

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: P323937

Luminaire Tested: **GAN-SA3D-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323937
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-SA3D-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA 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: 19226 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

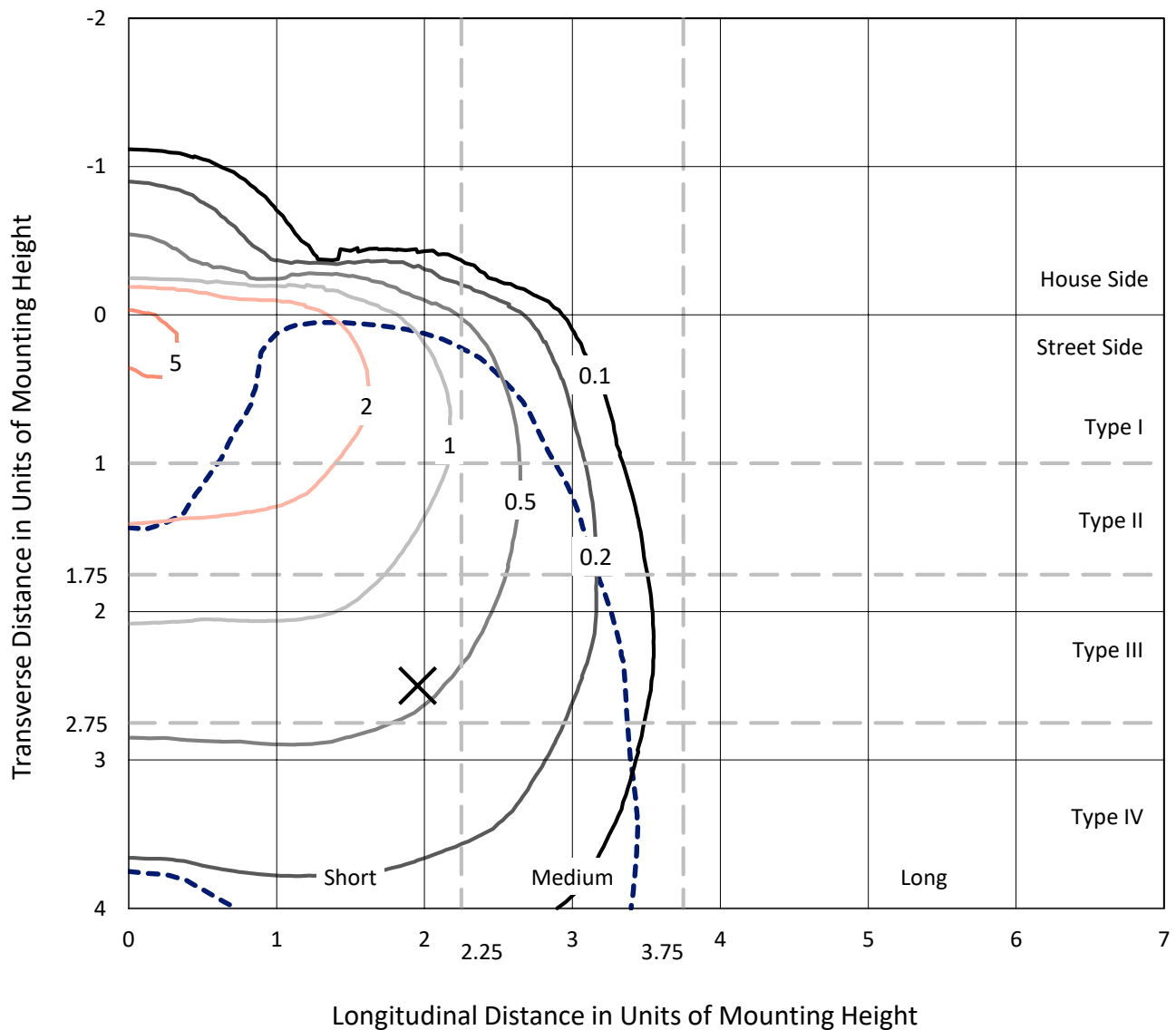
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

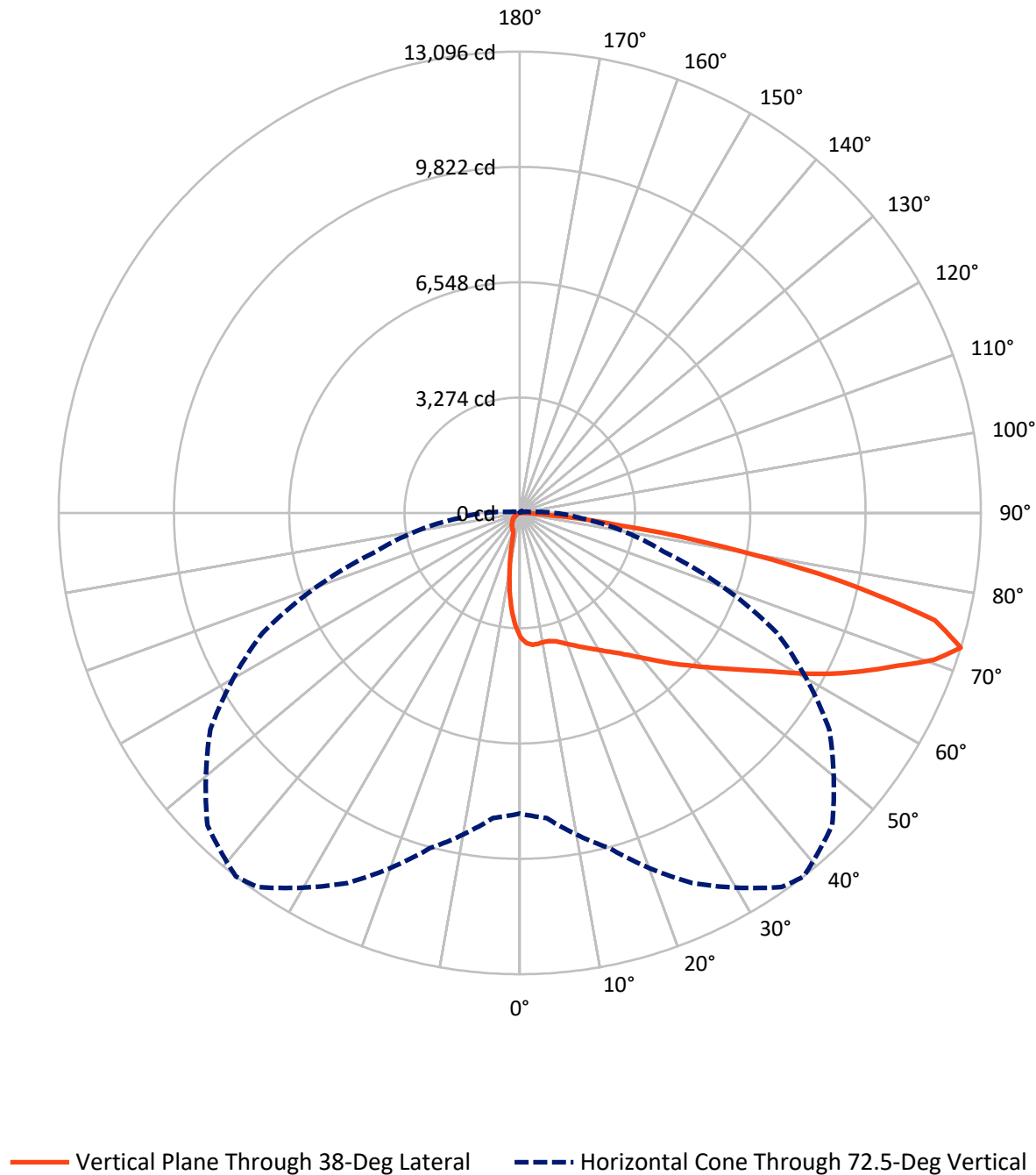
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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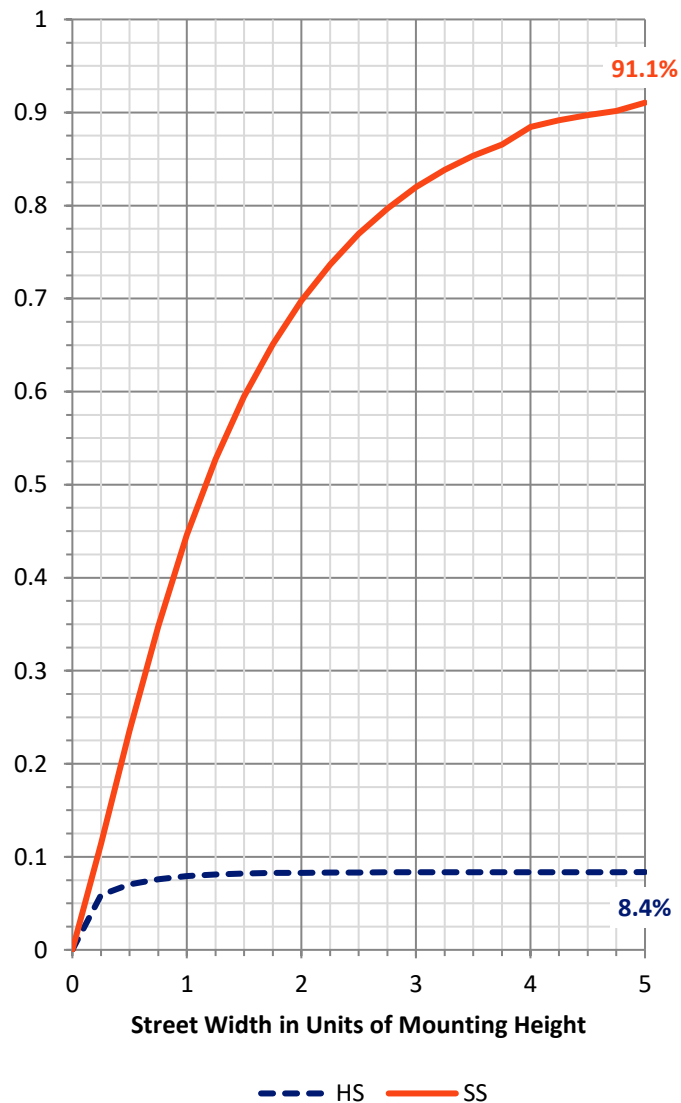
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.9	0.0	1617.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17608.1	0.0	17608.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	19226.0	0.0	19226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	1.6
10°-20°	736.7	3.8
20°-30°	1171.8	6.1
30°-40°	1761.7	9.2
40°-50°	2687.5	14.0
50°-60°	3798.4	19.8
60°-70°	4764.4	24.8
70°-80°	3562.5	18.5
80°-90°	441.7	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°	19226.0	100.0
0°-180°	19226.0	100.0

Coefficient of Utilization



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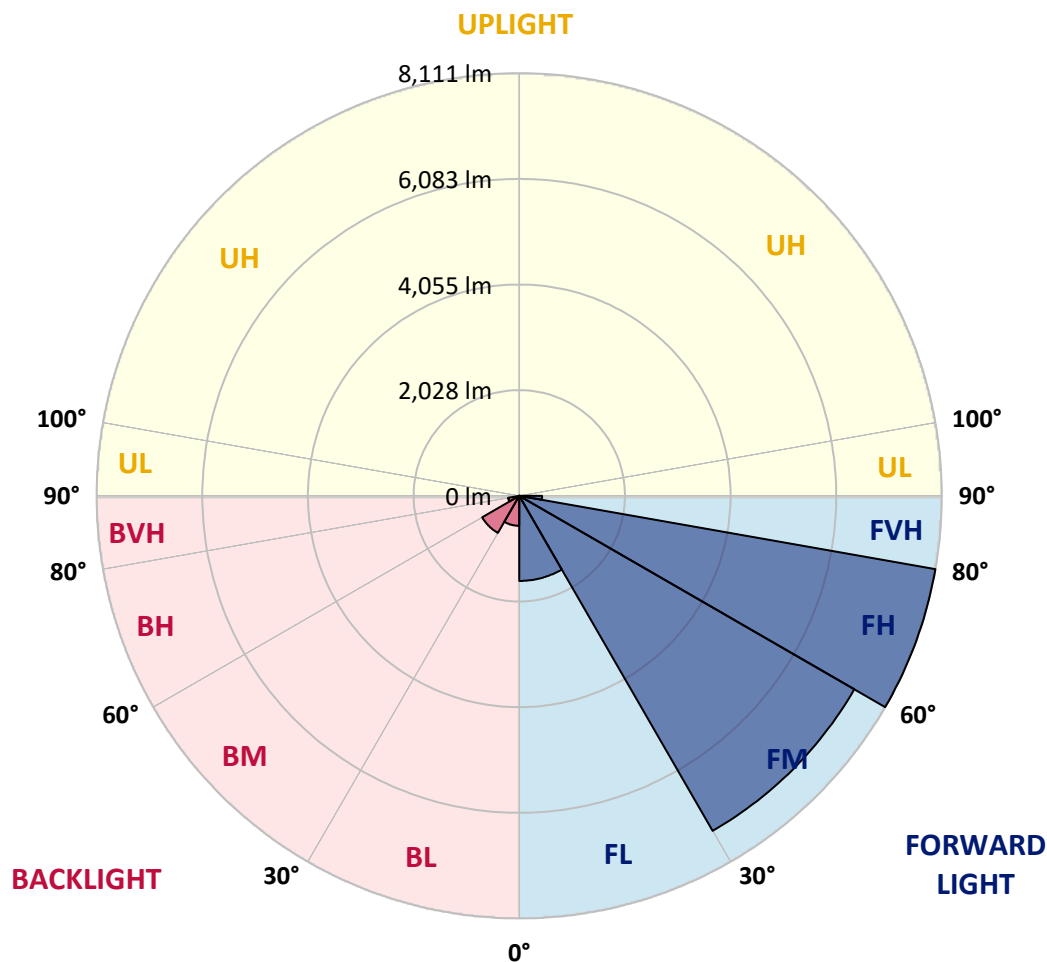
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1633.7	8.5			
FM	(30°-60°)	7425.9	38.6			
FH	(60°-80°)	8110.8	42.2			G4/12000
FVH	(80°-90°)	437.6	2.3			G3/500
BL	(0°-30°)	576.1	3.0	B2/1000		
BM	(30°-60°)	821.6	4.3	B1/1000		
BH	(60°-80°)	216.1	1.1	B1/500		G1/500
BVH	(80°-90°)	4.1	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°	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6
2.5°	3752.8	3753.6	3744.8	3730.4	3712.1	3702.5	3686.5	3661.0	3633.8	3585.1	3532.4
5°	3829.4	3829.4	3818.3	3799.1	3769.5	3760.8	3730.4	3689.7	3633.8	3554.8	3466.1
7.5°	3821.4	3823.0	3807.9	3787.9	3758.4	3750.4	3713.7	3668.1	3598.7	3502.9	3389.5
10°	3779.9	3783.9	3771.9	3762.4	3735.2	3726.4	3692.1	3646.6	3577.1	3474.9	3344.8
12.5°	3737.6	3741.6	3745.6	3754.4	3737.6	3734.4	3707.3	3668.9	3602.7	3496.5	3349.6
15°	3710.5	3718.4	3747.2	3781.5	3785.5	3782.3	3764.8	3728.8	3661.8	3551.6	3383.9
17.5°	3710.5	3723.2	3783.1	3848.6	3871.8	3874.1	3859.0	3808.7	3728.8	3610.7	3415.8
20°	3741.6	3759.2	3852.6	3945.2	3983.5	3983.5	3954.0	3883.7	3790.3	3664.2	3437.4
22.5°	3821.4	3844.6	3962.0	4069.0	4109.7	4100.9	4061.0	3958.8	3854.2	3724.8	3464.5
25°	3978.7	3996.3	4118.5	4226.3	4251.0	4231.1	4180.8	4049.8	3935.6	3807.1	3514.0
27.5°	4181.6	4184.0	4310.1	4401.1	4386.0	4372.4	4309.3	4164.0	4053.0	3924.4	3599.5
30°	4404.3	4404.3	4515.3	4584.8	4538.5	4527.3	4464.2	4302.1	4203.1	4084.1	3720.8
32.5°	4619.9	4629.5	4719.7	4763.6	4711.7	4700.6	4639.1	4477.0	4402.7	4327.7	3910.1
35°	4828.3	4835.5	4920.9	4944.9	4895.4	4898.6	4854.7	4717.3	4689.4	4679.8	4195.1
37.5°	5030.3	5031.9	5119.0	5134.1	5109.4	5136.5	5140.5	5019.1	5071.0	5148.5	4596.8
40°	5214.8	5216.4	5302.6	5341.7	5384.0	5419.2	5450.3	5385.6	5557.3	5737.0	5075.0
42.5°	5362.5	5379.3	5488.6	5562.9	5674.7	5741.8	5826.4	5823.2	6136.2	6406.1	5653.1
45°	5492.6	5521.4	5673.9	5804.0	5995.7	6102.7	6235.2	6339.0	6787.7	7151.0	6238.4
47.5°	5664.3	5691.5	5865.5	6078.7	6334.2	6474.7	6694.3	6918.7	7504.0	7882.4	6810.1
50°	5906.2	5894.3	6065.9	6371.7	6699.9	6884.4	7197.4	7533.5	8214.6	8519.6	7146.3
52.5°	6164.1	6159.4	6286.3	6690.3	7131.1	7346.7	7760.3	8169.1	8894.1	8958.8	7300.4
55°	6483.5	6449.2	6556.2	7053.6	7642.9	7874.5	8361.5	8798.3	9435.4	9206.3	7377.8
57.5°	6818.1	6761.4	6863.6	7458.5	8220.2	8494.1	9027.4	9411.5	9795.6	9375.6	7377.0
60°	7163.8	7096.7	7218.1	7964.7	8937.2	9254.2	9749.2	9825.9	10131.7	9461.0	7322.7
62.5°	7452.9	7412.9	7593.4	8506.0	9738.1	10049.5	10294.6	10202.8	10415.2	9527.3	7195.8
65°	7758.7	7761.1	8052.5	9137.6	10589.2	10799.2	10820.0	10691.4	10652.3	9513.7	6766.2
67.5°	8172.3	8210.6	8696.9	9995.2	11417.2	11579.3	11577.7	11220.8	10825.6	8973.9	5813.6
70°	8609.8	8700.1	9439.4	10976.5	12321.1	12485.6	12400.9	11557.8	10193.2	7256.4	4114.5
72.5°	8536.4	8692.9	9852.2	11595.3	12970.2	13095.6	12545.5	10729.8	8056.5	4217.5	1751.8
75°	6585.7	6767.0	9033.8	10982.1	12289.2	12176.6	10779.3	8349.5	4402.7	1176.9	394.4
77.5°	3478.9	3575.5	5967.7	8366.3	9582.4	9346.8	7593.4	4631.9	1342.2	291.4	177.3
80°	1822.1	1844.5	2600.6	4746.9	5914.2	5915.8	4500.1	2034.5	553.3	149.3	119.0
82.5°	975.7	994.9	1374.2	2193.4	3098.8	2809.0	1723.1	1119.4	321.8	84.6	114.2
85°	234.7	238.7	779.3	1002.1	1218.5	870.3	511.8	939.8	87.0	49.5	92.6
87.5°	90.2	91.8	289.0	433.6	310.6	201.2	239.5	350.5	11.2	19.2	14.4
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°	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6	3535.6
2.5°	3500.5	3479.7	3428.6	3363.9	3306.4	3264.9	3202.6	3161.9	3134.8	3134.0	3123.6
5°	3411.8	3369.5	3259.3	3128.4	3009.4	2902.4	2776.3	2676.5	2602.2	2590.2	2564.7
7.5°	3316.8	3247.4	3078.1	2873.7	2674.1	2471.2	2235.7	2089.6	1964.2	1904.3	1897.9
10°	3258.5	3161.1	2920.8	2625.3	2312.4	1982.6	1674.4	1461.2	1307.1	1263.2	1230.4
12.5°	3246.6	3118.0	2799.4	2392.2	1945.1	1509.1	1168.2	941.4	818.4	779.3	768.9
15°	3258.5	3098.0	2697.2	2161.4	1573.0	1070.7	784.1	652.3	606.0	594.9	594.1
17.5°	3265.7	3074.1	2581.4	1905.1	1212.1	764.9	600.4	562.1	554.9	554.1	555.7
20°	3264.9	3037.4	2443.3	1619.3	901.5	601.2	543.0	535.0	533.4	534.2	533.4
22.5°	3259.3	2994.2	2291.6	1324.7	681.1	537.4	518.2	513.4	512.6	512.6	512.6
25°	3269.7	2959.9	2124.7	1042.8	561.3	507.8	495.8	491.9	491.1	491.1	489.5
27.5°	3307.2	2940.7	1941.9	802.5	507.0	481.5	471.9	471.1	468.7	467.9	469.5
30°	3367.9	2940.7	1741.4	624.4	474.3	454.3	447.1	445.5	444.7	443.9	444.7
32.5°	3474.9	2963.1	1522.7	519.0	443.1	424.0	419.2	421.6	419.2	419.2	419.2
35°	3668.1	3030.2	1293.5	452.7	410.4	394.4	389.7	392.8	391.2	391.2	390.4
37.5°	3950.0	3154.7	1062.8	412.8	381.7	364.9	358.5	363.3	361.7	361.7	360.9
40°	4293.3	3336.0	843.2	382.5	353.7	336.2	330.6	333.0	329.0	329.0	330.6
42.5°	4717.3	3565.9	651.5	352.9	325.8	309.0	305.8	303.4	296.2	292.2	293.0
45°	5188.4	3805.5	507.8	324.2	299.4	285.9	281.1	274.7	262.7	254.7	255.5
47.5°	5609.2	3989.9	412.8	296.2	275.5	265.1	257.9	245.9	228.4	218.8	219.6
50°	5830.4	4017.9	351.3	268.3	253.1	242.7	232.4	214.0	193.2	182.8	182.0
52.5°	5887.1	3886.9	305.8	242.7	230.8	218.8	205.2	180.5	157.3	146.1	144.5
55°	5907.8	3687.3	265.1	218.8	206.8	193.2	175.7	147.7	126.2	115.0	114.2
57.5°	5839.2	3389.5	233.2	197.2	182.8	166.1	144.5	118.2	97.4	88.6	88.6
60°	5686.7	2986.3	208.4	174.1	158.1	138.9	116.6	91.8	72.7	65.5	65.5
62.5°	5382.4	2464.1	185.2	150.1	134.9	115.0	94.2	69.5	51.1	47.1	47.9
65°	4808.3	1869.2	162.1	128.6	115.0	95.0	73.5	49.5	34.3	34.3	35.9
67.5°	3921.3	1298.3	138.1	109.4	99.0	77.5	55.9	34.3	24.0	27.1	30.3
70°	2595.8	728.2	118.2	90.2	84.6	61.5	41.5	23.2	19.2	25.6	31.1
72.5°	979.7	283.5	99.0	72.7	73.5	47.1	29.5	17.6	17.6	27.9	36.7
75°	273.1	138.9	71.1	53.5	57.5	34.3	21.6	15.2	16.8	31.9	43.1
77.5°	160.5	102.2	46.3	31.1	39.1	24.0	14.4	12.0	14.4	27.1	41.5
80°	129.4	54.3	27.1	16.0	21.6	13.6	9.6	7.2	4.0	10.4	21.6
82.5°	129.4	32.7	12.8	11.2	11.2	7.2	4.8	3.2	0.8	0.0	5.6
85°	87.0	13.6	8.0	7.2	5.6	2.4	1.6	0.8	0.0	0.0	0.0
87.5°	14.4	5.6	3.2	1.6	0.8	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)