

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: P322469

Luminaire Tested: **GAN-SA5A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322469
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-SA5A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 13833 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

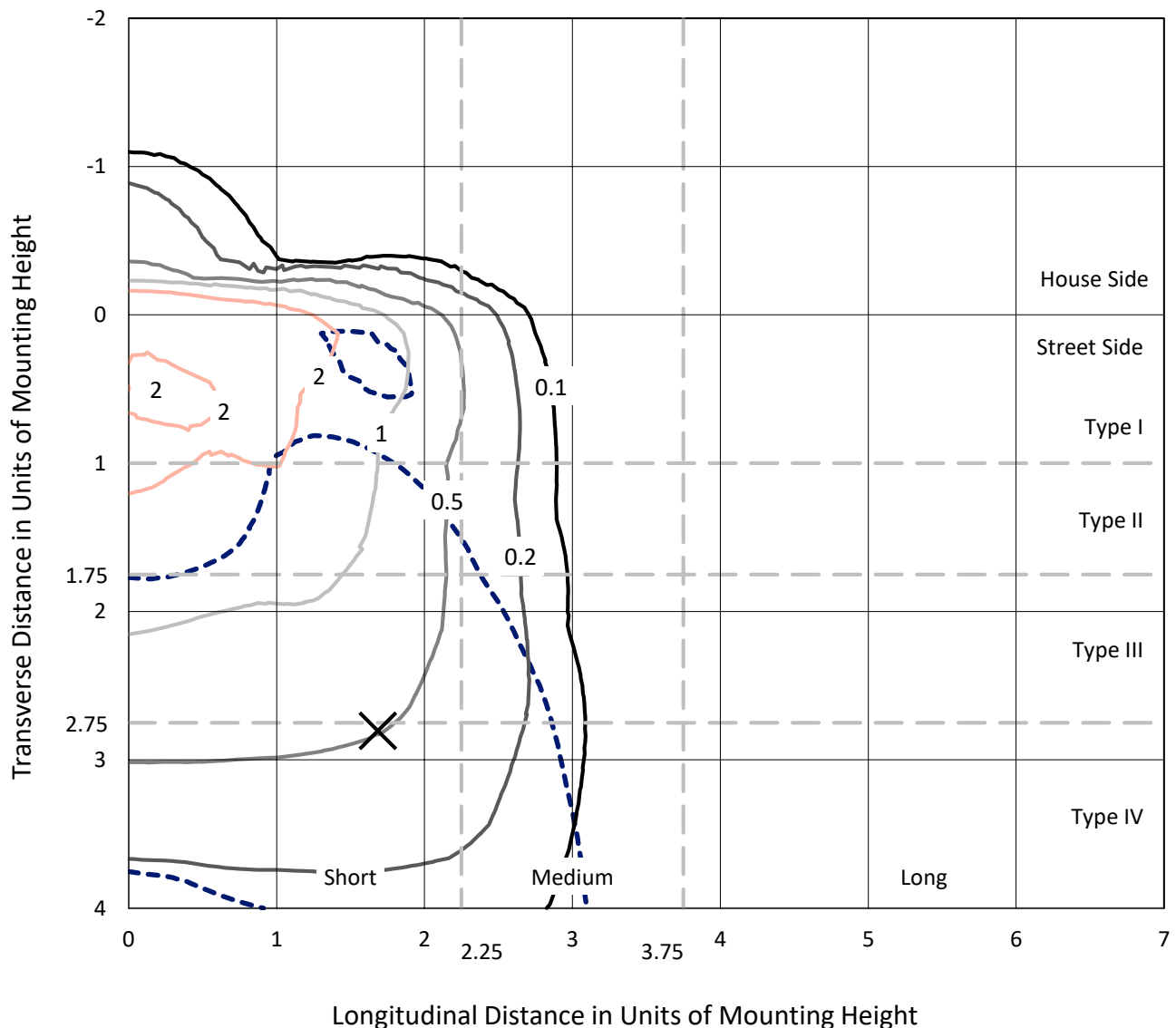
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

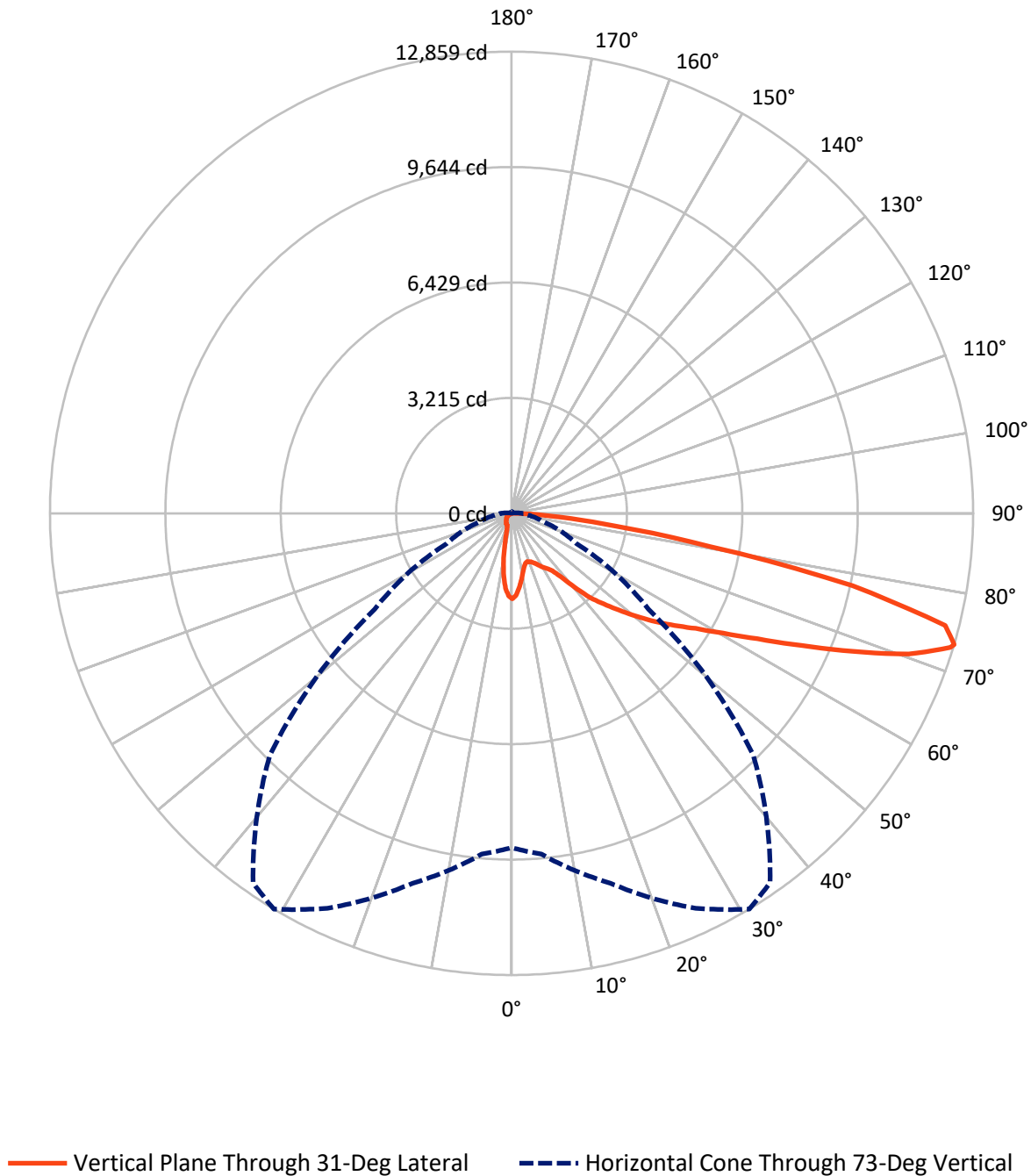
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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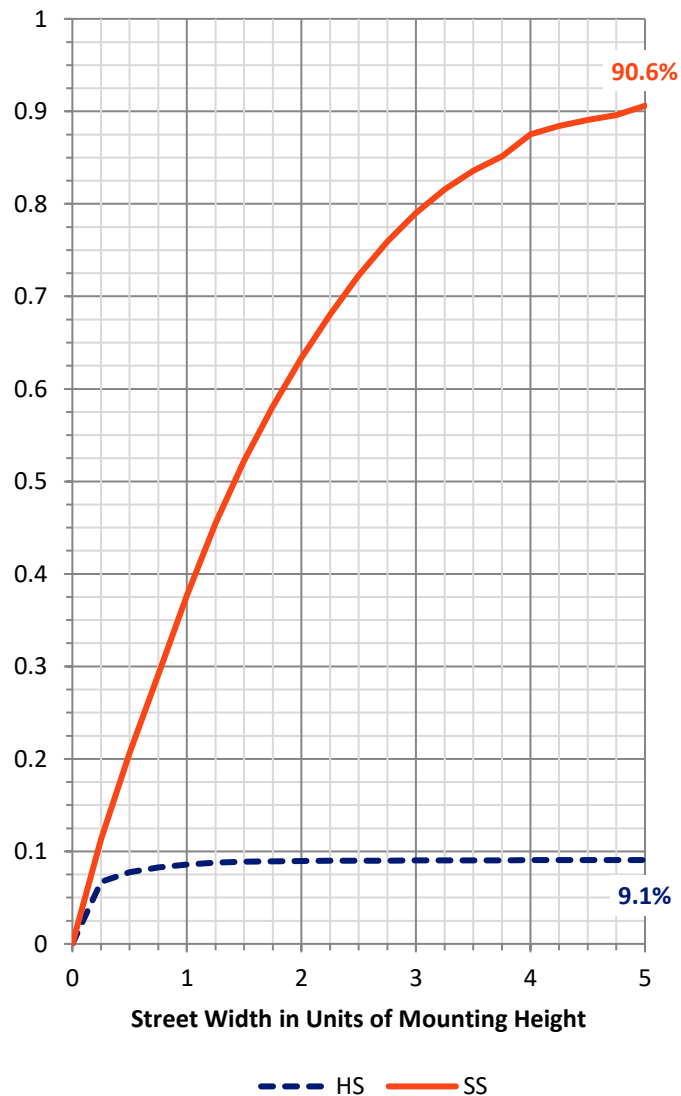
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1260.9	0.0	1260.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	12572.1	0.0	12572.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	13833.0	0.0	13833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	1.4
10°-20°	428.5	3.1
20°-30°	642.0	4.6
30°-40°	1021.4	7.4
40°-50°	1823.9	13.2
50°-60°	2830.2	20.5
60°-70°	3762.3	27.2
70°-80°	2830.0	20.5
80°-90°	297.4	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°	13833.0	100.0
0°-180°	13833.0	100.0

Coefficient of Utilization



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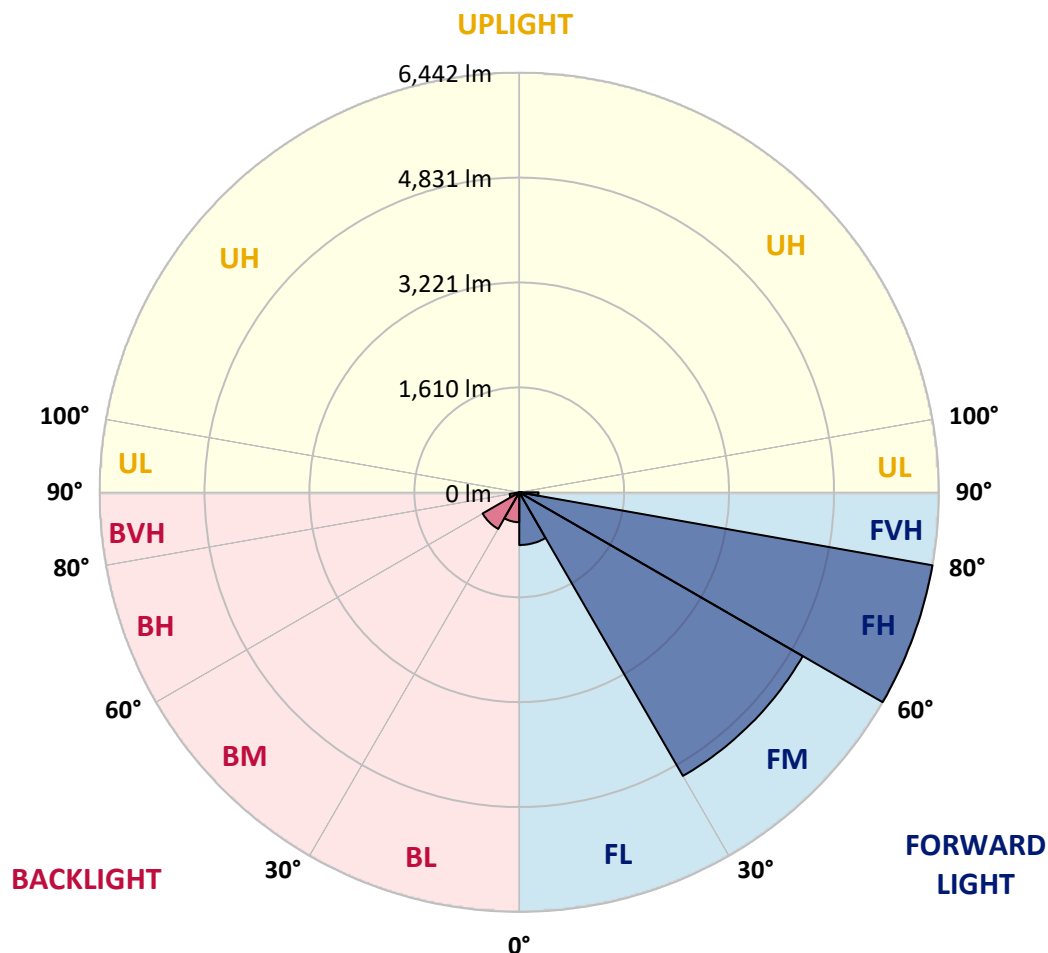
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.2	5.9			
FM	(30°-60°)	5026.4	36.3			
FH	(60°-80°)	6441.5	46.6			G3/7500
FVH	(80°-90°)	294.9	2.1			G3/500
BL	(0°-30°)	458.5	3.3	B1/500		
BM	(30°-60°)	649.0	4.7	B1/1000		
BH	(60°-80°)	150.9	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2255.4	2264.9	2275.1	2277.1	2294.0	2294.7	2319.1	2337.4	2355.6	2373.2	2379.3
5°	2023.9	2039.5	2057.8	2076.1	2111.9	2126.2	2185.7	2246.6	2304.9	2360.4	2387.4
7.5°	1776.9	1794.5	1820.2	1865.5	1905.5	1933.2	2027.3	2135.6	2243.9	2346.2	2405.0
10°	1551.5	1567.7	1594.8	1642.8	1704.4	1742.4	1868.9	2019.2	2178.3	2333.3	2431.4
12.5°	1408.0	1416.8	1431.7	1483.1	1538.6	1581.2	1730.2	1916.3	2124.1	2332.6	2474.1
15°	1381.6	1384.3	1372.1	1395.1	1438.4	1479.7	1630.7	1833.1	2082.8	2343.4	2529.6
17.5°	1423.5	1422.2	1381.6	1378.9	1413.4	1447.2	1581.9	1775.5	2053.7	2368.5	2601.3
20°	1487.2	1482.4	1412.0	1399.2	1435.7	1467.5	1578.5	1753.9	2042.9	2410.5	2688.7
22.5°	1571.8	1563.6	1453.3	1439.8	1479.0	1512.2	1620.5	1774.8	2052.4	2466.6	2790.2
25°	1676.7	1664.5	1524.4	1509.5	1549.4	1582.6	1695.6	1835.1	2080.8	2535.0	2918.8
27.5°	1795.2	1777.6	1638.1	1599.5	1644.9	1679.4	1795.8	1927.1	2125.5	2607.4	3076.5
30°	1906.8	1883.8	1757.9	1694.3	1749.8	1788.4	1904.1	2036.8	2197.2	2719.1	3292.5
32.5°	2019.2	1993.5	1864.9	1789.1	1839.1	1881.1	2015.8	2187.8	2331.9	2889.7	3579.5
35°	2277.8	2250.7	2093.0	1967.8	1967.1	1990.8	2172.2	2394.2	2510.0	3127.3	3922.0
37.5°	2713.0	2697.5	2547.2	2309.6	2246.0	2219.6	2385.4	2640.6	2765.8	3454.2	4308.5
40°	3189.6	3176.0	3007.5	2792.2	2695.4	2630.5	2691.4	2983.8	3127.3	3853.6	4703.1
42.5°	3727.7	3663.4	3362.9	3298.6	3211.9	3162.5	3107.7	3406.9	3571.3	4288.2	5094.4
45°	4216.4	4108.1	3718.2	3620.8	3601.1	3613.3	3643.8	3975.5	4070.9	4804.7	5484.3
47.5°	4507.5	4422.2	4123.0	4029.6	4024.2	4104.7	4334.9	4617.8	4568.4	5254.8	5827.5
50°	4784.4	4707.2	4458.8	4481.8	4506.8	4616.5	5119.4	5278.5	5022.6	5663.0	6142.2
52.5°	5008.4	4890.6	4760.7	4890.0	5013.2	5189.8	5929.0	5871.5	5344.8	5987.9	6411.6
55°	5137.7	5084.2	5147.2	5277.1	5508.6	5795.7	6693.2	6364.9	5580.4	6284.4	6591.0
57.5°	5611.5	5506.6	5631.8	5744.2	6046.1	6447.5	7347.8	6732.5	5750.3	6467.8	6632.3
60°	6184.9	6100.3	6174.0	6360.9	6768.4	7240.2	7959.7	7032.4	5839.0	6585.6	6525.4
62.5°	7097.3	6985.7	6939.6	7148.8	7689.0	8204.1	8424.1	7240.2	5819.3	6533.5	6158.5
65°	8319.8	8204.1	7998.3	8187.8	8874.9	9238.4	8943.3	7284.2	5684.0	6111.8	5231.1
67.5°	9572.1	9488.2	9312.2	9631.7	10251.7	10368.8	9492.2	7177.2	5248.0	4955.6	3695.9
70°	10399.3	10363.4	10477.8	11184.5	11737.5	11703.7	9995.8	6602.5	4090.5	3047.4	1828.3
72.5°	9802.9	9974.9	10819.6	12101.0	12776.6	12500.4	9737.3	5070.0	2338.0	1172.4	528.7
73°	9308.8	9528.8	10666.0	12135.5	12858.5	12555.9	9520.0	4653.7	1992.8	925.3	400.7
75°	6475.9	6746.0	8830.2	11302.3	12475.3	11962.9	7935.4	2848.4	923.3	410.2	161.8
77.5°	3144.2	3343.9	4862.2	8166.2	9702.1	9346.7	4940.0	1061.4	417.0	256.5	74.5
80°	1173.8	1305.1	2110.6	4156.2	5606.8	5753.7	2172.9	401.4	277.5	206.5	37.9
82.5°	307.3	342.5	778.4	1853.4	2873.5	3007.5	685.0	202.4	203.1	169.9	23.0
85°	98.2	112.4	243.0	831.9	1353.8	1188.6	178.7	98.2	147.6	126.6	12.9
87.5°	12.2	15.6	77.2	195.6	298.5	165.8	27.8	29.1	63.0	70.4	7.4
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°	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0	2380.0
2.5°	2385.4	2382.0	2382.7	2365.1	2353.6	2330.6	2306.9	2296.1	2284.6	2279.8	2284.6
5°	2397.6	2391.5	2373.9	2319.8	2262.2	2187.8	2118.0	2065.2	1998.9	1980.6	1999.6
7.5°	2416.5	2404.4	2352.9	2242.6	2114.6	1972.5	1812.8	1696.3	1600.9	1539.3	1561.6
10°	2444.3	2421.3	2317.7	2130.2	1901.4	1649.6	1422.9	1246.2	1121.0	1069.5	1067.5
12.5°	2491.0	2447.7	2274.4	1984.0	1640.8	1305.1	1007.9	816.3	714.8	649.2	647.8
15°	2542.5	2478.8	2219.6	1808.7	1337.6	934.8	649.2	503.6	438.0	417.0	414.3
17.5°	2605.4	2514.7	2148.5	1592.8	1020.1	619.4	423.7	381.8	379.1	377.0	377.0
20°	2684.6	2557.3	2057.1	1345.7	723.6	413.6	360.1	362.8	364.2	361.5	362.1
22.5°	2776.7	2600.7	1948.1	1080.3	489.4	345.9	344.5	347.9	349.3	347.9	348.6
25°	2883.6	2650.8	1815.5	802.1	353.3	328.3	331.7	336.4	339.8	339.8	339.8
27.5°	3016.3	2711.7	1655.7	559.8	305.3	310.0	319.5	328.3	333.0	334.4	334.4
30°	3188.9	2787.5	1464.1	383.8	277.5	285.7	303.3	320.2	329.0	330.3	331.0
32.5°	3406.9	2872.8	1242.1	283.6	253.8	259.9	278.9	307.3	324.2	326.9	326.9
35°	3656.6	2971.6	1003.2	247.1	236.9	238.9	253.8	286.3	316.1	323.6	324.2
37.5°	3930.1	3069.1	762.9	230.8	222.7	222.7	233.5	261.3	296.5	319.5	322.2
40°	4185.3	3128.0	534.8	218.0	209.8	209.8	219.3	239.6	272.8	307.3	314.8
42.5°	4420.9	3148.3	372.3	205.8	197.7	199.7	207.8	224.1	249.1	283.6	290.4
45°	4663.2	3144.9	271.4	191.6	185.5	191.6	197.7	209.8	228.1	247.7	249.1
47.5°	4846.0	3116.5	215.3	178.0	174.0	182.1	187.5	195.6	205.8	204.4	204.4
50°	5017.2	3047.4	173.3	159.7	162.5	171.9	174.6	177.3	178.0	165.2	163.8
52.5°	5147.2	2939.8	138.8	140.1	150.9	160.4	157.7	153.7	146.9	131.3	128.6
55°	5190.5	2732.7	109.0	115.8	134.0	146.2	136.1	127.3	114.4	101.5	98.8
57.5°	5112.0	2465.3	88.7	90.0	113.0	123.2	111.7	101.5	87.3	76.5	74.5
60°	4945.5	2168.1	73.1	67.7	87.3	96.1	88.7	78.5	65.7	57.5	56.9
62.5°	4615.1	1851.3	60.2	52.8	66.3	73.8	69.0	61.6	50.8	45.4	44.7
65°	3920.6	1481.1	48.7	42.6	51.4	57.5	53.5	48.1	39.9	35.9	35.2
67.5°	2736.7	1001.1	39.9	35.2	40.6	45.4	42.0	39.3	31.8	31.1	31.8
70°	1320.0	482.6	33.2	28.4	31.8	35.2	33.8	31.8	30.5	35.2	40.6
72.5°	378.4	161.8	26.4	23.7	25.7	27.8	29.1	28.4	33.2	42.6	49.4
73°	291.1	130.6	25.0	22.3	24.4	27.1	28.4	27.8	33.8	43.3	49.4
75°	124.6	63.0	19.0	18.3	20.3	23.7	25.0	25.0	33.8	44.0	47.4
77.5°	56.2	33.8	12.2	14.2	17.6	19.0	21.0	21.0	27.1	33.8	33.8
80°	31.8	18.3	9.5	10.8	12.9	12.9	12.9	11.5	12.2	13.5	14.9
82.5°	20.3	12.2	7.4	8.8	8.1	6.8	5.4	5.4	4.7	5.4	6.8
85°	11.5	6.8	6.8	5.4	3.4	2.7	3.4	2.7	0.7	0.0	0.7
87.5°	6.8	4.1	2.0	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)