

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: P322657

Luminaire Tested: **GAN-SA3D-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322657
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-SA3D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 16822 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

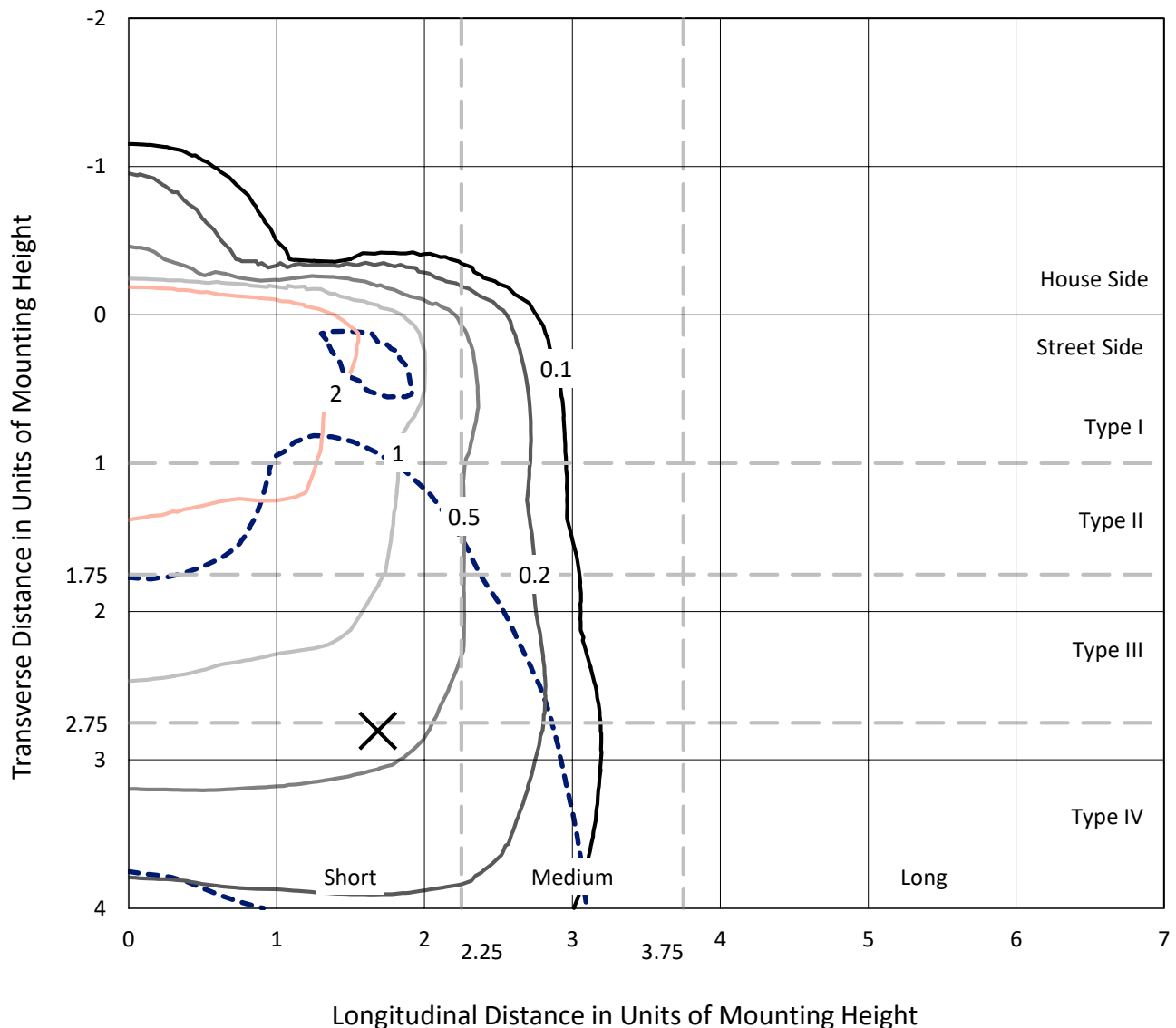
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

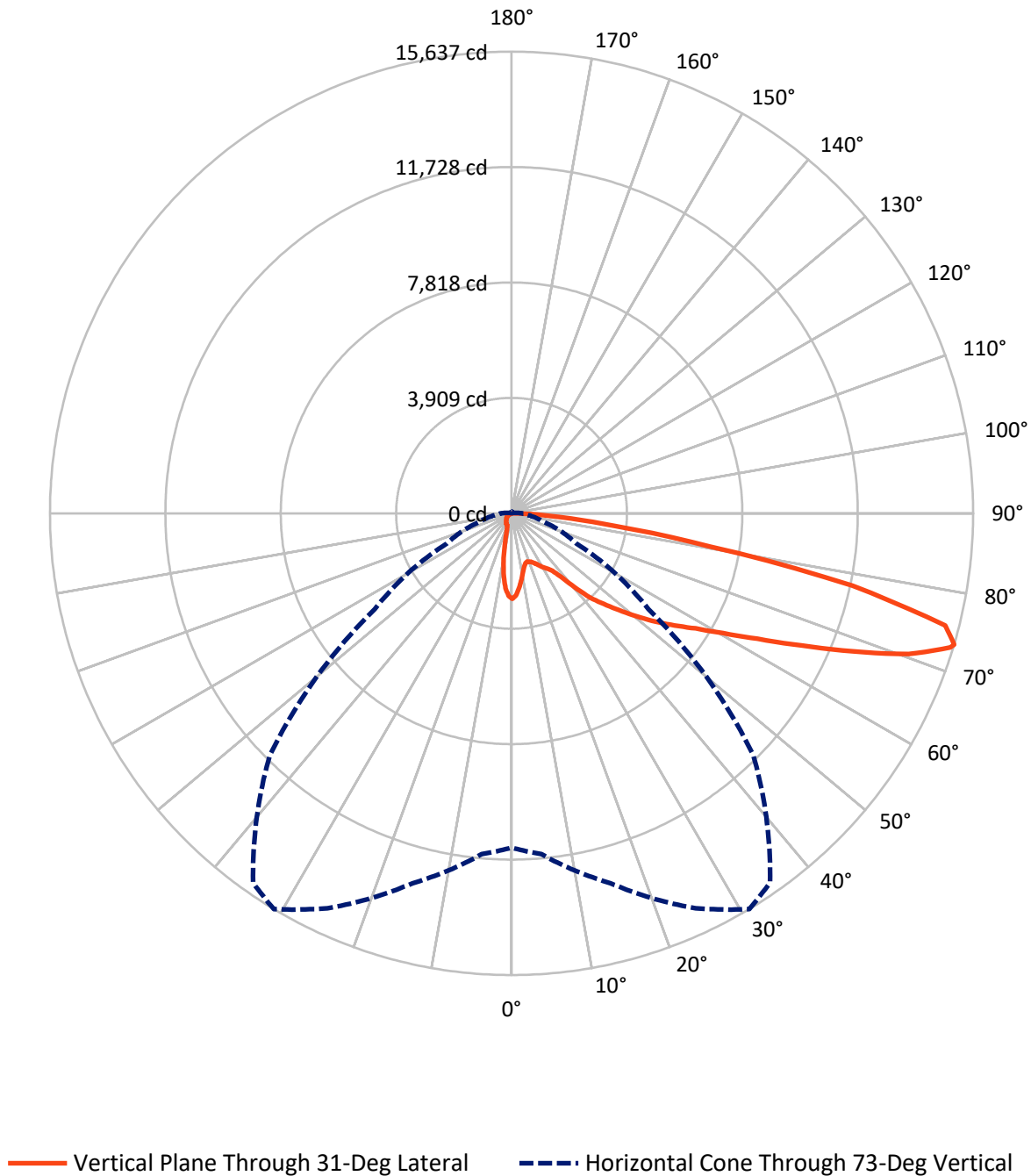
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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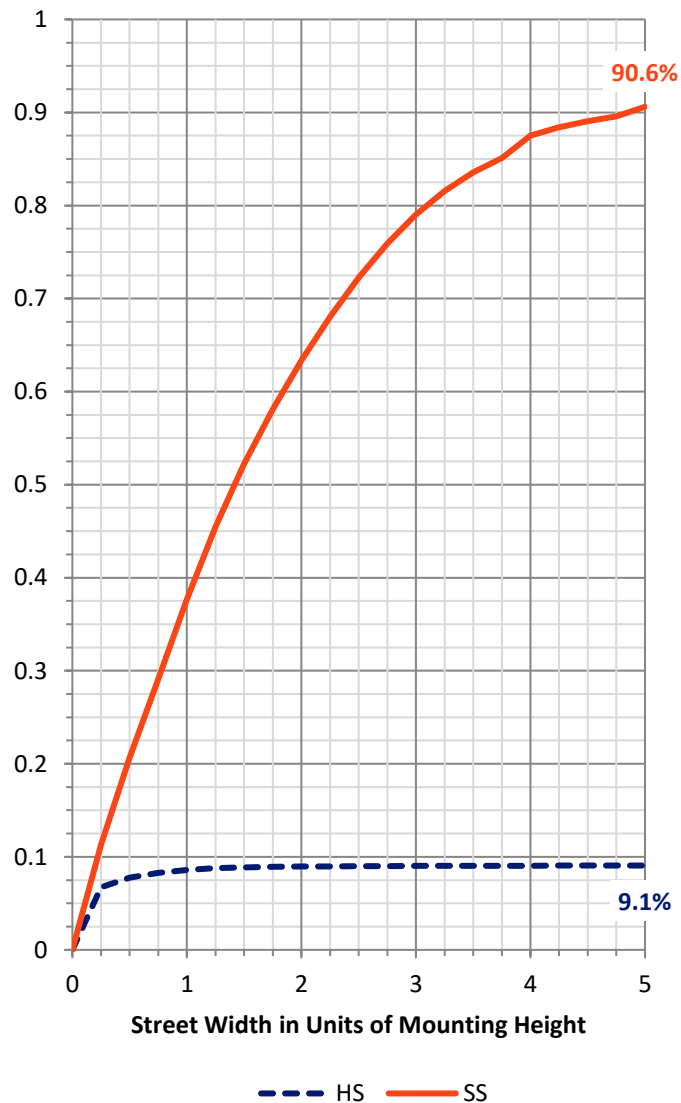
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.4	0.0	1533.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	15288.6	0.0	15288.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	16822.0	0.0	16822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	1.4
10°-20°	521.1	3.1
20°-30°	780.7	4.6
30°-40°	1242.1	7.4
40°-50°	2218.0	13.2
50°-60°	3441.7	20.5
60°-70°	4575.3	27.2
70°-80°	3441.5	20.5
80°-90°	361.6	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°	16822.0	100.0
0°-180°	16822.0	100.0

Coefficient of Utilization



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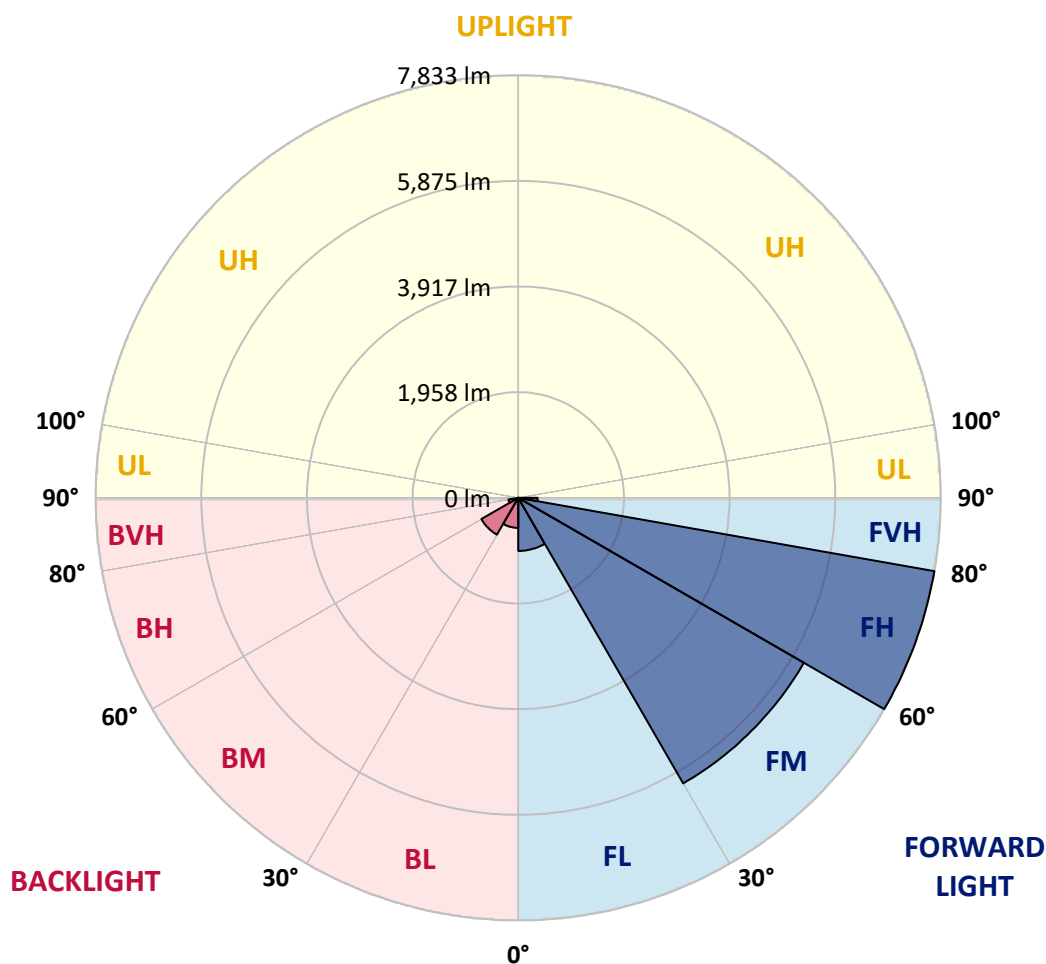
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	984.1	5.9			
FM	(30°-60°)	6112.5	36.3			
FH	(60°-80°)	7833.4	46.6			G4/12000
FVH	(80°-90°)	358.6	2.1			G3/500
BL	(0°-30°)	557.6	3.3	B2/1000		
BM	(30°-60°)	789.3	4.7	B1/1000		
BH	(60°-80°)	183.5	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3
2.5°	2742.8	2754.3	2766.7	2769.1	2789.7	2790.5	2820.2	2842.4	2864.6	2886.0	2893.4
5°	2461.3	2480.2	2502.4	2524.7	2568.3	2585.6	2658.0	2732.1	2802.9	2870.4	2903.3
7.5°	2160.8	2182.2	2213.5	2268.7	2317.2	2351.0	2465.4	2597.1	2728.8	2853.1	2924.7
10°	1886.7	1906.5	1939.4	1997.8	2072.7	2118.8	2272.8	2455.5	2649.0	2837.5	2956.8
12.5°	1712.2	1722.9	1741.0	1803.6	1871.1	1922.9	2104.0	2330.4	2583.1	2836.6	3008.7
15°	1680.1	1683.4	1668.6	1696.5	1749.2	1799.4	1983.0	2229.1	2532.9	2849.8	3076.2
17.5°	1731.1	1729.5	1680.1	1676.8	1718.8	1759.9	1923.7	2159.2	2497.5	2880.3	3163.4
20°	1808.5	1802.7	1717.1	1701.5	1745.9	1784.6	1919.6	2132.8	2484.3	2931.3	3269.6
22.5°	1911.4	1901.5	1767.3	1750.9	1798.6	1839.0	1970.7	2158.3	2495.8	2999.6	3393.1
25°	2039.0	2024.2	1853.8	1835.7	1884.2	1924.6	2062.0	2231.6	2530.4	3082.8	3549.5
27.5°	2183.0	2161.6	1992.1	1945.1	2000.3	2042.3	2183.9	2343.6	2584.7	3170.8	3741.3
30°	2318.9	2290.9	2137.8	2060.4	2127.9	2174.8	2315.6	2476.9	2672.0	3306.7	4003.9
32.5°	2455.5	2424.2	2267.8	2175.6	2236.5	2287.6	2451.4	2660.5	2835.8	3514.1	4352.9
35°	2770.0	2737.0	2545.2	2393.0	2392.1	2420.9	2641.5	2911.5	3052.3	3803.0	4769.4
37.5°	3299.3	3280.3	3097.6	2808.7	2731.3	2699.2	2900.8	3211.2	3363.5	4200.6	5239.5
40°	3878.8	3862.3	3657.3	3395.6	3277.9	3198.8	3272.9	3628.5	3803.0	4686.3	5719.4
42.5°	4533.2	4455.0	4089.5	4011.3	3905.9	3845.8	3779.2	4143.0	4343.0	5214.8	6195.2
45°	5127.5	4995.8	4521.7	4403.1	4379.3	4394.1	4431.1	4834.5	4950.5	5842.8	6669.3
47.5°	5481.5	5377.8	5013.9	4900.3	4893.7	4991.7	5271.6	5615.7	5555.6	6390.3	7086.7
50°	5818.2	5724.3	5422.2	5450.2	5480.7	5614.0	6225.6	6419.1	6107.9	6886.6	7469.4
52.5°	6090.6	5947.4	5789.3	5946.6	6096.4	6311.2	7210.1	7140.2	6499.7	7281.7	7797.0
55°	6247.8	6182.8	6259.4	6417.4	6698.9	7048.0	8139.5	7740.3	6786.2	7642.3	8015.2
57.5°	6824.1	6696.5	6848.8	6985.4	7352.5	7840.7	8935.5	8187.2	6992.8	7865.4	8065.4
60°	7521.3	7418.4	7508.1	7735.3	8230.9	8804.6	9679.6	8551.9	7100.6	8008.6	7935.3
62.5°	8630.9	8495.1	8439.1	8693.5	9350.4	9976.8	10244.3	8804.6	7076.8	7945.2	7489.2
65°	10117.6	9976.8	9726.6	9957.0	10792.6	11234.6	10875.7	8858.1	6912.1	7432.4	6361.4
67.5°	11640.4	11538.3	11324.3	11712.9	12466.9	12609.3	11543.3	8728.1	6382.0	6026.4	4494.5
70°	12646.3	12602.7	12741.8	13601.2	14273.7	14232.6	12155.7	8029.2	4974.4	3705.9	2223.4
72.5°	11921.1	12130.2	13157.5	14715.8	15537.3	15201.4	11841.3	6165.5	2843.2	1425.7	642.9
73°	11320.2	11587.7	12970.7	14757.8	15636.9	15268.9	11577.0	5659.3	2423.4	1125.3	487.3
75°	7875.3	8203.7	10738.2	13744.4	15171.0	14547.9	9650.0	3463.9	1122.8	498.8	196.7
77.5°	3823.6	4066.5	5912.8	9930.7	11798.5	11366.3	6007.5	1290.7	507.1	312.0	90.5
80°	1427.4	1587.1	2566.6	5054.3	6818.3	6996.9	2642.4	488.1	337.5	251.1	46.1
82.5°	373.7	416.5	946.6	2253.8	3494.3	3657.3	833.0	246.1	247.0	206.6	28.0
85°	119.4	136.6	295.5	1011.7	1646.3	1445.5	217.3	119.4	179.5	153.9	15.6
87.5°	14.8	18.9	93.8	237.9	363.0	201.7	33.7	35.4	76.6	85.6	9.1
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°	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3	2894.3
2.5°	2900.8	2896.7	2897.6	2876.1	2862.2	2834.2	2805.4	2792.2	2778.2	2772.4	2778.2
5°	2915.7	2908.3	2886.9	2821.0	2751.0	2660.5	2575.7	2511.5	2430.8	2408.6	2431.6
7.5°	2938.7	2923.9	2861.3	2727.2	2571.6	2398.7	2204.4	2062.9	1946.8	1871.9	1899.0
10°	2972.5	2944.5	2818.5	2590.5	2312.3	2006.1	1730.3	1515.5	1363.2	1300.6	1298.1
12.5°	3029.3	2976.6	2765.8	2412.7	1995.4	1587.1	1225.7	992.7	869.3	789.4	787.8
15°	3091.8	3014.4	2699.2	2199.5	1626.6	1136.8	789.4	612.4	532.6	507.1	503.8
17.5°	3168.4	3058.1	2612.7	1936.9	1240.5	753.2	515.3	464.3	461.0	458.5	458.5
20°	3264.7	3109.9	2501.6	1636.5	880.0	503.0	437.9	441.2	442.9	439.6	440.4
22.5°	3376.6	3162.6	2369.1	1313.8	595.2	420.6	419.0	423.1	424.8	423.1	423.9
25°	3506.7	3223.5	2207.7	975.5	429.7	399.2	403.4	409.1	413.2	413.2	413.2
27.5°	3668.0	3297.6	2013.5	680.8	371.2	377.0	388.5	399.2	405.0	406.6	406.6
30°	3877.9	3389.8	1780.5	466.7	337.5	347.4	368.8	389.4	400.1	401.7	402.5
32.5°	4143.0	3493.5	1510.5	344.9	308.7	316.1	339.1	373.7	394.3	397.6	397.6
35°	4446.8	3613.7	1219.9	300.5	288.1	290.6	308.7	348.2	384.4	393.5	394.3
37.5°	4779.3	3732.2	927.7	280.7	270.8	270.8	284.0	317.7	360.5	388.5	391.8
40°	5089.6	3803.9	650.3	265.1	255.2	255.2	266.7	291.4	331.7	373.7	382.8
42.5°	5376.1	3828.6	452.7	250.2	240.4	242.8	252.7	272.5	302.9	344.9	353.1
45°	5670.8	3824.4	330.1	233.0	225.5	233.0	240.4	255.2	277.4	301.3	302.9
47.5°	5893.1	3789.9	261.8	216.5	211.6	221.4	228.0	237.9	250.2	248.6	248.6
50°	6101.3	3705.9	210.7	194.3	197.6	209.1	212.4	215.7	216.5	200.9	199.2
52.5°	6259.4	3575.0	168.7	170.4	183.6	195.1	191.8	186.9	178.6	159.7	156.4
55°	6312.1	3323.1	132.5	140.8	163.0	177.8	165.5	154.8	139.1	123.5	120.2
57.5°	6216.6	2998.0	107.8	109.5	137.5	149.8	135.8	123.5	106.2	93.0	90.5
60°	6014.1	2636.6	88.9	82.3	106.2	116.9	107.8	95.5	79.8	70.0	69.1
62.5°	5612.4	2251.4	73.3	64.2	80.7	89.7	84.0	74.9	61.7	55.2	54.3
65°	4767.8	1801.1	59.3	51.9	62.6	70.0	65.0	58.4	48.6	43.6	42.8
67.5°	3328.1	1217.5	48.6	42.8	49.4	55.2	51.0	47.7	38.7	37.9	38.7
70°	1605.2	586.9	40.3	34.6	38.7	42.8	41.2	38.7	37.0	42.8	49.4
72.5°	460.2	196.7	32.1	28.8	31.3	33.7	35.4	34.6	40.3	51.9	60.1
73°	354.0	158.9	30.5	27.2	29.6	32.9	34.6	33.7	41.2	52.7	60.1
75°	151.5	76.6	23.0	22.2	24.7	28.8	30.5	30.5	41.2	53.5	57.6
77.5°	68.3	41.2	14.8	17.3	21.4	23.0	25.5	25.5	32.9	41.2	41.2
80°	38.7	22.2	11.5	13.2	15.6	15.6	15.6	14.0	14.8	16.5	18.1
82.5°	24.7	14.8	9.1	10.7	9.9	8.2	6.6	6.6	5.8	6.6	8.2
85°	14.0	8.2	8.2	6.6	4.1	3.3	4.1	3.3	0.8	0.0	0.8
87.5°	8.2	4.9	2.5	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)