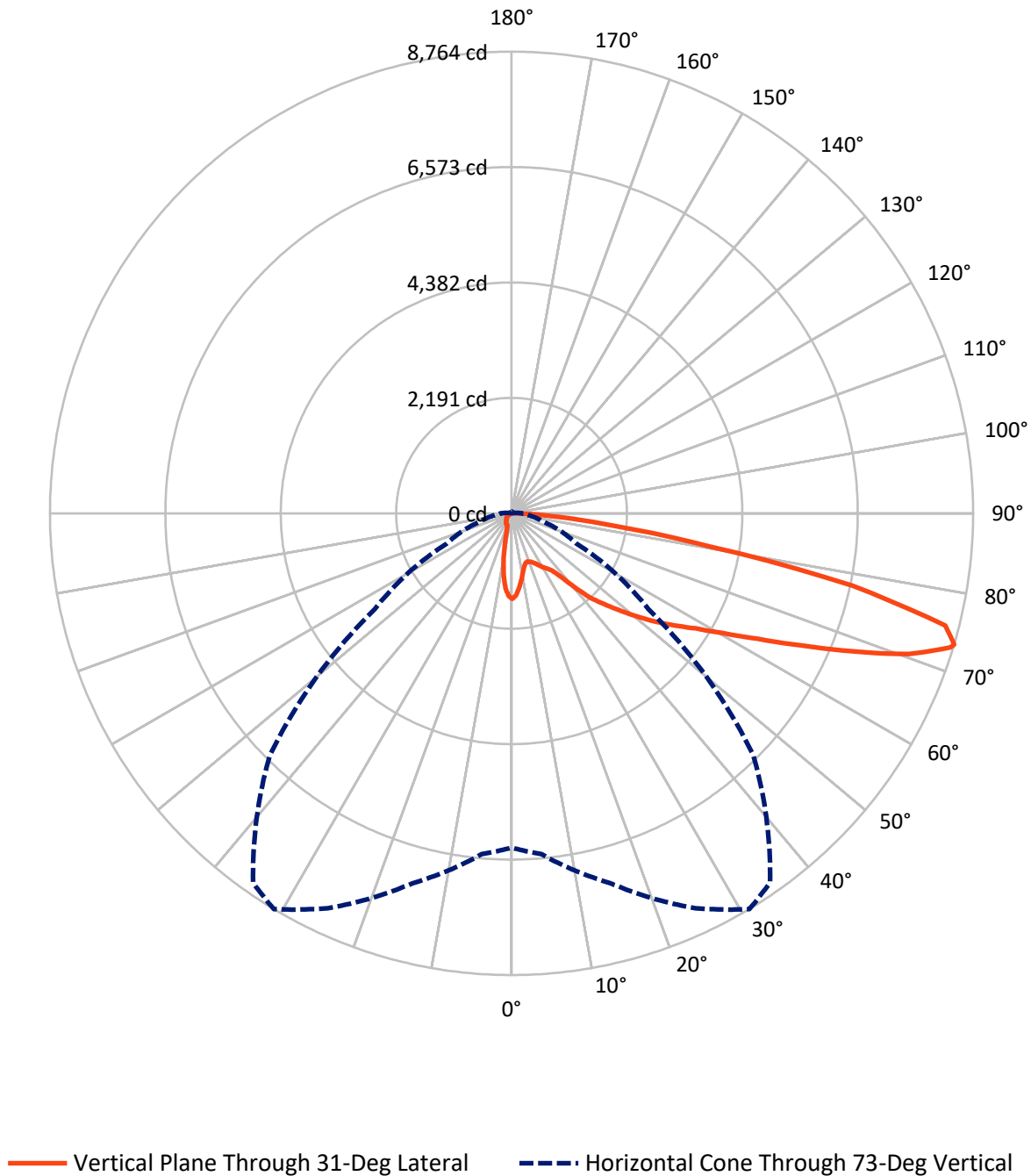
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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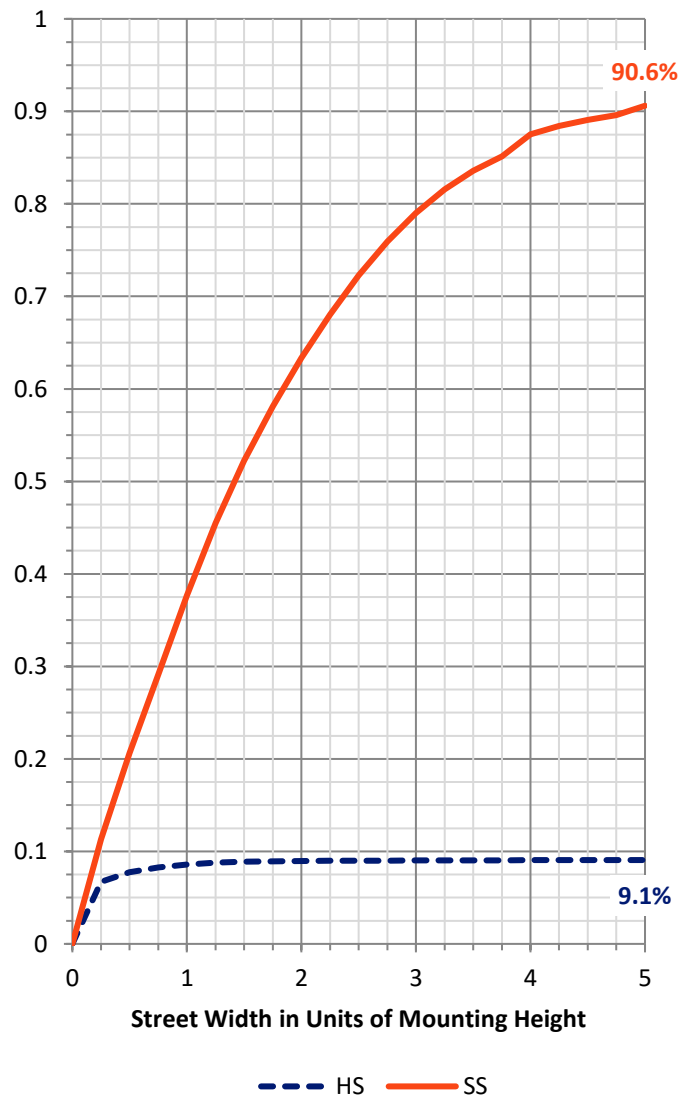
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	859.4	0.0	859.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	8568.6	0.0	8568.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	9428.0	0.0	9428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	1.4
10°-20°	292.0	3.1
20°-30°	437.5	4.6
30°-40°	696.1	7.4
40°-50°	1243.1	13.2
50°-60°	1928.9	20.5
60°-70°	2564.3	27.2
70°-80°	1928.8	20.5
80°-90°	202.7	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°	9428.0	100.0
0°-180°	9428.0	100.0

Coefficient of Utilization



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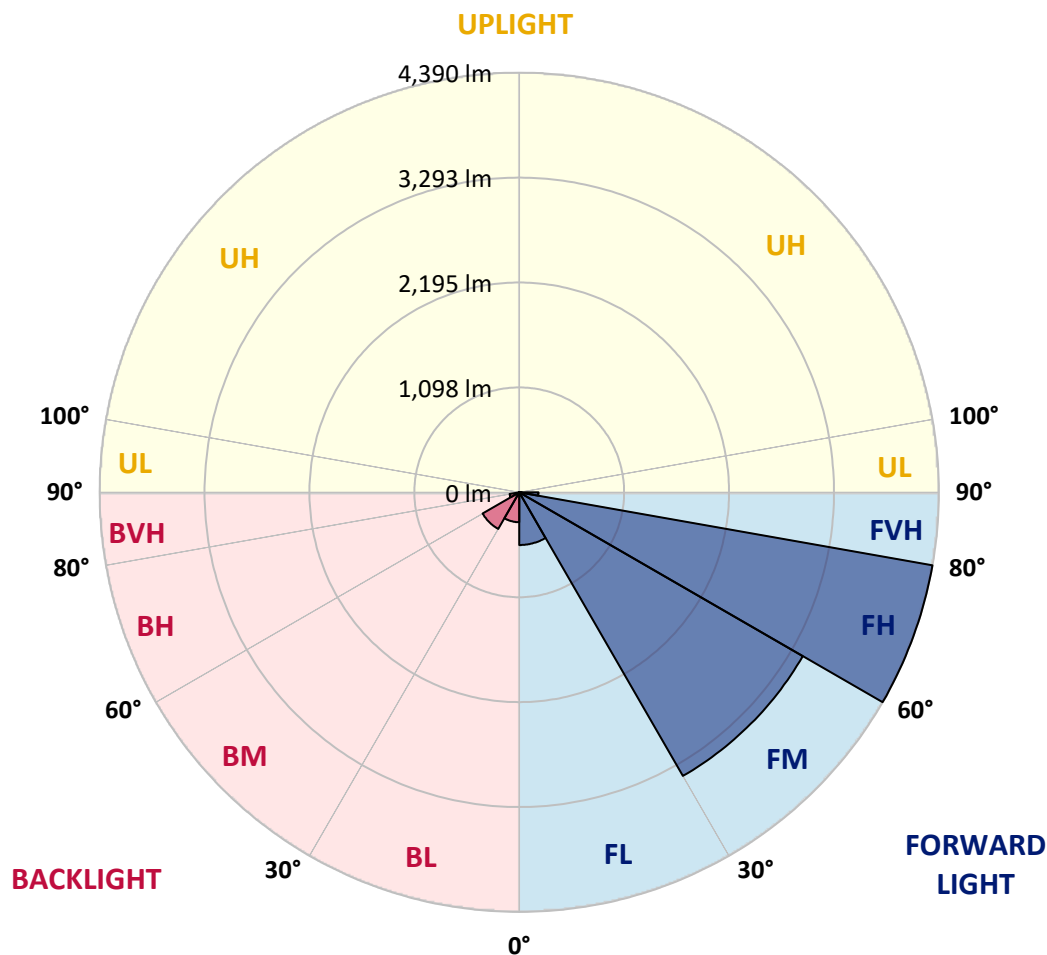
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	551.6	5.9			
FM	(30°-60°)	3425.8	36.3			
FH	(60°-80°)	4390.3	46.6			G2/5000
FVH	(80°-90°)	201.0	2.1			G2/225
BL	(0°-30°)	312.5	3.3	B1/500		
BM	(30°-60°)	442.4	4.7	B1/1000		
BH	(60°-80°)	102.8	1.1	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1537.2	1543.7	1550.6	1552.0	1563.5	1564.0	1580.6	1593.0	1605.5	1617.5	1621.6
5°	1379.4	1390.0	1402.5	1415.0	1439.4	1449.1	1489.7	1531.2	1570.9	1608.7	1627.2
7.5°	1211.0	1223.0	1240.6	1271.5	1298.7	1317.6	1381.7	1455.6	1529.4	1599.0	1639.2
10°	1057.4	1068.5	1086.9	1119.7	1161.7	1187.5	1273.8	1376.2	1484.6	1590.3	1657.2
12.5°	959.6	965.6	975.8	1010.8	1048.6	1077.7	1179.2	1306.1	1447.7	1589.8	1686.2
15°	941.6	943.5	935.2	950.8	980.4	1008.5	1111.4	1249.3	1419.6	1597.2	1724.1
17.5°	970.2	969.3	941.6	939.8	963.3	986.4	1078.2	1210.1	1399.7	1614.3	1773.0
20°	1013.6	1010.4	962.4	953.6	978.5	1000.2	1075.9	1195.4	1392.4	1642.9	1832.5
22.5°	1071.3	1065.7	990.5	981.3	1008.0	1030.7	1104.5	1209.7	1398.8	1681.2	1901.7
25°	1142.8	1134.5	1039.0	1028.8	1056.0	1078.6	1155.7	1250.7	1418.2	1727.8	1989.3
27.5°	1223.5	1211.5	1116.5	1090.2	1121.1	1144.6	1224.0	1313.5	1448.6	1777.1	2096.8
30°	1299.6	1283.9	1198.1	1154.8	1192.6	1218.9	1297.8	1388.2	1497.5	1853.2	2244.0
32.5°	1376.2	1358.7	1271.0	1219.3	1253.5	1282.1	1373.9	1491.1	1589.4	1969.5	2439.6
35°	1552.4	1534.0	1426.5	1341.1	1340.7	1356.8	1480.5	1631.8	1710.7	2131.4	2673.1
37.5°	1849.1	1838.5	1736.1	1574.1	1530.8	1512.8	1625.8	1799.7	1885.1	2354.3	2936.5
40°	2173.9	2164.7	2049.8	1903.1	1837.1	1792.8	1834.3	2033.6	2131.4	2626.5	3205.5
42.5°	2540.7	2496.8	2292.0	2248.2	2189.1	2155.4	2118.1	2322.0	2434.1	2922.7	3472.1
45°	2873.7	2799.9	2534.2	2467.8	2454.4	2462.7	2483.4	2709.5	2774.6	3274.7	3737.9
47.5°	3072.1	3014.0	2810.1	2746.4	2742.7	2797.6	2954.5	3147.3	3113.7	3581.5	3971.8
50°	3260.8	3208.2	3038.9	3054.6	3071.7	3146.4	3489.2	3597.6	3423.2	3859.7	4186.3
52.5°	3413.5	3333.3	3244.7	3332.8	3416.8	3537.2	4041.0	4001.8	3642.8	4081.1	4369.9
55°	3501.6	3465.2	3508.1	3596.7	3754.5	3950.1	4561.8	4338.1	3803.4	4283.2	4492.2
57.5°	3824.6	3753.1	3838.4	3915.0	4120.8	4394.4	5008.0	4588.6	3919.2	4408.2	4520.3
60°	4215.4	4157.7	4208.0	4335.3	4613.0	4934.6	5425.0	4793.0	3979.6	4488.5	4447.4
62.5°	4837.3	4761.1	4729.8	4872.3	5240.5	5591.6	5741.5	4934.6	3966.2	4453.0	4197.4
65°	5670.5	5591.6	5451.3	5580.5	6048.8	6296.5	6095.4	4964.6	3874.0	4165.5	3565.3
67.5°	6524.0	6466.7	6346.8	6564.5	6987.1	7067.0	6469.5	4891.7	3576.8	3377.5	2519.0
70°	7087.7	7063.3	7141.2	7622.9	7999.8	7976.7	6812.8	4500.0	2787.9	2077.0	1246.1
72.5°	6681.3	6798.5	7374.2	8247.6	8708.0	8519.8	6636.5	3455.5	1593.5	799.1	360.3
73°	6344.5	6494.4	7269.5	8271.1	8763.8	8557.6	6488.4	3171.8	1358.2	630.7	273.1
75°	4413.7	4597.8	6018.3	7703.2	8502.7	8153.4	5408.4	1941.4	629.3	279.6	110.3
77.5°	2143.0	2279.1	3313.9	5565.7	6612.5	6370.3	3366.9	723.4	284.2	174.9	50.7
80°	800.0	889.5	1438.5	2832.7	3821.4	3921.5	1480.9	273.6	189.2	140.7	25.8
82.5°	209.5	233.4	530.6	1263.2	1958.4	2049.8	466.9	137.9	138.4	115.8	15.7
85°	66.9	76.6	165.6	567.0	922.7	810.1	121.8	66.9	100.6	86.3	8.8
87.5°	8.3	10.6	52.6	133.3	203.5	113.0	18.9	19.8	42.9	48.0	5.1
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°	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1	1622.1
2.5°	1625.8	1623.5	1624.0	1612.0	1604.1	1588.4	1572.3	1564.9	1557.1	1553.8	1557.1
5°	1634.1	1629.9	1618.0	1581.0	1541.8	1491.1	1443.6	1407.6	1362.4	1349.9	1362.8
7.5°	1647.0	1638.7	1603.7	1528.5	1441.3	1344.4	1235.5	1156.1	1091.1	1049.1	1064.3
10°	1665.9	1650.2	1579.7	1451.9	1295.9	1124.3	969.8	849.3	764.0	728.9	727.5
12.5°	1697.8	1668.2	1550.1	1352.2	1118.3	889.5	687.0	556.4	487.2	442.4	441.5
15°	1732.8	1689.5	1512.8	1232.7	911.6	637.1	442.4	343.2	298.5	284.2	282.3
17.5°	1775.7	1713.9	1464.3	1085.6	695.3	422.1	288.8	260.2	258.4	257.0	257.0
20°	1829.7	1743.0	1402.0	917.2	493.2	281.9	245.4	247.3	248.2	246.4	246.8
22.5°	1892.5	1772.5	1327.8	736.3	333.6	235.7	234.8	237.1	238.1	237.1	237.6
25°	1965.4	1806.6	1237.3	546.7	240.8	223.8	226.1	229.3	231.6	231.6	231.6
27.5°	2055.8	1848.2	1128.5	381.5	208.1	211.3	217.8	223.8	227.0	227.9	227.9
30°	2173.4	1899.8	997.9	261.6	189.2	194.7	206.7	218.2	224.2	225.1	225.6
32.5°	2322.0	1958.0	846.6	193.3	173.0	177.2	190.1	209.5	221.0	222.8	222.8
35°	2492.2	2025.3	683.7	168.4	161.5	162.9	173.0	195.2	215.5	220.5	221.0
37.5°	2678.6	2091.8	519.9	157.3	151.8	151.8	159.2	178.1	202.1	217.8	219.6
40°	2852.5	2131.9	364.5	148.6	143.0	143.0	149.5	163.3	185.9	209.5	214.5
42.5°	3013.1	2145.7	253.7	140.3	134.7	136.1	141.6	152.7	169.8	193.3	197.9
45°	3178.2	2143.4	185.0	130.6	126.4	130.6	134.7	143.0	155.5	168.9	169.8
47.5°	3302.8	2124.1	146.7	121.3	118.6	124.1	127.8	133.3	140.3	139.3	139.3
50°	3419.5	2077.0	118.1	108.9	110.7	117.2	119.0	120.9	121.3	112.6	111.6
52.5°	3508.1	2003.6	94.6	95.5	102.9	109.3	107.5	104.7	100.1	89.5	87.7
55°	3537.6	1862.5	74.3	78.9	91.3	99.7	92.7	86.7	78.0	69.2	67.4
57.5°	3484.1	1680.2	60.4	61.4	77.0	84.0	76.1	69.2	59.5	52.1	50.7
60°	3370.6	1477.7	49.8	46.1	59.5	65.5	60.4	53.5	44.8	39.2	38.8
62.5°	3145.5	1261.8	41.1	36.0	45.2	50.3	47.1	42.0	34.6	30.9	30.4
65°	2672.1	1009.4	33.2	29.1	35.1	39.2	36.4	32.8	27.2	24.5	24.0
67.5°	1865.2	682.3	27.2	24.0	27.7	30.9	28.6	26.8	21.7	21.2	21.7
70°	899.6	328.9	22.6	19.4	21.7	24.0	23.1	21.7	20.8	24.0	27.7
72.5°	257.9	110.3	18.0	16.1	17.5	18.9	19.8	19.4	22.6	29.1	33.7
73°	198.4	89.0	17.1	15.2	16.6	18.5	19.4	18.9	23.1	29.5	33.7
75°	84.9	42.9	12.9	12.5	13.8	16.1	17.1	17.1	23.1	30.0	32.3
77.5°	38.3	23.1	8.3	9.7	12.0	12.9	14.3	14.3	18.5	23.1	23.1
80°	21.7	12.5	6.5	7.4	8.8	8.8	8.8	7.8	8.3	9.2	10.1
82.5°	13.8	8.3	5.1	6.0	5.5	4.6	3.7	3.7	3.2	3.7	4.6
85°	7.8	4.6	4.6	3.7	2.3	1.8	2.3	1.8	0.5	0.0	0.5
87.5°	4.6	2.8	1.4	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)