

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: P322487

Luminaire Tested: **GAN-SA3C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322487
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-SA3C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 12825 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

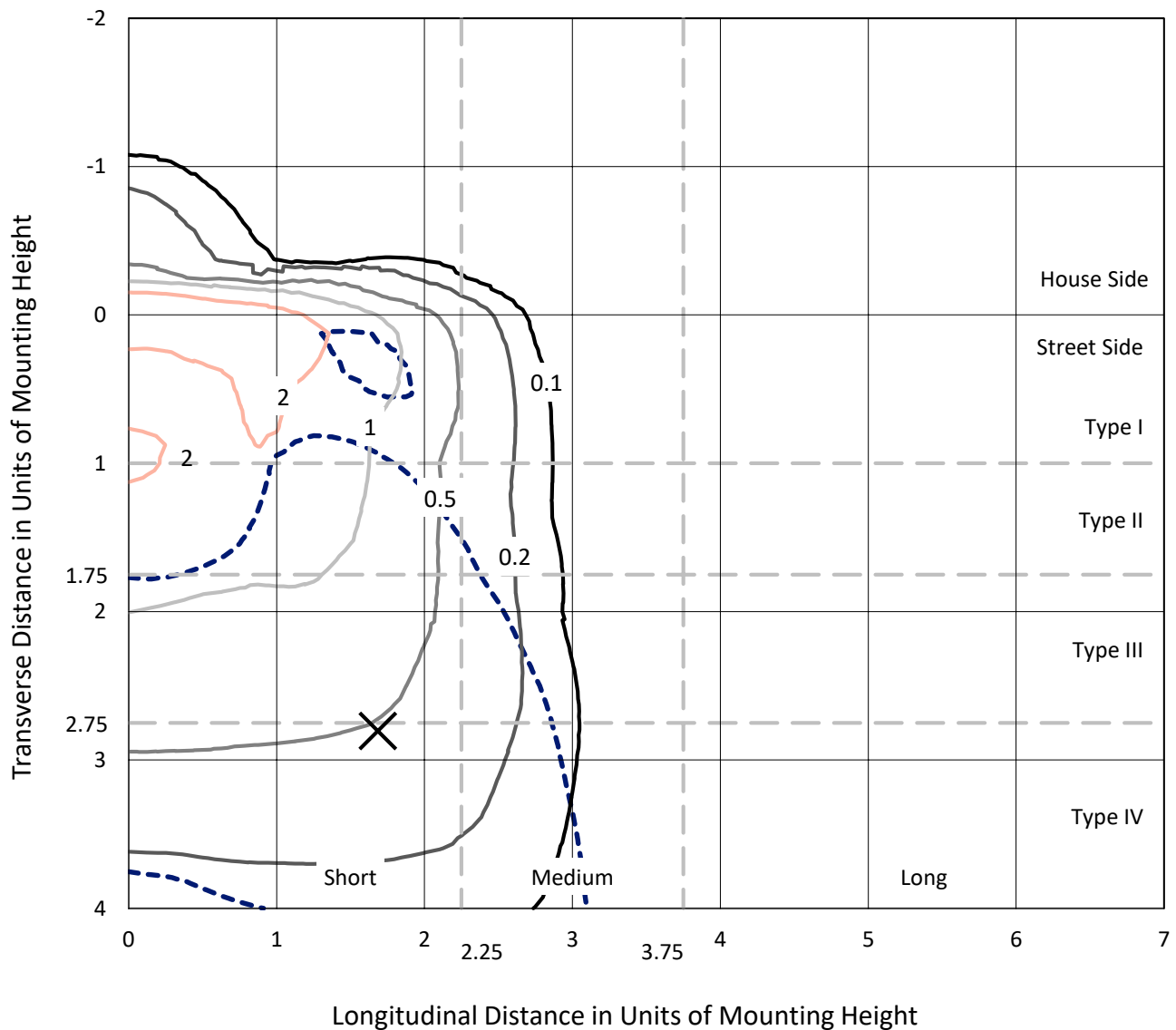
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

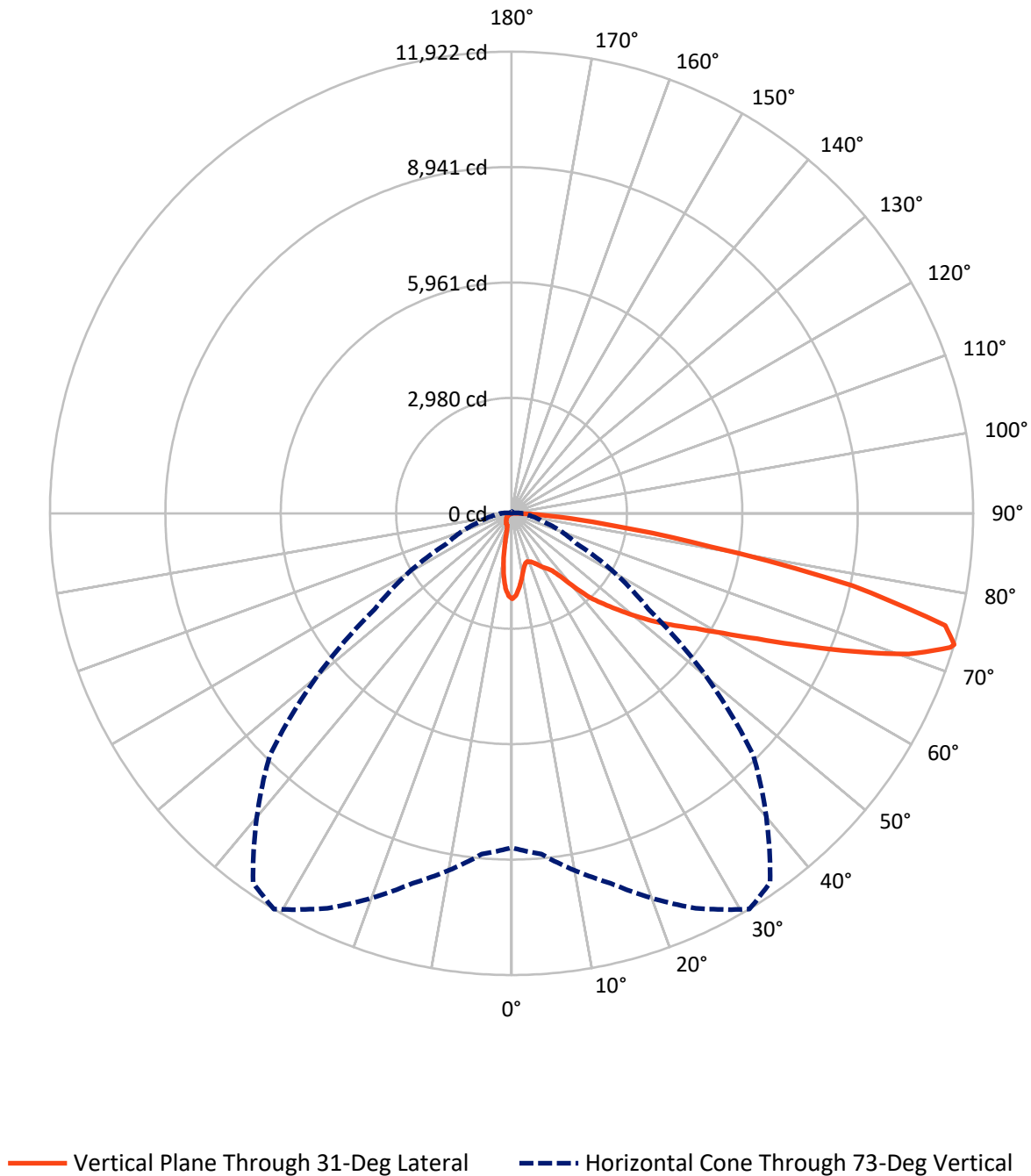
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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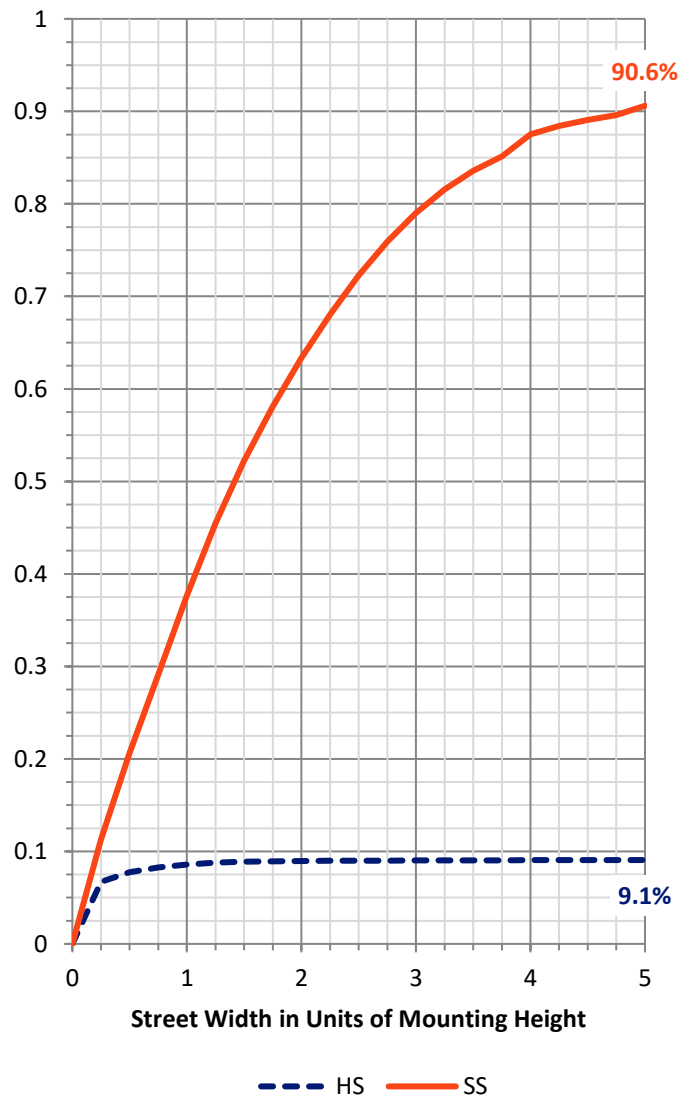
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.1	0.0	1169.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11656.0	0.0	11656.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	12825.0	0.0	12825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.4
10°-20°	397.2	3.1
20°-30°	595.2	4.6
30°-40°	947.0	7.4
40°-50°	1691.0	13.2
50°-60°	2624.0	20.5
60°-70°	3488.2	27.2
70°-80°	2623.8	20.5
80°-90°	275.7	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°	12825.0	100.0
0°-180°	12825.0	100.0

Coefficient of Utilization



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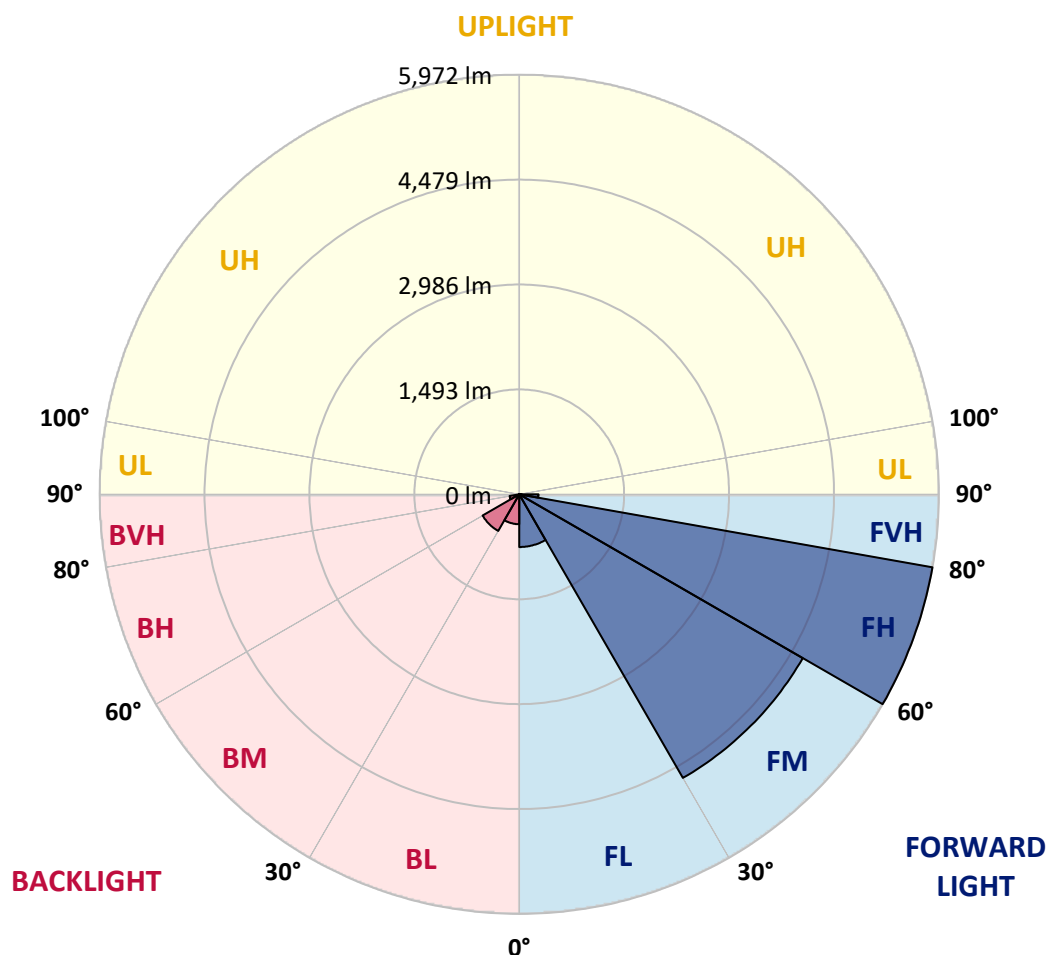
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	750.3	5.9			
FM	(30°-60°)	4660.2	36.3			
FH	(60°-80°)	5972.1	46.6			G3/7500
FVH	(80°-90°)	273.4	2.1			G3/500
BL	(0°-30°)	425.1	3.3	B1/500		
BM	(30°-60°)	601.7	4.7	B1/1000		
BH	(60°-80°)	139.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6
2.5°	2091.1	2099.9	2109.3	2111.2	2126.9	2127.5	2150.1	2167.0	2184.0	2200.3	2205.9
5°	1876.5	1890.9	1907.8	1924.8	1958.0	1971.2	2026.5	2082.9	2136.9	2188.4	2213.5
7.5°	1647.4	1663.7	1687.6	1729.6	1766.6	1792.4	1879.6	1980.0	2080.4	2175.2	2229.8
10°	1438.4	1453.5	1478.6	1523.1	1580.2	1615.4	1732.7	1872.1	2019.5	2163.3	2254.3
12.5°	1305.4	1313.5	1327.3	1375.0	1426.5	1466.0	1604.1	1776.7	1969.3	2162.6	2293.8
15°	1280.9	1283.4	1272.1	1293.4	1333.6	1371.9	1511.8	1699.5	1931.1	2172.7	2345.3
17.5°	1319.8	1318.5	1280.9	1278.4	1310.4	1341.8	1466.7	1646.1	1904.1	2195.9	2411.8
20°	1378.8	1374.4	1309.1	1297.2	1331.1	1360.6	1463.5	1626.1	1894.0	2234.8	2492.7
22.5°	1457.2	1449.7	1347.4	1334.9	1371.3	1402.0	1502.4	1645.5	1902.8	2286.9	2586.9
25°	1554.5	1543.2	1413.3	1399.5	1436.5	1467.3	1572.1	1701.4	1929.2	2350.3	2706.1
27.5°	1664.3	1648.0	1518.7	1483.0	1525.0	1557.0	1665.0	1786.7	1970.6	2417.4	2852.3
30°	1767.9	1746.6	1629.8	1570.8	1622.3	1658.1	1765.4	1888.4	2037.1	2521.0	3052.5
32.5°	1872.1	1848.2	1729.0	1658.7	1705.1	1744.0	1868.9	2028.3	2162.0	2679.1	3318.6
35°	2111.8	2086.7	1940.5	1824.4	1823.7	1845.7	2013.9	2219.7	2327.1	2899.4	3636.2
37.5°	2515.3	2500.9	2361.6	2141.3	2082.3	2057.8	2211.6	2448.2	2564.3	3202.5	3994.5
40°	2957.2	2944.6	2788.3	2588.8	2499.0	2438.8	2495.3	2766.4	2899.4	3572.8	4360.4
42.5°	3456.1	3396.5	3117.8	3058.2	2977.9	2932.0	2881.2	3158.6	3311.1	3975.7	4723.2
45°	3909.2	3808.8	3447.3	3356.9	3338.7	3350.0	3378.3	3685.8	3774.3	4454.6	5084.6
47.5°	4179.0	4100.0	3822.6	3736.0	3731.0	3805.6	4019.0	4281.3	4235.5	4871.9	5402.8
50°	4435.7	4364.2	4133.9	4155.2	4178.4	4280.1	4746.4	4893.9	4656.6	5250.3	5694.7
52.5°	4643.5	4534.3	4413.8	4533.6	4647.8	4811.6	5497.0	5443.6	4955.4	5551.6	5944.4
55°	4763.3	4713.7	4772.1	4892.6	5107.2	5373.3	6205.5	5901.1	5173.8	5826.4	6110.7
57.5°	5202.6	5105.4	5221.5	5325.6	5605.5	5977.7	6812.4	6241.9	5331.3	5996.5	6149.0
60°	5734.2	5655.7	5724.1	5897.4	6275.2	6712.6	7379.7	6519.9	5413.5	6105.7	6049.9
62.5°	6580.2	6476.6	6433.9	6627.9	7128.7	7606.3	7810.2	6712.6	5395.3	6057.4	5709.7
65°	7713.6	7606.3	7415.5	7591.2	8228.2	8565.2	8291.6	6753.4	5269.8	5666.4	4849.9
67.5°	8874.6	8796.8	8633.6	8929.8	9504.7	9613.3	8800.5	6654.2	4865.6	4594.5	3426.6
70°	9641.5	9608.2	9714.3	10369.5	10882.2	10850.8	9267.5	6121.4	3792.5	2825.4	1695.1
72.5°	9088.6	9248.0	10031.2	11219.2	11845.6	11589.5	9027.7	4700.6	2167.7	1087.0	490.1
73°	8630.5	8834.4	9888.8	11251.2	11921.5	11641.0	8826.3	4314.6	1847.6	857.9	371.5
75°	6004.0	6254.5	8186.8	10478.7	11566.3	11091.2	7357.1	2640.9	856.0	380.3	150.0
77.5°	2915.1	3100.2	4507.9	7571.1	8995.1	8665.6	4580.1	984.0	386.6	237.9	69.0
80°	1088.2	1210.0	1956.8	3853.3	5198.2	5334.4	2014.5	372.2	257.3	191.4	35.1
82.5°	284.9	317.6	721.7	1718.3	2664.1	2788.3	635.1	187.6	188.3	157.5	21.3
85°	91.0	104.2	225.3	771.3	1255.2	1102.0	165.7	91.0	136.8	117.4	11.9
87.5°	11.3	14.4	71.5	181.4	276.8	153.8	25.7	27.0	58.4	65.3	6.9
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°	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6	2206.6
2.5°	2211.6	2208.5	2209.1	2192.8	2182.1	2160.8	2138.8	2128.7	2118.1	2113.7	2118.1
5°	2222.9	2217.2	2200.9	2150.7	2097.4	2028.3	1963.7	1914.7	1853.2	1836.3	1853.9
7.5°	2240.5	2229.2	2181.5	2079.2	1960.6	1828.8	1680.7	1572.7	1484.2	1427.1	1447.8
10°	2266.2	2244.8	2148.8	1975.0	1762.9	1529.4	1319.2	1155.4	1039.3	991.6	989.7
12.5°	2309.5	2269.3	2108.7	1839.4	1521.3	1210.0	934.5	756.9	662.7	601.8	600.6
15°	2357.2	2298.2	2057.8	1676.9	1240.1	866.7	601.8	466.9	406.0	386.6	384.1
17.5°	2415.6	2331.5	1991.9	1476.7	945.8	574.2	392.9	354.0	351.4	349.6	349.6
20°	2489.0	2371.0	1907.2	1247.6	670.9	383.5	333.9	336.4	337.6	335.1	335.8
22.5°	2574.3	2411.2	1806.2	1001.6	453.7	320.7	319.4	322.6	323.8	322.6	323.2
25°	2673.5	2457.6	1683.2	743.7	327.6	304.4	307.5	311.9	315.0	315.0	315.0
27.5°	2796.5	2514.1	1535.1	519.0	283.0	287.4	296.2	304.4	308.8	310.0	310.0
30°	2956.5	2584.4	1357.5	355.8	257.3	264.8	281.2	296.8	305.0	306.3	306.9
32.5°	3158.6	2663.4	1151.6	263.0	235.3	241.0	258.6	284.9	300.6	303.1	303.1
35°	3390.2	2755.1	930.1	229.1	219.7	221.5	235.3	265.5	293.1	300.0	300.6
37.5°	3643.7	2845.4	707.3	214.0	206.5	206.5	216.5	242.2	274.9	296.2	298.7
40°	3880.3	2900.0	495.8	202.1	194.5	194.5	203.3	222.2	252.9	284.9	291.8
42.5°	4098.7	2918.9	345.2	190.8	183.3	185.1	192.7	207.7	230.9	263.0	269.2
45°	4323.4	2915.7	251.7	177.6	172.0	177.6	183.3	194.5	211.5	229.7	230.9
47.5°	4492.8	2889.4	199.6	165.1	161.3	168.8	173.8	181.4	190.8	189.5	189.5
50°	4651.6	2825.4	160.7	148.1	150.6	159.4	161.9	164.4	165.1	153.1	151.9
52.5°	4772.1	2725.6	128.7	129.9	140.0	148.7	146.2	142.5	136.2	121.8	119.2
55°	4812.3	2533.5	101.0	107.3	124.3	135.6	126.1	118.0	106.1	94.1	91.6
57.5°	4739.5	2285.6	82.2	83.5	104.8	114.2	103.6	94.1	81.0	70.9	69.0
60°	4585.1	2010.1	67.8	62.8	81.0	89.1	82.2	72.8	60.9	53.3	52.7
62.5°	4278.8	1716.4	55.9	49.0	61.5	68.4	64.0	57.1	47.1	42.0	41.4
65°	3634.9	1373.1	45.2	39.5	47.7	53.3	49.6	44.6	37.0	33.3	32.6
67.5°	2537.3	928.2	37.0	32.6	37.7	42.0	38.9	36.4	29.5	28.9	29.5
70°	1223.8	447.5	30.8	26.4	29.5	32.6	31.4	29.5	28.2	32.6	37.7
72.5°	350.8	150.0	24.5	22.0	23.8	25.7	27.0	26.4	30.8	39.5	45.8
73°	269.9	121.1	23.2	20.7	22.6	25.1	26.4	25.7	31.4	40.2	45.8
75°	115.5	58.4	17.6	16.9	18.8	22.0	23.2	23.2	31.4	40.8	43.9
77.5°	52.1	31.4	11.3	13.2	16.3	17.6	19.5	19.5	25.1	31.4	31.4
80°	29.5	16.9	8.8	10.0	11.9	11.9	11.9	10.7	11.3	12.6	13.8
82.5°	18.8	11.3	6.9	8.2	7.5	6.3	5.0	5.0	4.4	5.0	6.3
85°	10.7	6.3	6.3	5.0	3.1	2.5	3.1	2.5	0.6	0.0	0.6
87.5°	6.3	3.8	1.9	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)