

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: P321349

Luminaire Tested: **GAN-SA5A-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18801 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

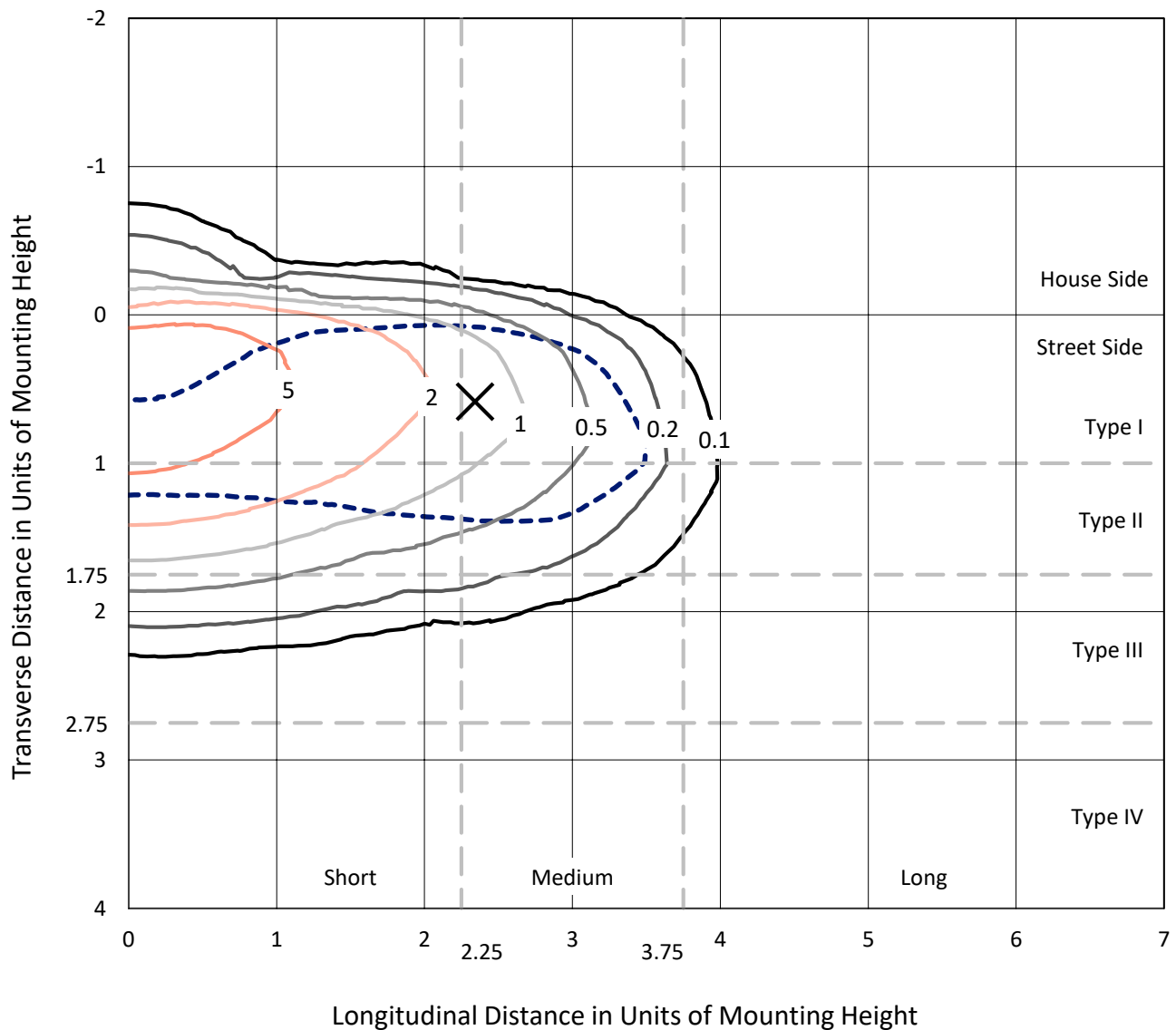
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

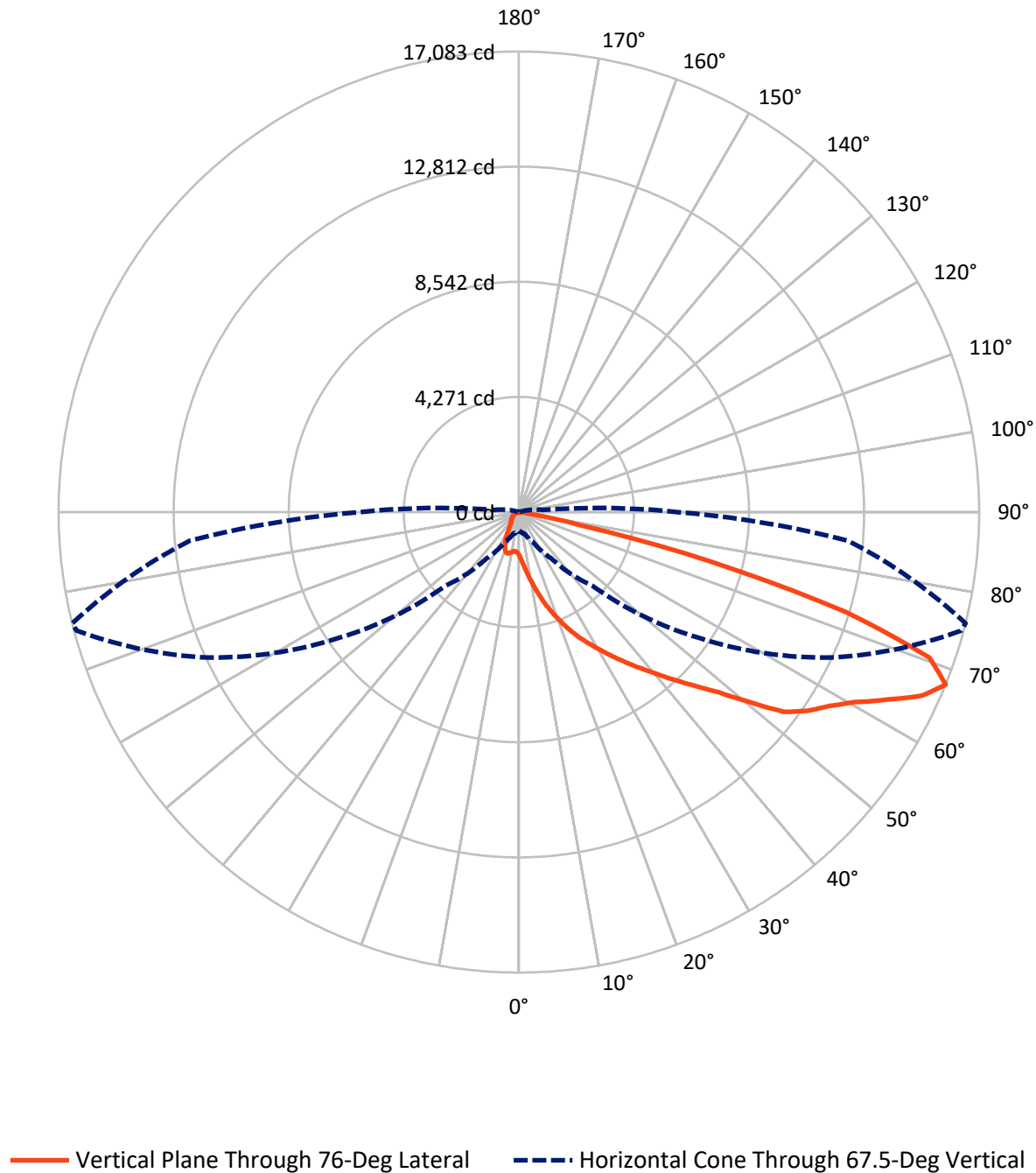
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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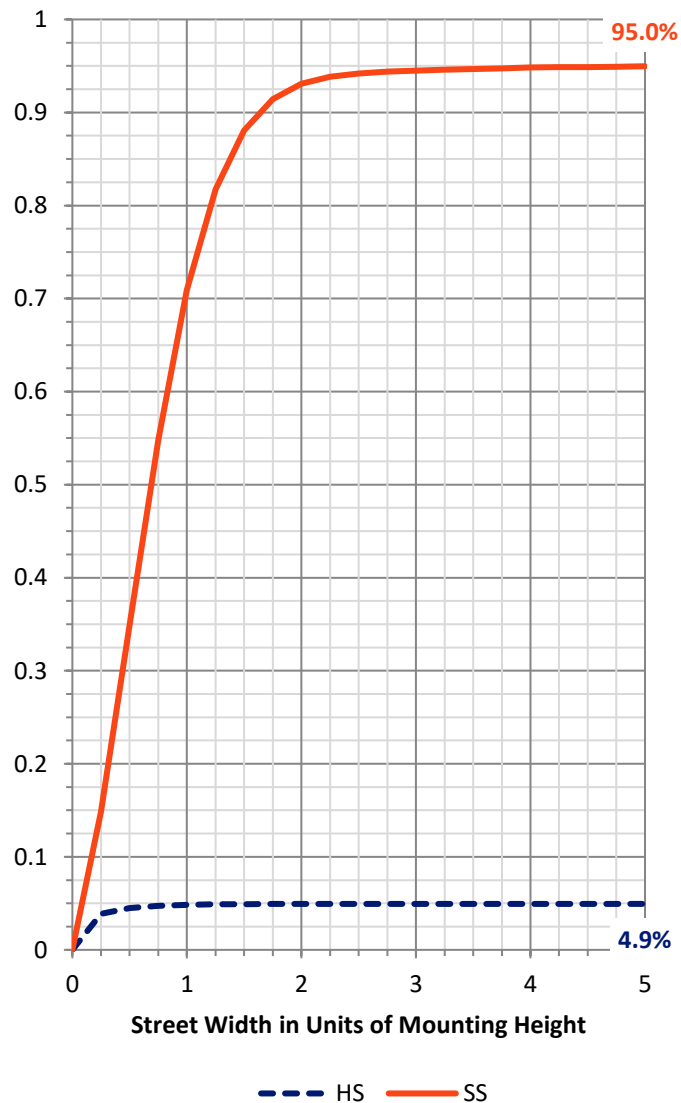
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.6	0.0	933.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17867.4	0.0	17867.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	18801.0	0.0	18801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	1.1
10°-20°	786.2	4.2
20°-30°	1599.6	8.5
30°-40°	2776.4	14.8
40°-50°	3922.7	20.9
50°-60°	4448.5	23.7
60°-70°	3689.6	19.6
70°-80°	1336.5	7.1
80°-90°	43.3	0.2
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°	18801.0	100.0
0°-180°	18801.0	100.0

Coefficient of Utilization



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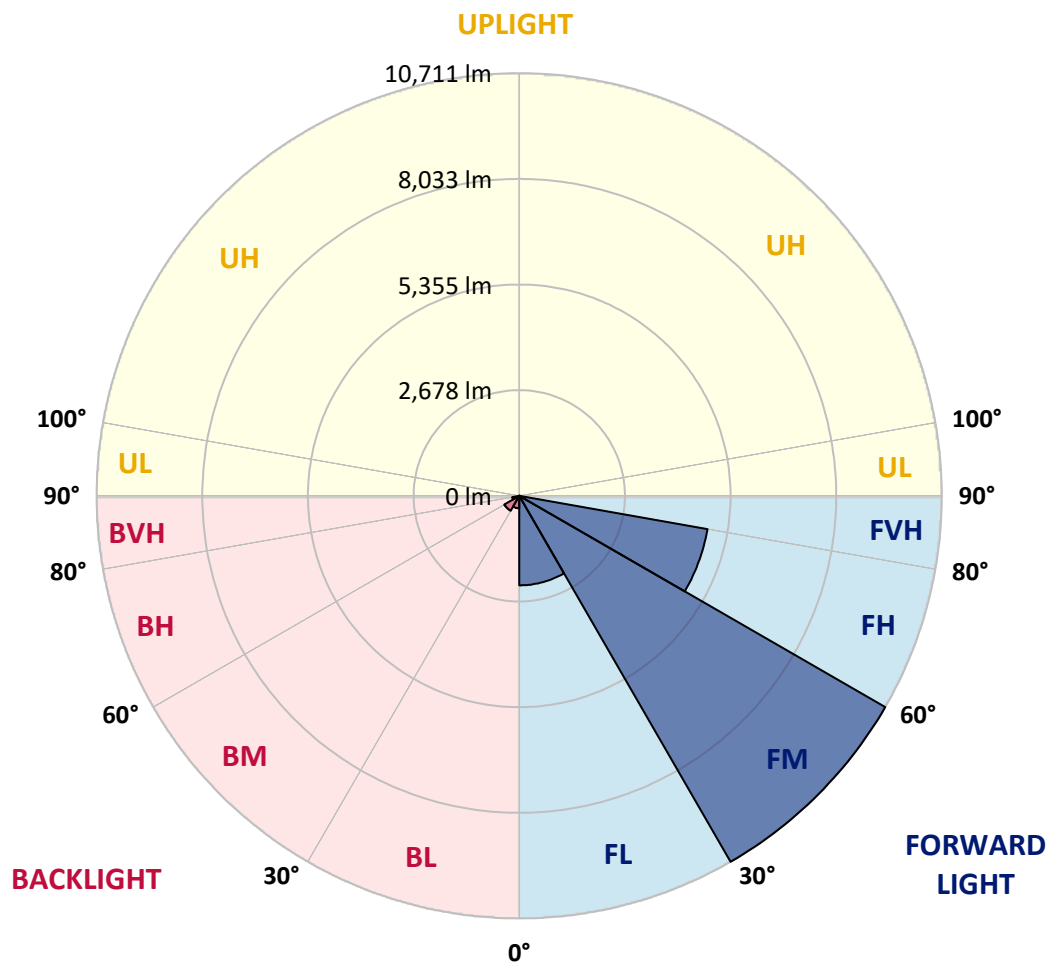
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2269.2	12.1			
FM	(30°-60°)	10710.5	57.0			
FH	(60°-80°)	4845.6	25.8			G2/5000
FVH	(80°-90°)	42.0	0.2			G1/100
BL	(0°-30°)	314.9	1.7	B1/500		
BM	(30°-60°)	437.0	2.3	B1/1000		
BH	(60°-80°)	180.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.4	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°	75°	76°	85°
0°	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9
2.5°	2380.8	2327.2	2339.6	2305.0	2242.4	2113.9	2004.3	1900.5	1779.4	1775.3	1675.6
5°	3210.3	3165.0	3159.3	3089.2	2975.6	2757.2	2544.7	2302.5	2032.3	2012.5	1800.8
7.5°	3963.3	3927.0	3913.9	3830.7	3618.9	3406.4	3129.6	2773.7	2351.1	2314.9	1969.7
10°	4541.6	4524.3	4527.6	4468.3	4287.0	4089.3	3726.0	3272.1	2712.8	2656.7	2172.4
12.5°	4979.8	4984.0	5013.6	4977.4	4876.0	4729.4	4341.4	3803.5	3113.1	3036.5	2403.8
15°	5302.0	5322.5	5376.9	5422.2	5414.8	5287.9	4932.1	4343.1	3538.2	3453.4	2661.7
17.5°	5510.4	5533.4	5612.5	5713.0	5805.3	5775.6	5502.1	4863.7	3968.2	3870.2	2937.7
20°	5693.3	5720.4	5805.3	5937.9	6110.1	6147.2	5967.6	5368.7	4397.4	4278.0	3222.7
22.5°	6089.5	6088.7	6140.6	6218.0	6381.9	6477.5	6363.8	5837.4	4821.7	4697.3	3513.5
25°	6806.2	6779.0	6760.9	6699.9	6736.2	6795.5	6732.1	6275.7	5248.4	5122.4	3808.4
27.5°	7658.0	7674.5	7527.8	7363.9	7237.0	7176.1	7072.3	6681.8	5658.7	5520.3	4096.7
30°	8556.8	8561.7	8388.7	8179.5	7900.2	7668.7	7489.1	7069.8	6080.4	5929.7	4376.8
32.5°	9367.4	9335.3	9163.9	8878.9	8526.3	8266.0	7892.8	7503.1	6526.9	6381.1	4688.2
35°	10009.9	9972.1	9763.6	9504.1	9138.4	8876.4	8427.4	7935.6	6996.5	6854.0	5000.4
37.5°	10479.5	10435.0	10220.8	9953.9	9638.4	9486.0	9047.8	8406.0	7508.9	7355.7	5329.1
40°	10642.6	10603.9	10469.6	10274.4	10020.7	9986.1	9706.0	8947.2	8066.6	7903.5	5701.5
42.5°	10545.4	10507.5	10459.7	10393.8	10288.4	10321.3	10327.1	9564.3	8686.1	8525.5	6112.6
45°	10159.9	10126.1	10175.5	10271.9	10402.9	10566.0	10893.9	10227.4	9378.1	9206.7	6587.9
47.5°	9592.3	9567.6	9704.3	9944.9	10327.9	10777.7	11412.0	10924.4	10154.9	9995.9	7181.0
50°	8785.0	8780.8	9054.3	9493.4	10082.4	10879.9	11947.5	11716.9	11234.1	11066.9	8005.7
52.5°	7527.8	7536.1	8074.0	8776.7	9651.6	10810.7	12291.9	12735.1	12489.6	12315.8	8719.9
55°	6330.9	6380.3	6761.7	7775.0	8990.9	10553.7	12410.5	13210.4	13182.4	13017.6	9117.0
57.5°	5158.6	5248.4	5615.8	6562.4	8026.2	9961.3	12345.4	13416.3	13698.1	13572.0	9640.9
60°	3888.3	3929.5	4352.9	5237.7	6788.1	8880.5	11873.4	13528.4	14403.3	14315.9	10401.3
62.5°	2473.9	2576.8	2952.5	3805.9	5285.5	7379.6	11077.6	13526.7	15285.5	15333.3	11382.4
65°	1303.2	1423.5	1622.9	2358.5	3632.1	5703.1	9880.6	13399.9	16368.0	16434.7	12149.3
67.5°	702.7	737.3	842.7	1224.2	2106.4	3863.6	8121.8	12773.8	16994.9	17083.1	12256.4
70°	514.0	533.0	572.5	677.2	1060.2	2244.0	5926.4	11354.4	16186.8	16153.8	10889.8
72.5°	394.6	424.3	453.9	495.9	609.6	1197.8	3689.8	8891.2	12915.5	12698.0	8139.9
75°	311.4	316.3	358.4	396.2	457.2	682.1	1638.5	5178.4	7882.9	7368.0	4221.1
77.5°	248.8	252.1	276.8	309.7	367.4	448.1	507.5	2037.2	2516.7	2245.7	916.1
80°	147.5	155.7	205.9	238.9	304.8	282.6	185.4	442.4	393.0	355.9	154.0
82.5°	82.4	89.0	116.2	188.6	212.5	135.1	92.3	119.5	92.3	89.8	43.7
85°	0.0	4.1	75.0	117.0	86.5	29.7	38.7	39.5	27.2	25.5	17.3
87.5°	0.0	0.0	23.1	22.2	3.3	4.9	9.1	13.2	10.7	10.7	9.1
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°	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9	1594.9
2.5°	1626.2	1581.7	1497.7	1415.3	1346.1	1289.2	1238.2	1217.6	1201.1	1198.6	1185.4
5°	1698.7	1608.9	1448.2	1316.4	1228.3	1165.7	1112.1	1079.2	1053.6	1043.7	1034.7
7.5°	1808.2	1672.3	1441.6	1290.1	1184.6	1079.2	980.3	873.2	806.5	781.0	766.1
10°	1941.7	1756.3	1466.4	1282.7	1098.1	875.7	711.8	575.8	520.6	502.5	497.6
12.5°	2097.4	1861.0	1509.2	1236.5	913.6	622.0	491.0	444.8	432.5	426.7	426.7
15°	2276.1	1975.5	1539.7	1103.1	675.5	470.4	425.1	403.7	390.5	383.1	383.9
17.5°	2459.0	2087.5	1524.8	909.5	498.4	418.5	384.7	361.6	343.5	336.1	334.5
20°	2643.6	2191.3	1442.5	677.2	421.8	379.8	341.9	316.3	298.2	290.8	289.2
22.5°	2834.7	2279.4	1297.5	496.7	378.9	336.9	299.9	274.3	257.0	250.4	247.1
25°	3020.9	2351.1	1094.8	402.0	338.6	296.6	261.1	237.3	221.6	215.0	214.2
27.5°	3194.7	2396.4	860.0	355.1	303.2	260.3	228.2	206.8	193.6	188.6	187.8
30°	3351.2	2400.5	636.0	320.5	271.9	229.0	199.4	180.4	168.9	163.9	162.3
32.5°	3509.4	2365.9	463.0	289.2	243.0	201.8	173.0	158.2	149.9	145.8	145.8
35°	3658.5	2286.0	360.8	262.0	215.0	175.5	152.4	141.7	136.8	132.6	132.6
37.5°	3804.3	2171.5	306.5	238.1	188.6	153.2	134.3	127.7	123.6	119.5	119.5
40°	3952.6	2027.4	278.4	215.8	167.2	135.9	119.5	113.7	109.6	106.3	105.4
42.5°	4134.6	1861.0	260.3	195.2	148.3	120.3	105.4	98.9	95.6	92.3	90.6
45°	4345.5	1717.6	245.5	174.6	132.6	107.1	91.4	84.9	79.9	75.8	75.0
47.5°	4649.5	1613.8	225.7	152.4	117.8	93.1	79.1	71.7	64.3	60.1	59.3
50°	5037.5	1528.1	200.2	132.6	103.0	79.1	65.9	56.8	50.3	46.1	46.1
52.5°	5230.3	1416.1	177.1	115.3	86.5	66.7	53.5	42.8	39.5	35.4	35.4
55°	5307.7	1330.4	154.0	98.0	71.7	55.2	42.0	33.0	30.5	28.0	27.2
57.5°	5525.2	1305.7	134.3	83.2	59.3	43.7	32.1	24.7	23.1	19.8	19.8
60°	5875.3	1318.1	116.2	70.8	47.8	33.8	23.9	18.9	17.3	14.0	14.0
62.5°	6253.4	1302.4	98.0	61.0	37.1	24.7	16.5	14.0	14.0	8.2	7.4
65°	6325.9	1159.9	84.0	50.3	28.8	18.1	10.7	9.1	12.4	1.6	0.0
67.5°	5871.2	899.6	72.5	38.7	21.4	14.0	8.2	4.1	10.7	0.0	0.0
70°	4694.8	571.7	58.5	28.0	16.5	11.5	6.6	1.6	8.2	0.0	0.0
72.5°	3319.9	332.0	46.1	19.8	14.0	9.1	4.9	0.0	4.9	0.0	0.0
75°	1678.9	177.1	28.8	14.8	10.7	6.6	3.3	0.0	0.8	0.0	0.0
77.5°	363.3	82.4	18.1	10.7	7.4	4.1	1.6	0.0	0.0	0.0	0.0
80°	79.1	36.2	11.5	6.6	4.1	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	28.8	18.9	5.8	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.7	9.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.3	0.8	0.8	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)