

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: P193754

Luminaire Tested: **GAN-AF-06-LED-U-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193754
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-06-LED-U-SL4-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 23578 lumens
Efficiency: N/A
Efficacy: 70.8 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): 333
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

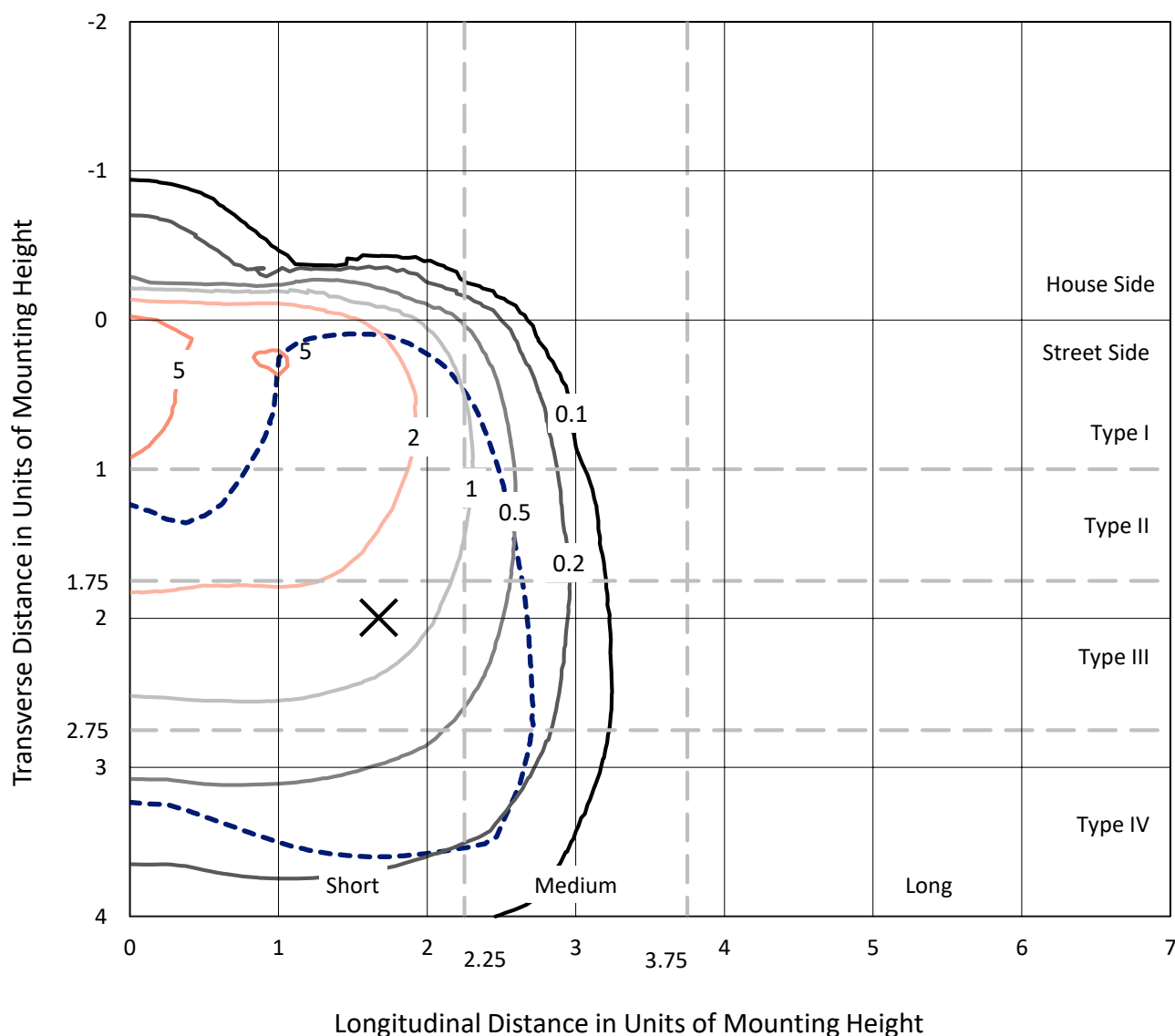


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

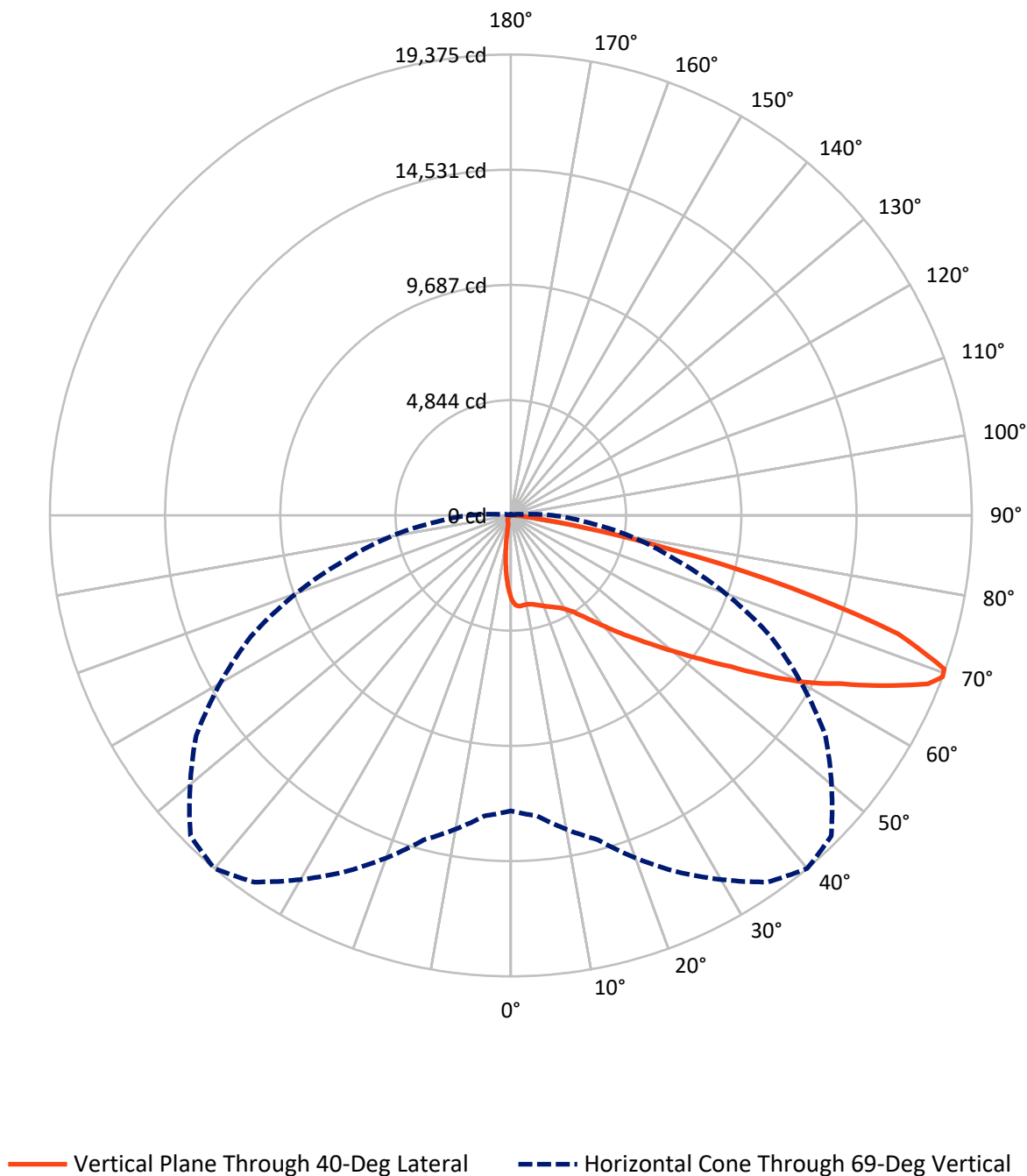


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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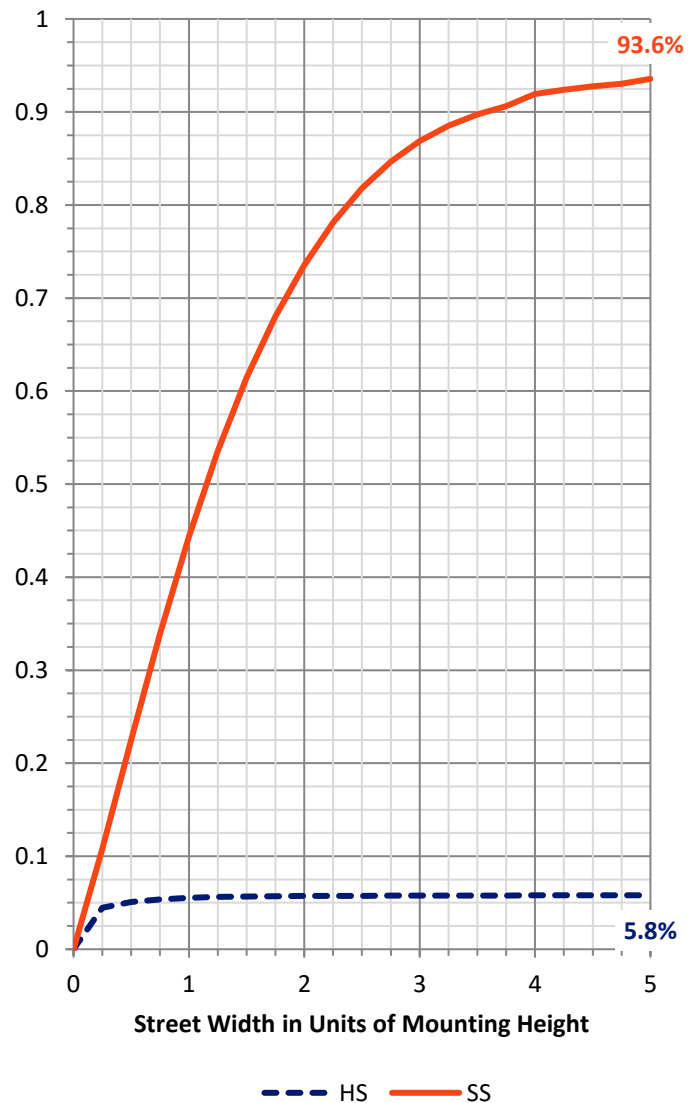
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.5	0.0	1379.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	22198.6	0.0	22198.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	23578.0	0.0	23578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.6	1.2
10°-20°	702.4	3.0
20°-30°	1183.1	5.0
30°-40°	1936.7	8.2
40°-50°	3353.4	14.2
50°-60°	5281.9	22.4
60°-70°	6897.9	29.3
70°-80°	3552.7	15.1
80°-90°	384.3	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°	23578.0	100.0
0°-180°	23578.0	100.0

Coefficient of Utilization



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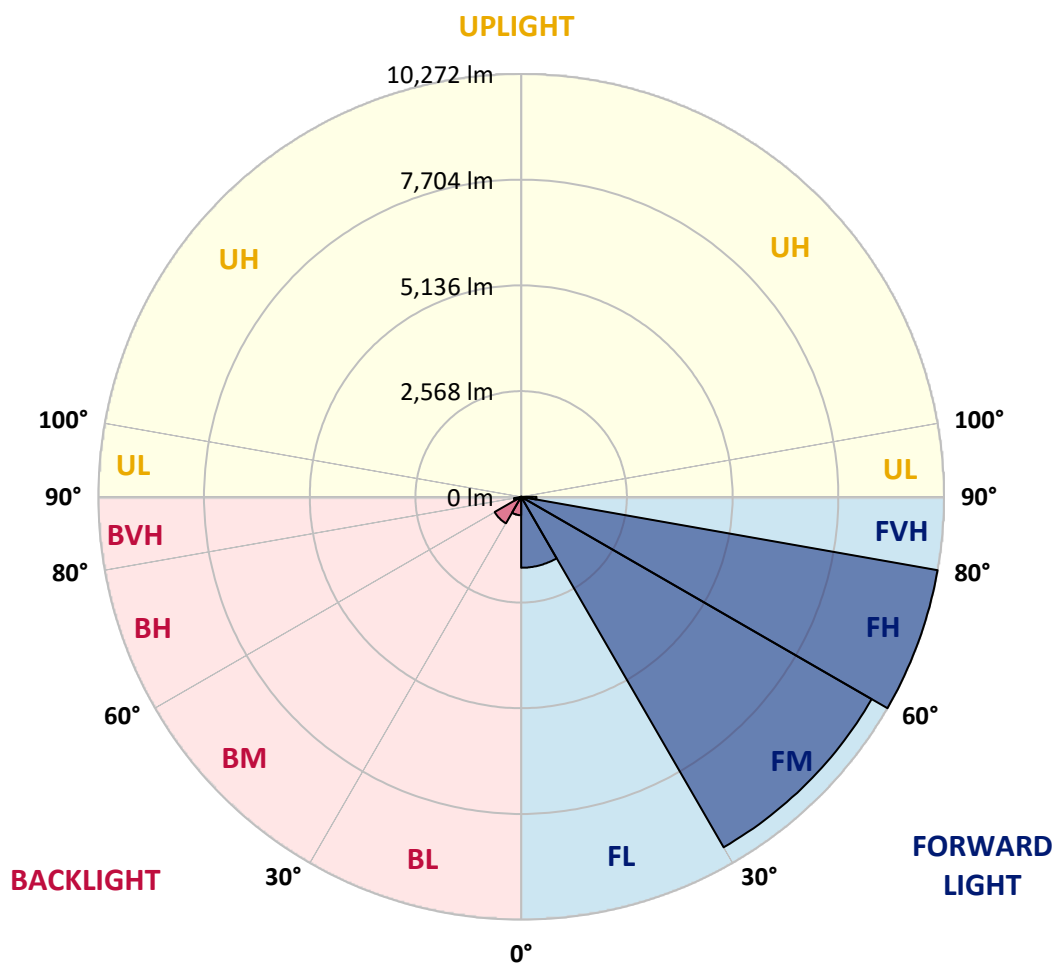
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1724.2	7.3			
FM	(30°-60°)	9830.5	41.7			
FH	(60°-80°)	10271.5	43.6			G4/12000
FVH	(80°-90°)	372.2	1.6			G3/500
BL	(0°-30°)	446.8	1.9	B1/500		
BM	(30°-60°)	741.4	3.1	B1/1000		
BH	(60°-80°)	179.1	0.8	B1/500		G1/500
BVH	(80°-90°)	12.1	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°	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7
2.5°	3867.9	3846.9	3834.2	3817.4	3796.3	3778.1	3771.1	3719.2	3670.0	3602.7	3525.5
5°	3939.5	3932.5	3910.0	3887.6	3862.3	3834.2	3818.8	3757.1	3686.9	3588.6	3453.9
7.5°	3946.5	3938.1	3910.0	3879.2	3844.1	3810.4	3783.7	3722.0	3657.4	3557.8	3393.6
10°	3935.3	3925.5	3904.4	3870.7	3827.2	3794.9	3768.3	3709.3	3654.6	3564.8	3382.3
12.5°	3922.7	3912.8	3903.0	3886.2	3848.3	3825.8	3803.4	3747.2	3698.1	3622.3	3423.0
15°	3935.3	3929.7	3940.9	3933.9	3912.8	3893.2	3870.7	3820.2	3775.3	3712.1	3497.4
17.5°	3988.6	3988.6	4023.7	4027.9	4008.3	3980.2	3947.9	3897.4	3859.5	3806.2	3585.8
20°	4113.5	4109.3	4154.2	4162.7	4114.9	4071.4	4023.7	3962.0	3932.5	3898.8	3672.8
22.5°	4328.3	4308.6	4335.3	4326.9	4232.8	4165.5	4106.5	4030.7	4015.3	3999.8	3769.7
25°	4607.5	4596.3	4614.6	4531.8	4366.2	4274.9	4204.8	4119.1	4119.1	4134.6	3879.2
27.5°	5013.1	4971.0	4909.3	4763.3	4514.9	4398.4	4322.6	4231.4	4255.3	4312.8	4023.7
30°	5428.6	5382.3	5240.5	5016.0	4696.0	4573.9	4485.4	4390.0	4446.1	4551.4	4217.4
32.5°	5838.4	5786.4	5585.8	5302.3	4955.6	4833.5	4747.9	4642.6	4736.7	4913.5	4500.9
35°	6235.6	6189.2	5957.7	5623.6	5300.9	5199.8	5121.2	5030.0	5150.7	5397.7	4900.9
37.5°	6681.9	6631.3	6349.2	5987.1	5720.5	5647.5	5590.0	5498.7	5709.3	6071.4	5458.0
40°	7230.6	7145.0	6764.7	6404.0	6206.1	6171.0	6131.7	6119.1	6446.1	6947.1	6200.5
42.5°	7859.4	7719.0	7199.7	6843.3	6739.4	6764.7	6754.8	6811.0	7368.1	8036.2	7104.3
45°	8488.1	8307.1	7683.9	7312.0	7326.0	7414.5	7469.2	7693.7	8523.2	9285.3	8076.9
47.5°	9021.4	8843.2	8148.5	7818.7	7987.1	8161.1	8309.9	8735.1	9710.5	10514.7	8833.4
50°	9477.5	9309.1	8641.1	8375.8	8754.8	9035.4	9276.8	9907.0	10987.7	11450.8	9363.9
52.5°	9850.9	9738.6	9151.9	9014.4	9631.9	10043.1	10396.8	11151.9	12118.8	12211.5	9776.5
55°	10214.4	10134.4	9700.7	9773.7	10662.1	11222.0	11669.7	12472.5	13092.8	12845.8	10172.2
57.5°	10632.6	10559.6	10326.6	10736.4	12016.4	12720.9	13209.3	13643.0	13950.4	13494.2	10545.6
60°	11059.2	11017.1	11022.7	11805.9	13571.4	14247.9	14517.3	14629.6	14792.4	14104.7	10566.6
62.5°	11466.2	11546.2	11818.5	12996.0	15060.5	15579.8	15715.9	15826.8	15635.9	14201.6	9762.4
65°	12155.3	12285.9	12935.7	14588.9	16698.3	17254.1	17394.4	17014.1	15769.2	12949.7	7940.8
67.5°	12492.2	12730.7	13890.0	16073.8	18287.0	18904.6	18852.6	17091.3	14151.0	9874.7	5095.9
69°	12422.0	12676.0	14110.3	16528.5	18814.7	19374.7	19044.9	16146.8	12055.7	7153.4	3128.3
70°	12144.1	12400.9	13996.7	16511.7	18882.1	19325.6	18688.4	14980.5	10193.3	5230.7	1956.4
72.5°	10141.4	10363.1	12426.2	14924.4	17394.4	17033.7	15634.5	10378.6	4966.8	1424.5	440.7
75°	6242.6	6366.1	8916.2	11243.1	13137.8	12211.5	10416.5	5163.3	1480.6	402.8	244.2
77.5°	3298.1	3354.3	4881.2	6627.1	8328.1	6891.0	5338.7	2014.0	682.1	252.6	176.8
80°	1949.4	1991.5	2628.7	3030.1	3604.1	3010.4	2134.7	1236.4	488.4	158.6	157.2
82.5°	1115.7	1142.4	1905.9	1684.1	1420.3	1212.6	1062.4	1171.9	293.3	106.7	162.8
85°	409.8	415.4	1072.2	1281.4	844.9	502.4	527.7	971.2	78.6	67.4	127.7
87.5°	190.9	186.7	551.6	784.5	494.0	318.6	411.2	213.3	30.9	43.5	35.1
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°	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7	3522.7
2.5°	3480.6	3428.6	3334.6	3237.8	3139.5	3063.7	2989.4	2930.4	2910.8	2874.3	2877.1
5°	3373.9	3278.5	3082.0	2882.7	2675.0	2503.8	2342.4	2211.8	2148.7	2084.1	2084.1
7.5°	3281.3	3142.3	2835.0	2510.8	2175.4	1893.3	1639.2	1448.4	1343.1	1258.9	1257.5
10°	3246.2	3058.1	2628.7	2164.1	1696.8	1312.2	1010.5	816.8	717.2	652.6	649.8
12.5°	3261.6	3028.7	2470.1	1844.1	1257.5	843.5	585.2	460.3	418.2	398.6	398.6
15°	3306.5	3020.2	2311.5	1531.2	888.4	527.7	388.8	355.1	352.3	352.3	352.3
17.5°	3361.3	3023.0	2148.7	1226.6	604.9	377.5	335.4	331.2	334.0	334.0	334.0
20°	3417.4	3024.4	1973.3	944.5	426.7	328.4	315.8	314.4	317.2	317.2	318.6
22.5°	3486.2	3031.5	1797.8	705.9	352.3	310.2	300.3	300.3	301.7	301.7	300.3
25°	3564.8	3045.5	1615.4	523.5	321.4	297.5	289.1	287.7	289.1	287.7	286.3
27.5°	3663.0	3065.1	1411.9	409.8	307.4	284.9	277.9	277.9	276.5	275.1	273.7
30°	3786.5	3087.6	1183.1	348.1	293.3	273.7	266.7	265.3	263.8	261.0	261.0
32.5°	3974.6	3136.7	957.2	315.8	277.9	258.2	252.6	252.6	249.8	247.0	245.6
35°	4263.7	3233.6	755.1	296.1	261.0	241.4	234.4	234.4	231.6	230.2	228.8
37.5°	4663.7	3380.9	586.6	277.9	244.2	223.1	216.1	214.7	211.9	209.1	207.7
40°	5195.6	3563.4	461.7	261.0	227.4	204.9	199.3	196.5	190.9	186.7	186.7
42.5°	5863.6	3771.1	374.7	242.8	207.7	188.1	183.9	179.6	169.8	165.6	164.2
45°	6562.6	3957.7	317.2	221.7	188.1	171.2	168.4	161.4	148.8	144.6	144.6
47.5°	7066.4	4001.3	279.3	202.1	169.8	153.0	151.6	138.9	127.7	124.9	123.5
50°	7380.8	3915.6	248.4	182.4	153.0	136.1	131.9	116.5	109.5	106.7	105.3
52.5°	7592.7	3762.7	223.1	165.6	137.5	120.7	110.9	99.6	94.0	91.2	91.2
55°	7762.5	3546.5	197.9	150.2	124.9	108.1	94.0	85.6	80.0	77.2	77.2
57.5°	7810.2	3253.2	172.6	137.5	112.3	95.4	80.0	74.4	67.4	66.0	66.0
60°	7463.6	2724.1	153.0	122.1	101.0	82.8	70.2	63.2	56.1	54.7	53.3
62.5°	6549.9	2108.0	134.7	108.1	88.4	71.6	60.3	51.9	46.3	46.3	46.3
65°	4996.3	1413.3	117.9	94.0	77.2	60.3	51.9	42.1	39.3	39.3	40.7
67.5°	2990.8	769.1	101.0	80.0	66.0	50.5	43.5	36.5	35.1	36.5	36.5
69°	1752.9	451.9	91.2	71.6	57.5	44.9	37.9	32.3	35.1	36.5	36.5
70°	1082.1	304.5	84.2	64.6	51.9	40.7	35.1	30.9	33.7	35.1	35.1
72.5°	301.7	157.2	67.4	50.5	42.1	33.7	28.1	28.1	32.3	33.7	33.7
75°	196.5	116.5	51.9	37.9	32.3	26.7	23.9	26.7	30.9	32.3	32.3
77.5°	162.8	95.4	42.1	30.9	26.7	25.3	22.5	23.9	28.1	29.5	29.5
80°	148.8	67.4	33.7	28.1	23.9	22.5	21.1	19.6	25.3	26.7	26.7
82.5°	141.7	53.3	29.5	25.3	22.5	19.6	18.2	19.6	22.5	23.9	25.3
85°	88.4	35.1	26.7	23.9	19.6	18.2	18.2	18.2	21.1	22.5	22.5
87.5°	32.3	28.1	23.9	19.6	16.8	16.8	16.8	16.8	18.2	21.1	21.1
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)