

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: P319497

Luminaire Tested: **GAN-SA3D-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17059 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - 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

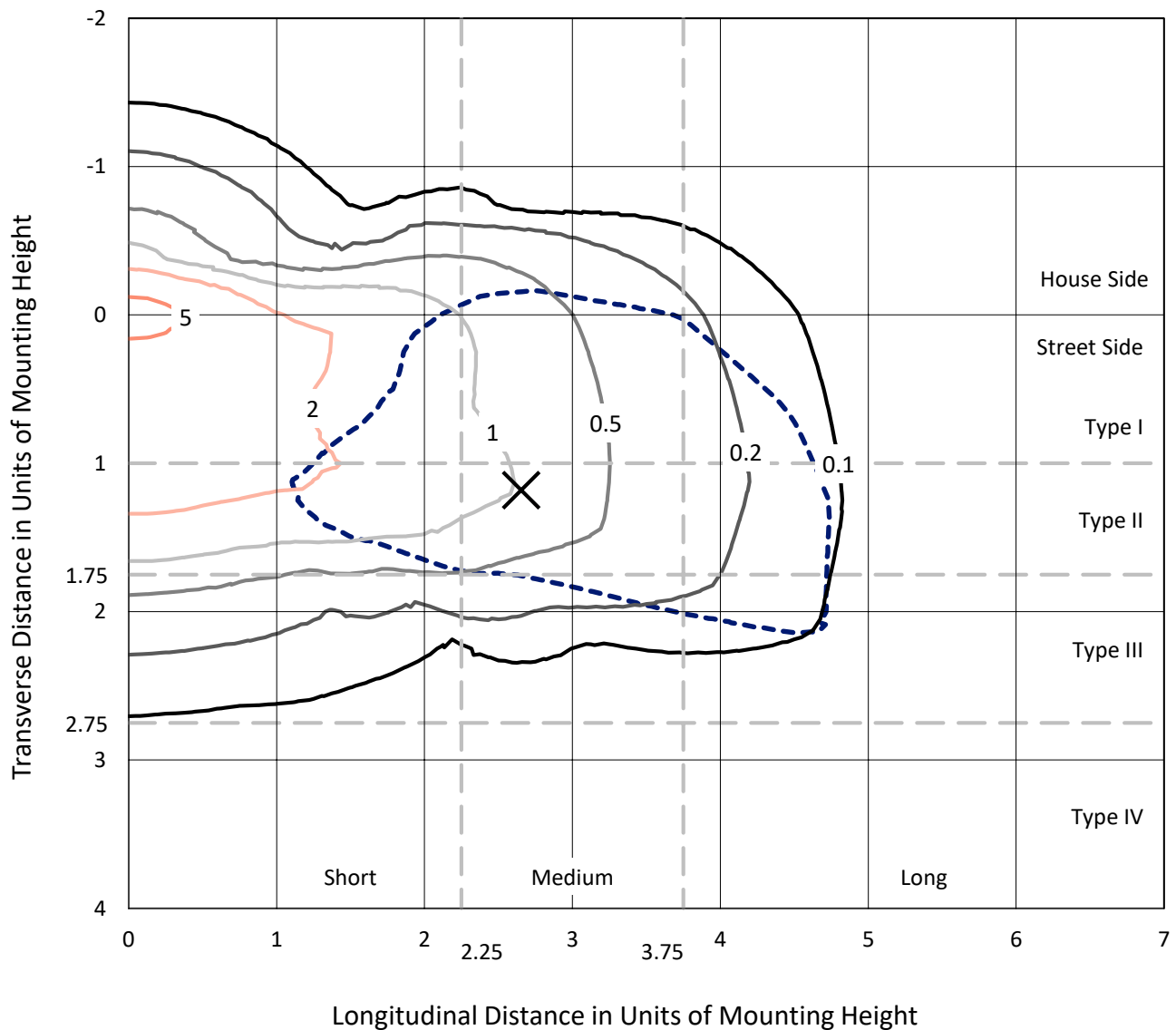


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Iso-Footcandle Lines of Horizontal Illumination

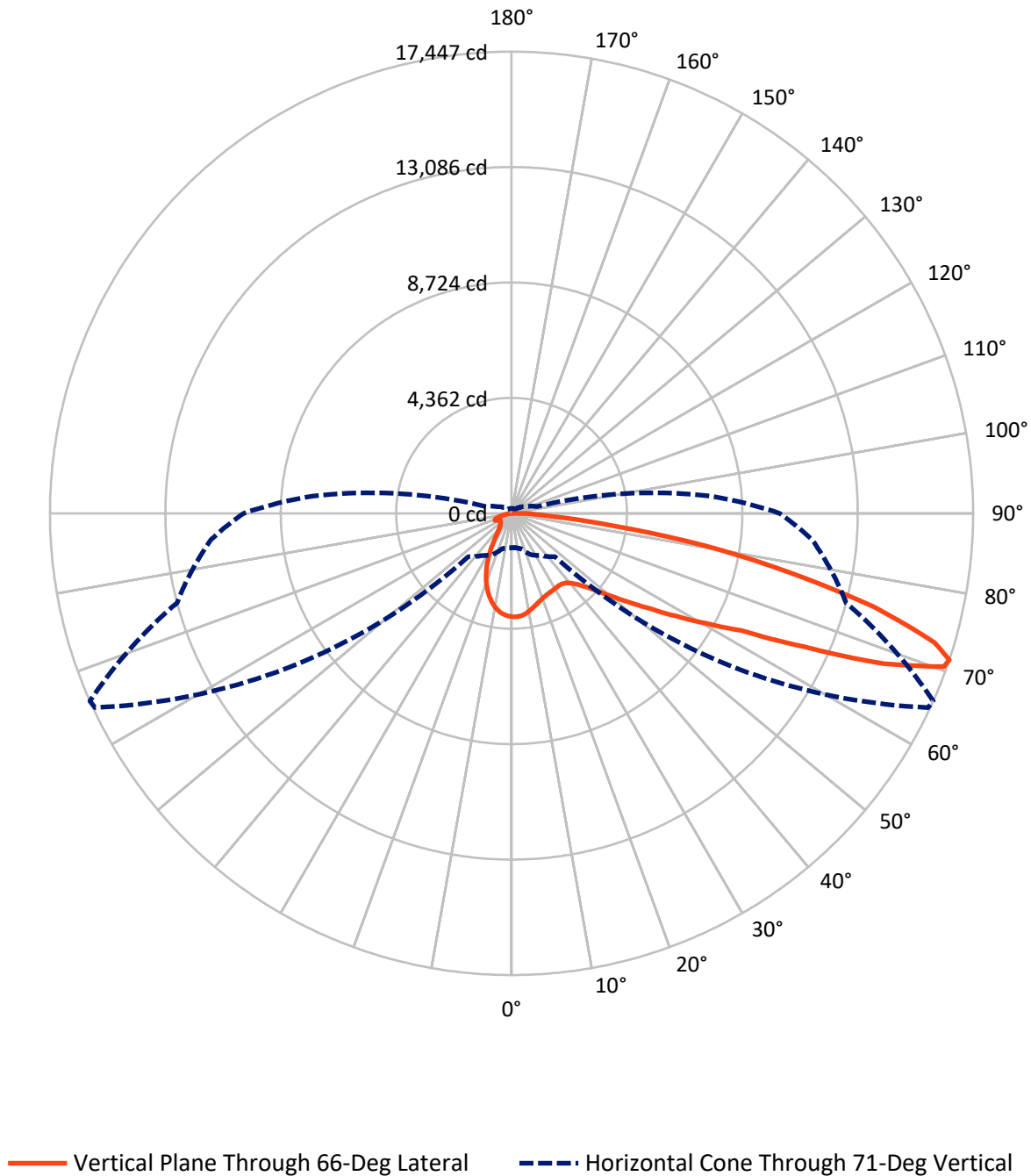
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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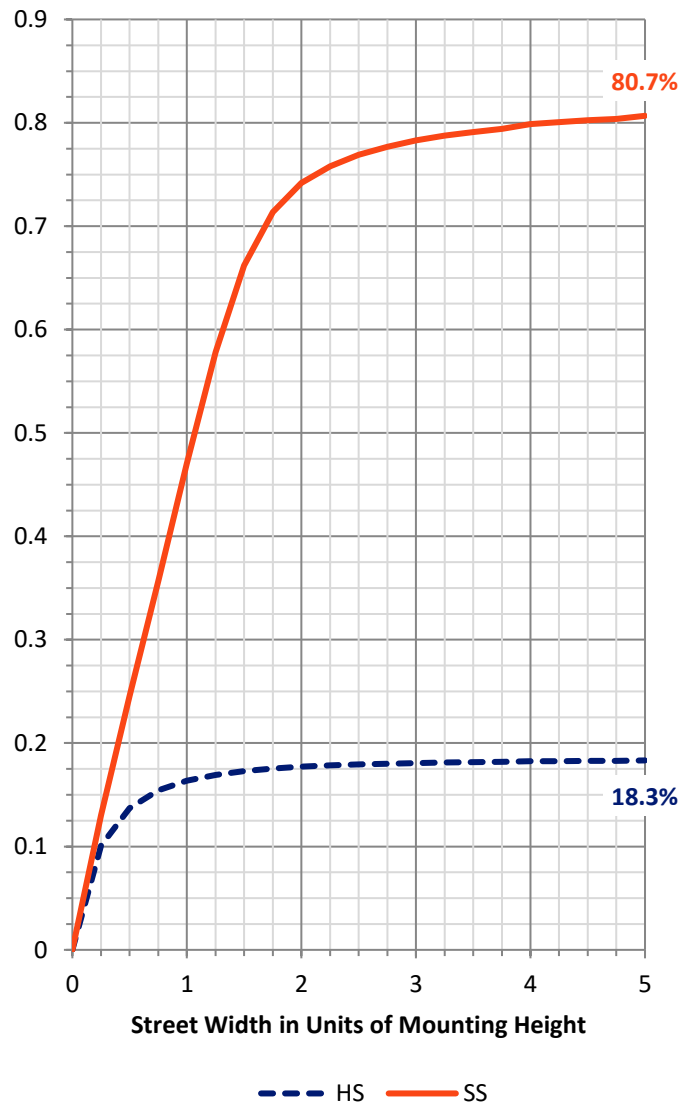
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3161.5	0.0	3161.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	13897.5	0.0	13897.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	17059.0	0.0	17059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.0	2.0
10°-20°	825.0	4.8
20°-30°	1108.2	6.5
30°-40°	1457.9	8.5
40°-50°	2120.8	12.4
50°-60°	3312.9	19.4
60°-70°	4149.9	24.3
70°-80°	3165.5	18.6
80°-90°	574.8	3.4
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°	17059.0	100.0
0°-180°	17059.0	100.0

Coefficient of Utilization



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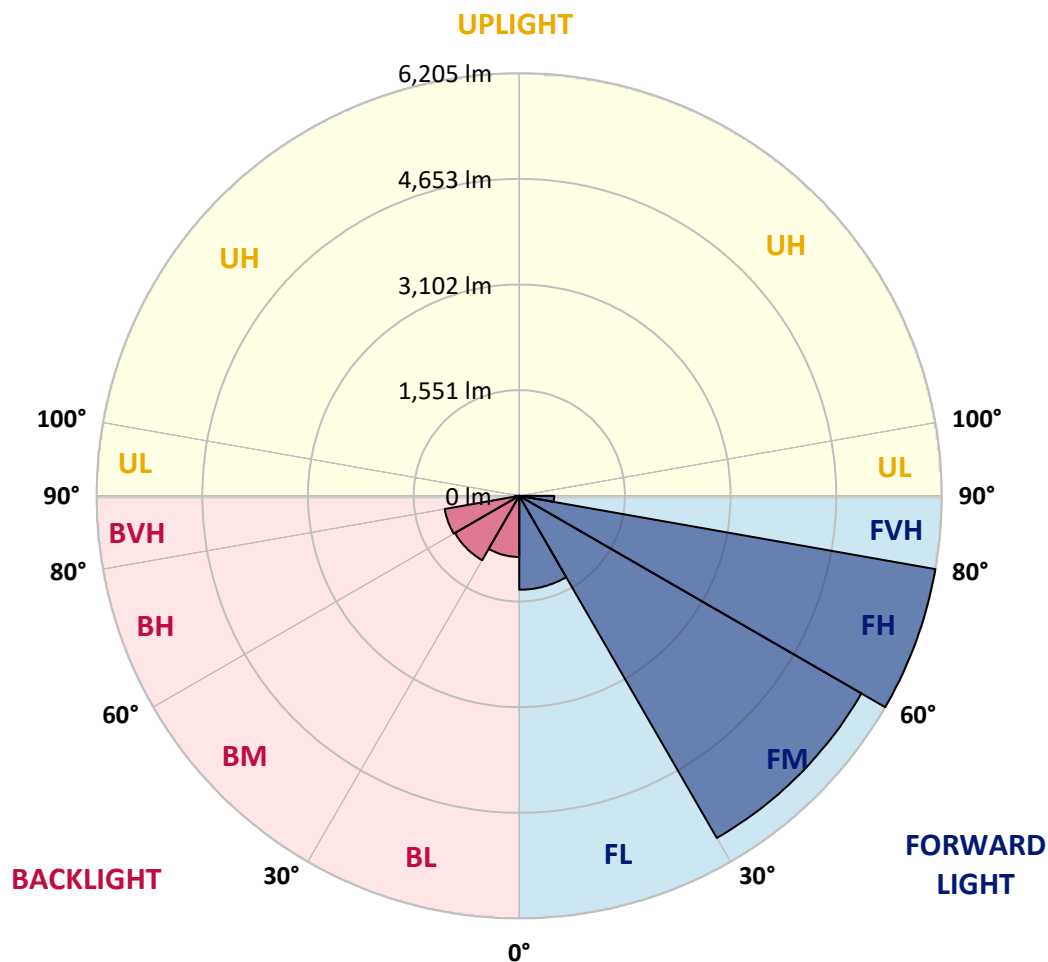
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.5	8.1			
FM	(30°-60°)	5800.9	34.0			
FH	(60°-80°)	6204.5	36.4			G3/7500
FVH	(80°-90°)	512.6	3.0			G4/750
BL	(0°-30°)	897.8	5.3	B2/1000		
BM	(30°-60°)	1090.6	6.4	B2/2500		
BH	(60°-80°)	1110.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	62.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
2.5°	3835.4	3829.6	3847.2	3865.5	3872.5	3884.3	3902.0	3912.0	3911.4	3913.2	3907.3
5°	3581.0	3573.3	3608.7	3637.5	3692.9	3755.3	3831.3	3885.5	3886.7	3917.3	3925.6
7.5°	3340.1	3334.8	3375.4	3422.0	3486.2	3581.6	3704.7	3821.3	3828.4	3911.4	3940.3
10°	3146.9	3145.7	3185.2	3235.9	3310.7	3417.3	3558.6	3729.4	3740.0	3883.1	3942.6
12.5°	2996.1	2998.5	3032.7	3090.4	3169.3	3280.6	3433.8	3626.4	3643.4	3838.4	3929.1
15°	2884.8	2894.3	2921.9	2980.2	3058.0	3171.1	3328.3	3530.9	3556.9	3788.3	3921.4
17.5°	2821.2	2831.8	2851.3	2899.6	2972.6	3081.5	3230.6	3452.6	3476.2	3750.0	3922.0
20°	2802.4	2811.2	2822.4	2851.8	2913.7	3012.6	3153.4	3381.9	3407.3	3719.4	3927.9
22.5°	2839.5	2846.0	2847.1	2844.8	2882.5	2963.2	3097.4	3330.1	3357.2	3699.4	3932.0
25°	2919.0	2927.8	2921.3	2899.6	2887.2	2936.7	3068.6	3295.9	3323.0	3684.7	3923.8
27.5°	3038.6	3039.7	3034.4	3006.2	2947.8	2939.6	3059.8	3275.9	3301.8	3667.6	3906.7
30°	3201.1	3208.8	3199.3	3161.1	3065.6	2986.7	3070.4	3256.5	3280.0	3645.8	3879.0
32.5°	3391.4	3410.2	3409.6	3369.6	3232.9	3092.1	3113.9	3244.7	3263.0	3622.8	3845.5
35°	3588.7	3614.6	3662.9	3645.8	3476.8	3258.8	3197.6	3263.5	3275.9	3619.9	3821.9
37.5°	3793.6	3819.5	3919.1	3965.0	3767.1	3497.4	3329.5	3330.1	3336.0	3655.8	3820.1
40°	4008.0	4035.7	4185.3	4304.9	4143.5	3799.5	3542.1	3469.1	3462.6	3744.2	3854.9
42.5°	4308.4	4333.1	4512.8	4665.3	4561.1	4186.5	3836.0	3683.5	3669.9	3917.3	3966.2
45°	4688.3	4709.5	4900.3	5063.5	5009.9	4628.2	4205.3	3978.6	3976.2	4205.9	4191.8
47.5°	5140.0	5156.5	5327.9	5485.8	5505.2	5136.5	4669.4	4433.8	4395.6	4601.7	4541.0
50°	5610.6	5628.9	5745.5	5915.1	6059.4	5816.8	5266.7	4991.6	4940.4	5124.1	5035.8
52.5°	5922.2	5946.3	6047.7	6262.6	6682.6	6562.4	5972.9	5667.8	5590.0	5757.3	5689.6
55°	5783.2	5837.4	5992.3	6336.8	7180.9	7701.5	6844.0	6456.4	6368.6	6507.6	6467.6
57.5°	5151.2	5225.4	5436.9	5968.7	7250.9	8705.1	8160.9	7385.2	7323.4	7283.3	7301.6
60°	3996.2	4067.5	4329.6	5022.8	6762.7	9437.8	10142.8	8530.2	8440.7	8062.0	8078.5
62.5°	2828.3	2792.4	2972.0	3479.1	5495.2	9523.8	12398.0	10061.6	9767.1	8884.2	8811.7
65°	2156.8	2148.6	2229.3	2390.7	3328.3	8494.9	13741.5	12635.4	12175.4	9851.3	9680.5
67.5°	1772.2	1757.5	1837.0	2072.0	2143.3	5480.5	13771.0	15621.5	15169.8	11055.2	10685.3
70°	1457.1	1440.6	1514.9	1818.2	1980.7	2779.4	11590.0	17370.2	17346.1	12579.4	11443.9
71°	1306.4	1294.6	1383.5	1720.4	1946.0	2316.5	10006.8	17374.9	17447.4	13095.4	11399.1
72.5°	1063.7	1067.8	1162.1	1531.3	1920.1	2045.5	7354.6	16565.1	16718.2	13587.2	10992.1
75°	706.8	710.3	834.0	1178.0	1861.8	2001.4	4042.2	13899.9	14181.5	13292.7	10030.3
77.5°	474.7	473.5	557.8	808.1	1622.1	2001.4	2370.1	10396.1	10705.3	10576.9	7732.7
80°	326.9	324.5	384.0	557.8	1228.0	2025.5	1832.3	7285.7	7379.3	5711.9	3142.8
82.5°	200.3	202.0	250.9	394.0	835.8	1822.9	1729.8	3972.7	3870.8	1602.0	785.1
85°	114.9	114.3	160.2	266.8	536.6	1538.4	1686.8	1709.8	1568.5	482.4	283.9
87.5°	41.2	44.2	86.0	147.8	307.4	1071.4	1431.2	889.4	801.6	217.9	128.4
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°	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9	3907.9
2.5°	3903.2	3906.7	3902.6	3879.0	3859.0	3826.6	3808.3	3783.0	3775.4	3771.8	3781.3
5°	3917.9	3919.1	3884.3	3822.5	3753.0	3671.1	3612.2	3539.8	3505.6	3490.9	3500.3
7.5°	3931.4	3926.1	3850.2	3731.8	3603.4	3460.9	3334.2	3218.2	3150.5	3122.8	3125.1
10°	3933.2	3910.8	3788.9	3605.7	3406.7	3197.6	3003.2	2824.2	2711.1	2637.5	2659.8
12.5°	3915.0	3877.3	3698.8	3442.6	3166.4	2881.3	2618.6	2350.0	2188.7	2113.9	2116.2
15°	3900.8	3832.5	3588.1	3250.6	2879.5	2502.0	2143.3	1827.6	1655.6	1579.1	1543.1
17.5°	3889.0	3784.2	3459.7	3034.4	2540.9	2062.0	1630.9	1349.4	1255.1	1232.7	1223.3
20°	3872.5	3733.0	3316.6	2784.1	2155.1	1569.6	1190.9	1051.9	1052.5	1078.4	1082.0
22.5°	3849.6	3674.7	3164.0	2503.2	1741.0	1143.2	933.5	893.5	934.1	983.6	992.4
25°	3815.4	3605.7	2994.4	2192.8	1327.6	878.8	797.5	795.7	845.2	897.0	904.7
27.5°	3767.1	3515.6	2805.9	1859.4	978.3	746.8	714.4	726.8	763.3	801.0	804.0
30°	3702.3	3410.8	2598.0	1507.8	766.9	665.0	661.4	672.6	695.0	721.5	723.9
32.5°	3631.1	3304.2	2375.9	1167.4	656.7	620.8	624.3	629.6	640.2	650.8	653.2
35°	3566.3	3195.2	2148.6	887.0	604.3	591.9	589.6	588.4	589.6	586.0	586.6
37.5°	3524.5	3105.1	1911.8	706.2	574.3	566.6	559.5	550.7	540.7	534.8	536.0
40°	3509.1	3038.0	1672.1	610.2	549.5	544.2	530.7	511.8	500.0	496.5	496.5
42.5°	3550.4	3003.2	1440.6	561.9	528.9	520.1	497.7	475.9	467.1	466.5	465.9
45°	3676.4	3017.3	1220.4	535.4	510.1	493.0	463.5	445.3	439.4	440.6	440.0
47.5°	3902.6	3106.3	1031.9	517.7	491.2	468.8	435.8	421.1	414.1	414.1	414.6
50°	4287.2	3314.2	881.7	503.0	475.3	446.4	415.8	397.6	388.1	387.5	387.5
52.5°	4847.3	3686.4	788.1	490.6	457.6	426.4	395.8	372.8	361.6	359.3	358.1
55°	5549.4	4220.0	762.1	482.4	434.1	404.6	371.6	348.7	336.3	331.0	330.4
57.5°	6334.5	4869.1	813.4	472.4	409.9	378.7	345.1	323.4	310.4	303.9	303.3
60°	7129.0	5577.6	1022.5	458.2	389.9	350.4	318.0	298.0	285.1	278.0	276.8
62.5°	7924.7	6324.5	1449.5	457.0	375.8	323.4	290.4	273.3	260.9	253.3	251.5
65°	8822.3	7142.0	1934.8	488.3	371.1	298.6	262.1	248.5	237.9	230.9	230.3
67.5°	9853.1	8064.9	1888.3	552.5	387.0	276.2	235.6	225.0	217.3	211.4	210.9
70°	10336.6	7920.6	1173.8	597.8	409.3	254.4	210.3	202.6	196.7	192.6	190.8
71°	10134.0	7520.7	984.2	592.5	407.0	245.0	200.3	194.4	188.5	184.9	183.2
72.5°	9581.5	6858.7	821.0	551.3	380.5	227.9	187.3	181.4	176.1	172.0	170.8
75°	8597.9	6125.4	657.3	440.6	303.3	192.6	164.3	157.8	153.7	151.4	149.0
77.5°	6320.4	4371.4	508.3	348.1	223.2	157.3	140.2	135.5	131.3	127.8	126.0
80°	2421.3	1693.3	342.2	259.7	163.7	124.3	113.1	110.7	106.6	104.2	104.2
82.5°	652.0	505.9	182.6	157.3	109.6	90.7	86.6	85.4	81.9	77.2	77.7
85°	263.9	223.2	102.5	86.6	67.1	53.6	58.3	58.9	54.8	48.9	49.5
87.5°	116.0	94.8	57.1	38.3	29.4	20.6	26.5	26.5	24.1	20.0	18.3
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)