

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: P323952

Luminaire Tested: **GAN-SA8A-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22283 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

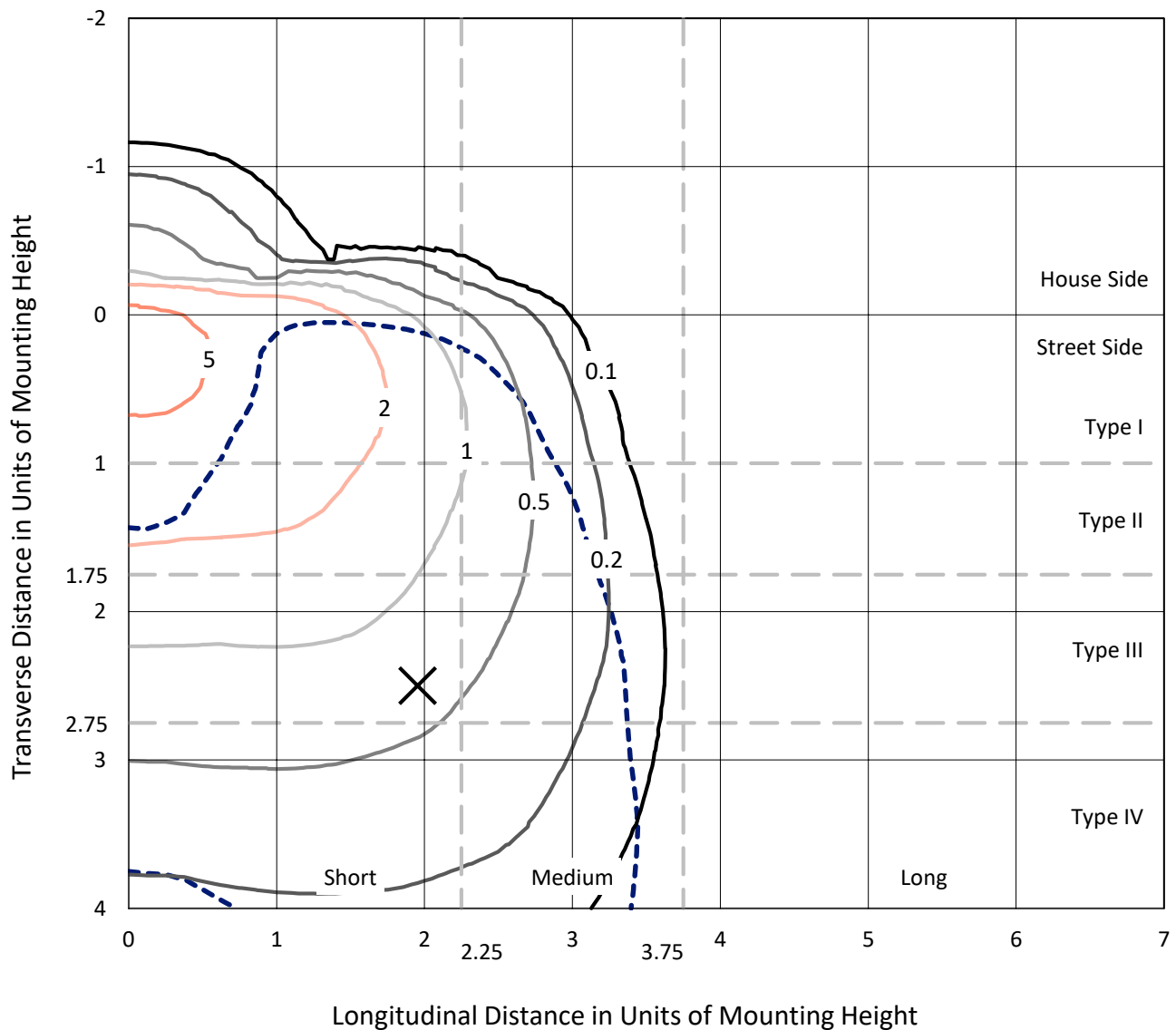
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

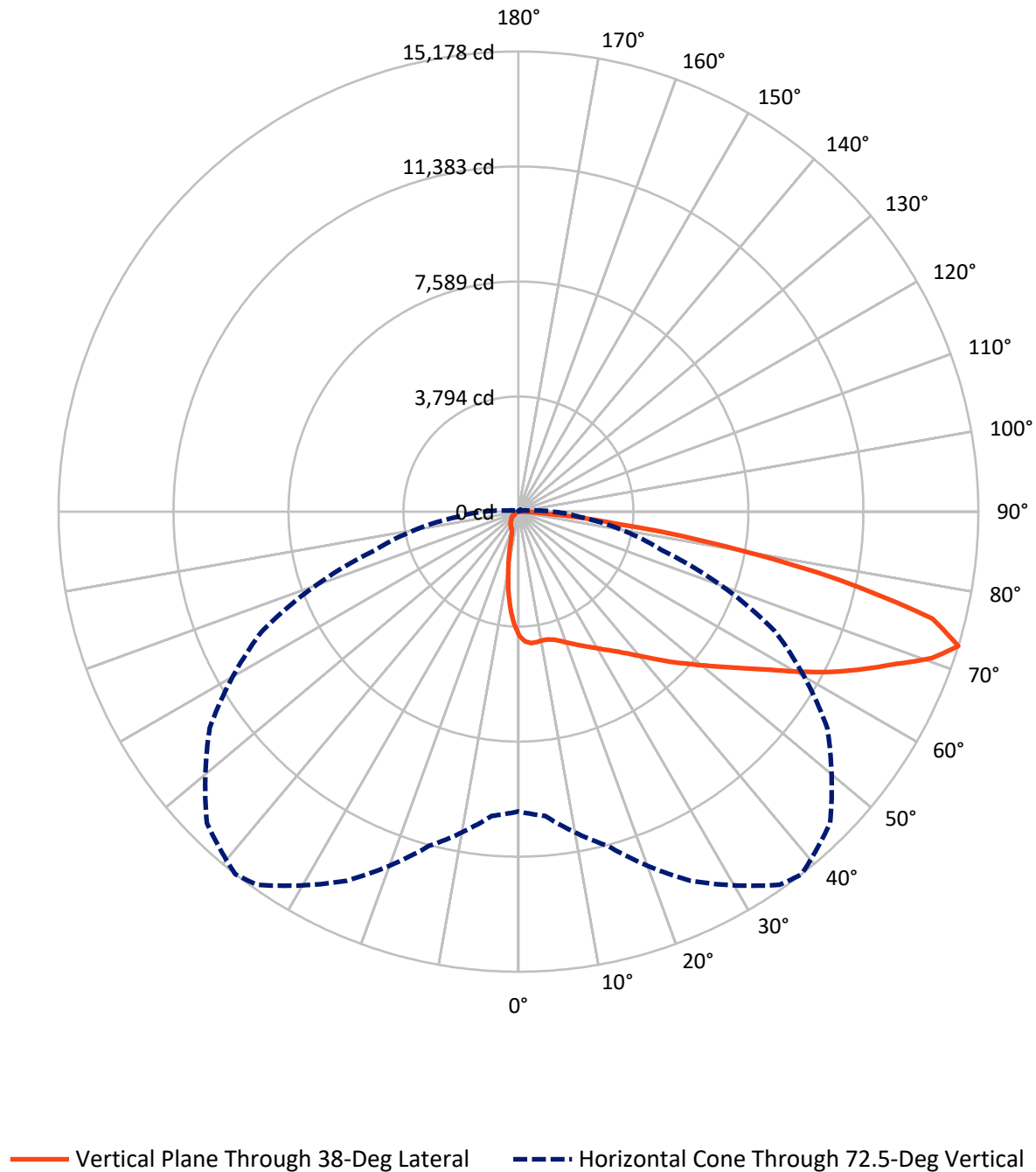
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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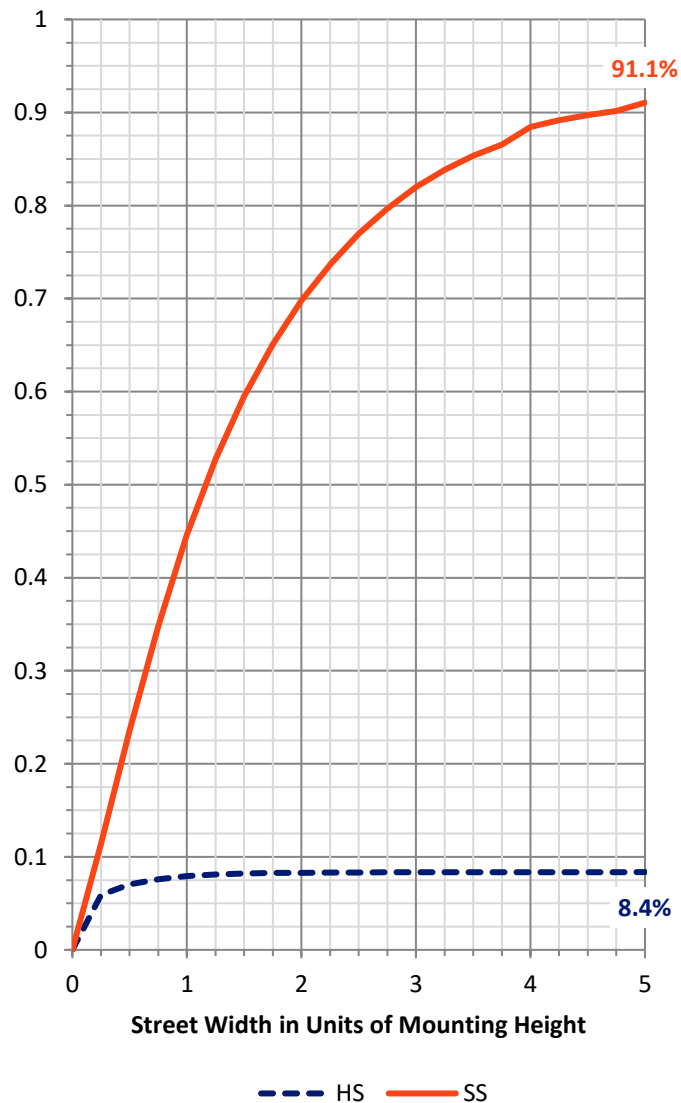
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1875.2	0.0	1875.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	20407.8	0.0	20407.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	22283.0	0.0	22283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.2	1.6
10°-20°	853.9	3.8
20°-30°	1358.1	6.1
30°-40°	2041.8	9.2
40°-50°	3114.8	14.0
50°-60°	4402.3	19.8
60°-70°	5522.0	24.8
70°-80°	4128.9	18.5
80°-90°	512.0	2.3
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°	22283.0	100.0
0°-180°	22283.0	100.0

Coefficient of Utilization



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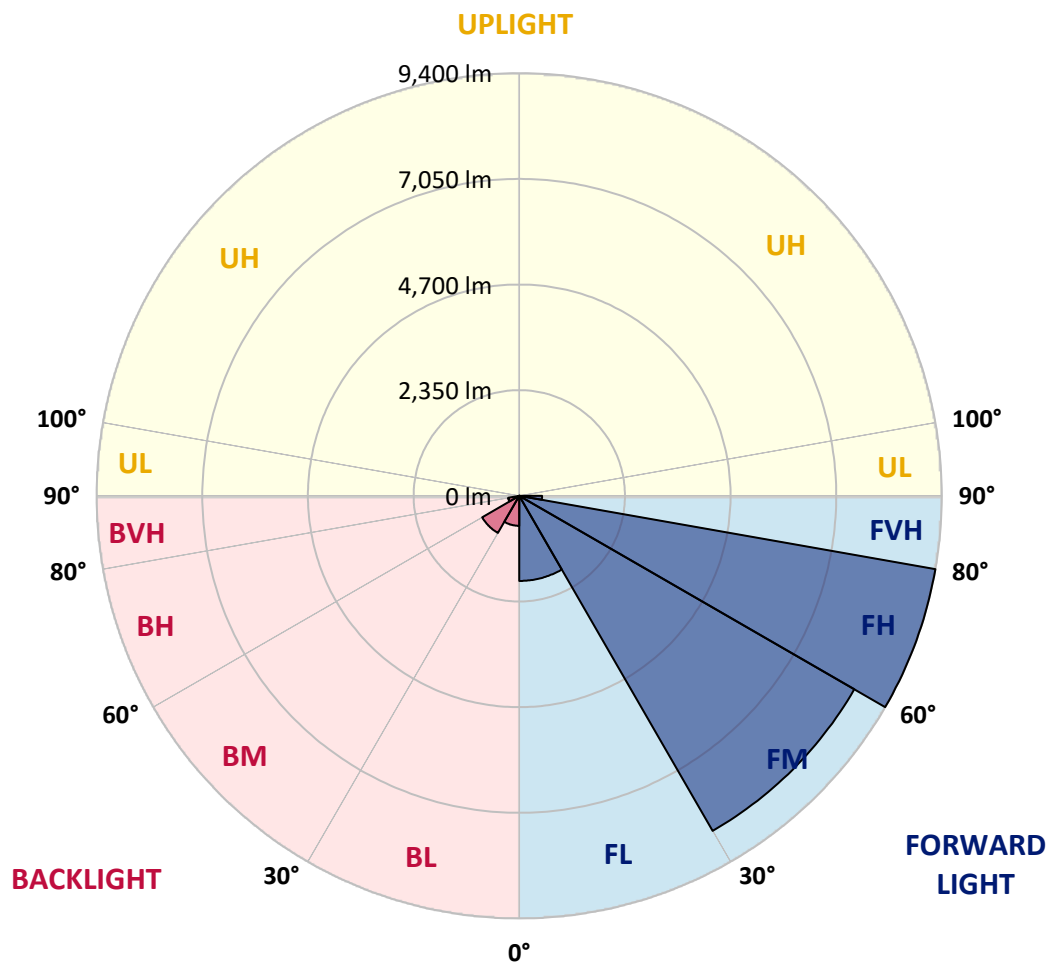
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1893.5	8.5			
FM	(30°-60°)	8606.7	38.6			
FH	(60°-80°)	9400.4	42.2			G4/12000
FVH	(80°-90°)	507.2	2.3			G4/750
BL	(0°-30°)	667.7	3.0	B2/1000		
BM	(30°-60°)	952.2	4.3	B1/1000		
BH	(60°-80°)	250.5	1.1	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8
2.5°	4349.5	4350.4	4340.2	4323.6	4302.3	4291.2	4272.7	4243.1	4211.6	4155.1	4094.1
5°	4438.3	4438.3	4425.4	4403.2	4368.9	4358.7	4323.6	4276.4	4211.6	4120.0	4017.3
7.5°	4429.1	4430.9	4413.3	4390.2	4356.0	4346.7	4304.1	4251.4	4170.9	4059.8	3928.4
10°	4380.9	4385.6	4371.7	4360.6	4329.1	4318.9	4279.2	4226.4	4145.9	4027.4	3876.6
12.5°	4331.9	4336.5	4341.2	4351.3	4331.9	4328.2	4296.7	4252.3	4175.5	4052.4	3882.1
15°	4300.4	4309.7	4343.0	4382.8	4387.4	4383.7	4363.4	4321.7	4244.0	4116.3	3921.9
17.5°	4300.4	4315.2	4384.7	4460.5	4487.4	4490.1	4472.6	4414.3	4321.7	4184.8	3959.0
20°	4336.5	4356.9	4465.2	4572.5	4616.9	4616.9	4582.7	4501.3	4393.0	4246.8	3983.9
22.5°	4429.1	4455.9	4591.9	4716.0	4763.1	4753.0	4706.7	4588.2	4467.0	4317.1	4015.4
25°	4611.4	4631.7	4773.3	4898.3	4926.9	4903.8	4845.5	4693.7	4561.4	4412.4	4072.8
27.5°	4846.4	4849.2	4995.4	5100.9	5083.3	5067.6	4994.5	4826.1	4697.4	4548.5	4171.8
30°	5104.6	5104.6	5233.3	5313.8	5260.1	5247.1	5174.0	4986.2	4871.4	4733.5	4312.5
32.5°	5354.5	5365.6	5470.2	5521.1	5460.9	5448.0	5376.7	5188.8	5102.8	5015.8	4531.8
35°	5596.0	5604.4	5703.4	5731.1	5673.8	5677.5	5626.6	5467.4	5435.0	5423.9	4862.2
37.5°	5830.2	5832.0	5932.9	5950.5	5921.8	5953.2	5957.9	5817.2	5877.4	5967.1	5327.7
40°	6043.9	6045.8	6145.7	6191.1	6240.1	6280.8	6316.9	6242.0	6440.9	6649.2	5882.0
42.5°	6215.1	6234.6	6361.4	6447.4	6577.0	6654.7	6752.8	6749.1	7111.9	7424.7	6552.0
45°	6366.0	6399.3	6576.1	6726.9	6949.0	7073.0	7226.6	7346.9	7867.0	8288.1	7230.3
47.5°	6564.9	6596.4	6798.2	7045.2	7341.4	7504.2	7758.7	8018.8	8697.1	9135.8	7892.9
50°	6845.3	6831.5	7030.4	7384.9	7765.2	7979.0	8341.8	8731.4	9520.7	9874.3	8282.5
52.5°	7144.3	7138.7	7285.9	7754.1	8264.9	8514.8	8994.2	9468.0	10308.3	10383.2	8461.1
55°	7514.4	7474.6	7598.6	8175.2	8858.1	9126.5	9691.0	10197.2	10935.7	10670.1	8550.9
57.5°	7902.2	7836.5	7954.9	8644.4	9527.2	9844.6	10462.8	10908.0	11353.1	10866.3	8550.0
60°	8302.9	8225.2	8365.8	9231.1	10358.3	10725.6	11299.4	11388.2	11742.7	10965.3	8487.0
62.5°	8637.9	8591.6	8800.8	9858.5	11286.5	11647.4	11931.5	11825.0	12071.2	11042.1	8339.9
65°	8992.3	8995.1	9332.9	10590.5	12273.0	12516.3	12540.4	12391.4	12346.1	11026.4	7842.0
67.5°	9471.7	9516.1	10079.7	11584.4	13232.6	13420.5	13418.6	13005.0	12546.9	10400.8	6738.0
70°	9978.8	10083.4	10940.3	12721.8	14280.2	14470.8	14372.7	13395.5	11813.9	8410.2	4768.7
72.5°	9893.7	10075.1	11418.8	13439.0	15032.6	15177.9	14540.2	12435.8	9337.5	4888.1	2030.4
75°	7632.9	7843.0	10470.2	12728.3	14243.2	14112.7	12493.2	9677.1	5102.8	1364.1	457.2
77.5°	4032.1	4144.0	6916.6	9696.6	11106.0	10833.0	8800.8	5368.4	1555.6	337.8	205.4
80°	2111.8	2137.7	3014.1	5501.6	6854.6	6856.5	5215.7	2358.0	641.3	173.1	137.9
82.5°	1130.9	1153.1	1592.7	2542.1	3591.6	3255.6	1997.1	1297.4	372.9	98.1	132.3
85°	272.1	276.7	903.2	1161.4	1412.2	1008.7	593.2	1089.2	100.9	57.4	107.3
87.5°	104.6	106.4	335.0	502.5	360.0	233.2	277.6	406.3	13.0	22.2	16.7
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°	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8	4097.8
2.5°	4057.1	4033.0	3973.8	3898.8	3832.2	3784.1	3711.9	3664.7	3633.2	3632.3	3620.3
5°	3954.3	3905.3	3777.6	3625.8	3487.9	3363.9	3217.7	3102.0	3016.0	3002.1	2972.5
7.5°	3844.2	3763.7	3567.5	3330.6	3099.2	2864.2	2591.2	2421.8	2276.5	2207.1	2199.7
10°	3776.6	3663.7	3385.2	3042.8	2680.0	2297.8	1940.6	1693.5	1514.9	1464.0	1426.1
12.5°	3762.8	3613.8	3244.5	2772.6	2254.3	1749.0	1353.9	1091.1	948.6	903.2	891.2
15°	3776.6	3590.6	3126.1	2505.1	1823.1	1241.0	908.8	756.1	702.4	689.4	688.5
17.5°	3785.0	3562.9	2991.9	2208.1	1404.8	886.6	695.9	651.5	643.2	642.2	644.1
20°	3784.1	3520.3	2831.8	1876.8	1044.8	696.8	629.3	620.0	618.2	619.1	618.2
22.5°	3777.6	3470.3	2656.0	1535.3	789.4	622.8	600.6	595.0	594.1	594.1	594.1
25°	3789.6	3430.5	2462.5	1208.6	650.6	588.6	574.7	570.1	569.1	569.1	567.3
27.5°	3833.1	3408.3	2250.6	930.0	587.6	558.0	546.9	546.0	543.2	542.3	544.1
30°	3903.4	3408.3	2018.3	723.7	549.7	526.6	518.2	516.4	515.5	514.5	515.5
32.5°	4027.4	3434.2	1764.8	601.5	513.6	491.4	485.8	488.6	485.8	485.8	485.8
35°	4251.4	3512.0	1499.2	524.7	475.7	457.2	451.6	455.3	453.5	453.5	452.5
37.5°	4578.1	3656.3	1231.7	478.4	442.4	422.9	415.5	421.1	419.2	419.2	418.3
40°	4976.0	3866.4	977.2	443.3	410.0	389.6	383.1	385.9	381.3	381.3	383.1
42.5°	5467.4	4132.9	755.1	409.0	377.6	358.1	354.4	351.7	343.3	338.7	339.6
45°	6013.4	4410.6	588.6	375.7	347.0	331.3	325.7	318.3	304.5	295.2	296.1
47.5°	6501.1	4624.3	478.4	343.3	319.3	307.2	298.9	285.0	264.7	253.6	254.5
50°	6757.4	4656.7	407.2	310.9	293.4	281.3	269.3	248.0	224.0	211.9	211.0
52.5°	6823.1	4505.0	354.4	281.3	267.4	253.6	237.8	209.1	182.3	169.4	167.5
55°	6847.2	4273.6	307.2	253.6	239.7	224.0	203.6	171.2	146.2	133.3	132.3
57.5°	6767.6	3928.4	270.2	228.6	211.9	192.5	167.5	137.0	112.9	102.7	102.7
60°	6590.9	3461.1	241.5	201.7	183.2	161.0	135.1	106.4	84.2	75.9	75.9
62.5°	6238.3	2855.9	214.7	174.0	156.4	133.3	109.2	80.5	59.2	54.6	55.5
65°	5572.9	2166.4	187.9	149.0	133.3	110.1	85.1	57.4	39.8	39.8	41.6
67.5°	4544.7	1504.7	160.1	126.8	114.8	89.8	64.8	39.8	27.8	31.5	35.2
70°	3008.5	844.0	137.0	104.6	98.1	71.3	48.1	26.8	22.2	29.6	36.1
72.5°	1135.5	328.5	114.8	84.2	85.1	54.6	34.2	20.4	20.4	32.4	42.6
75°	316.5	161.0	82.4	62.0	66.6	39.8	25.0	17.6	19.4	37.0	50.0
77.5°	186.0	118.5	53.7	36.1	45.3	27.8	16.7	13.9	16.7	31.5	48.1
80°	149.9	62.9	31.5	18.5	25.0	15.7	11.1	8.3	4.6	12.0	25.0
82.5°	149.9	37.9	14.8	13.0	13.0	8.3	5.6	3.7	0.9	0.0	6.5
85°	100.9	15.7	9.3	8.3	6.5	2.8	1.9	0.9	0.0	0.0	0.0
87.5°	16.7	6.5	3.7	1.9	0.9	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)