

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: P321993

Luminaire Tested: **GAN-SA9A-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321993
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-SA9A-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 29637 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 290
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

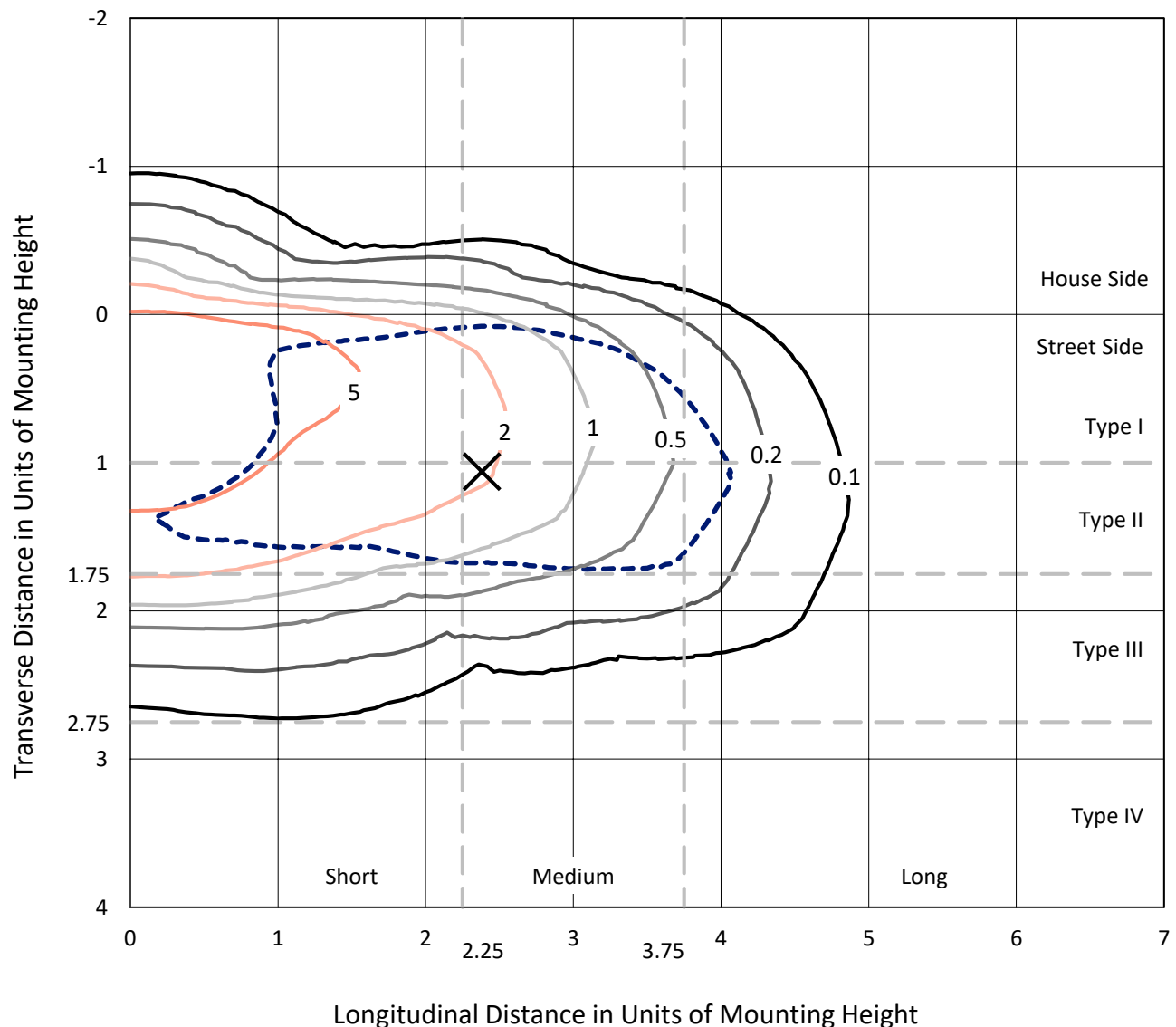


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Iso-Footcandle Lines of Horizontal Illumination

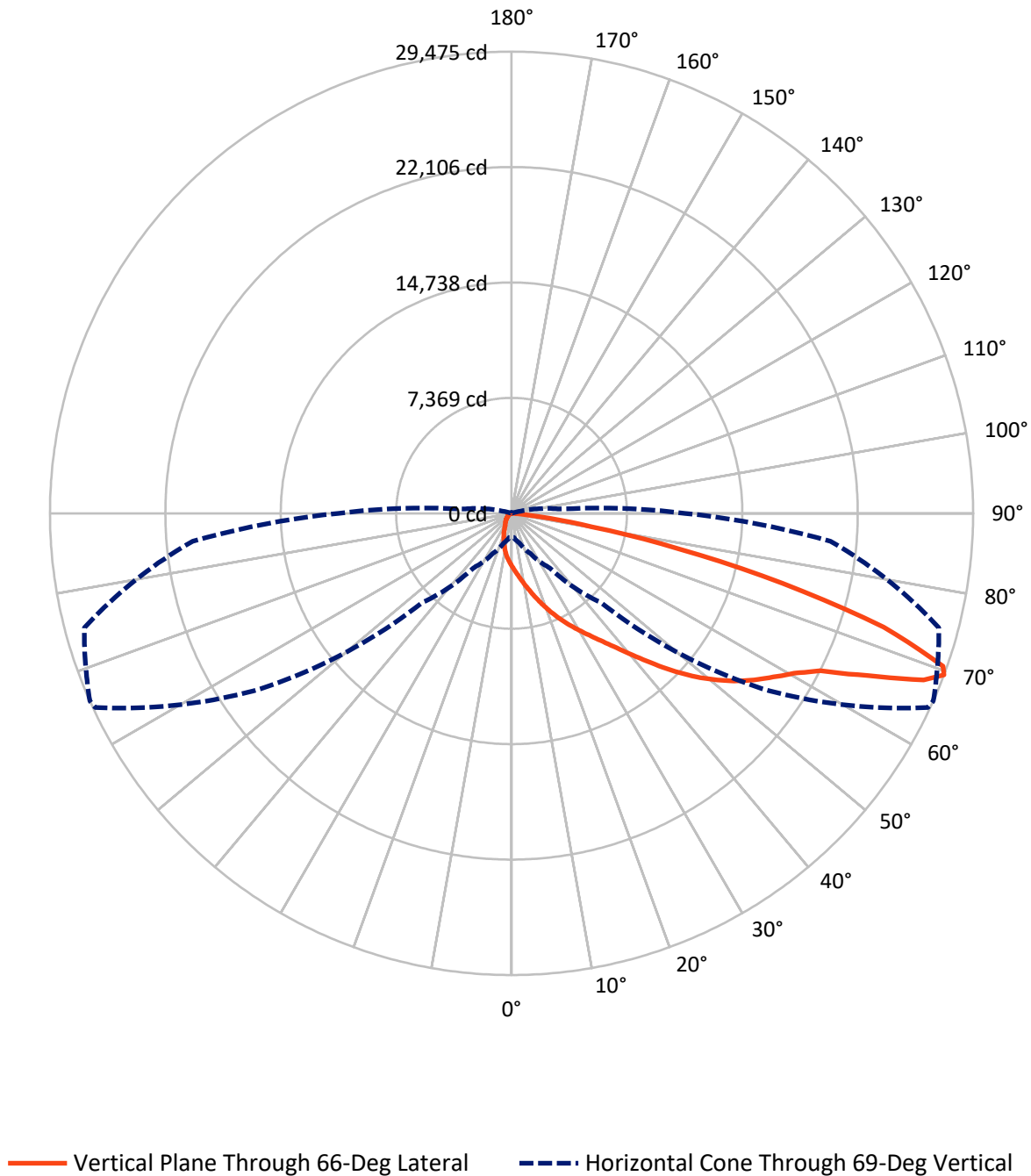
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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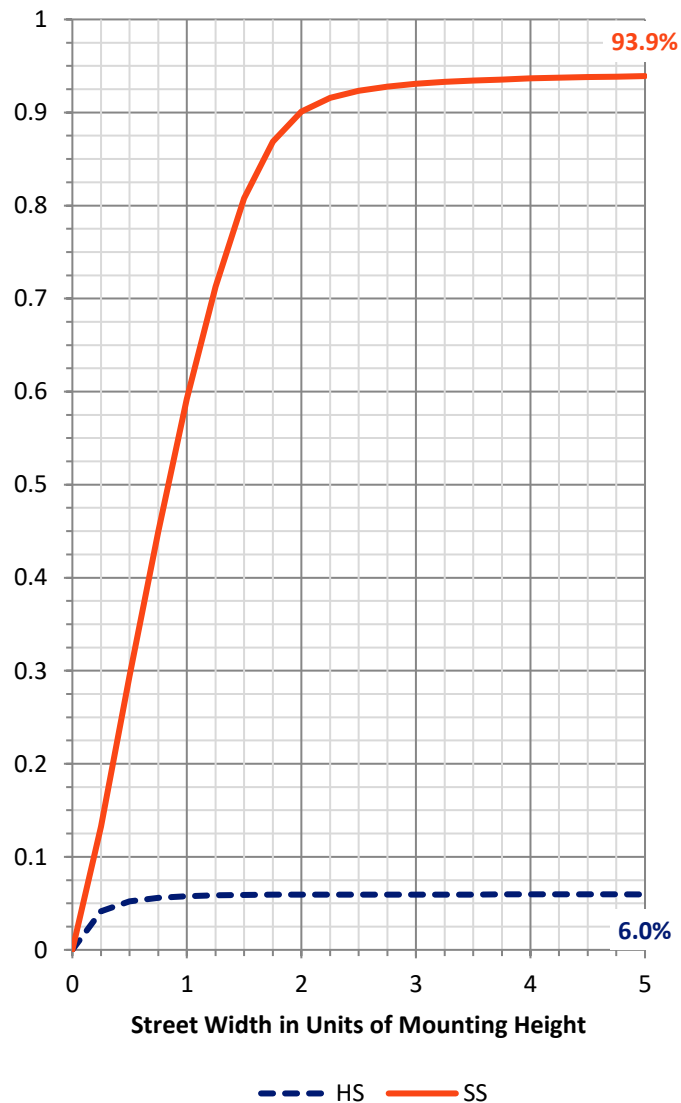
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1777.8	0.0	1777.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	27859.2	0.0	27859.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	29637.0	0.0	29637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	1.1
10°-20°	970.3	3.3
20°-30°	1689.7	5.7
30°-40°	2964.5	10.0
40°-50°	4962.1	16.7
50°-60°	7293.9	24.6
60°-70°	7489.0	25.3
70°-80°	3697.1	12.5
80°-90°	244.5	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°	29637.0	100.0
0°-180°	29637.0	100.0

Coefficient of Utilization



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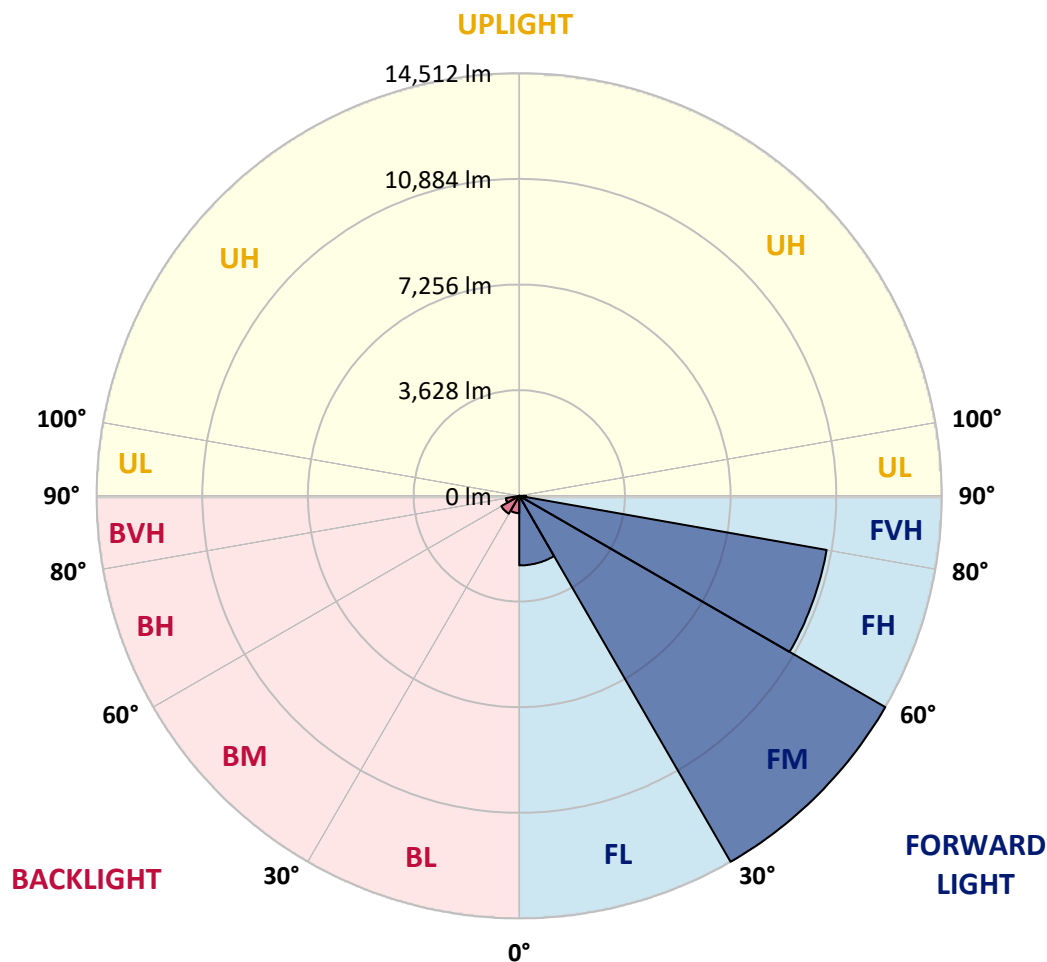
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2391.4	8.1			
FM	(30°-60°)	14511.7	49.0			
FH	(60°-80°)	10717.5	36.2			G4/12000
FVH	(80°-90°)	238.5	0.8			G3/500
BL	(0°-30°)	594.6	2.0	B2/1000		
BM	(30°-60°)	708.8	2.4	B1/1000		
BH	(60°-80°)	468.5	1.6	B1/500		G1/500
BVH	(80°-90°)	5.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8
2.5°	3969.6	3952.7	3945.7	3914.7	3861.2	3820.4	3741.6	3650.1	3633.2	3544.5	3436.1
5°	4484.8	4470.8	4460.9	4417.3	4362.4	4259.6	4116.0	3945.7	3913.3	3744.4	3527.6
7.5°	4843.8	4869.1	4869.1	4841.0	4772.0	4694.6	4518.6	4286.4	4245.5	3986.5	3650.1
10°	5053.5	5084.5	5108.4	5132.4	5122.5	5091.6	4925.4	4663.6	4614.4	4270.9	3792.3
12.5°	5073.3	5104.2	5171.8	5271.7	5368.9	5439.3	5335.1	5081.7	5025.4	4600.3	3961.2
15°	4963.5	4995.8	5100.0	5294.3	5529.3	5734.9	5768.6	5544.8	5487.1	4993.0	4172.3
17.5°	4772.0	4793.1	4942.3	5211.2	5580.0	5957.3	6161.4	6041.7	5988.2	5442.1	4407.4
20°	4629.8	4645.3	4776.2	5064.8	5549.0	6096.6	6533.0	6569.6	6513.3	5923.5	4662.2
22.5°	4873.4	4901.5	4905.7	5042.3	5464.6	6165.6	6859.6	7089.0	7046.8	6434.5	4912.8
25°	5539.2	5571.6	5464.6	5380.1	5536.4	6196.6	7139.7	7621.1	7587.4	6984.9	5164.8
27.5°	6419.0	6452.8	6314.8	6062.8	5912.2	6313.4	7388.9	8161.7	8160.3	7567.7	5436.4
30°	7283.3	7317.1	7176.3	6924.3	6578.1	6644.2	7604.3	8727.6	8736.0	8168.7	5725.0
32.5°	8189.8	8232.1	8087.1	7763.3	7401.5	7215.7	7906.9	9296.3	9344.1	8865.5	6050.2
35°	9220.3	9225.9	9021.8	8682.5	8265.9	7980.1	8392.5	9934.0	10048.0	9728.4	6462.6
37.5°	10231.0	10271.8	10104.3	9569.4	9186.5	8862.7	9114.7	10730.7	10892.6	10782.8	7001.8
40°	10979.9	11065.7	11041.8	10464.6	10101.5	9870.6	10011.4	11678.1	11883.6	12010.3	7681.7
42.5°	11450.0	11514.8	11624.6	11276.9	10947.5	10985.5	11069.9	12781.7	13035.1	13409.5	8462.9
45°	11989.2	12020.1	12111.6	11958.2	11735.8	12118.7	12193.3	14024.7	14290.7	14914.3	9330.1
47.5°	12647.9	12721.1	12746.5	12605.7	12504.4	13120.9	13275.8	15155.0	15528.0	16526.1	10247.9
50°	13486.9	13506.6	13550.3	13458.8	13357.4	13982.4	14247.1	16341.7	16680.9	18143.5	11153.0
52.5°	14307.6	14378.0	14530.0	14472.3	14431.5	14715.8	15112.8	17411.5	17790.2	19492.1	12056.7
55°	14544.1	14604.6	15129.7	15488.6	15820.8	15619.5	15940.5	18370.1	18779.8	20697.0	12926.7
57.5°	13599.5	13722.0	14631.4	15566.1	16944.2	17024.4	17077.9	19354.1	19721.5	21620.5	13831.8
60°	11212.1	11236.1	12728.2	14331.5	16758.4	18250.5	18738.9	20411.3	20719.5	22480.5	14915.7
62.5°	7131.3	7374.8	9011.9	11275.5	14793.2	18073.1	20747.7	22010.4	22123.0	23512.4	16469.8
65°	3396.7	3554.4	4734.0	6966.6	10715.2	15802.5	22134.3	24903.2	24953.8	25557.7	18546.1
67.5°	1880.7	1956.7	2518.3	3750.0	6264.1	11175.5	21574.0	28329.4	28377.3	27646.7	20367.6
69°	1471.0	1535.8	1977.8	2826.6	4247.0	8032.2	19523.0	29333.1	29475.3	28245.0	20432.4
70°	1248.6	1312.0	1703.3	2387.4	3415.0	6206.4	17377.7	29083.9	29234.6	28188.7	19949.5
72.5°	764.4	801.0	1134.6	1680.8	2288.9	3122.2	10716.6	24596.3	24851.1	25857.6	17145.5
75°	515.2	534.9	709.5	1159.9	1637.1	1607.6	5567.3	17336.9	17888.7	20114.2	12663.4
77.5°	368.8	387.1	475.8	750.3	1147.3	1061.4	2521.1	10774.3	10892.6	12063.8	6906.0
80°	209.7	226.6	336.4	446.2	778.4	708.1	1002.3	5146.5	5205.6	5173.2	2305.8
82.5°	109.8	123.9	184.4	294.2	499.7	463.1	416.7	1723.0	1731.4	1440.1	505.4
85°	21.1	25.3	91.5	201.3	257.6	201.3	170.3	404.0	412.4	364.6	125.3
87.5°	0.0	1.4	36.6	45.0	50.7	52.1	54.9	78.8	84.5	114.0	33.8
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°	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8	3372.8
2.5°	3388.3	3337.6	3240.5	3127.9	3040.6	2954.7	2887.1	2816.8	2791.4	2778.7	2777.3
5°	3422.1	3315.1	3109.6	2898.4	2725.3	2562.0	2445.1	2333.9	2281.8	2257.9	2248.1
7.5°	3478.4	3306.6	2975.8	2653.5	2404.3	2200.2	2038.3	1917.3	1856.7	1831.4	1821.5
10°	3544.5	3295.4	2819.6	2394.5	2076.3	1865.2	1704.7	1585.0	1518.9	1490.7	1476.6
12.5°	3621.9	3275.7	2639.4	2132.6	1796.2	1585.0	1390.8	1243.0	1167.0	1134.6	1119.1
15°	3717.7	3255.9	2450.8	1886.3	1549.8	1292.2	1079.7	979.7	964.3	958.6	960.0
17.5°	3812.0	3225.0	2245.2	1642.8	1290.8	1009.3	900.9	895.3	898.1	898.1	898.1
20°	3896.4	3154.6	2021.4	1434.4	1044.5	851.6	829.1	819.3	812.2	806.6	799.6
22.5°	3962.6	3060.3	1806.0	1227.5	853.1	779.9	744.7	713.7	688.4	671.5	663.0
25°	4007.6	2935.0	1609.0	1029.0	767.2	709.5	646.1	594.0	554.6	530.7	520.8
27.5°	4041.4	2799.9	1433.0	861.5	708.1	627.8	544.8	482.8	442.0	420.9	412.4
30°	4065.4	2646.4	1278.2	757.3	641.9	542.0	453.3	392.7	363.2	351.9	346.3
32.5°	4087.9	2476.1	1131.8	708.1	580.0	463.1	380.1	333.6	315.3	301.2	297.0
35°	4144.2	2318.4	992.4	656.0	516.6	395.6	326.6	292.8	274.5	266.1	263.2
37.5°	4277.9	2201.6	858.7	602.5	453.3	342.1	285.8	261.8	244.9	236.5	233.7
40°	4493.3	2142.5	746.1	544.8	391.3	301.2	259.0	236.5	218.2	205.5	202.7
42.5°	4810.0	2150.9	667.2	487.1	342.1	268.9	233.7	206.9	187.2	176.0	173.1
45°	5194.3	2212.9	612.3	430.7	301.2	243.5	205.5	177.4	159.1	149.2	146.4
47.5°	5611.0	2312.8	567.3	380.1	268.9	219.6	177.4	147.8	132.3	123.9	122.5
50°	6050.2	2409.9	520.8	330.8	240.7	195.7	149.2	122.5	109.8	102.8	99.9
52.5°	6495.0	2522.6	478.6	285.8	216.8	167.5	123.9	99.9	90.1	84.5	81.6
55°	6973.6	2607.0	437.8	250.6	192.9	142.2	102.8	83.1	74.6	67.6	66.2
57.5°	7536.7	2737.9	395.6	216.8	164.7	118.2	84.5	66.2	59.1	52.1	50.7
60°	8296.8	2891.4	350.5	191.4	135.1	97.1	69.0	53.5	45.0	39.4	38.0
62.5°	9299.1	3061.7	294.2	167.5	109.8	78.8	54.9	42.2	32.4	25.3	25.3
65°	10570.2	3339.0	240.7	140.8	90.1	64.8	42.2	31.0	18.3	11.3	11.3
67.5°	11312.1	3386.9	194.3	115.4	73.2	54.9	35.2	21.1	5.6	1.4	0.0
69°	11074.2	3109.6	164.7	98.5	63.3	52.1	32.4	15.5	2.8	0.0	0.0
70°	10626.5	2843.5	145.0	87.3	57.7	49.3	31.0	11.3	2.8	0.0	0.0
72.5°	8781.1	2024.2	109.8	64.8	42.2	43.6	28.2	7.0	2.8	0.0	0.0
75°	6396.5	1230.3	78.8	45.0	26.7	32.4	19.7	2.8	1.4	0.0	0.0
77.5°	3558.6	580.0	49.3	25.3	16.9	19.7	9.9	0.0	0.0	0.0	0.0
80°	1155.7	157.7	22.5	14.1	9.9	11.3	4.2	0.0	0.0	0.0	0.0
82.5°	214.0	45.0	12.7	7.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0
85°	46.5	18.3	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.5	5.6	1.4	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)