

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: P321829

Luminaire Tested: **GAN-SA5A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321829
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-SA5A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 13857 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

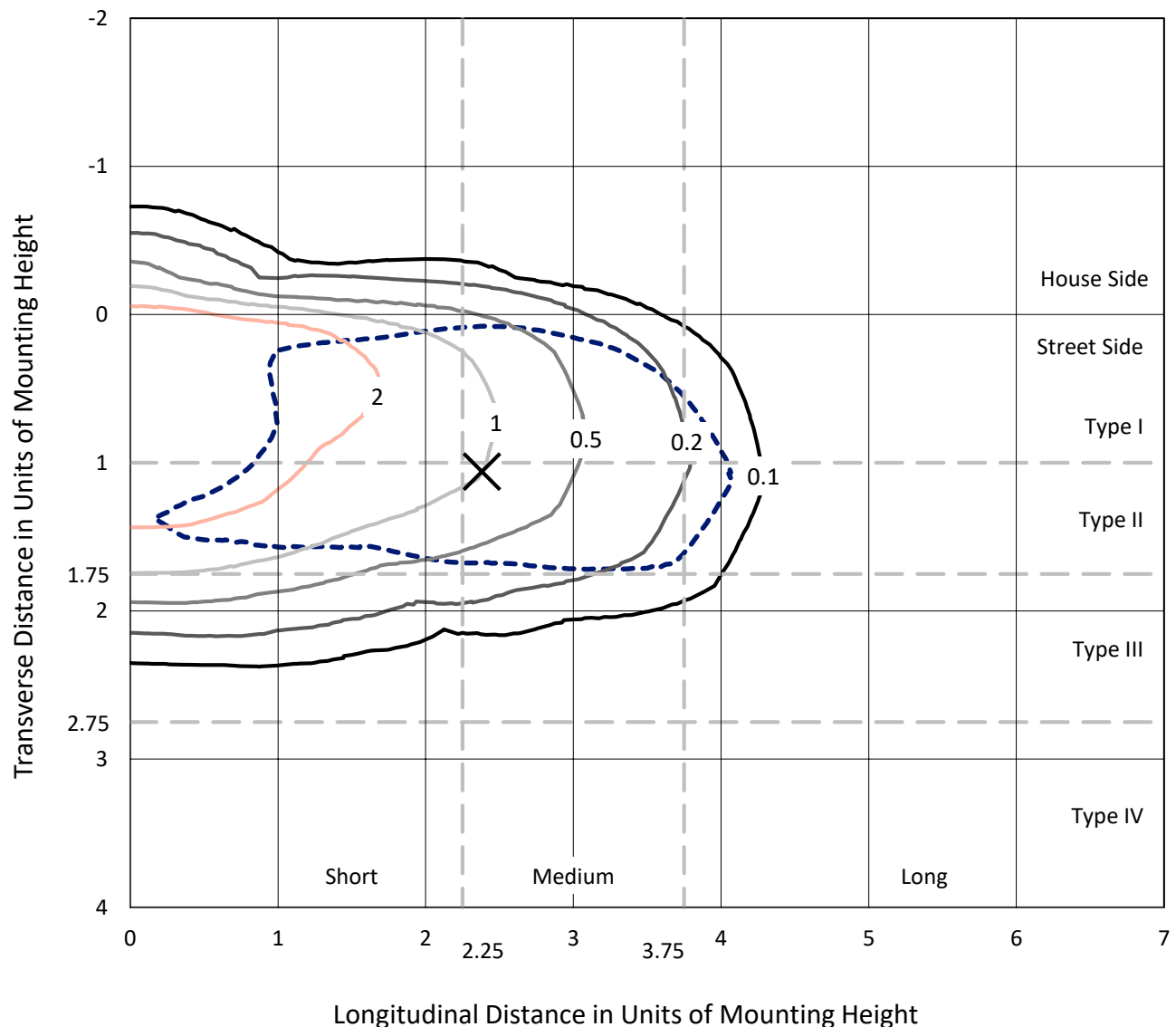


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Iso-Footcandle Lines of Horizontal Illumination

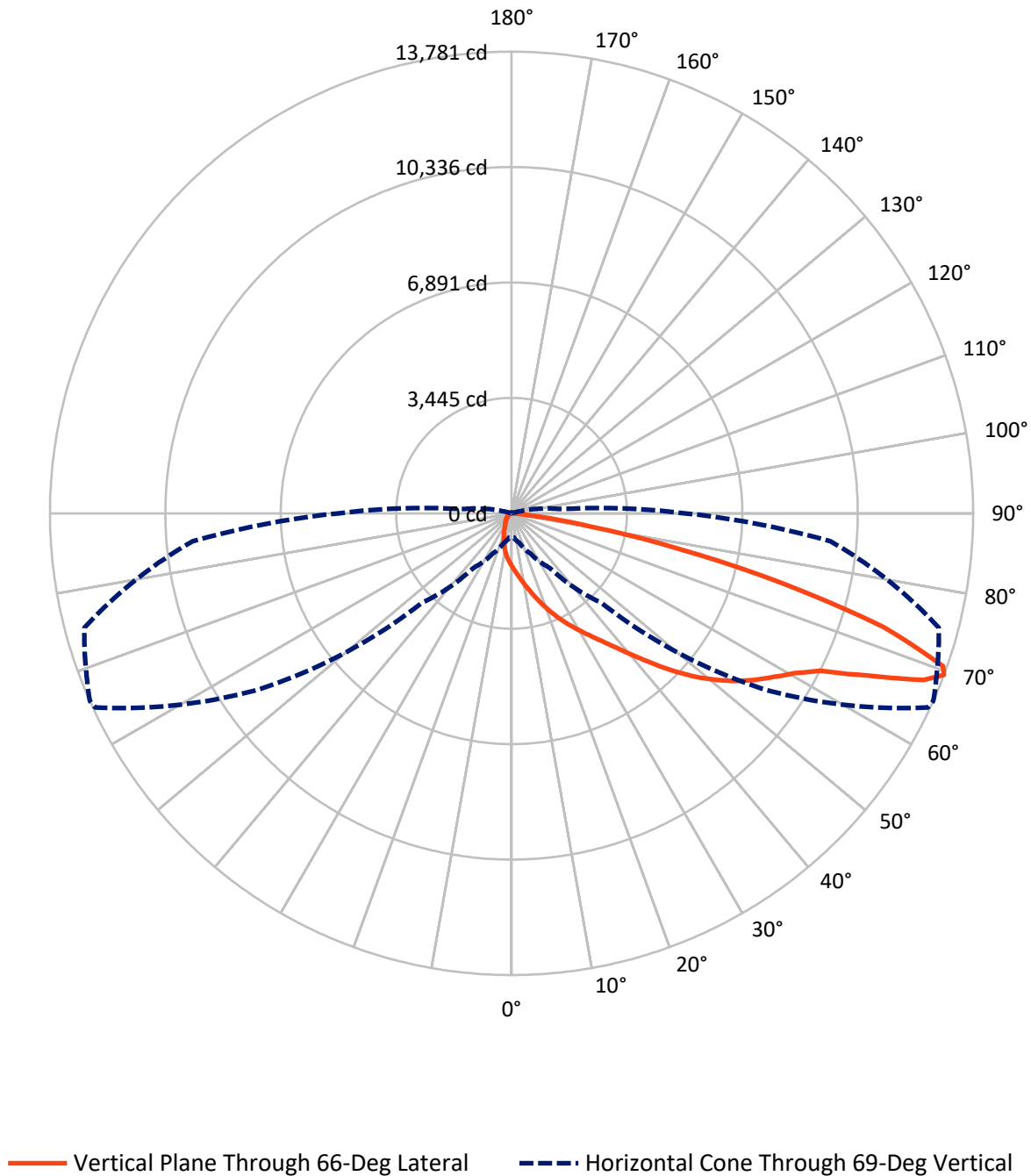
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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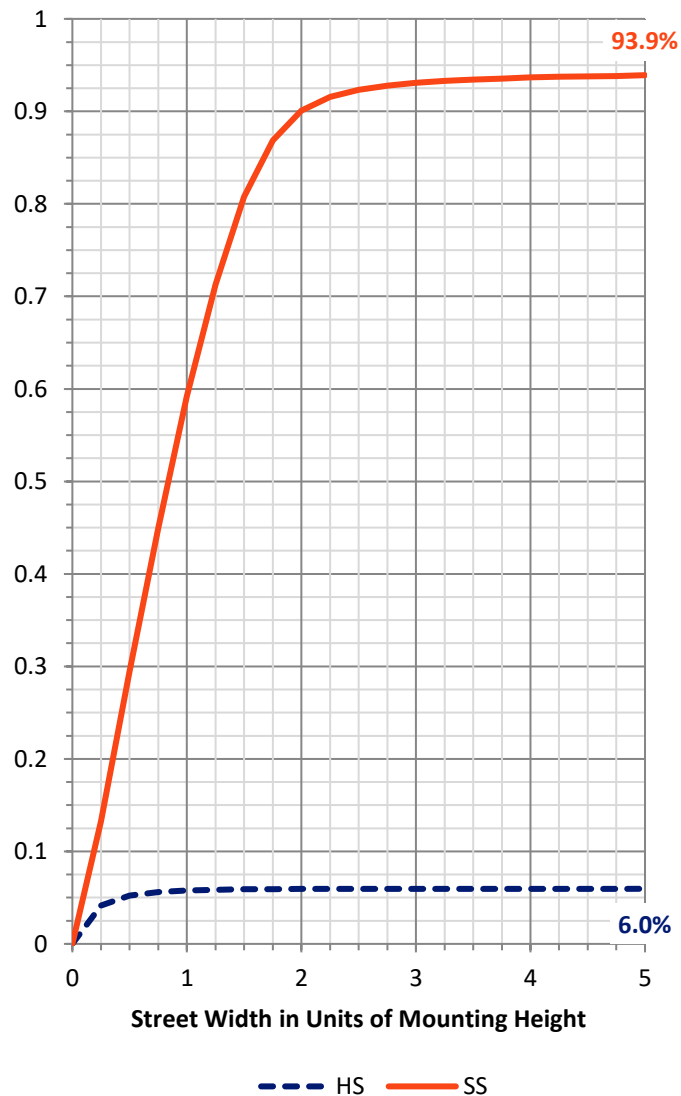
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	831.2	0.0	831.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	13025.8	0.0	13025.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	13857.0	0.0	13857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	1.1
10°-20°	453.7	3.3
20°-30°	790.0	5.7
30°-40°	1386.1	10.0
40°-50°	2320.1	16.7
50°-60°	3410.3	24.6
60°-70°	3501.5	25.3
70°-80°	1728.6	12.5
80°-90°	114.3	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°	13857.0	100.0
0°-180°	13857.0	100.0

Coefficient of Utilization



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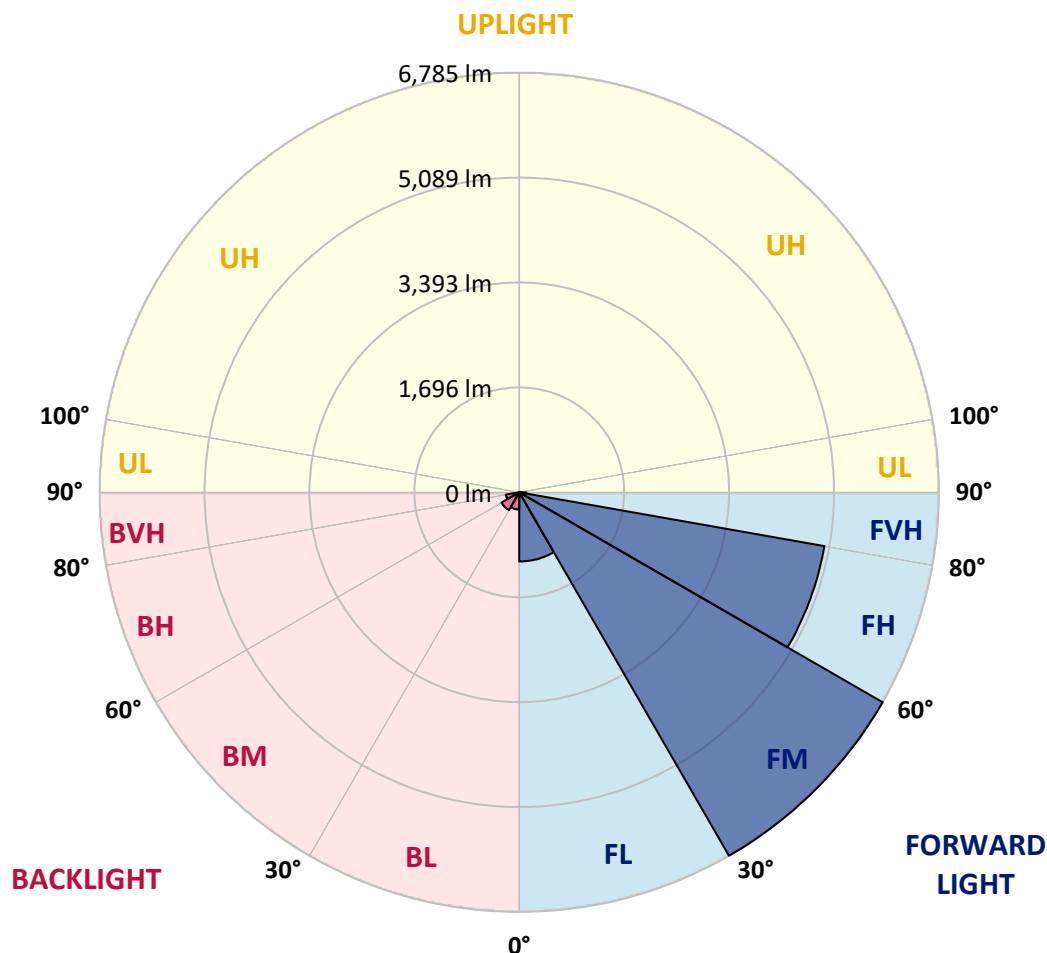
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1118.1	8.1			
FM	(30°-60°)	6785.0	49.0			
FH	(60°-80°)	5011.1	36.2			G3/7500
FVH	(80°-90°)	111.5	0.8			G2/225
BL	(0°-30°)	278.0	2.0	B1/500		
BM	(30°-60°)	331.4	2.4	B1/1000		
BH	(60°-80°)	219.1	1.6	B1/500		G1/500
BVH	(80°-90°)	2.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0
2.5°	1856.0	1848.1	1844.8	1830.4	1805.4	1786.3	1749.4	1706.6	1698.7	1657.3	1606.6
5°	2096.9	2090.3	2085.7	2065.3	2039.7	1991.6	1924.5	1844.8	1829.7	1750.7	1649.4
7.5°	2264.8	2276.6	2276.6	2263.4	2231.2	2195.0	2112.7	2004.1	1985.0	1863.9	1706.6
10°	2362.8	2377.3	2388.5	2399.7	2395.1	2380.6	2302.9	2180.5	2157.5	1996.9	1773.1
12.5°	2372.0	2386.5	2418.1	2464.8	2510.3	2543.2	2494.5	2376.0	2349.7	2150.9	1852.1
15°	2320.7	2335.8	2384.5	2475.4	2585.3	2681.4	2697.2	2592.5	2565.5	2334.5	1950.8
17.5°	2231.2	2241.1	2310.8	2436.5	2609.0	2785.4	2880.8	2824.9	2799.8	2544.5	2060.7
20°	2164.7	2172.0	2233.2	2368.1	2594.5	2850.5	3054.6	3071.7	3045.3	2769.6	2179.9
22.5°	2278.6	2291.7	2293.7	2357.6	2555.0	2882.8	3207.3	3314.5	3294.8	3008.5	2297.0
25°	2589.9	2605.0	2555.0	2515.5	2588.6	2897.3	3338.2	3563.3	3547.5	3265.8	2414.8
27.5°	3001.2	3017.0	2952.5	2834.7	2764.3	2951.9	3454.7	3816.1	3815.4	3538.3	2541.8
30°	3405.4	3421.2	3355.3	3237.5	3075.6	3106.6	3555.4	4080.6	4084.6	3819.4	2676.8
32.5°	3829.2	3849.0	3781.2	3629.8	3460.6	3373.8	3696.9	4346.5	4368.9	4145.1	2828.8
35°	4311.0	4313.6	4218.2	4059.6	3864.8	3731.2	3924.0	4644.7	4698.0	4548.6	3021.7
37.5°	4783.6	4802.7	4724.3	4474.2	4295.2	4143.8	4261.6	5017.2	5092.9	5041.6	3273.7
40°	5133.7	5173.9	5162.7	4892.8	4723.0	4615.1	4680.9	5460.2	5556.3	5615.5	3591.6
42.5°	5353.5	5383.8	5435.2	5272.6	5118.6	5136.3	5175.8	5976.2	6094.6	6269.7	3956.9
45°	5605.6	5620.1	5662.9	5591.1	5487.1	5666.2	5701.1	6557.3	6681.7	6973.3	4362.3
47.5°	5913.6	5947.9	5959.7	5893.9	5846.5	6134.8	6207.2	7085.8	7260.3	7726.9	4791.5
50°	6305.9	6315.1	6335.5	6292.7	6245.4	6537.6	6661.3	7640.7	7799.3	8483.1	5214.7
52.5°	6689.6	6722.5	6793.6	6766.6	6747.5	6880.5	7066.1	8140.9	8317.9	9113.7	5637.2
55°	6800.2	6828.5	7074.0	7241.8	7397.2	7303.0	7453.1	8589.1	8780.6	9677.0	6044.0
57.5°	6358.6	6415.8	6841.0	7278.0	7922.4	7959.9	7984.9	9049.2	9220.9	10108.8	6467.2
60°	5242.3	5253.5	5951.2	6700.8	7835.5	8533.2	8761.5	9543.4	9687.6	10510.9	6974.0
62.5°	3334.3	3448.1	4213.6	5271.9	6916.7	8450.2	9700.7	10291.1	10343.8	10993.4	7700.6
65°	1588.2	1661.9	2213.4	3257.3	5010.0	7388.6	10349.0	11643.7	11667.3	11949.7	8671.4
67.5°	879.3	914.9	1177.5	1753.4	2928.8	5225.2	10087.1	13245.6	13268.0	12926.4	9523.0
69°	687.8	718.1	924.7	1321.6	1985.7	3755.5	9128.1	13714.9	13781.4	13206.1	9553.3
70°	583.8	613.4	796.4	1116.3	1596.7	2901.9	8125.1	13598.4	13668.8	13179.8	9327.6
72.5°	357.4	374.5	530.5	785.9	1070.2	1459.8	5010.6	11500.2	11619.3	12089.9	8016.5
75°	240.9	250.1	331.7	542.3	765.4	751.6	2603.1	8106.0	8364.0	9404.6	5920.9
77.5°	172.4	181.0	222.5	350.8	536.4	496.3	1178.8	5037.6	5092.9	5640.5	3229.0
80°	98.1	106.0	157.3	208.6	364.0	331.1	468.6	2406.3	2433.9	2418.8	1078.1
82.5°	51.3	57.9	86.2	137.6	233.6	216.5	194.8	805.6	809.5	673.3	236.3
85°	9.9	11.8	42.8	94.1	120.4	94.1	79.6	188.9	192.8	170.5	58.6
87.5°	0.0	0.7	17.1	21.1	23.7	24.4	25.7	36.9	39.5	53.3	15.8
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°	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0	1577.0
2.5°	1584.2	1560.5	1515.1	1462.4	1421.6	1381.5	1349.9	1317.0	1305.1	1299.2	1298.6
5°	1600.0	1550.0	1453.9	1355.2	1274.2	1197.9	1143.2	1091.2	1066.9	1055.7	1051.1
7.5°	1626.3	1546.0	1391.4	1240.6	1124.2	1028.7	953.0	896.4	868.1	856.3	851.7
10°	1657.3	1540.8	1318.3	1119.5	970.8	872.1	797.0	741.1	710.2	697.0	690.4
12.5°	1693.5	1531.6	1234.1	997.1	839.8	741.1	650.3	581.2	545.6	530.5	523.2
15°	1738.2	1522.3	1145.9	881.9	724.6	604.2	504.8	458.1	450.8	448.2	448.9
17.5°	1782.3	1507.9	1049.8	768.1	603.5	471.9	421.2	418.6	419.9	419.9	419.9
20°	1821.8	1475.0	945.1	670.7	488.4	398.2	387.7	383.1	379.8	377.1	373.8
22.5°	1852.7	1430.9	844.4	573.9	398.8	364.6	348.2	333.7	321.8	313.9	310.0
25°	1873.8	1372.3	752.3	481.1	358.7	331.7	302.1	277.7	259.3	248.1	243.5
27.5°	1889.6	1309.1	670.0	402.8	331.1	293.5	254.7	225.8	206.7	196.8	192.8
30°	1900.8	1237.4	597.6	354.1	300.1	253.4	211.9	183.6	169.8	164.5	161.9
32.5°	1911.3	1157.7	529.2	331.1	271.2	216.5	177.7	156.0	147.4	140.8	138.9
35°	1937.6	1084.0	464.0	306.7	241.5	184.9	152.7	136.9	128.3	124.4	123.1
37.5°	2000.2	1029.4	401.5	281.7	211.9	159.9	133.6	122.4	114.5	110.6	109.3
40°	2100.9	1001.7	348.8	254.7	183.0	140.8	121.1	110.6	102.0	96.1	94.8
42.5°	2249.0	1005.7	312.0	227.7	159.9	125.7	109.3	96.8	87.5	82.3	81.0
45°	2428.6	1034.6	286.3	201.4	140.8	113.9	96.1	82.9	74.4	69.8	68.4
47.5°	2623.5	1081.4	265.2	177.7	125.7	102.7	82.9	69.1	61.9	57.9	57.3
50°	2828.8	1126.8	243.5	154.7	112.5	91.5	69.8	57.3	51.3	48.0	46.7
52.5°	3036.8	1179.4	223.8	133.6	101.4	78.3	57.9	46.7	42.1	39.5	38.2
55°	3260.6	1218.9	204.7	117.2	90.2	66.5	48.0	38.8	34.9	31.6	30.9
57.5°	3523.8	1280.1	184.9	101.4	77.0	55.3	39.5	30.9	27.6	24.4	23.7
60°	3879.2	1351.9	163.9	89.5	63.2	45.4	32.3	25.0	21.1	18.4	17.8
62.5°	4347.9	1431.5	137.6	78.3	51.3	36.9	25.7	19.7	15.1	11.8	11.8
65°	4942.2	1561.2	112.5	65.8	42.1	30.3	19.7	14.5	8.6	5.3	5.3
67.5°	5289.0	1583.6	90.8	54.0	34.2	25.7	16.5	9.9	2.6	0.7	0.0
69°	5177.8	1453.9	77.0	46.1	29.6	24.4	15.1	7.2	1.3	0.0	0.0
70°	4968.5	1329.5	67.8	40.8	27.0	23.0	14.5	5.3	1.3	0.0	0.0
72.5°	4105.7	946.4	51.3	30.3	19.7	20.4	13.2	3.3	1.3	0.0	0.0
75°	2990.7	575.2	36.9	21.1	12.5	15.1	9.2	1.3	0.7	0.0	0.0
77.5°	1663.8	271.2	23.0	11.8	7.9	9.2	4.6	0.0	0.0	0.0	0.0
80°	540.4	73.7	10.5	6.6	4.6	5.3	2.0	0.0	0.0	0.0	0.0
82.5°	100.0	21.1	5.9	3.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	21.7	8.6	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.6	0.7	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)