

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: P192963

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 25616.9 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 320
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: 28.75 FT

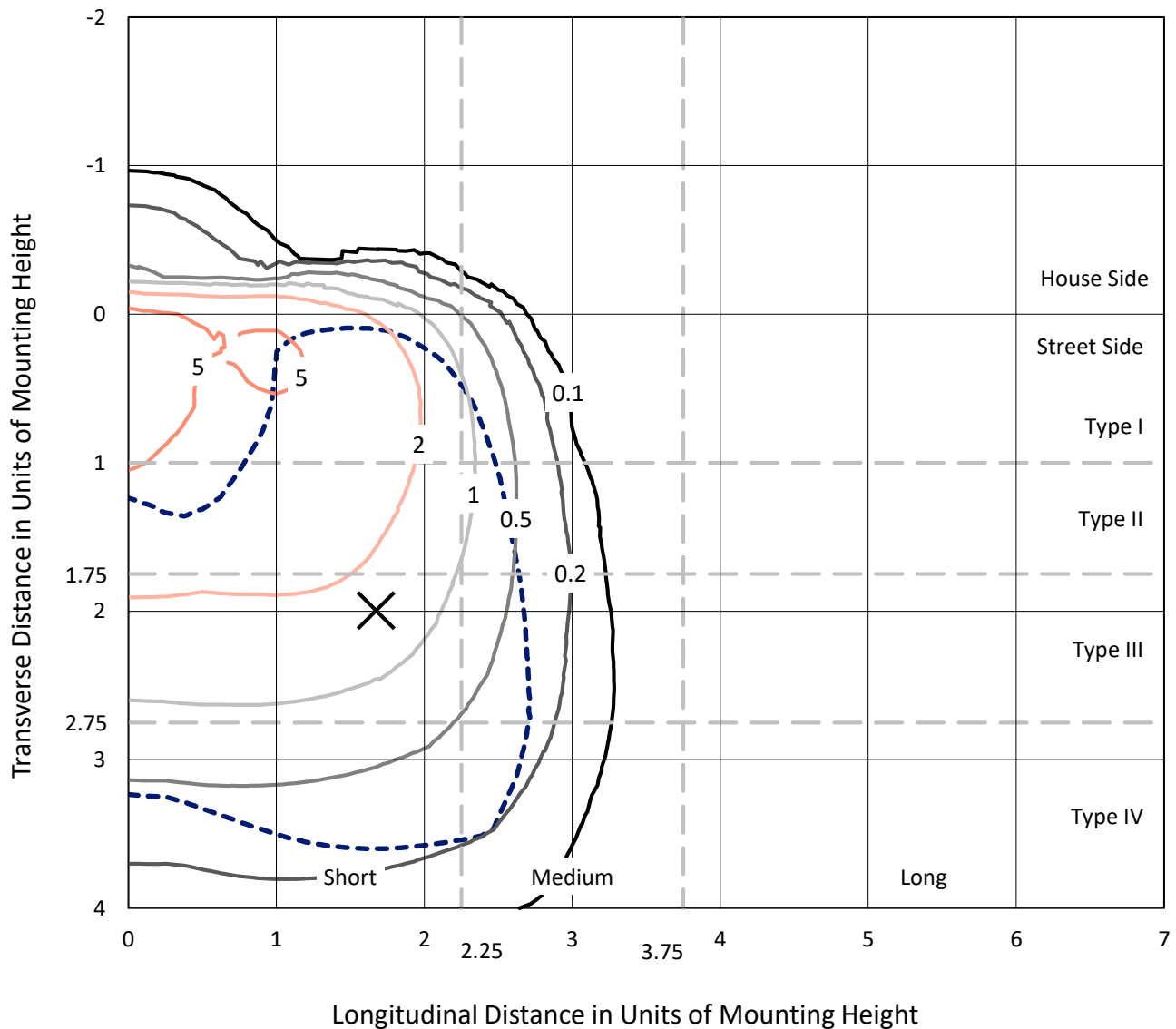


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

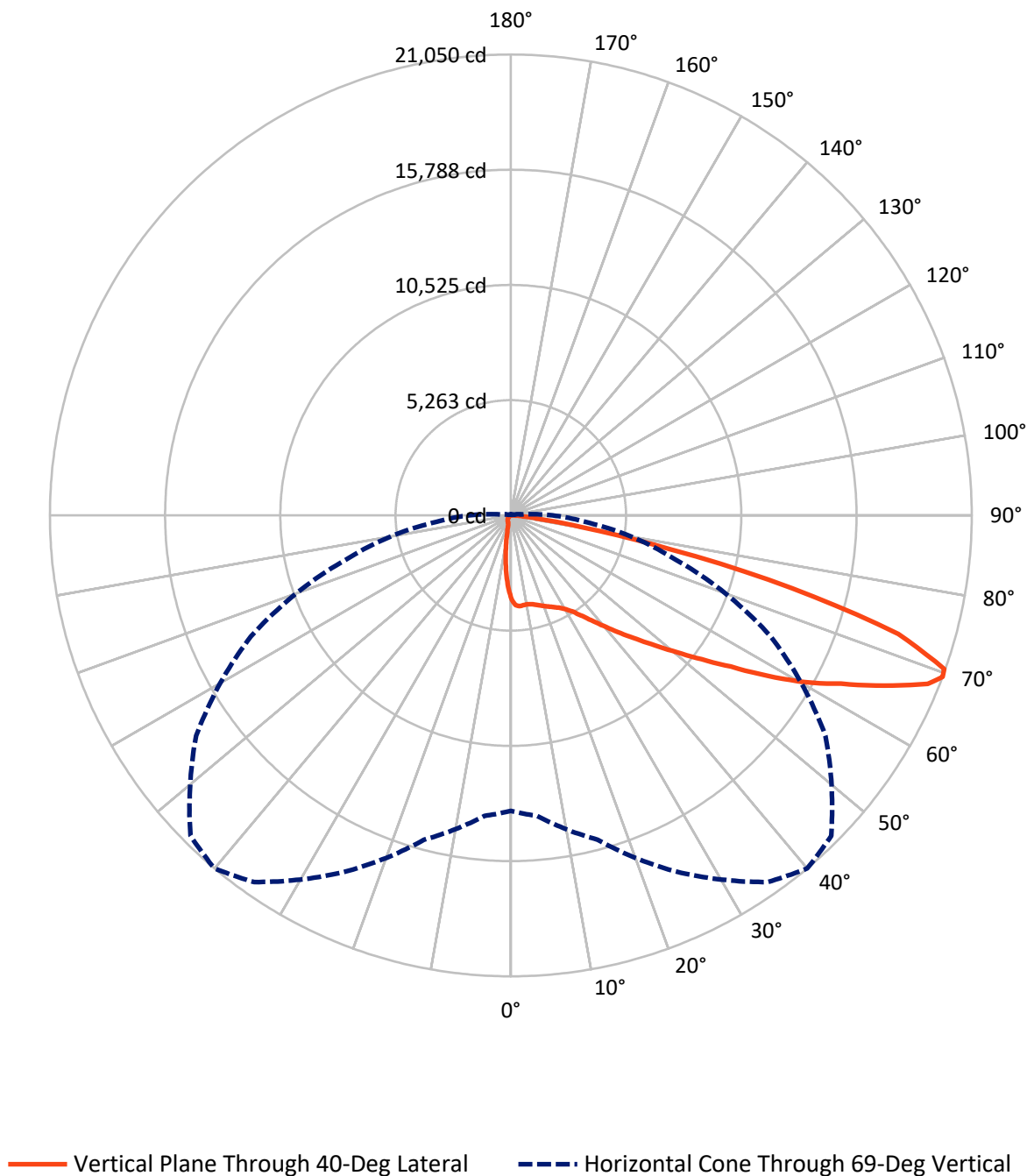


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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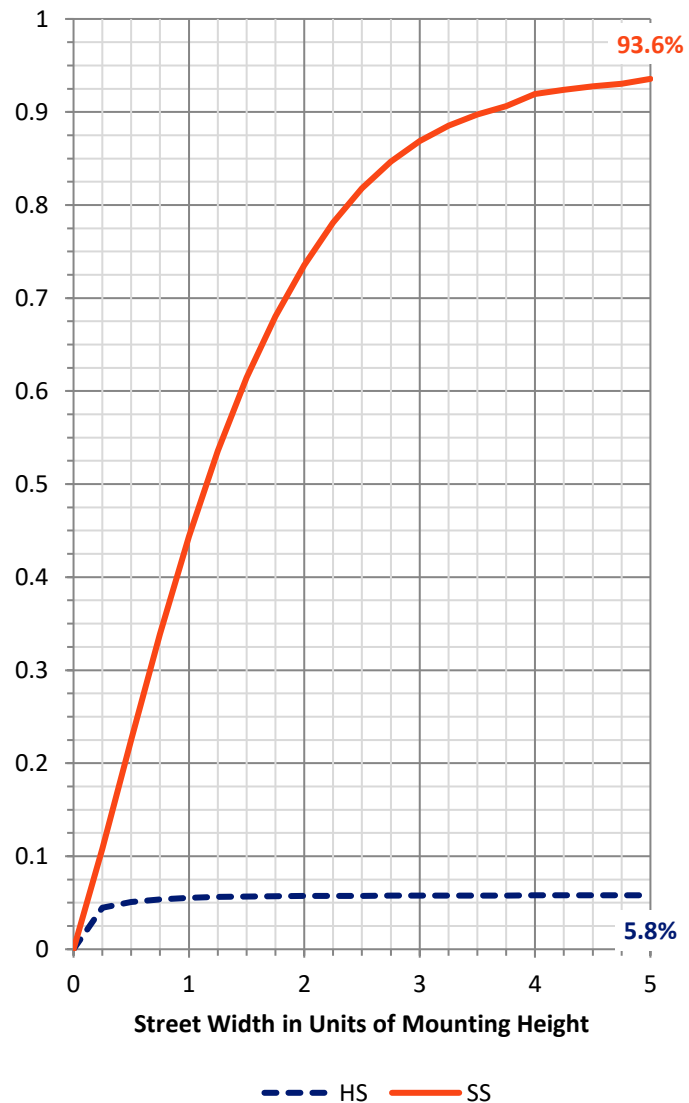
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.7	0.0	1498.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	24118.2	0.0	24118.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	25616.9	0.0	25616.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.3	1.2
10°-20°	763.1	3.0
20°-30°	1285.4	5.0
30°-40°	2104.2	8.2
40°-50°	3643.3	14.2
50°-60°	5738.6	22.4
60°-70°	7494.4	29.3
70°-80°	3860.0	15.1
80°-90°	417.5	1.6
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°	25616.9	100.0
0°-180°	25616.9	100.0

Coefficient of Utilization



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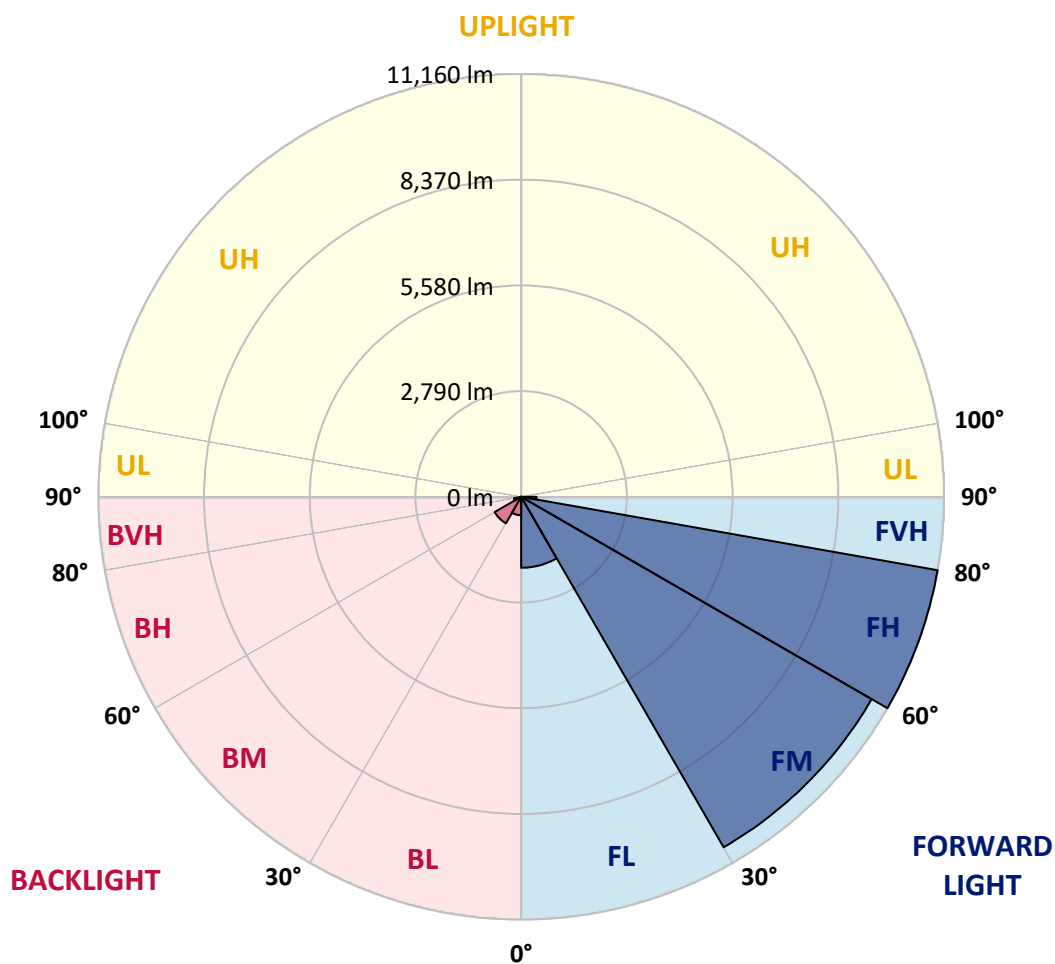
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1873.3	7.3			
FM	(30°-60°)	10680.6	41.7			
FH	(60°-80°)	11159.8	43.6			G4/12000
FVH	(80°-90°)	404.4	1.6			G3/500
BL	(0°-30°)	485.5	1.9	B1/500		
BM	(30°-60°)	805.5	3.1	B1/1000		
BH	(60°-80°)	194.6	0.8	B1/500		G1/500
BVH	(80°-90°)	13.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4
2.5°	4202.4	4179.5	4165.8	4147.5	4124.6	4104.9	4097.2	4040.7	3987.4	3914.2	3830.3
5°	4280.1	4272.6	4248.1	4223.8	4196.3	4165.8	4149.0	4081.9	4005.7	3898.9	3752.6
7.5°	4287.8	4278.7	4248.1	4214.5	4176.4	4140.0	4110.9	4043.8	3973.6	3865.4	3687.1
10°	4275.7	4264.9	4242.1	4205.5	4158.2	4123.1	4094.2	4030.1	3970.6	3873.0	3674.8
12.5°	4261.8	4251.2	4240.6	4222.3	4181.1	4156.7	4132.3	4071.2	4017.9	3935.5	3719.0
15°	4275.7	4269.6	4281.7	4274.1	4251.2	4229.9	4205.5	4150.5	4101.8	4033.2	3799.8
17.5°	4333.6	4333.6	4371.7	4376.3	4354.8	4324.4	4289.3	4234.5	4193.3	4135.4	3895.9
20°	4469.2	4464.7	4513.5	4522.6	4470.8	4423.5	4371.7	4304.6	4272.6	4236.0	3990.4
22.5°	4702.5	4681.2	4710.1	4701.0	4598.8	4525.6	4461.6	4379.3	4362.5	4345.8	4095.7
25°	5006.0	4993.8	5013.6	4923.7	4743.7	4644.6	4568.3	4475.4	4475.4	4492.0	4214.5
27.5°	5446.7	5400.9	5333.8	5175.3	4905.3	4778.8	4696.4	4597.3	4623.3	4685.8	4371.7
30°	5898.1	5847.7	5693.7	5449.8	5102.1	4969.4	4873.3	4769.6	4830.7	4945.0	4582.2
32.5°	6343.3	6286.9	6068.8	5760.8	5384.2	5251.4	5158.4	5044.1	5146.2	5338.4	4890.1
35°	6774.7	6724.5	6472.8	6110.0	5759.3	5649.5	5564.0	5464.9	5596.0	5864.5	5324.6
37.5°	7259.6	7204.8	6898.3	6504.9	6215.2	6135.9	6073.4	5974.3	6202.9	6596.4	5930.0
40°	7855.8	7762.9	7349.7	6957.7	6742.7	6704.5	6662.0	6648.2	7003.5	7547.8	6736.7
42.5°	8539.0	8386.5	7822.3	7435.0	7322.2	7349.7	7339.0	7399.9	8005.3	8731.1	7718.6
45°	9222.1	9025.4	8348.4	7944.4	7959.5	8055.5	8115.1	8359.1	9260.3	10088.2	8775.3
47.5°	9801.5	9607.9	8853.1	8494.8	8677.8	8866.8	9028.4	9490.5	10550.2	11423.9	9597.3
50°	10297.1	10114.1	9388.3	9100.1	9511.8	9816.8	10079.0	10763.6	11937.7	12441.1	10173.5
52.5°	10702.7	10580.7	9943.3	9793.9	10464.9	10911.6	11295.9	12116.2	13166.9	13267.5	10621.8
55°	11097.7	11010.7	10539.5	10618.8	11584.1	12192.5	12678.9	13551.1	14225.0	13956.7	11051.9
57.5°	11552.1	11472.8	11219.7	11664.8	13055.5	13821.0	14351.6	14822.7	15156.8	14661.2	11457.5
60°	12015.6	11969.9	11975.9	12826.8	14745.0	15480.0	15772.7	15894.7	16071.6	15324.4	11480.4
62.5°	12457.7	12544.7	12840.4	14119.8	16362.8	16927.0	17074.9	17195.4	16988.0	15429.7	10606.7
65°	13206.5	13348.3	14054.2	15850.5	18142.3	18746.1	18898.7	18485.3	17132.8	14069.6	8627.4
67.5°	13572.4	13831.6	15091.1	17463.8	19868.5	20539.3	20483.0	18569.2	15374.8	10728.6	5536.6
69°	13496.1	13772.1	15330.6	17957.9	20441.8	21050.1	20691.8	17543.1	13098.2	7772.0	3398.8
70°	13194.2	13473.3	15207.0	17939.5	20514.9	20996.8	20304.5	16276.0	11074.7	5683.0	2125.6
72.5°	11018.4	11259.2	13500.7	16214.9	18898.7	18506.8	16986.5	11276.1	5396.4	1547.6	478.8
75°	6782.4	6916.5	9687.2	12215.3	14273.8	13267.5	11317.2	5609.8	1608.8	437.6	265.3
77.5°	3583.3	3644.4	5303.3	7200.1	9048.3	7486.9	5800.5	2188.1	741.1	274.5	192.1
80°	2118.0	2163.8	2856.0	3292.1	3915.8	3270.7	2319.2	1343.4	530.7	172.3	170.8
82.5°	1212.2	1241.1	2070.7	1829.8	1543.1	1317.4	1154.4	1273.2	318.7	116.0	176.9
85°	445.2	451.4	1164.9	1392.2	918.0	545.9	573.3	1055.2	85.4	73.2	138.8
87.5°	207.4	202.7	599.3	852.3	536.8	346.2	446.8	231.7	33.6	47.3	38.1
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°	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4	3827.4
2.5°	3781.6	3725.0	3622.9	3517.7	3411.1	3328.7	3247.8	3183.9	3162.5	3122.8	3125.9
5°	3665.6	3562.0	3348.5	3132.0	2906.3	2720.2	2544.9	2403.1	2334.6	2264.4	2264.4
7.5°	3565.0	3414.1	3080.1	2727.8	2363.5	2057.1	1781.0	1573.7	1459.2	1367.8	1366.3
10°	3526.9	3322.6	2856.0	2351.3	1843.5	1425.8	1097.8	887.4	779.2	709.1	706.1
12.5°	3543.8	3290.6	2683.7	2003.6	1366.3	916.4	635.9	500.2	454.4	433.1	433.1
15°	3592.5	3281.4	2511.5	1663.6	965.2	573.3	422.4	385.8	382.7	382.7	382.7
17.5°	3652.0	3284.5	2334.6	1332.8	657.2	410.2	364.4	359.9	363.0	363.0	363.0
20°	3712.9	3286.0	2143.8	1026.2	463.6	356.8	343.1	341.6	344.6	344.6	346.2
22.5°	3787.7	3293.6	1953.3	767.0	382.7	336.9	326.3	326.3	327.9	327.9	326.3
25°	3873.0	3308.8	1755.0	568.8	349.2	323.3	314.1	312.6	314.1	312.6	311.1
27.5°	3979.8	3330.2	1534.0	445.2	333.9	309.5	301.9	301.9	300.4	298.9	297.3
30°	4113.9	3354.6	1285.4	378.1	318.7	297.3	289.7	288.2	286.7	283.6	283.6
32.5°	4318.3	3408.1	1039.9	343.1	301.9	280.6	274.5	274.5	271.4	268.3	266.8
35°	4632.4	3513.2	820.3	321.8	283.6	262.2	254.7	254.7	251.7	250.1	248.6
37.5°	5067.0	3673.3	637.4	301.9	265.3	242.4	234.8	233.3	230.2	227.2	225.6
40°	5644.9	3871.5	501.7	283.6	247.0	222.7	216.6	213.5	207.4	202.7	202.7
42.5°	6370.7	4097.2	407.1	263.8	225.6	204.4	199.7	195.1	184.5	180.0	178.4
45°	7130.0	4300.0	344.6	240.9	204.4	186.1	183.0	175.4	161.6	157.0	157.0
47.5°	7677.4	4347.3	303.4	219.6	184.5	166.2	164.7	151.0	138.8	135.7	134.2
50°	8019.1	4254.2	269.9	198.2	166.2	147.9	143.3	126.5	119.0	116.0	114.4
52.5°	8249.3	4088.1	242.4	180.0	149.4	131.1	120.5	108.2	102.1	99.1	99.1
55°	8433.8	3853.2	215.0	163.2	135.7	117.5	102.1	93.0	86.9	83.9	83.9
57.5°	8485.6	3534.5	187.6	149.4	122.0	103.7	86.9	80.9	73.2	71.7	71.7
60°	8109.0	2959.8	166.2	132.6	109.8	89.9	76.3	68.7	60.9	59.4	57.9
62.5°	7116.4	2290.3	146.4	117.5	96.0	77.8	65.5	56.4	50.4	50.4	50.4
65°	5428.3	1535.5	128.1	102.1	83.9	65.5	56.4	45.8	42.7	42.7	44.2
67.5°	3249.4	835.7	109.8	86.9	71.7	54.8	47.3	39.7	38.1	39.7	39.7
69°	1904.5	491.0	99.1	77.8	62.5	48.8	41.2	35.1	38.1	39.7	39.7
70°	1175.6	330.8	91.4	70.2	56.4	44.2	38.1	33.6	36.6	38.1	38.1
72.5°	327.9	170.8	73.2	54.8	45.8	36.6	30.5	30.5	35.1	36.6	36.6
75°	213.5	126.5	56.4	41.2	35.1	29.0	25.9	29.0	33.6	35.1	35.1
77.5°	176.9	103.7	45.8	33.6	29.0	27.5	24.4	25.9	30.5	32.0	32.0
80°	161.6	73.2	36.6	30.5	25.9	24.4	22.8	21.3	27.5	29.0	29.0
82.5°	154.0	57.9	32.0	27.5	24.4	21.3	19.7	21.3	24.4	25.9	27.5
85°	96.0	38.1	29.0	25.9	21.3	19.7	19.7	19.7	22.8	24.4	24.4
87.5°	35.1	30.5	25.9	21.3	18.2	18.2	18.2	18.2	19.7	22.8	22.8
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)