

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: P323137

Luminaire Tested: **GAN-SA3D-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16408 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

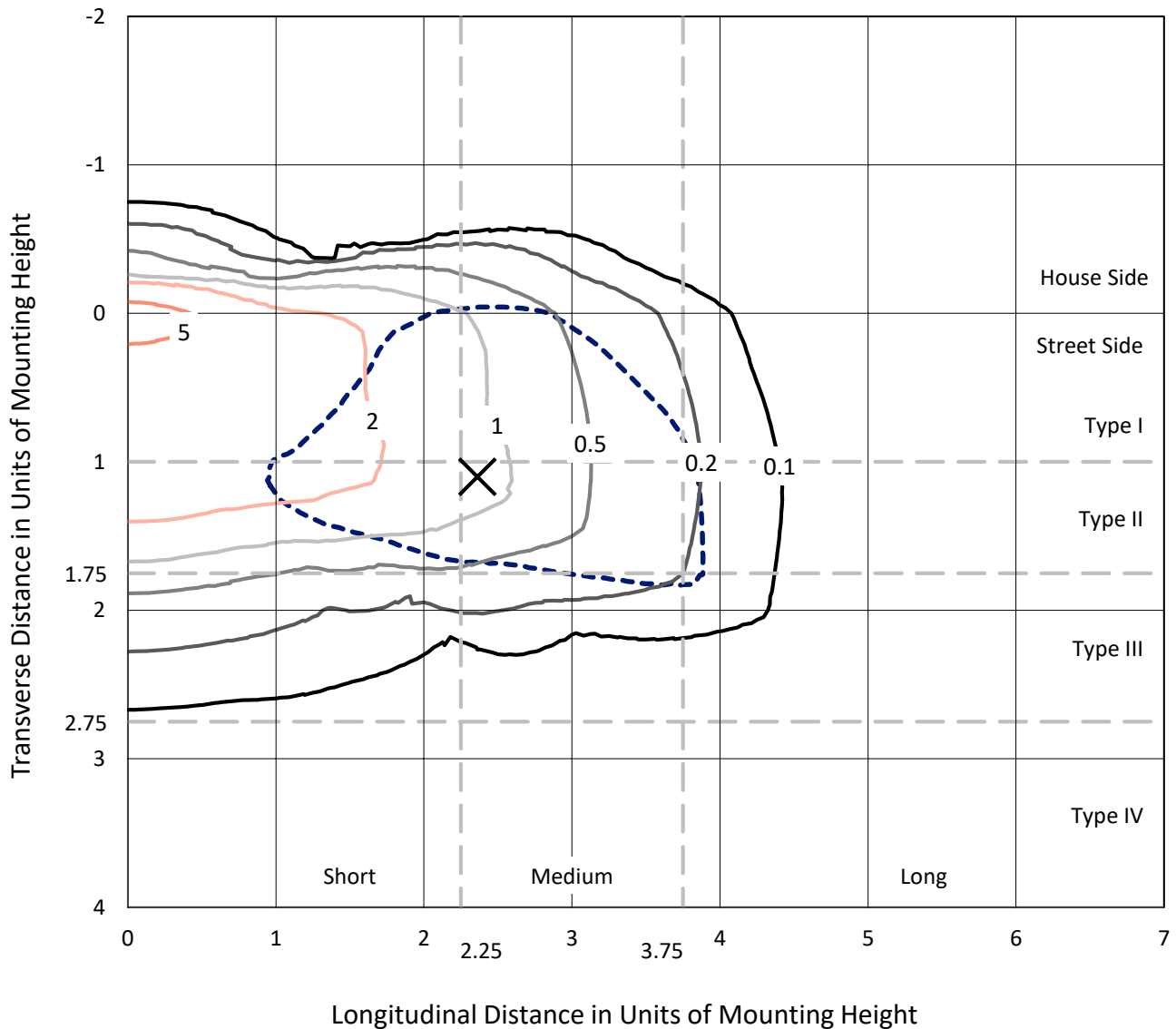
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

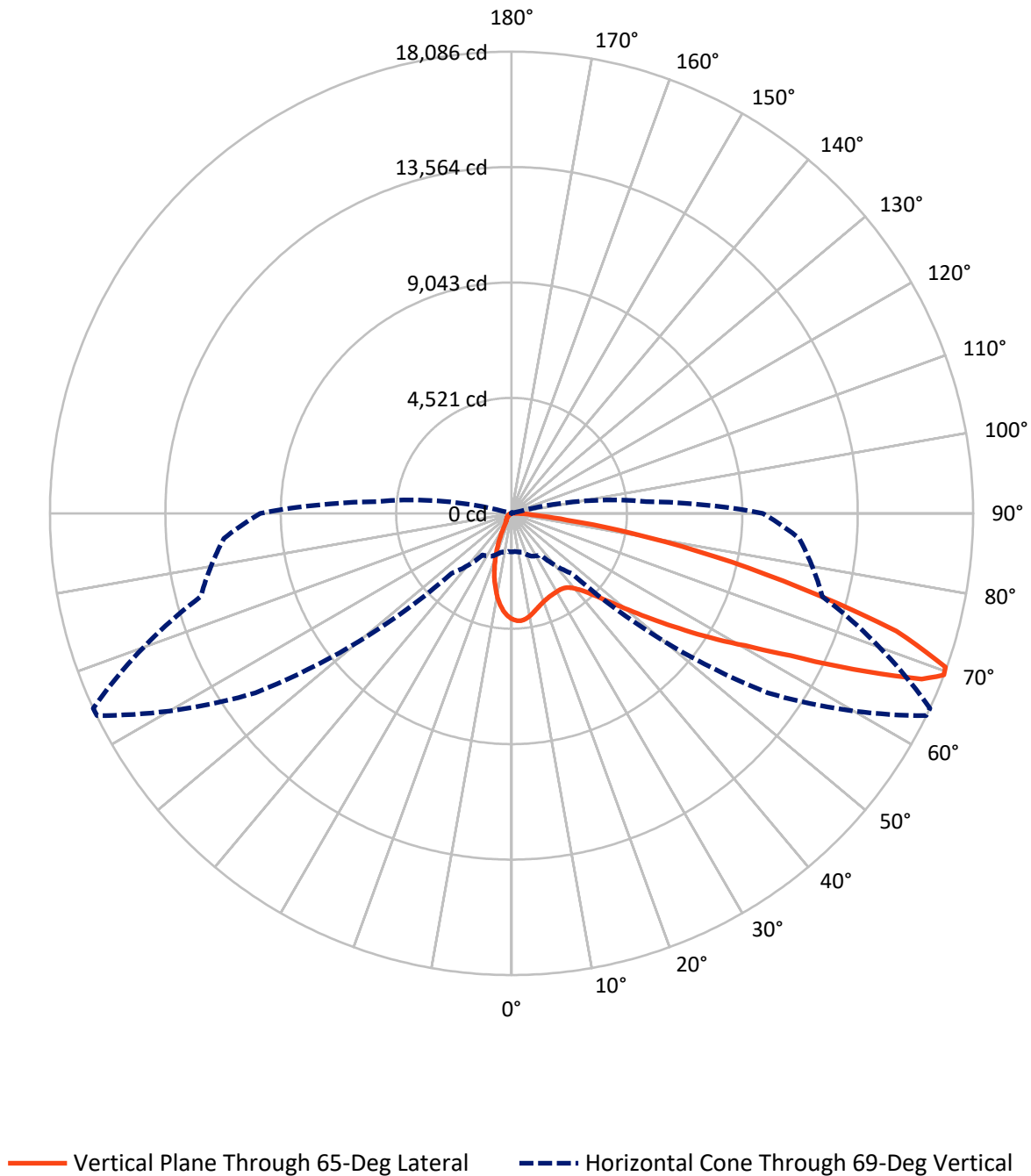
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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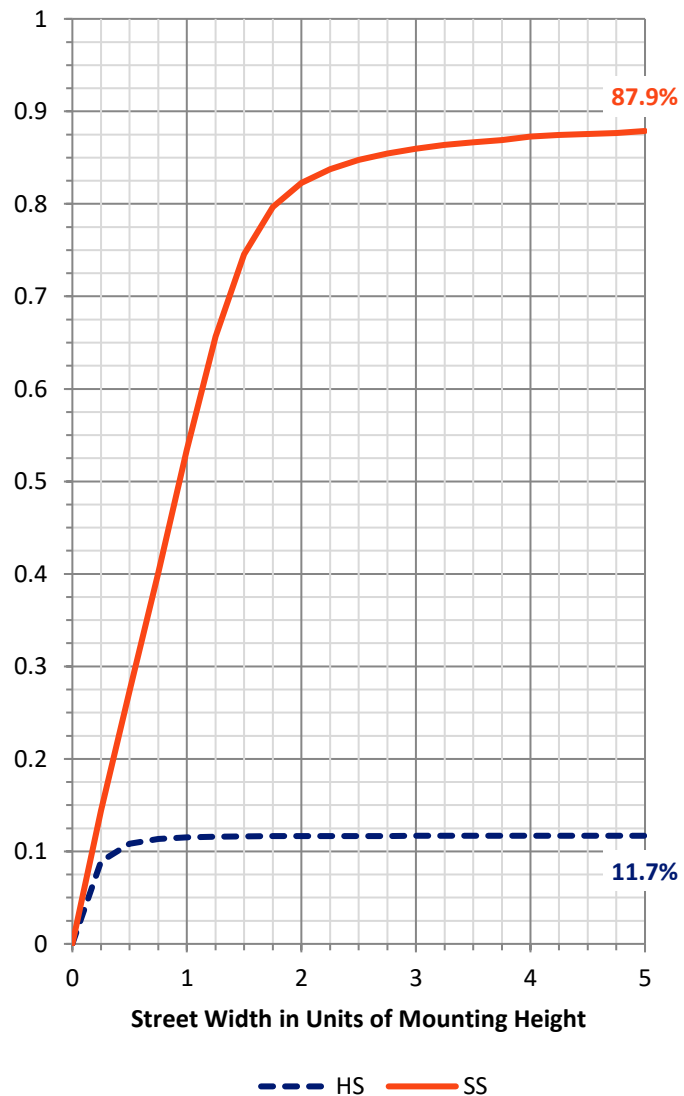
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.1	0.0	1934.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14473.9	0.0	14473.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	16408.0	0.0	16408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	2.1
10°-20°	759.0	4.6
20°-30°	1051.2	6.4
30°-40°	1465.7	8.9
40°-50°	2278.2	13.9
50°-60°	3657.5	22.3
60°-70°	4137.2	25.2
70°-80°	2429.8	14.8
80°-90°	282.7	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°	16408.0	100.0
0°-180°	16408.0	100.0

Coefficient of Utilization



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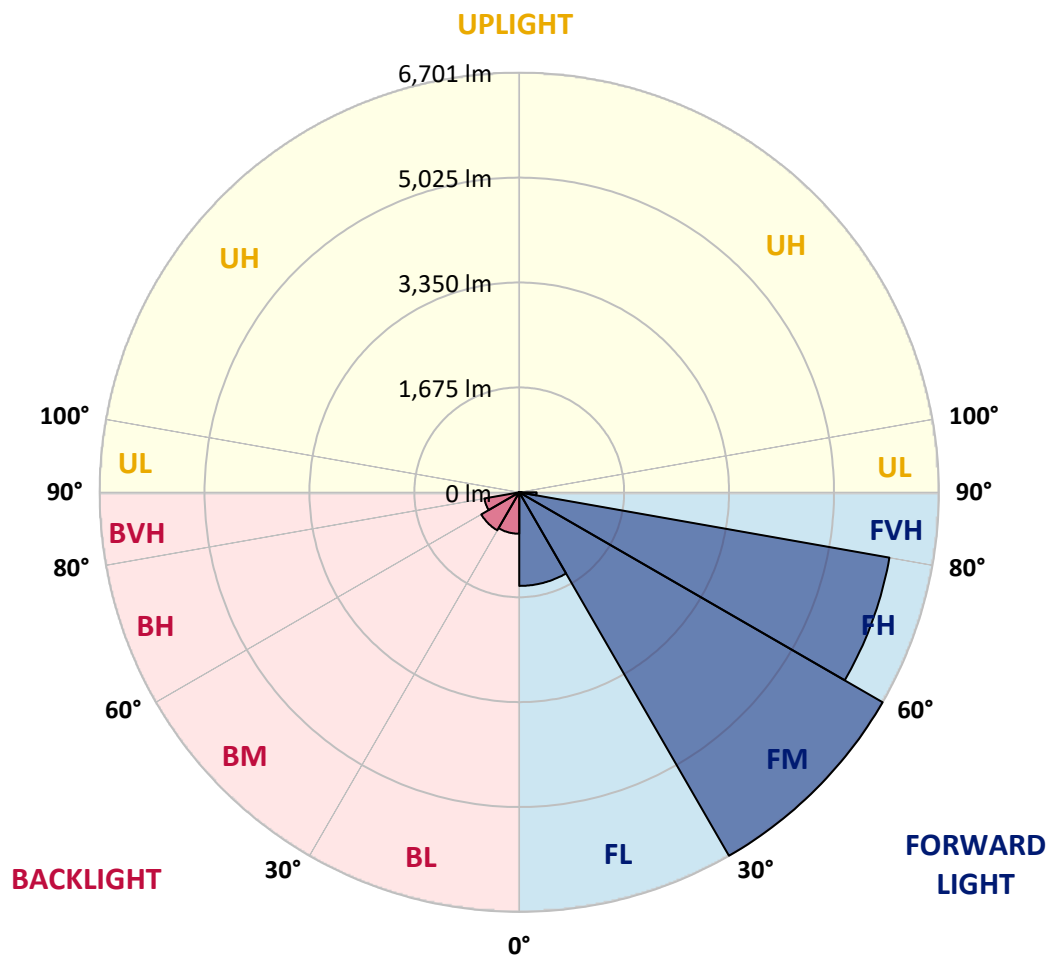
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1495.2	9.1			
FM	(30°-60°)	6700.6	40.8			
FH	(60°-80°)	6001.9	36.6			G3/7500
FVH	(80°-90°)	276.3	1.7			G3/500
BL	(0°-30°)	661.8	4.0	B2/1000		
BM	(30°-60°)	700.9	4.3	B1/1000		
BH	(60°-80°)	565.1	3.4	B2/1000		G2/1000
BVH	(80°-90°)	6.4	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°	64°	65°	75°	85°
0°	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3
2.5°	4183.1	4172.7	4181.0	4199.1	4208.1	4208.1	4215.1	4206.7	4209.5	4189.4	4160.2
5°	3921.4	3905.4	3928.3	3979.0	4041.5	4095.0	4174.1	4215.8	4219.9	4220.6	4186.6
7.5°	3639.5	3624.9	3658.9	3718.6	3799.2	3898.5	4036.6	4157.4	4164.4	4229.6	4204.7
10°	3410.4	3400.0	3439.5	3503.4	3597.8	3708.9	3878.3	4046.4	4066.5	4210.9	4201.9
12.5°	3228.5	3220.1	3257.6	3331.2	3427.7	3550.6	3727.7	3922.8	3949.8	4168.5	4188.0
15°	3095.9	3094.5	3125.7	3196.5	3303.5	3418.0	3599.2	3808.2	3839.5	4122.7	4185.9
17.5°	3026.4	3028.5	3051.4	3111.8	3203.5	3317.3	3490.9	3711.7	3745.7	4081.8	4196.3
20°	3019.5	3021.6	3034.1	3068.1	3142.4	3243.1	3402.7	3630.5	3665.9	4051.2	4213.0
22.5°	3080.6	3079.2	3082.7	3079.2	3120.9	3197.2	3344.4	3568.0	3608.9	4031.1	4226.2
25°	3197.9	3195.8	3194.5	3168.8	3141.0	3182.0	3320.1	3532.6	3571.5	4016.5	4233.8
27.5°	3361.1	3359.7	3357.6	3315.3	3231.9	3206.3	3322.9	3519.4	3552.0	4004.7	4232.4
30°	3575.6	3585.3	3582.6	3523.5	3393.7	3280.5	3352.1	3512.4	3540.9	3981.8	4217.8
32.5°	3827.6	3847.1	3862.4	3799.2	3636.7	3427.7	3419.4	3520.1	3540.9	3964.4	4191.5
35°	4089.4	4114.4	4170.6	4148.4	3934.6	3649.2	3535.4	3565.9	3583.3	3974.1	4179.0
37.5°	4347.0	4376.8	4499.0	4563.6	4324.8	3942.2	3715.9	3679.1	3688.1	4033.2	4192.8
40°	4646.2	4691.4	4876.7	4980.9	4790.6	4334.5	3985.9	3873.5	3876.9	4163.0	4257.4
42.5°	5039.2	5085.7	5286.4	5449.5	5315.5	4830.2	4352.5	4170.6	4167.2	4406.0	4409.5
45°	5518.3	5566.9	5774.5	5955.7	5895.3	5417.6	4821.9	4604.6	4600.4	4789.2	4697.6
47.5°	6061.2	6109.1	6294.5	6481.2	6546.5	6103.5	5419.7	5196.8	5187.1	5321.8	5142.6
50°	6527.1	6558.3	6729.1	6980.4	7274.8	6946.4	6163.3	5948.7	5938.3	6029.3	5796.0
52.5°	6696.5	6714.5	6888.1	7240.1	7974.7	8087.8	7140.1	6863.8	6856.2	6895.7	6665.9
55°	6353.5	6386.1	6599.3	7121.4	8353.8	9377.8	8373.2	7996.9	7939.3	7853.9	7575.5
57.5°	5419.0	5471.0	5700.2	6394.5	8176.7	10401.2	10185.3	9278.6	9193.9	8671.7	8314.9
60°	4060.2	4124.1	4314.3	5063.5	7231.8	10765.7	12165.4	10706.7	10515.8	9323.0	8994.6
62.5°	2786.2	2818.1	2947.3	3435.4	5325.9	10168.6	13822.0	12619.5	12271.0	10031.2	9729.9
65°	2128.0	2139.1	2191.9	2359.9	3171.5	8260.0	14480.9	15143.3	14721.8	10878.2	10492.9
67.5°	1714.9	1705.9	1778.8	2019.0	2123.8	5039.2	13712.3	17531.0	17333.8	12010.6	11260.8
69°	1512.2	1499.7	1574.0	1853.1	1994.7	3331.2	12258.5	18073.2	18085.7	12608.4	11313.5
70°	1360.8	1369.1	1442.7	1754.5	1951.0	2614.7	10869.9	17935.0	18033.6	12832.0	10996.9
72.5°	908.8	931.0	1078.9	1456.6	1876.0	1978.7	6563.2	15390.4	15769.5	12328.6	9434.8
75°	512.4	529.1	704.7	1098.4	1767.7	1884.3	3466.6	11338.5	11705.1	10309.6	7275.5
77.5°	251.3	260.4	398.5	708.9	1478.2	1795.4	1966.2	7701.8	8120.5	6729.1	4115.1
80°	106.2	111.1	199.3	437.4	1056.7	1713.5	1460.1	4740.0	4792.0	2636.2	1096.3
82.5°	41.0	42.4	84.0	272.9	671.4	1335.8	1221.3	2247.4	2193.3	496.4	249.9
85°	4.9	5.6	30.5	163.9	373.5	687.4	992.1	968.5	896.3	98.6	128.4
87.5°	0.0	0.0	2.1	50.0	111.1	322.2	515.9	402.0	362.4	31.9	66.7
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°	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3	4146.3
2.5°	4135.9	4129.0	4091.5	4037.3	3985.9	3922.1	3861.0	3824.2	3795.0	3775.6	3798.5
5°	4147.0	4116.5	4002.6	3856.8	3713.8	3552.7	3402.7	3275.7	3225.7	3170.2	3195.1
7.5°	4143.6	4085.9	3881.1	3621.4	3359.0	3087.5	2830.6	2632.8	2530.0	2429.3	2455.0
10°	4126.2	4029.0	3718.6	3334.0	2941.0	2550.8	2186.3	1909.3	1754.5	1614.2	1634.4
12.5°	4088.0	3952.6	3527.0	3004.9	2479.3	1964.9	1537.9	1183.1	992.8	908.8	919.2
15°	4065.1	3878.3	3324.3	2671.6	1986.4	1368.5	940.1	699.2	612.4	584.6	588.1
17.5°	4054.0	3806.8	3114.6	2290.5	1482.3	871.3	607.5	536.0	517.2	512.4	513.8
20°	4042.9	3734.6	2898.7	1913.5	1021.3	586.0	499.2	478.4	471.4	465.2	466.6
22.5°	4024.1	3665.2	2666.8	1531.6	688.7	475.6	449.9	429.8	415.2	407.6	408.9
25°	4001.2	3592.3	2430.0	1140.7	502.7	424.2	399.9	371.4	354.1	340.2	340.9
27.5°	3964.4	3502.7	2185.6	830.4	422.1	379.8	347.1	315.9	286.7	270.8	270.8
30°	3913.0	3401.4	1914.2	594.3	378.4	336.0	296.5	257.6	226.3	211.8	210.4
32.5°	3856.1	3295.8	1639.9	450.6	343.7	295.1	249.9	209.0	181.2	169.4	168.7
35°	3807.5	3182.0	1366.4	377.7	309.0	255.5	206.2	171.5	149.3	139.6	138.9
37.5°	3776.3	3068.1	1099.8	337.4	277.7	218.7	172.9	141.6	125.7	118.0	117.3
40°	3771.4	2983.4	856.1	306.9	248.6	186.1	144.4	120.1	105.5	97.2	96.5
42.5°	3834.6	2934.8	656.8	281.2	218.7	157.6	122.9	102.8	87.5	79.1	78.5
45°	4000.5	2950.1	505.4	258.3	188.8	133.3	104.1	85.4	71.5	65.3	63.9
47.5°	4303.2	3055.6	402.0	235.4	160.4	113.2	88.9	70.8	59.0	52.8	52.1
50°	4842.0	3303.5	336.0	210.4	134.0	96.5	73.6	57.6	47.9	42.4	41.7
52.5°	5557.1	3745.0	299.9	186.1	111.1	81.9	60.4	45.8	37.5	33.3	32.6
55°	6345.9	4279.6	276.3	159.7	91.0	68.0	47.9	36.1	29.2	25.7	24.3
57.5°	7115.8	4742.7	254.1	134.0	75.7	55.5	38.2	28.5	22.9	19.4	18.7
60°	7823.3	5168.3	228.4	107.6	61.8	43.7	29.9	22.2	18.1	14.6	14.6
62.5°	8580.8	5497.4	193.0	84.0	50.7	33.3	24.3	20.1	14.6	12.5	11.8
65°	9383.4	5741.8	151.4	65.3	39.6	25.0	20.1	20.8	11.8	9.0	8.3
67.5°	9976.3	5693.2	111.8	51.4	30.5	19.4	19.4	22.2	10.4	6.9	6.2
69°	9845.8	5298.2	93.7	44.4	26.4	16.7	18.1	22.2	9.7	6.2	5.6
70°	9467.4	4860.8	82.6	39.6	23.6	15.3	17.4	21.5	9.0	6.2	5.6
72.5°	7884.4	3661.0	64.6	29.9	18.7	12.5	14.6	18.7	9.0	6.2	4.9
75°	5930.7	2343.2	49.3	21.5	13.9	9.7	11.1	13.9	9.0	5.6	4.9
77.5°	3227.1	845.0	35.4	14.6	9.7	7.6	7.6	10.4	8.3	4.2	2.8
80°	829.7	212.5	22.2	9.7	7.6	5.6	4.9	6.9	4.9	0.7	0.0
82.5°	204.8	47.9	11.8	6.9	5.6	2.1	2.1	3.5	2.1	0.0	0.0
85°	112.5	23.6	7.6	4.9	2.8	0.0	0.0	0.7	0.0	0.0	0.0
87.5°	57.6	6.9	2.1	1.4	0.7	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)