

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: P323447

Luminaire Tested: **GAN-SA3C-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15429 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

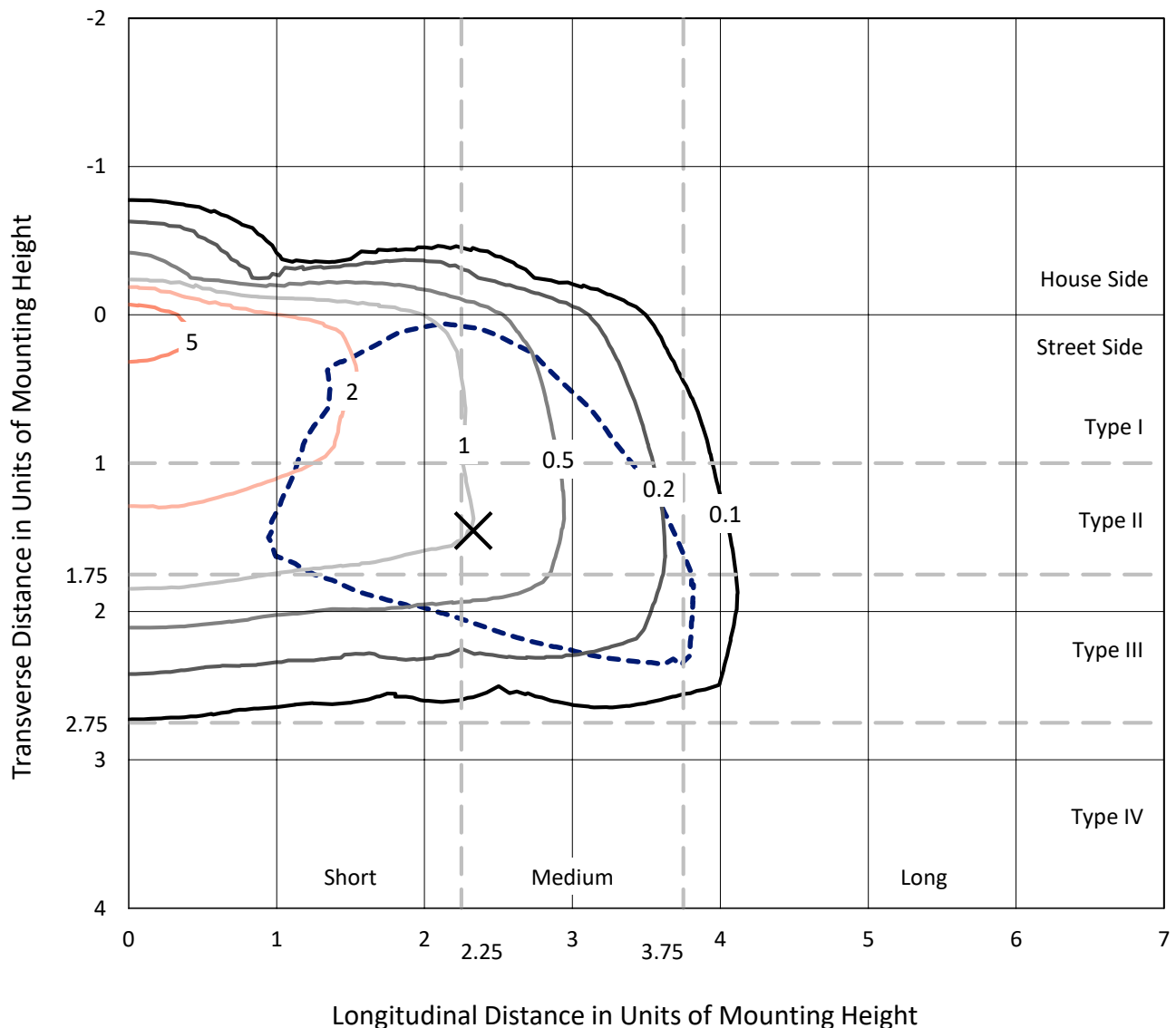
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

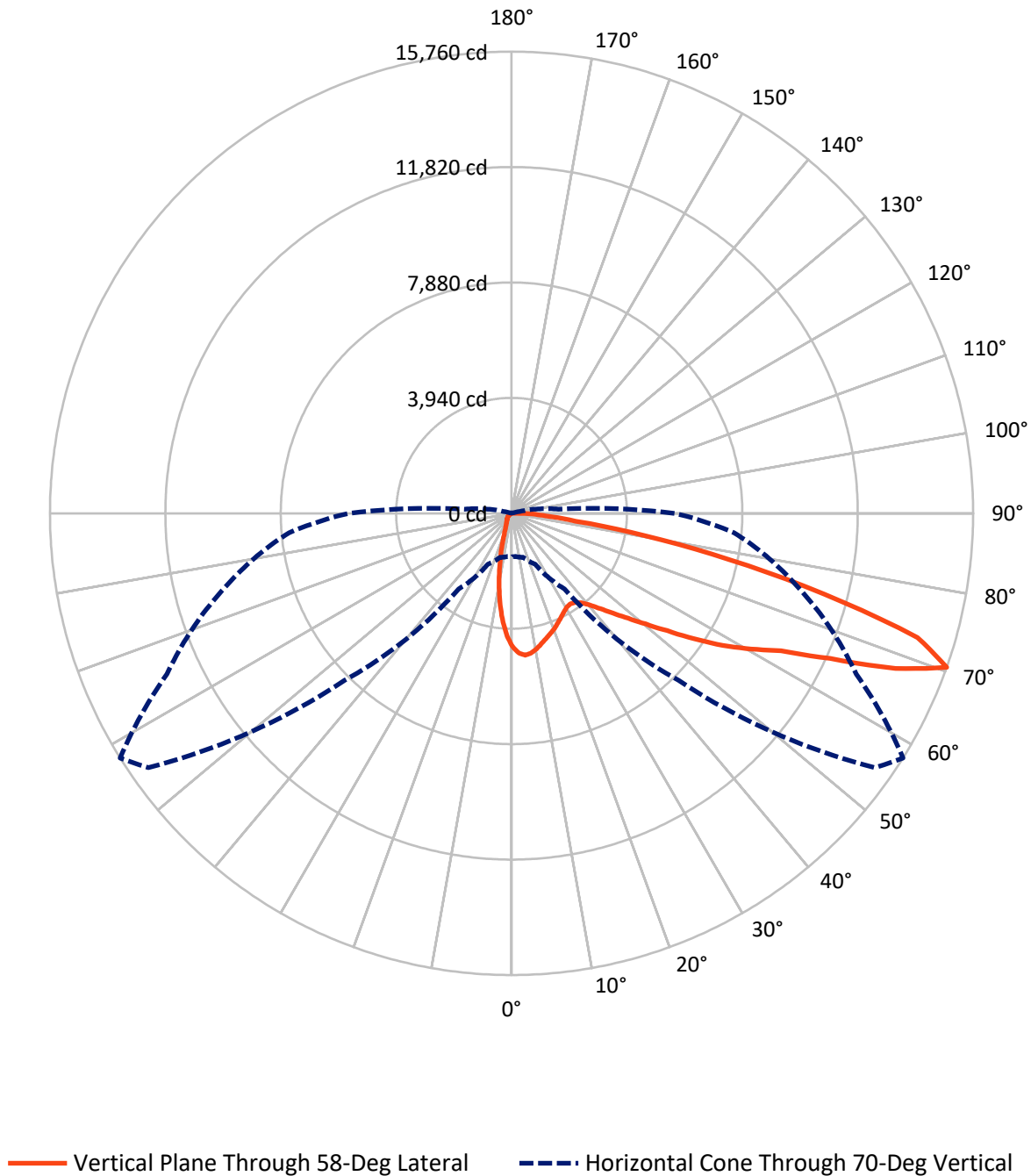
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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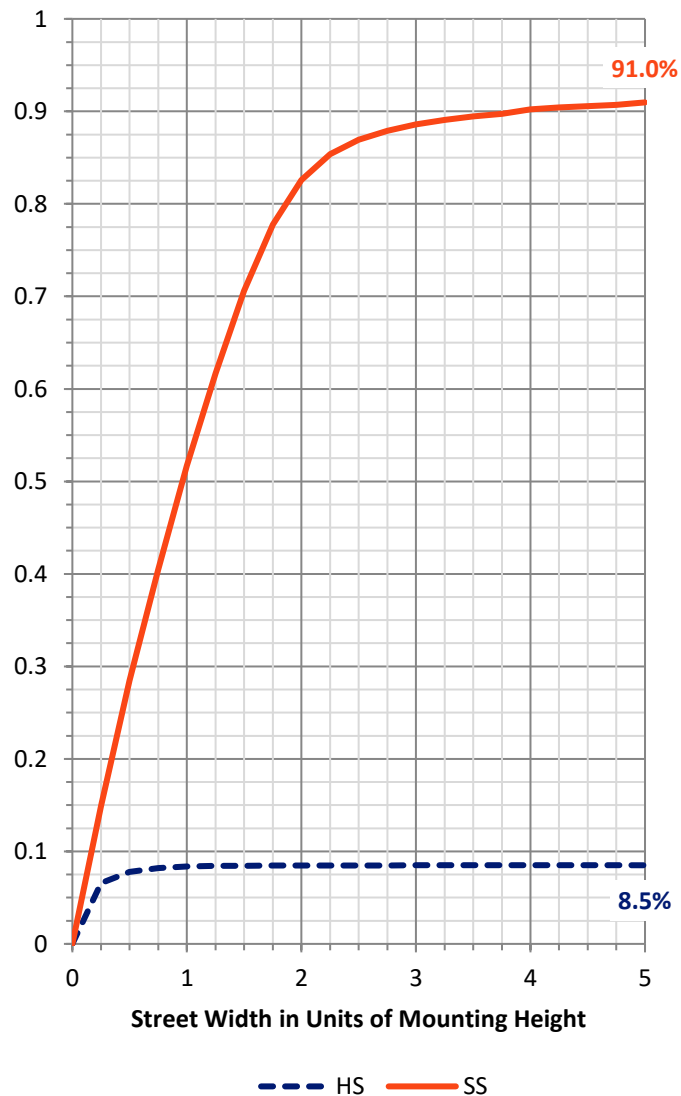
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.4	0.0	1320.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	14108.6	0.0	14108.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	15429.0	0.0	15429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.7	2.4
10°-20°	782.2	5.1
20°-30°	1028.3	6.7
30°-40°	1361.9	8.8
40°-50°	2035.6	13.2
50°-60°	3261.0	21.1
60°-70°	4110.5	26.6
70°-80°	2217.2	14.4
80°-90°	259.5	1.7
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°	15429.0	100.0
0°-180°	15429.0	100.0

Coefficient of Utilization



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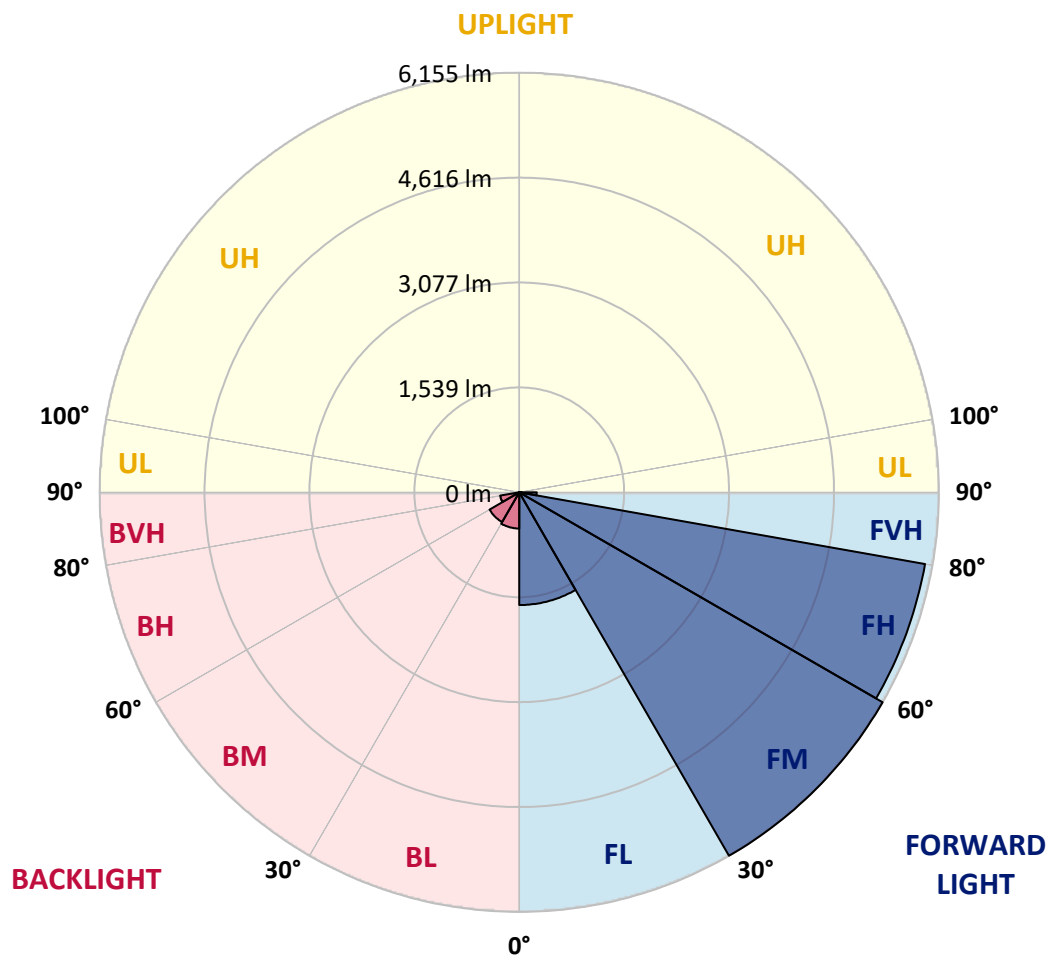
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1652.8	10.7			
FM	(30°-60°)	6154.9	39.9			
FH	(60°-80°)	6043.7	39.2			G3/7500
FVH	(80°-90°)	257.3	1.7			G3/500
BL	(0°-30°)	530.5	3.4	B2/1000		
BM	(30°-60°)	503.7	3.3	B1/1000		
BH	(60°-80°)	284.0	1.8	B1/500		G1/500
BVH	(80°-90°)	2.2	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7
2.5°	4935.5	4923.3	4918.9	4911.2	4881.6	4852.8	4795.7	4779.6	4743.7	4658.4	4567.9
5°	4939.4	4938.7	4952.2	4949.0	4938.7	4925.3	4884.2	4863.0	4802.1	4680.2	4514.7
7.5°	4701.4	4713.6	4743.7	4768.1	4796.3	4832.9	4838.0	4817.5	4767.4	4635.9	4416.5
10°	4381.9	4401.1	4443.5	4491.6	4565.4	4638.5	4703.9	4701.4	4684.0	4554.4	4298.5
12.5°	4061.7	4084.2	4132.9	4204.2	4308.7	4428.1	4544.8	4560.9	4589.7	4481.3	4189.4
15°	3781.4	3800.6	3848.7	3936.0	4065.6	4226.0	4397.3	4426.8	4501.2	4424.2	4098.3
17.5°	3543.3	3555.5	3590.8	3687.7	3837.8	4032.2	4254.8	4312.6	4423.6	4379.3	4019.4
20°	3377.2	3379.1	3402.2	3470.2	3620.3	3837.8	4107.3	4190.0	4341.4	4340.8	3937.9
22.5°	3295.1	3288.6	3293.1	3332.3	3442.6	3652.4	3959.7	4057.9	4267.7	4308.1	3855.1
25°	3279.7	3274.5	3261.7	3266.8	3333.6	3490.1	3810.9	3924.4	4202.9	4288.2	3783.3
27.5°	3327.8	3332.9	3311.1	3288.0	3293.1	3384.9	3678.7	3810.2	4150.3	4288.2	3732.6
30°	3424.7	3427.2	3411.2	3381.0	3340.6	3355.4	3587.0	3718.5	4124.0	4317.7	3700.5
32.5°	3531.8	3545.9	3544.0	3519.6	3461.9	3402.2	3565.2	3685.1	4122.0	4383.1	3697.3
35°	3664.6	3680.6	3707.6	3702.5	3642.1	3544.0	3639.6	3733.9	4159.9	4490.9	3732.0
37.5°	3805.7	3830.1	3887.9	3915.5	3876.3	3765.3	3806.4	3873.7	4261.3	4665.4	3819.9
40°	3942.4	3970.0	4075.2	4183.6	4154.1	4039.9	4059.2	4113.1	4441.5	4916.3	3986.7
42.5°	4076.5	4117.5	4272.2	4450.5	4485.8	4394.7	4405.0	4447.9	4709.1	5261.4	4259.3
45°	4236.9	4283.1	4512.1	4732.2	4826.5	4786.7	4830.3	4858.5	5058.7	5717.6	4626.9
47.5°	4472.3	4525.6	4806.6	5057.4	5223.0	5248.6	5336.5	5355.1	5500.7	6248.8	5106.2
50°	4931.7	4946.4	5200.5	5428.3	5666.9	5820.9	5921.0	5935.1	6035.8	6829.4	5704.8
52.5°	5509.7	5519.4	5663.1	5815.8	6087.1	6401.5	6635.7	6655.6	6676.7	7395.3	6295.6
55°	6083.9	6082.6	6177.6	6267.4	6577.9	7034.7	7542.8	7555.0	7403.0	7932.3	6747.3
57.5°	6442.6	6477.2	6621.6	6737.0	7170.7	7756.5	8461.6	8506.5	8165.8	8330.0	7193.8
60°	6328.4	6345.0	6665.2	7092.5	7909.2	8782.3	9391.2	9402.7	8739.4	8727.2	7758.4
62.5°	5391.7	5400.7	5903.6	6784.5	8283.2	10112.9	10512.6	10324.7	9398.9	9278.3	8434.0
65°	3695.4	3753.8	4174.0	5262.7	7596.1	10947.6	12248.7	11937.5	10404.2	10072.5	9044.7
67.5°	2176.2	2164.0	2371.9	3173.8	5579.0	10393.3	14444.8	14135.5	11775.2	10604.4	8865.7
70°	1486.5	1478.2	1557.7	1921.5	3149.4	8062.5	15135.7	15760.0	12985.8	10246.4	7630.1
72.5°	1061.1	1065.6	1183.0	1492.9	1977.3	4697.5	13016.0	14493.5	12606.7	8932.5	5799.7
75°	720.5	732.7	900.8	1224.7	1733.5	2389.8	9236.6	11017.5	10265.6	6492.0	3333.6
77.5°	387.5	401.0	599.2	986.7	1567.3	1660.4	5941.5	7582.6	6448.3	2918.5	966.2
80°	161.7	169.4	280.4	717.3	1354.3	1458.3	3495.9	4598.1	2747.8	575.5	215.6
82.5°	69.9	73.8	116.8	427.9	1012.4	1231.2	1850.9	2212.1	832.7	126.4	108.4
85°	13.5	14.1	48.1	226.5	646.1	694.8	1199.7	1176.0	374.0	54.5	78.9
87.5°	0.0	0.0	11.5	71.2	189.9	378.5	732.0	723.0	127.0	26.3	29.5
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°	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7	4557.7
2.5°	4521.7	4477.5	4384.4	4269.6	4181.7	4084.8	4007.8	3910.3	3868.0	3869.9	3846.8
5°	4420.4	4329.3	4123.3	3863.5	3663.3	3456.7	3279.0	3102.0	2997.4	2963.4	2931.3
7.5°	4275.4	4131.0	3802.5	3402.2	3063.5	2732.4	2444.3	2190.9	2030.5	1952.3	1923.4
10°	4111.8	3909.0	3433.6	2906.3	2422.5	1974.7	1601.3	1276.7	1147.1	1059.2	1036.8
12.5°	3968.1	3693.5	3073.1	2397.5	1823.3	1283.1	927.1	725.0	637.1	602.4	596.7
15°	3832.7	3492.0	2726.0	1936.9	1262.6	789.8	589.6	520.9	500.4	494.6	494.6
17.5°	3705.0	3300.2	2386.6	1483.3	835.3	553.7	488.2	472.8	466.4	465.8	466.4
20°	3571.6	3108.4	2053.0	1086.8	583.2	469.0	451.0	442.7	440.8	440.8	440.8
22.5°	3443.9	2916.5	1728.4	776.3	467.7	427.9	418.9	413.2	411.2	410.6	409.3
25°	3321.4	2734.3	1411.4	548.5	410.6	392.0	384.3	376.6	370.8	367.6	365.7
27.5°	3220.6	2572.0	1116.3	440.1	370.8	354.8	345.2	333.6	319.5	313.1	310.5
30°	3140.4	2423.8	860.3	371.5	333.6	317.6	302.8	282.9	262.4	251.5	250.9
32.5°	3077.6	2278.2	653.1	328.5	300.3	280.4	259.2	234.2	210.4	198.2	197.6
35°	3046.8	2149.9	499.1	297.0	270.7	245.7	219.4	191.8	168.7	157.2	155.9
37.5°	3067.3	2041.4	389.4	270.7	245.7	216.8	186.1	157.2	136.7	126.4	125.7
40°	3142.4	1972.2	316.3	248.3	224.5	189.3	155.9	129.0	111.6	103.3	102.6
42.5°	3302.1	1946.5	270.1	229.7	204.0	163.6	129.6	106.5	90.5	84.7	83.4
45°	3569.0	1984.4	238.7	211.7	182.8	139.2	107.1	87.3	73.1	68.6	68.0
47.5°	3924.4	2083.8	216.2	194.4	163.6	117.4	89.2	70.6	59.7	55.2	54.5
50°	4382.5	2241.6	197.6	177.1	145.6	99.4	73.8	55.8	46.2	43.0	43.0
52.5°	4881.0	2429.6	180.9	161.0	127.7	82.8	59.7	43.0	36.6	32.7	32.7
55°	5292.9	2593.8	163.0	148.8	105.9	68.6	45.6	32.7	26.9	25.0	25.0
57.5°	5704.1	2769.0	142.4	127.7	84.7	55.8	34.6	24.4	19.9	18.6	18.6
60°	6237.3	2983.3	122.5	103.9	66.7	42.3	25.7	17.3	14.8	14.1	14.1
62.5°	6823.6	3109.0	104.6	83.4	52.0	31.4	18.6	11.5	10.9	10.9	10.3
65°	7182.3	2931.3	87.9	66.7	40.4	23.7	12.2	8.3	9.6	9.0	7.7
67.5°	6724.8	2294.9	71.9	52.0	31.4	18.0	7.7	5.8	10.3	8.3	6.4
70°	5568.1	1606.5	55.8	36.6	25.0	15.4	5.1	3.8	10.9	8.3	5.1
72.5°	4166.9	1075.3	44.3	24.4	18.6	13.5	4.5	1.9	9.6	7.1	4.5
75°	2276.9	433.1	35.3	15.4	11.5	9.6	3.2	1.3	6.4	5.1	3.2
77.5°	599.2	114.2	25.7	10.3	6.4	3.8	1.9	0.6	3.2	2.6	1.3
80°	152.7	44.3	16.7	7.1	4.5	1.9	0.0	0.0	0.6	0.0	0.0
82.5°	81.5	18.6	10.3	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.6	12.2	5.8	3.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	3.8	1.9	0.0	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)