

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: P323013

Luminaire Tested: **GAN-SA9C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33691 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

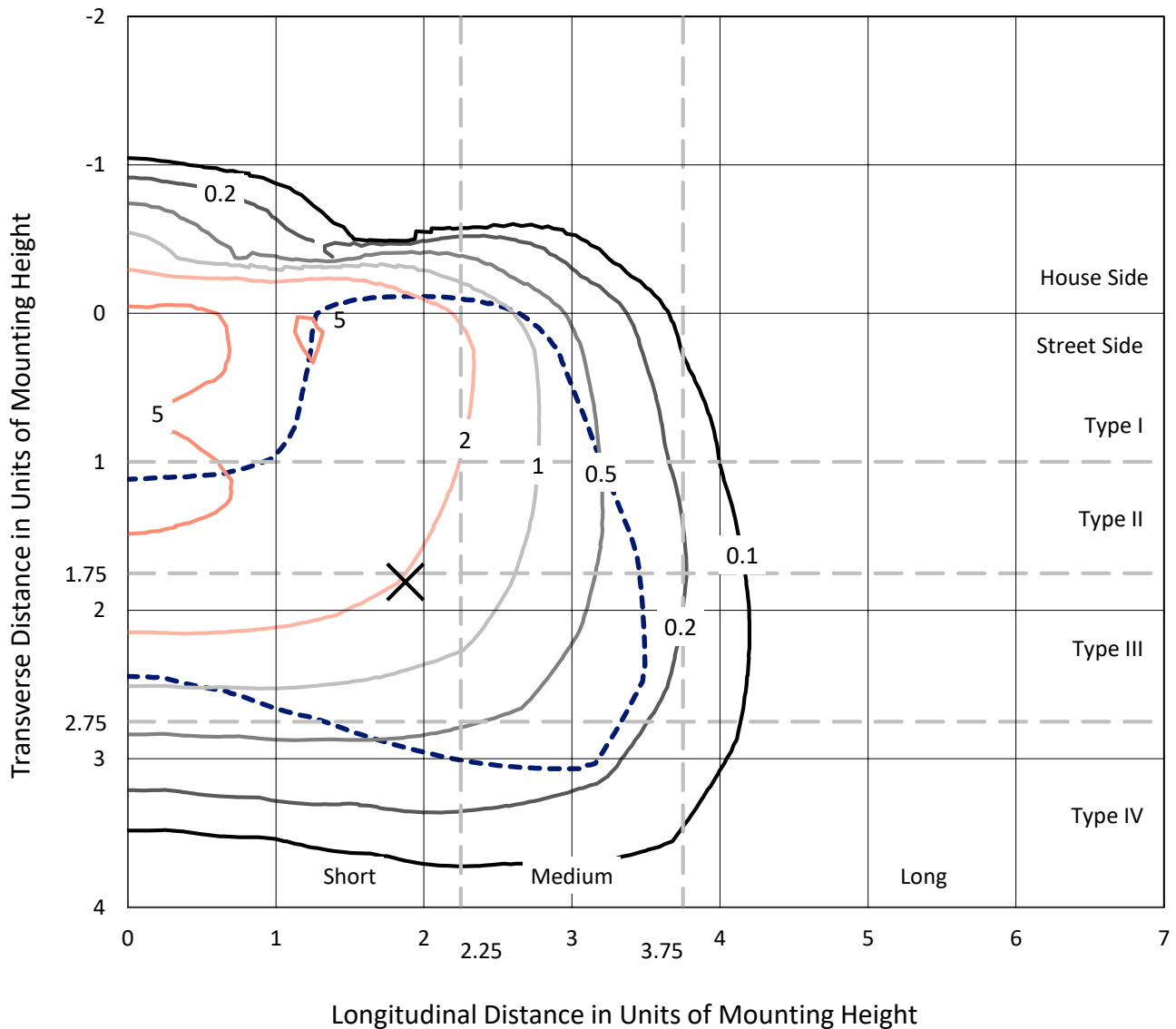
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

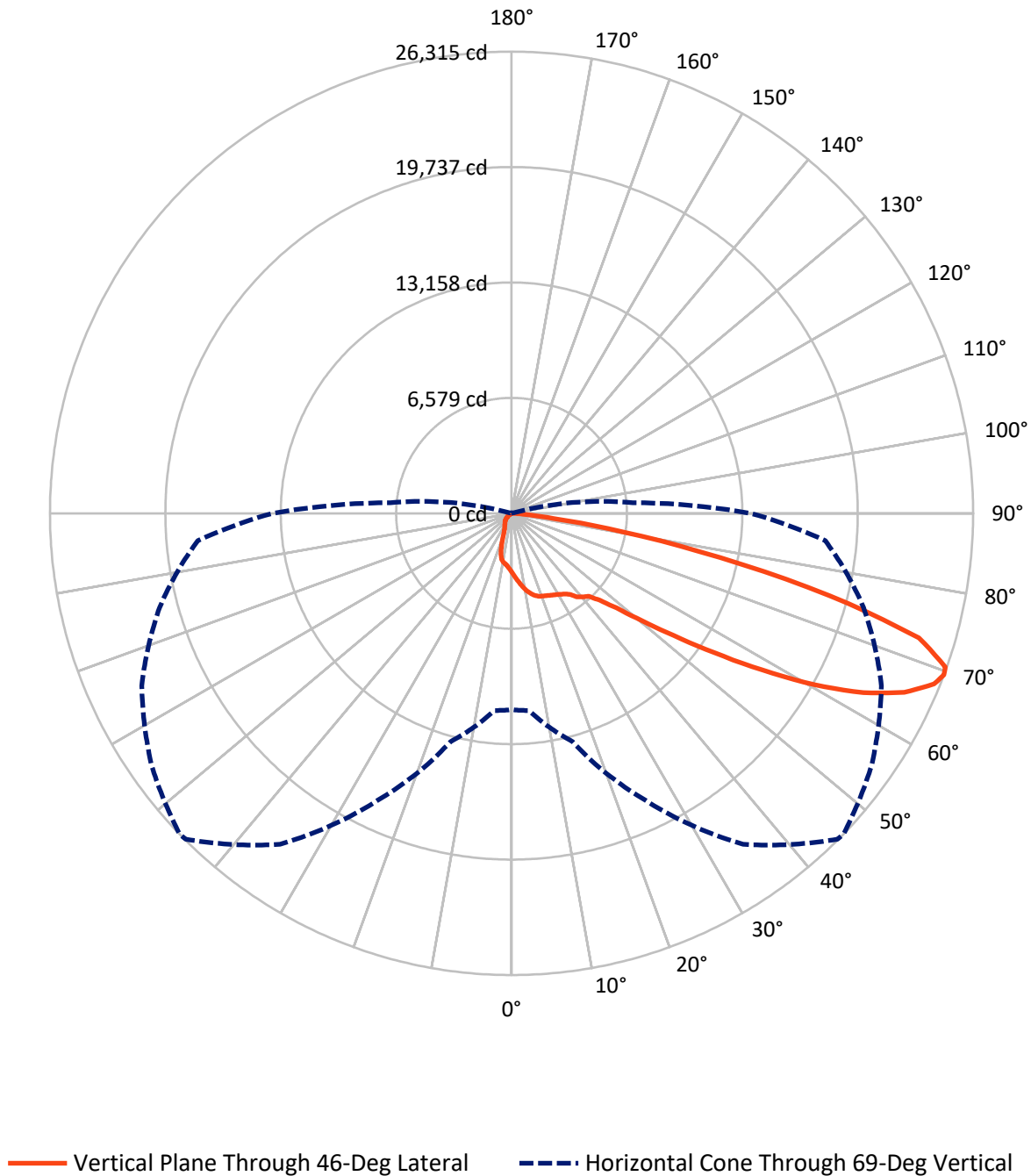
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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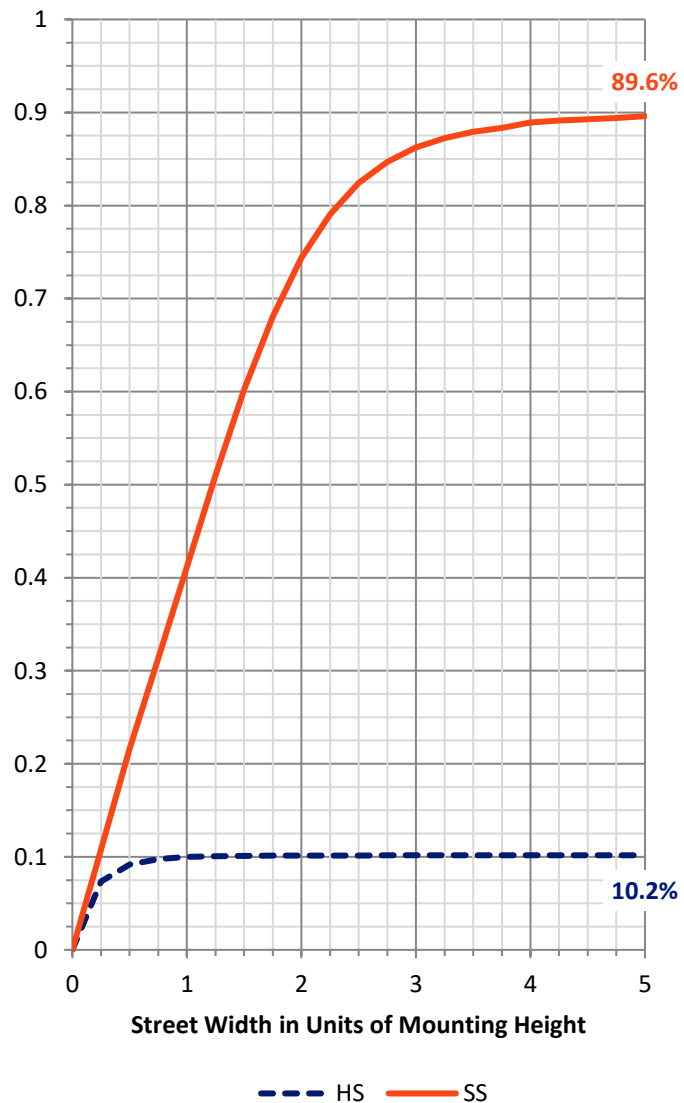
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3457.6	0.0	3457.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30233.4	0.0	30233.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	33691.0	0.0	33691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	1.0
10°-20°	1019.3	3.0
20°-30°	1603.1	4.8
30°-40°	2298.8	6.8
40°-50°	3973.3	11.8
50°-60°	7849.5	23.3
60°-70°	10970.4	32.6
70°-80°	5299.9	15.7
80°-90°	340.6	1.0
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°	33691.0	100.0
0°-180°	33691.0	100.0

Coefficient of Utilization



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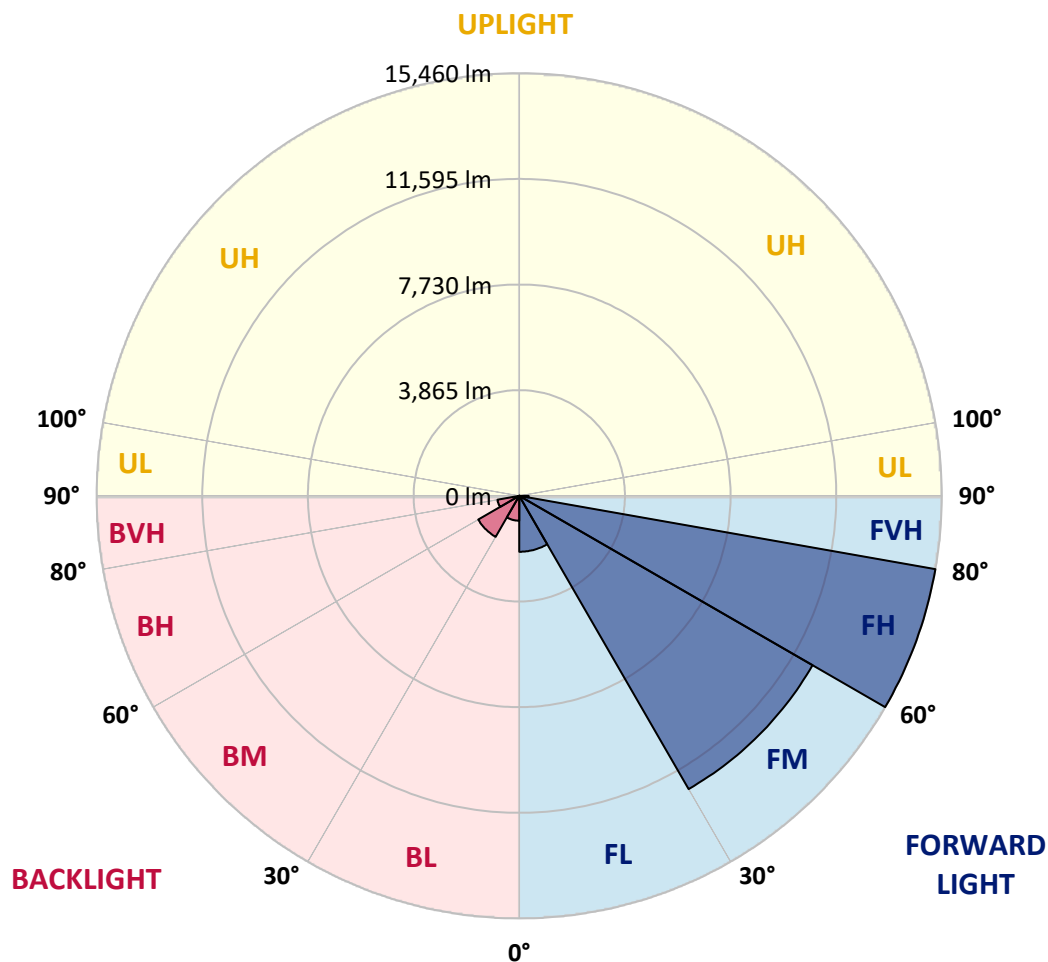
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2047.1	6.1			
FM	(30°-60°)	12388.9	36.8			
FH	(60°-80°)	15459.6	45.9			G5
FVH	(80°-90°)	337.8	1.0			G3/500
BL	(0°-30°)	911.3	2.7	B2/1000		
BM	(30°-60°)	1732.7	5.1	B2/2500		
BH	(60°-80°)	810.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7
2.5°	3750.1	3745.4	3723.2	3713.8	3660.0	3628.5	3615.8	3576.3	3519.5	3462.6	3399.4
5°	4176.6	4175.0	4133.9	4094.5	3993.4	3898.6	3881.2	3789.6	3661.6	3541.6	3421.5
7.5°	4612.6	4592.0	4551.0	4475.1	4328.2	4176.6	4162.4	4032.8	3851.2	3677.4	3505.2
10°	4982.2	4969.6	4915.9	4800.6	4628.4	4456.2	4438.8	4279.3	4073.9	3860.7	3641.1
12.5°	5269.7	5260.2	5189.2	5045.4	4862.2	4683.7	4660.0	4517.8	4298.2	4059.7	3800.6
15°	5445.1	5440.3	5353.4	5200.2	5020.1	4865.3	4844.8	4720.0	4516.2	4266.6	3974.4
17.5°	5486.1	5487.7	5397.7	5242.9	5094.4	4983.8	4968.0	4873.2	4702.6	4454.6	4148.2
20°	5394.5	5413.5	5332.9	5198.6	5107.0	5048.6	5035.9	4979.1	4835.3	4601.5	4287.2
22.5°	5265.0	5274.5	5219.2	5129.1	5091.2	5102.3	5096.0	5064.4	4942.7	4727.9	4424.6
25°	5186.0	5186.0	5152.8	5077.0	5102.3	5170.2	5171.8	5165.5	5069.1	4882.7	4592.0
27.5°	5182.8	5173.4	5135.4	5078.6	5148.1	5252.3	5258.7	5301.3	5241.3	5070.7	4800.6
30°	5309.2	5298.1	5217.6	5143.3	5231.8	5344.0	5359.8	5453.0	5422.9	5274.5	5032.8
32.5°	5604.6	5565.1	5386.6	5265.0	5331.3	5465.6	5486.1	5634.6	5682.0	5525.6	5257.1
35°	6009.0	5884.2	5626.7	5495.6	5501.9	5642.5	5661.5	5879.5	6020.0	5756.2	5430.8
37.5°	6566.6	6505.0	6086.4	5735.7	5764.1	5977.4	6032.7	6269.6	6230.1	5882.6	5628.3
40°	7789.3	7692.9	7247.4	6408.6	6015.3	6249.1	6266.5	6392.8	6396.0	6168.5	6039.0
42.5°	9454.2	9414.7	8945.6	7629.7	6509.7	6430.8	6462.3	6675.6	6914.1	6772.0	6765.6
45°	11297.7	11277.1	10779.5	9250.4	7509.7	7026.3	7065.8	7351.7	7808.2	7839.8	8040.4
47.5°	12780.9	12771.5	12485.6	11059.1	9040.3	8035.7	8048.3	8351.6	9154.1	9550.6	9871.2
50°	14133.1	14178.9	13953.0	13016.3	11125.5	9616.9	9586.9	9789.1	11078.1	11727.3	12125.4
52.5°	16012.9	16077.7	15444.2	14842.4	13313.3	11578.8	11555.1	11766.8	13390.7	13877.2	13948.3
55°	17673.1	17562.5	17061.8	16888.0	15981.3	14002.0	13995.7	14182.1	15627.5	15834.4	15965.5
57.5°	18406.1	18363.4	18605.1	19003.2	18775.7	16865.9	16851.7	16709.5	17628.9	17651.0	18053.8
60°	18868.9	18921.0	19661.9	20889.3	21456.4	19947.8	19856.2	18989.0	19540.3	19491.3	19922.5
62.5°	18521.4	18624.1	19957.3	22002.9	23462.5	22638.0	22508.4	21077.3	21173.6	21004.6	21405.8
65°	16676.4	16835.9	19020.6	21792.9	24457.7	24740.5	24609.4	22920.7	22470.5	22192.5	21969.8
67.5°	13540.8	13635.5	15916.6	19965.2	24009.1	25994.7	25967.9	24536.7	23449.9	21991.9	20263.8
69°	11190.2	11283.4	13479.2	18041.2	23021.8	26263.3	26315.4	25054.8	23263.5	20772.4	17954.3
70°	9477.9	9577.4	11623.1	16392.0	21876.6	26138.5	26231.7	25005.9	22729.6	19360.2	15927.6
72.5°	4971.2	5056.5	7155.8	11292.9	17834.2	24001.2	24284.0	22892.3	19267.0	14060.5	9417.9
75°	1562.3	1611.2	2794.4	5903.2	12210.7	18662.0	18726.8	17957.5	13681.3	7734.0	3922.3
77.5°	595.5	581.3	930.4	2175.2	6173.3	11751.0	12147.5	11221.8	7179.5	2734.4	905.1
80°	320.7	322.2	483.4	900.4	2641.2	6039.0	6373.9	5438.7	2551.1	853.0	208.5
82.5°	139.0	145.3	271.7	477.1	1213.2	2227.3	2394.7	1993.5	974.6	573.4	77.4
85°	30.0	33.2	131.1	259.1	494.4	625.5	655.6	646.1	620.8	445.5	30.0
87.5°	0.0	0.0	58.4	93.2	124.8	142.2	124.8	162.7	342.8	300.1	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°	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7	3375.7
2.5°	3378.9	3350.4	3301.5	3247.8	3209.8	3170.4	3138.8	3124.5	3108.8	3097.7	3111.9
5°	3372.6	3317.3	3222.5	3130.9	3064.5	3010.8	2966.6	2949.2	2931.8	2919.2	2917.6
7.5°	3427.8	3350.4	3205.1	3070.8	2968.2	2895.5	2835.5	2810.2	2789.7	2780.2	2772.3
10°	3533.7	3434.2	3239.9	3064.5	2931.8	2808.6	2679.1	2579.6	2514.8	2484.8	2473.7
12.5°	3671.1	3546.3	3306.2	3097.7	2905.0	2668.0	2393.2	2156.2	2003.0	1952.4	1922.4
15°	3832.2	3677.4	3393.1	3140.3	2807.0	2374.2	1908.2	1598.6	1456.4	1428.0	1396.4
17.5°	3987.0	3816.4	3497.3	3148.2	2592.2	1897.2	1398.0	1187.9	1132.6	1151.6	1156.3
20°	4122.9	3953.9	3600.0	3078.7	2202.0	1423.3	1082.1	1029.9	1050.5	1086.8	1093.1
22.5°	4260.3	4086.6	3694.8	2895.5	1702.9	1080.5	974.6	987.3	1007.8	1044.1	1050.5
25°	4427.8	4247.7	3783.3	2559.0	1277.9	919.4	925.7	944.6	965.2	998.3	1001.5
27.5°	4620.5	4451.5	3841.7	2121.5	947.8	845.1	865.6	894.1	914.6	946.2	952.5
30°	4876.4	4720.0	3860.7	1668.1	794.6	778.8	788.2	823.0	853.0	881.4	886.2
32.5°	5116.5	4985.4	3797.5	1259.0	736.1	717.2	717.2	737.7	772.4	799.3	805.6
35°	5337.6	5252.3	3595.3	920.9	691.9	660.3	644.5	644.5	666.6	688.7	695.0
37.5°	5629.9	5626.7	3268.3	734.5	649.2	612.9	579.7	554.5	546.6	551.3	554.5
40°	6130.6	6135.4	2841.8	658.7	612.9	563.9	513.4	467.6	424.9	410.7	409.1
42.5°	6912.5	6841.5	2394.7	622.4	581.3	513.4	437.6	376.0	309.6	289.1	287.5
45°	8154.2	7732.4	1920.9	589.2	548.1	456.5	361.7	278.0	224.3	208.5	208.5
47.5°	9962.9	8902.9	1488.0	552.9	503.9	391.8	273.3	200.6	164.3	156.4	158.0
50°	11833.2	10049.7	1140.5	507.1	450.2	323.8	202.2	145.3	124.8	124.8	126.4
52.5°	13491.8	10890.1	889.3	458.1	383.9	254.3	153.2	113.7	104.3	102.7	104.3
55°	15044.6	11431.9	680.8	401.2	304.9	189.6	116.9	93.2	86.9	83.7	82.1
57.5°	16542.1	11700.5	510.2	323.8	221.2	137.4	93.2	79.0	72.7	67.9	66.3
60°	17538.9	11482.5	350.7	238.5	153.2	99.5	77.4	67.9	60.0	55.3	53.7
62.5°	18101.2	10886.9	225.9	172.2	109.0	74.2	61.6	56.9	45.8	41.1	41.1
65°	17873.7	9904.4	158.0	123.2	79.0	55.3	45.8	45.8	33.2	26.9	25.3
67.5°	15839.2	8367.4	120.1	91.6	56.9	41.1	34.8	39.5	20.5	12.6	12.6
69°	13627.6	6934.7	102.7	75.8	47.4	33.2	30.0	36.3	14.2	9.5	7.9
70°	11844.2	5982.1	93.2	66.3	39.5	28.4	26.9	34.8	14.2	7.9	6.3
72.5°	7086.3	3336.2	71.1	47.4	25.3	22.1	22.1	39.5	14.2	7.9	6.3
75°	2863.9	1175.3	52.1	33.2	19.0	19.0	26.9	50.5	12.6	6.3	4.7
77.5°	649.2	257.5	30.0	20.5	12.6	19.0	31.6	39.5	7.9	3.2	0.0
80°	158.0	63.2	19.0	12.6	7.9	14.2	23.7	22.1	1.6	0.0	0.0
82.5°	52.1	22.1	7.9	6.3	1.6	4.7	11.1	6.3	0.0	0.0	0.0
85°	22.1	12.6	3.2	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.2	4.7	0.0	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)