

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: P321847

Luminaire Tested: **GAN-SA3C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12847 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

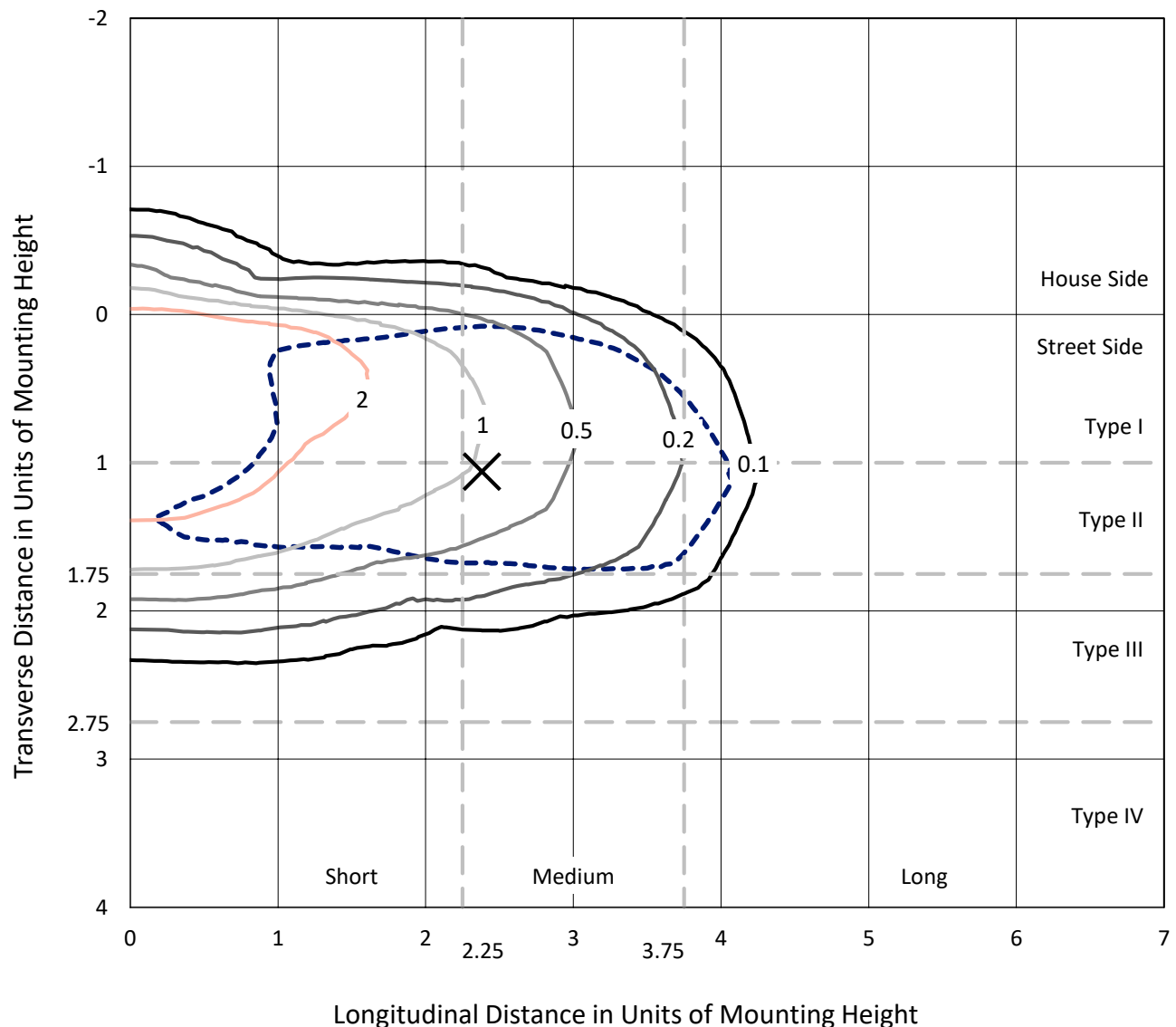


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Iso-Footcandle Lines of Horizontal Illumination

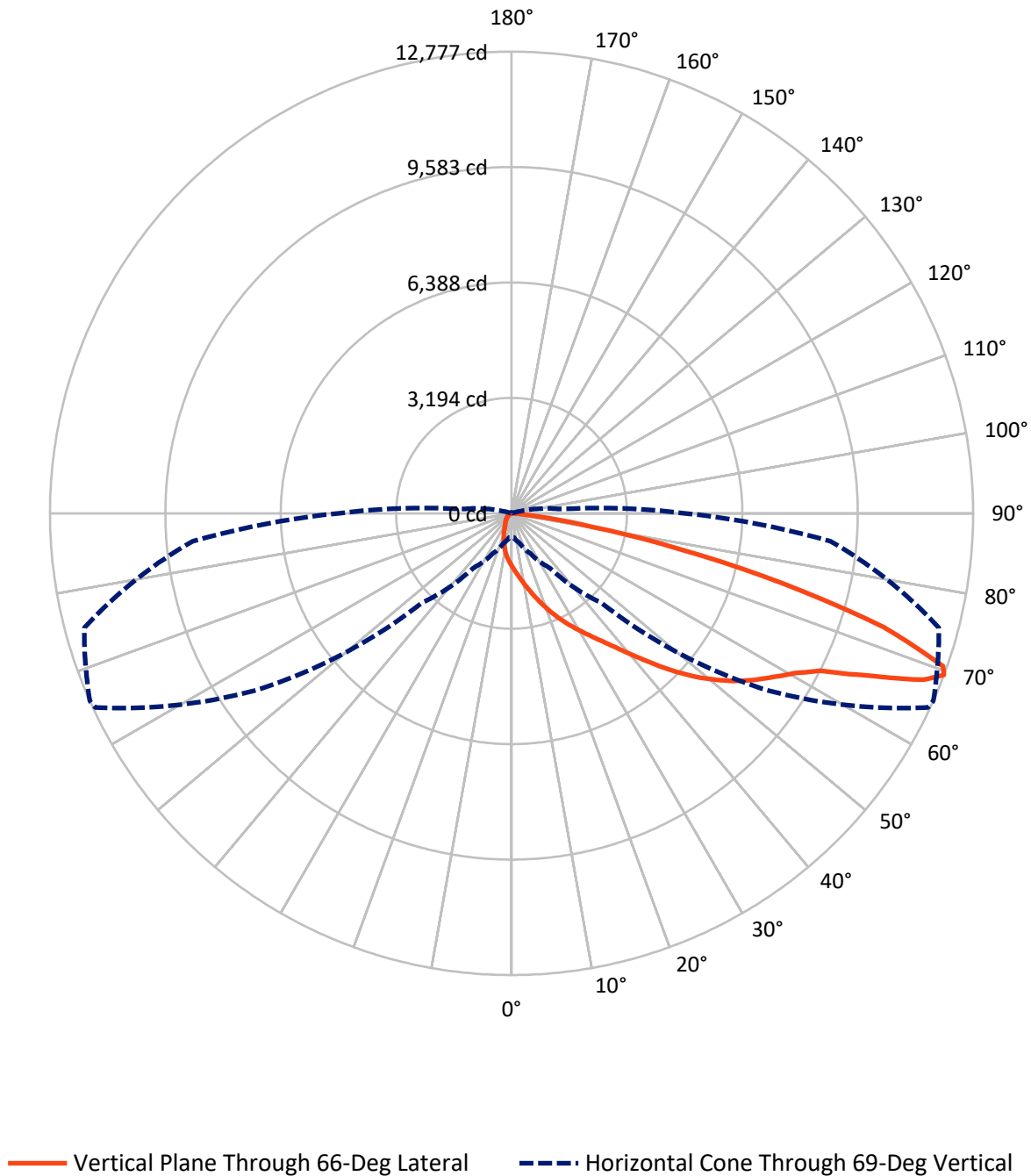
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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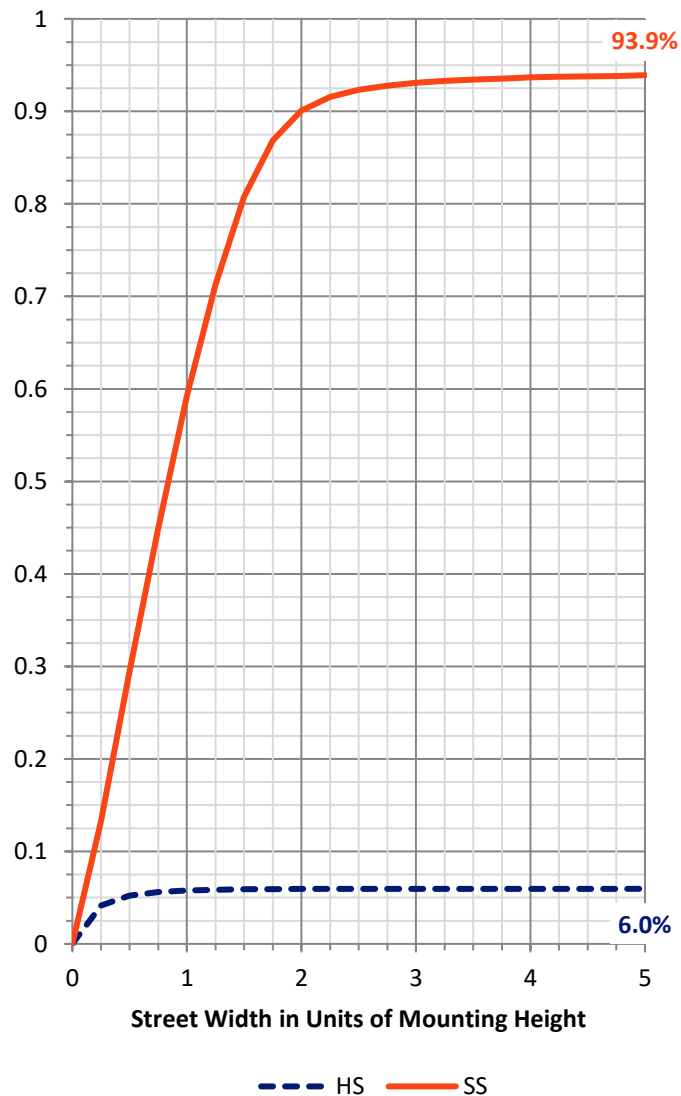
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.6	0.0	770.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	12076.4	0.0	12076.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	12847.0	0.0	12847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.1
10°-20°	420.6	3.3
20°-30°	732.4	5.7
30°-40°	1285.1	10.0
40°-50°	2151.0	16.7
50°-60°	3161.7	24.6
60°-70°	3246.3	25.3
70°-80°	1602.6	12.5
80°-90°	106.0	0.8
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°	12847.0	100.0
0°-180°	12847.0	100.0

Coefficient of Utilization



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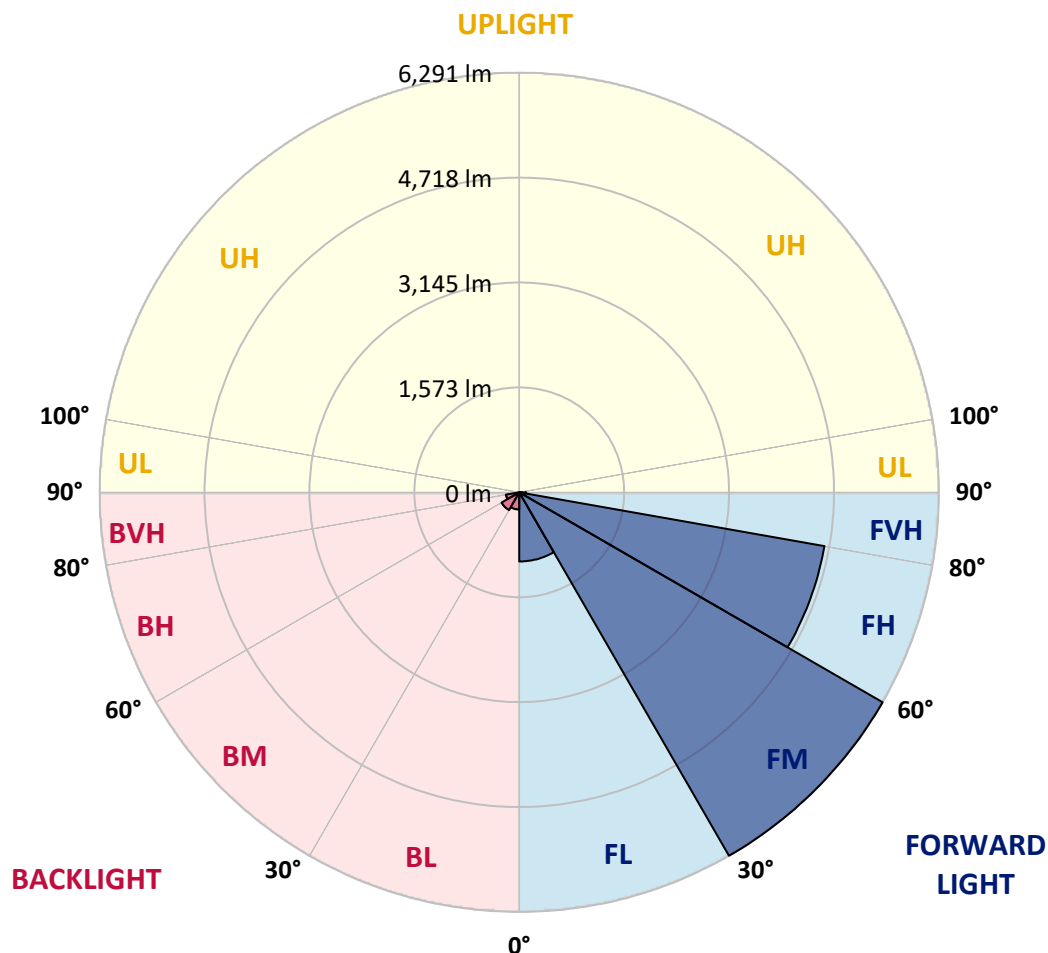
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1036.6	8.1			
FM	(30°-60°)	6290.5	49.0			
FH	(60°-80°)	4645.8	36.2			G2/5000
FVH	(80°-90°)	103.4	0.8			G2/225
BL	(0°-30°)	257.7	2.0	B1/500		
BM	(30°-60°)	307.3	2.4	B1/1000		
BH	(60°-80°)	203.1	1.6	B1/500		G1/500
BVH	(80°-90°)	2.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1720.8	1713.4	1710.4	1697.0	1673.8	1656.1	1621.9	1582.2	1574.9	1536.5	1489.5
5°	1944.1	1938.0	1933.7	1914.8	1891.0	1846.5	1784.2	1710.4	1696.3	1623.1	1529.2
7.5°	2099.7	2110.7	2110.7	2098.5	2068.6	2035.0	1958.7	1858.0	1840.4	1728.1	1582.2
10°	2190.6	2204.0	2214.4	2224.8	2220.5	2207.1	2135.1	2021.6	2000.2	1851.3	1643.9
12.5°	2199.1	2212.6	2241.9	2285.2	2327.3	2357.8	2312.6	2202.8	2178.4	1994.1	1717.1
15°	2151.6	2165.6	2210.7	2294.9	2396.9	2485.9	2500.6	2403.6	2378.5	2164.4	1808.6
17.5°	2068.6	2077.7	2142.4	2258.9	2418.8	2582.3	2670.8	2619.0	2595.8	2359.0	1910.5
20°	2006.9	2013.6	2070.4	2195.5	2405.4	2642.8	2831.9	2847.8	2823.4	2567.7	2021.0
22.5°	2112.5	2124.7	2126.5	2185.7	2368.8	2672.7	2973.5	3072.9	3054.6	2789.2	2129.6
25°	2401.1	2415.2	2368.8	2332.2	2399.9	2686.1	3094.9	3303.6	3289.0	3027.8	2238.8
27.5°	2782.5	2797.1	2737.3	2628.1	2562.8	2736.7	3202.9	3537.9	3537.3	3280.4	2356.6
30°	3157.2	3171.8	3110.8	3001.6	2851.4	2880.1	3296.3	3783.2	3786.9	3541.0	2481.7
32.5°	3550.1	3568.4	3505.6	3365.2	3208.4	3127.9	3427.5	4029.7	4050.5	3843.0	2622.6
35°	3996.8	3999.2	3910.7	3763.7	3583.1	3459.2	3638.0	4306.2	4355.6	4217.1	2801.4
37.5°	4434.9	4452.6	4380.0	4148.1	3982.1	3841.8	3951.0	4651.5	4721.7	4674.1	3035.1
40°	4759.5	4796.8	4786.4	4536.2	4378.8	4278.7	4339.7	5062.2	5151.3	5206.2	3329.8
42.5°	4963.3	4991.4	5039.0	4888.3	4745.5	4762.0	4798.6	5540.6	5650.4	5812.7	3668.5
45°	5197.0	5210.5	5250.1	5183.6	5087.2	5253.2	5285.5	6079.4	6194.7	6465.0	4044.4
47.5°	5482.6	5514.3	5525.3	5464.3	5420.4	5687.6	5754.8	6569.4	6731.1	7163.7	4442.2
50°	5846.3	5854.8	5873.7	5834.1	5790.2	6061.1	6175.8	7083.8	7230.8	7864.8	4834.6
52.5°	6202.0	6232.5	6298.4	6273.4	6255.7	6379.0	6551.1	7547.5	7711.7	8449.4	5226.3
55°	6304.5	6330.8	6558.4	6714.0	6858.0	6770.7	6909.9	7963.1	8140.6	8971.7	5603.4
57.5°	5895.1	5948.2	6342.4	6747.5	7344.9	7379.7	7402.9	8389.6	8548.8	9372.0	5995.8
60°	4860.2	4870.6	5517.4	6212.4	7264.4	7911.2	8122.9	8847.8	8981.5	9744.8	6465.6
62.5°	3091.3	3196.8	3906.5	4887.7	6412.6	7834.3	8993.7	9541.0	9589.8	10192.1	7139.3
65°	1472.4	1540.7	2052.1	3019.9	4644.8	6850.1	9594.7	10795.0	10816.9	11078.7	8039.3
67.5°	815.2	848.2	1091.6	1625.6	2715.4	4844.3	9351.9	12280.2	12300.9	11984.3	8828.9
69°	637.7	665.7	857.3	1225.3	1841.0	3481.8	8462.8	12715.3	12776.9	12243.6	8857.0
70°	541.2	568.7	738.3	1034.9	1480.3	2690.4	7532.9	12607.3	12672.6	12219.2	8647.7
72.5°	331.3	347.2	491.8	728.6	992.2	1353.4	4645.4	10662.0	10772.4	11208.7	7432.2
75°	223.3	231.9	307.5	502.8	709.7	696.8	2413.3	7515.2	7754.4	8719.1	5489.3
77.5°	159.9	167.8	206.2	325.2	497.3	460.1	1092.9	4670.4	4721.7	5229.4	2993.6
80°	90.9	98.2	145.8	193.4	337.4	306.9	434.5	2230.9	2256.5	2242.5	999.5
82.5°	47.6	53.7	79.9	127.5	216.6	200.8	180.6	746.9	750.5	624.2	219.1
85°	9.2	11.0	39.7	87.3	111.7	87.3	73.8	175.1	178.8	158.0	54.3
87.5°	0.0	0.6	15.9	19.5	22.0	22.6	23.8	34.2	36.6	49.4	14.6
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°	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0	1462.0
2.5°	1468.7	1446.8	1404.7	1355.9	1318.0	1280.8	1251.5	1221.0	1210.0	1204.5	1203.9
5°	1483.4	1437.0	1347.9	1256.4	1181.3	1110.6	1059.9	1011.7	989.1	978.8	974.5
7.5°	1507.8	1433.4	1290.0	1150.2	1042.2	953.7	883.6	831.1	804.8	793.9	789.6
10°	1536.5	1428.5	1222.2	1037.9	900.0	808.5	738.9	687.1	658.4	646.2	640.1
12.5°	1570.0	1419.9	1144.1	924.4	778.6	687.1	602.9	538.8	505.9	491.8	485.1
15°	1611.5	1411.4	1062.4	817.7	671.8	560.2	468.0	424.7	418.0	415.5	416.2
17.5°	1652.4	1398.0	973.3	712.1	559.5	437.5	390.5	388.1	389.3	389.3	389.3
20°	1689.0	1367.4	876.2	621.8	452.8	369.2	359.4	355.1	352.1	349.6	346.6
22.5°	1717.7	1326.6	782.9	532.1	369.8	338.0	322.8	309.4	298.4	291.1	287.4
25°	1737.2	1272.3	697.5	446.1	332.6	307.5	280.1	257.5	240.4	230.0	225.8
27.5°	1751.9	1213.7	621.2	373.4	306.9	272.1	236.1	209.3	191.6	182.4	178.8
30°	1762.2	1147.2	554.1	328.3	278.2	234.9	196.5	170.2	157.4	152.5	150.1
32.5°	1772.0	1073.3	490.6	306.9	251.4	200.8	164.8	144.6	136.7	130.6	128.8
35°	1796.4	1005.0	430.2	284.4	223.9	171.5	141.6	126.9	119.0	115.3	114.1
37.5°	1854.4	954.3	372.2	261.2	196.5	148.3	123.9	113.5	106.2	102.5	101.3
40°	1947.7	928.7	323.4	236.1	169.6	130.6	112.3	102.5	94.6	89.1	87.9
42.5°	2085.0	932.4	289.2	211.1	148.3	116.5	101.3	89.7	81.2	76.3	75.1
45°	2251.6	959.2	265.4	186.7	130.6	105.6	89.1	76.9	69.0	64.7	63.5
47.5°	2432.2	1002.6	245.9	164.8	116.5	95.2	76.9	64.1	57.4	53.7	53.1
50°	2622.6	1044.7	225.8	143.4	104.3	84.8	64.7	53.1	47.6	44.5	43.3
52.5°	2815.4	1093.5	207.5	123.9	94.0	72.6	53.7	43.3	39.1	36.6	35.4
55°	3022.9	1130.1	189.8	108.6	83.6	61.6	44.5	36.0	32.3	29.3	28.7
57.5°	3267.0	1186.8	171.5	94.0	71.4	51.3	36.6	28.7	25.6	22.6	22.0
60°	3596.5	1253.3	151.9	83.0	58.6	42.1	29.9	23.2	19.5	17.1	16.5
62.5°	4031.0	1327.2	127.5	72.6	47.6	34.2	23.8	18.3	14.0	11.0	11.0
65°	4582.0	1447.4	104.3	61.0	39.1	28.1	18.3	13.4	7.9	4.9	4.9
67.5°	4903.5	1468.1	84.2	50.0	31.7	23.8	15.3	9.2	2.4	0.6	0.0
69°	4800.4	1347.9	71.4	42.7	27.5	22.6	14.0	6.7	1.2	0.0	0.0
70°	4606.4	1232.6	62.9	37.8	25.0	21.4	13.4	4.9	1.2	0.0	0.0
72.5°	3806.4	877.5	47.6	28.1	18.3	18.9	12.2	3.1	1.2	0.0	0.0
75°	2772.7	533.3	34.2	19.5	11.6	14.0	8.5	1.2	0.6	0.0	0.0
77.5°	1542.6	251.4	21.4	11.0	7.3	8.5	4.3	0.0	0.0	0.0	0.0
80°	501.0	68.3	9.8	6.1	4.3	4.9	1.8	0.0	0.0	0.0	0.0
82.5°	92.7	19.5	5.5	3.1	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	20.1	7.9	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.4	0.6	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)