

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: P322024

Luminaire Tested: **GAN-SA0D-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322024
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-SA0D-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA 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: 54634 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

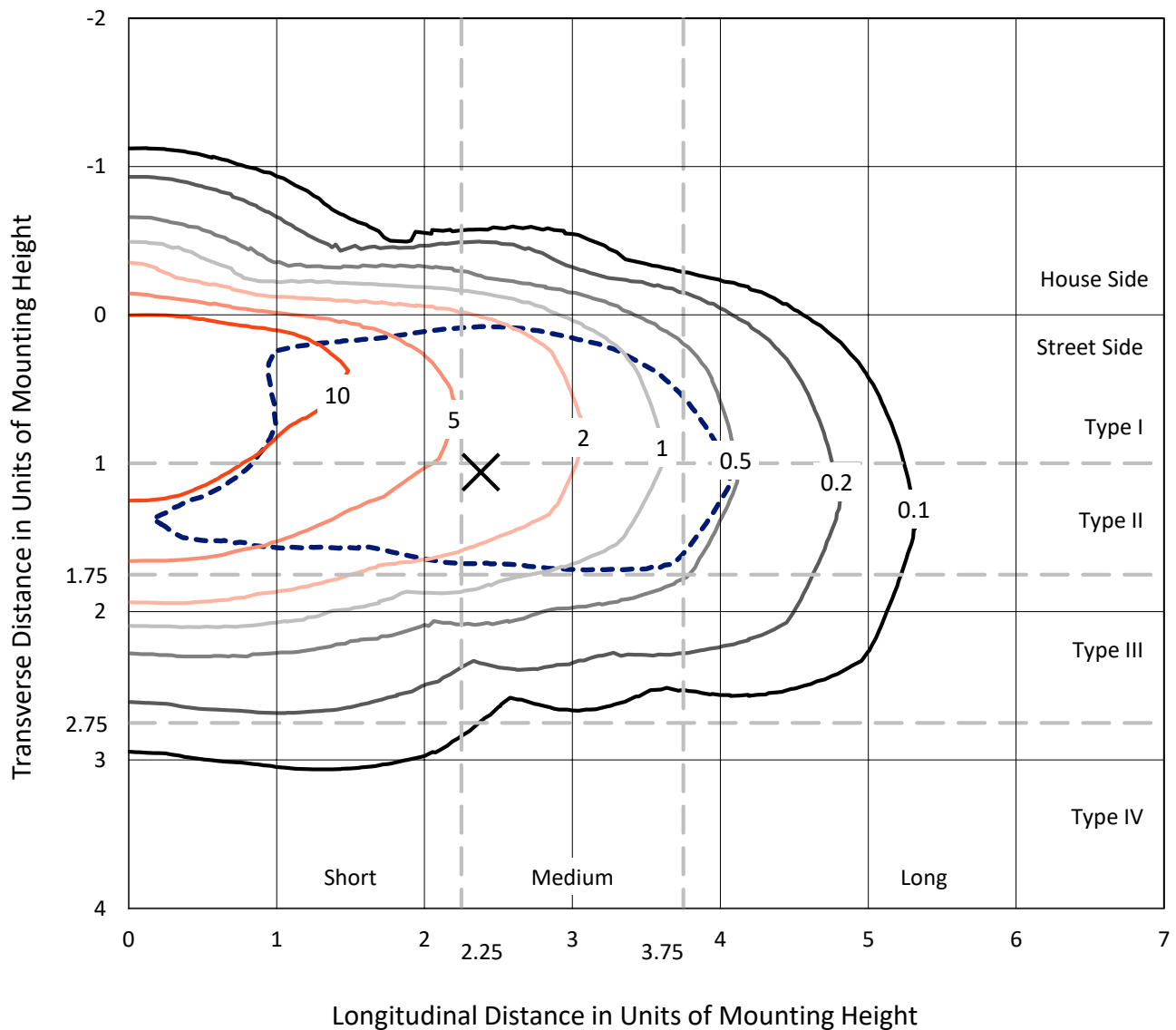


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Iso-Footcandle Lines of Horizontal Illumination

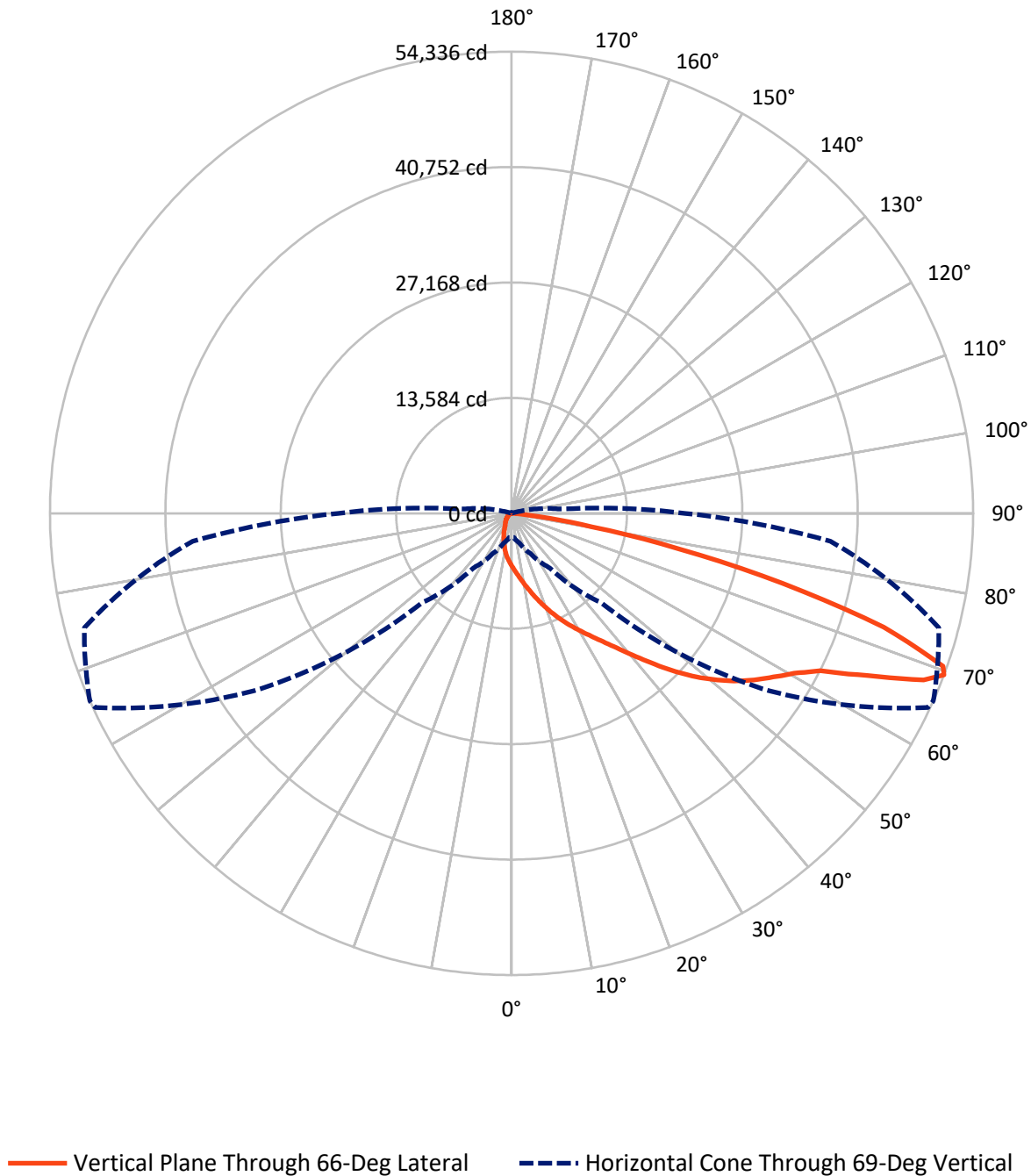
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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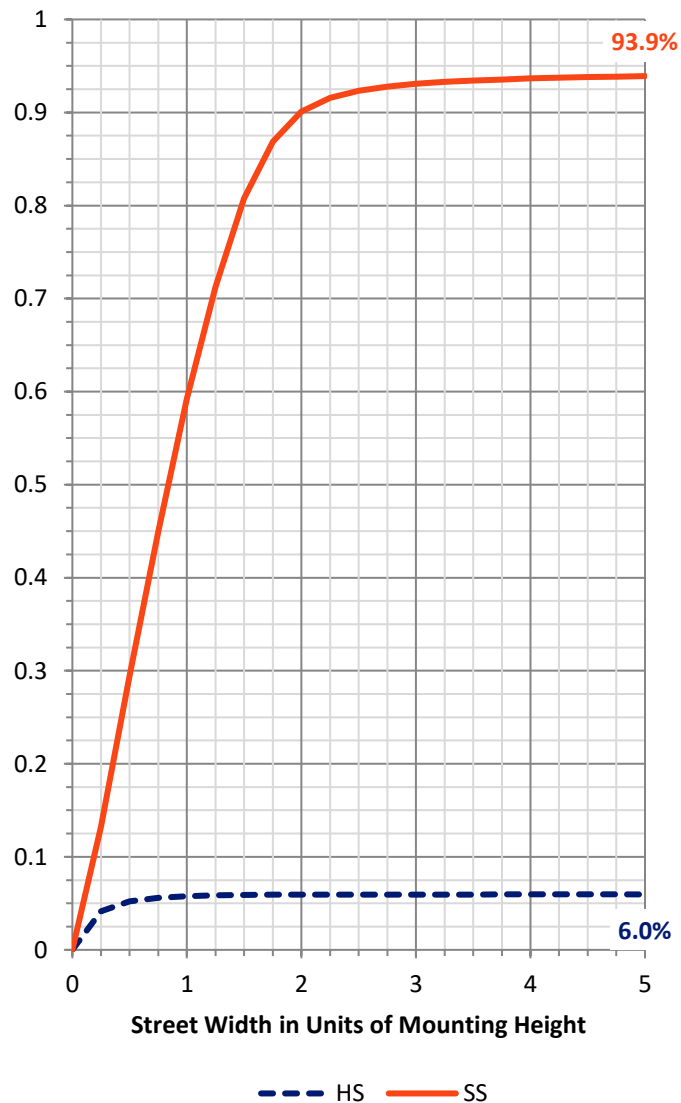
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3277.3	0.0	3277.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	51356.7	0.0	51356.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	54634.0	0.0	54634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.0	1.1
10°-20°	1788.7	3.3
20°-30°	3114.8	5.7
30°-40°	5464.9	10.0
40°-50°	9147.4	16.7
50°-60°	13445.8	24.6
60°-70°	13805.4	25.3
70°-80°	6815.4	12.5
80°-90°	450.6	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°	54634.0	100.0
0°-180°	54634.0	100.0

Coefficient of Utilization



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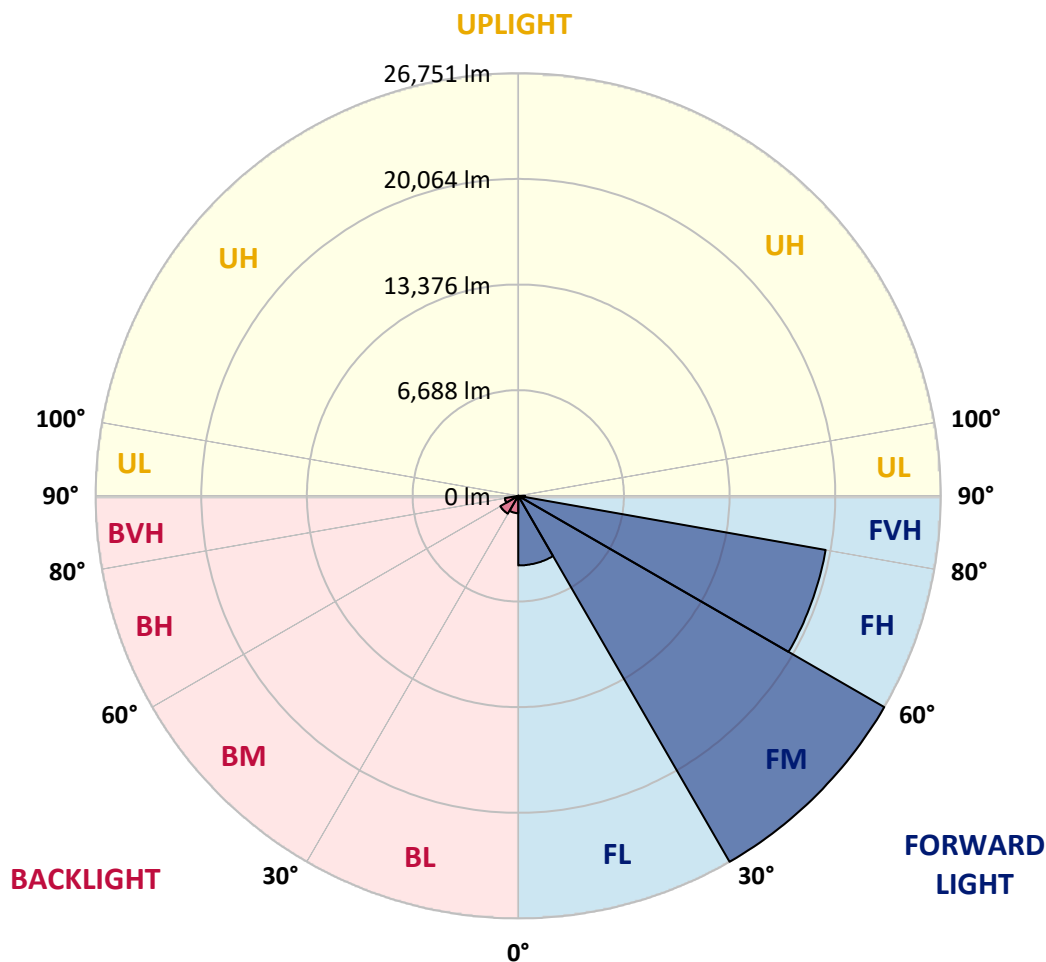
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4408.4	8.1			
FM	(30°-60°)	26751.4	49.0			
FH	(60°-80°)	19757.1	36.2			G5
FVH	(80°-90°)	439.7	0.8			G3/500
BL	(0°-30°)	1096.1	2.0	B3/2500		
BM	(30°-60°)	1306.7	2.4	B2/2500		
BH	(60°-80°)	863.7	1.6	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5
2.5°	7317.8	7286.6	7273.7	7216.6	7118.0	7042.7	6897.4	6728.7	6697.6	6534.1	6334.3
5°	8267.5	8241.6	8223.4	8143.0	8041.8	7852.3	7587.7	7273.7	7214.0	6902.6	6503.0
7.5°	8929.3	8976.0	8976.0	8924.1	8796.9	8654.2	8329.8	7901.7	7826.4	7348.9	6728.7
10°	9315.9	9373.0	9417.1	9461.2	9443.1	9386.0	9079.8	8597.1	8506.3	7873.1	6990.8
12.5°	9352.2	9409.3	9533.9	9718.1	9897.2	10026.9	9834.9	9367.8	9264.0	8480.3	7302.2
15°	9149.8	9209.5	9401.5	9759.6	10193.0	10571.9	10634.1	10221.5	10115.2	9204.3	7691.5
17.5°	8796.9	8835.8	9110.9	9606.5	10286.4	10981.9	11358.1	11137.6	11039.0	10032.1	8124.8
20°	8534.8	8563.4	8804.7	9336.7	10229.3	11238.8	12043.2	12110.7	12006.9	10919.6	8594.5
22.5°	8983.8	9035.7	9043.4	9295.1	10073.6	11365.9	12645.2	13068.2	12990.4	11861.6	9056.4
25°	10211.2	10270.9	10073.6	9917.9	10206.0	11423.0	13161.6	14049.1	13986.8	12876.2	9520.9
27.5°	11833.0	11895.3	11641.0	11176.5	10898.8	11638.4	13620.9	15045.6	15043.0	13950.5	10021.7
30°	13426.3	13488.6	13229.1	12764.6	12126.2	12248.2	14018.0	16088.8	16104.3	15058.6	10553.7
32.5°	15097.5	15175.3	14908.0	14311.2	13644.3	13301.8	14575.9	17137.1	17225.3	16343.1	11153.1
35°	16997.0	17007.4	16631.1	16005.7	15237.6	14710.8	15471.2	18312.6	18522.8	17933.8	11913.5
37.5°	18860.2	18935.4	18626.6	17640.5	16934.7	16337.9	16802.4	19781.4	20079.8	19877.4	12907.3
40°	20240.7	20399.0	20354.9	19290.9	18621.4	18195.9	18455.4	21527.8	21906.7	22140.2	14160.7
42.5°	21107.4	21226.8	21429.2	20788.2	20181.0	20251.1	20406.8	23562.2	24029.3	24719.6	15600.9
45°	22101.3	22158.4	22327.0	22044.2	21634.2	22340.0	22477.5	25853.6	26344.0	27493.6	17199.4
47.5°	23315.7	23450.7	23497.4	23237.9	23051.0	24187.6	24473.1	27937.3	28625.0	30464.8	18891.3
50°	24862.3	24898.6	24979.1	24810.4	24623.6	25775.7	26263.6	30124.9	30750.3	33446.4	20559.9
52.5°	26375.2	26504.9	26785.2	26678.8	26603.5	27127.7	27859.5	32097.1	32795.1	35932.4	22225.8
55°	26811.1	26922.7	27890.6	28552.3	29164.8	28793.7	29385.3	33864.2	34619.4	38153.7	23829.5
57.5°	25069.9	25295.7	26972.0	28695.1	31235.5	31383.4	31482.1	35678.1	36355.4	39856.0	25498.1
60°	20668.9	20713.0	23463.6	26419.3	30893.0	33643.7	34544.1	37626.9	38195.2	41441.5	27496.2
62.5°	13146.1	13595.0	16612.9	20785.6	27270.4	33316.7	38247.1	40574.8	40782.4	43343.6	30361.0
65°	6261.6	6552.3	8726.9	12842.5	19752.8	29131.0	40803.2	45907.4	46000.9	47114.1	34188.6
67.5°	3466.9	3607.0	4642.4	6913.0	11547.6	20601.4	39770.4	52223.6	52311.8	50965.0	37546.5
69°	2711.7	2831.1	3645.9	5210.7	7829.0	14806.8	35989.5	54073.8	54335.9	52067.9	37665.8
70°	2301.7	2418.5	3139.9	4401.1	6295.4	11441.2	32034.8	53614.5	53892.1	51964.1	36775.8
72.5°	1409.1	1476.5	2091.5	3098.4	4219.4	5755.6	19755.4	45341.7	45811.4	47666.8	31606.6
75°	949.8	986.1	1307.9	2138.2	3017.9	2963.4	10263.1	31959.5	32976.8	37079.4	23344.3
77.5°	679.9	713.6	877.1	1383.1	2114.9	1956.6	4647.6	19861.8	20079.8	22238.8	12730.9
80°	386.6	417.8	620.2	822.6	1435.0	1305.3	1847.6	9487.2	9596.2	9536.5	4250.5
82.5°	202.4	228.4	339.9	542.3	921.2	853.7	768.1	3176.2	3191.8	2654.6	931.6
85°	38.9	46.7	168.7	371.1	474.9	371.1	314.0	744.8	760.3	672.1	231.0
87.5°	0.0	2.6	67.5	83.0	93.4	96.0	101.2	145.3	155.7	210.2	62.3
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°	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5	6217.5
2.5°	6246.1	6152.7	5973.6	5766.0	5605.1	5446.8	5322.3	5192.5	5145.8	5122.5	5119.9
5°	6308.3	6111.1	5732.3	5343.0	5023.8	4722.8	4507.4	4302.4	4206.4	4162.3	4144.2
7.5°	6412.1	6095.6	5485.7	4891.5	4432.2	4055.9	3757.5	3534.3	3422.8	3376.0	3357.9
10°	6534.1	6074.8	5197.7	4414.0	3827.6	3438.3	3142.5	2921.9	2800.0	2748.1	2722.1
12.5°	6676.8	6038.5	4865.6	3931.4	3311.2	2921.9	2563.8	2291.3	2151.2	2091.5	2063.0
15°	6853.3	6002.1	4517.8	3477.2	2857.1	2382.2	1990.3	1806.1	1777.5	1767.2	1769.8
17.5°	7027.2	5945.1	4139.0	3028.3	2379.6	1860.6	1660.8	1650.4	1655.6	1655.6	1655.6
20°	7182.8	5815.3	3726.4	2644.3	1925.5	1570.0	1528.4	1510.3	1497.3	1486.9	1473.9
22.5°	7304.8	5641.4	3329.3	2262.8	1572.5	1437.6	1372.7	1315.6	1268.9	1237.8	1222.2
25°	7387.9	5410.5	2966.0	1896.9	1414.3	1307.9	1191.1	1095.1	1022.4	978.3	960.1
27.5°	7450.1	5161.4	2641.7	1588.1	1305.3	1157.4	1004.2	890.1	814.8	775.9	760.3
30°	7494.2	4878.5	2356.2	1396.1	1183.3	999.1	835.6	724.0	669.5	648.7	638.4
32.5°	7535.8	4564.5	2086.3	1305.3	1069.1	853.7	700.6	615.0	581.3	555.3	547.5
35°	7639.6	4273.9	1829.4	1209.3	952.4	729.2	602.0	539.8	506.0	490.4	485.3
37.5°	7886.1	4058.5	1582.9	1110.6	835.6	630.6	526.8	482.7	451.5	436.0	430.8
40°	8283.1	3949.5	1375.3	1004.2	721.4	555.3	477.5	436.0	402.2	378.9	373.7
42.5°	8867.0	3965.1	1230.0	897.9	630.6	495.6	430.8	381.5	345.1	324.4	319.2
45°	9575.4	4079.3	1128.8	794.1	555.3	448.9	378.9	327.0	293.2	275.1	269.9
47.5°	10343.5	4263.5	1045.8	700.6	495.6	404.8	327.0	272.5	243.9	228.4	225.8
50°	11153.1	4442.6	960.1	609.8	443.7	360.7	275.1	225.8	202.4	189.4	184.2
52.5°	11973.1	4650.2	882.3	526.8	399.6	308.8	228.4	184.2	166.1	155.7	150.5
55°	12855.4	4805.9	807.0	461.9	355.5	262.1	189.4	153.1	137.5	124.6	122.0
57.5°	13893.4	5047.2	729.2	399.6	303.6	218.0	155.7	122.0	109.0	96.0	93.4
60°	15294.7	5330.0	646.1	352.9	249.1	179.1	127.2	98.6	83.0	72.7	70.1
62.5°	17142.3	5644.0	542.3	308.8	202.4	145.3	101.2	77.8	59.7	46.7	46.7
65°	19485.6	6155.2	443.7	259.5	166.1	119.4	77.8	57.1	33.7	20.8	20.8
67.5°	20853.1	6243.5	358.1	212.8	134.9	101.2	64.9	38.9	10.4	2.6	0.0
69°	20414.6	5732.3	303.6	181.6	116.8	96.0	59.7	28.5	5.2	0.0	0.0
70°	19589.4	5241.8	267.3	160.9	106.4	90.8	57.1	20.8	5.2	0.0	0.0
72.5°	16187.4	3731.6	202.4	119.4	77.8	80.4	51.9	13.0	5.2	0.0	0.0
75°	11791.5	2268.0	145.3	83.0	49.3	59.7	36.3	5.2	2.6	0.0	0.0
77.5°	6560.1	1069.1	90.8	46.7	31.1	36.3	18.2	0.0	0.0	0.0	0.0
80°	2130.5	290.6	41.5	25.9	18.2	20.8	7.8	0.0	0.0	0.0	0.0
82.5°	394.4	83.0	23.4	13.0	5.2	5.2	0.0	0.0	0.0	0.0	0.0
85°	85.6	33.7	13.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.5	10.4	2.6	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)