

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: P322994

Luminaire Tested: **GAN-SA0A-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24577 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

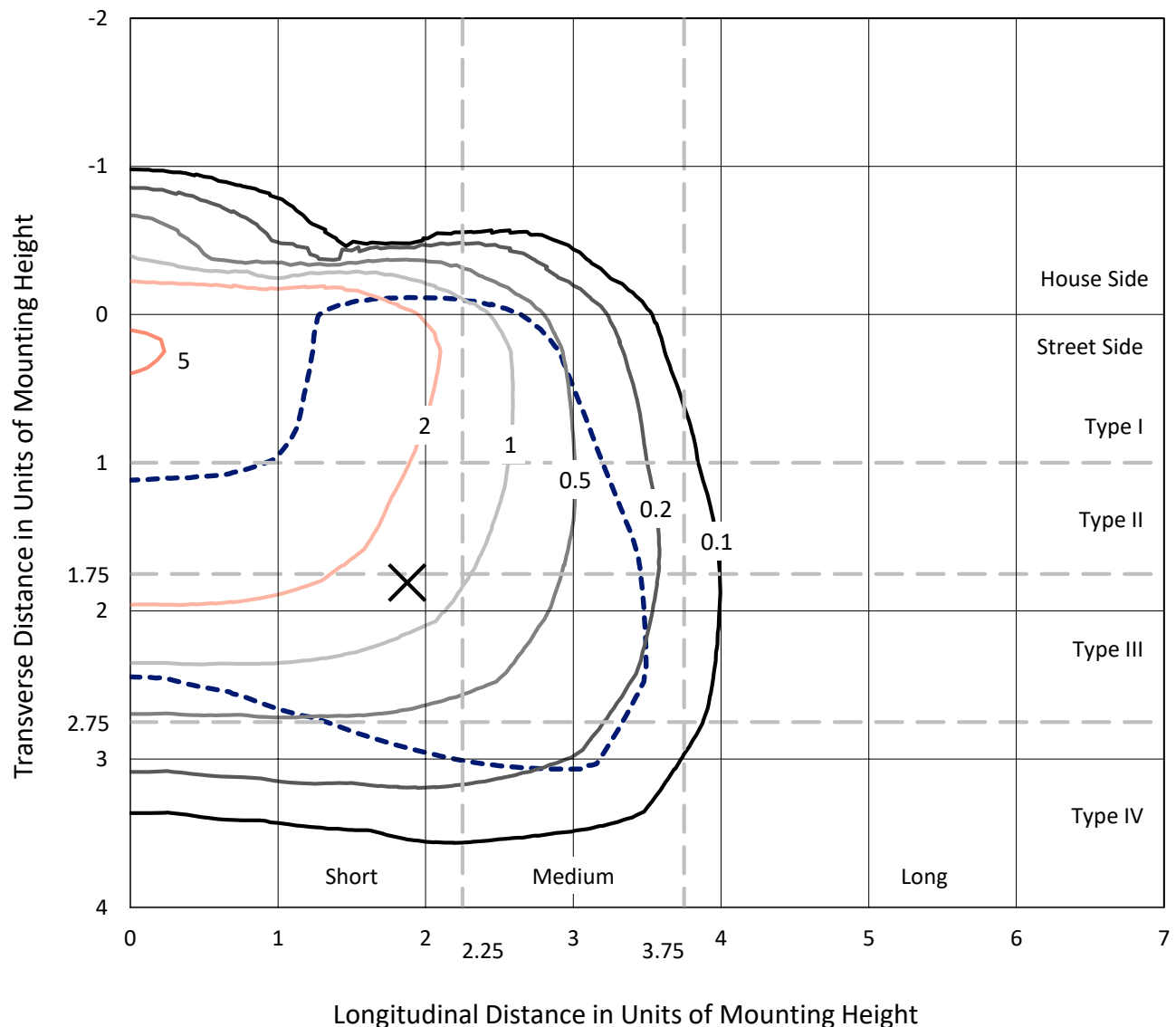
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

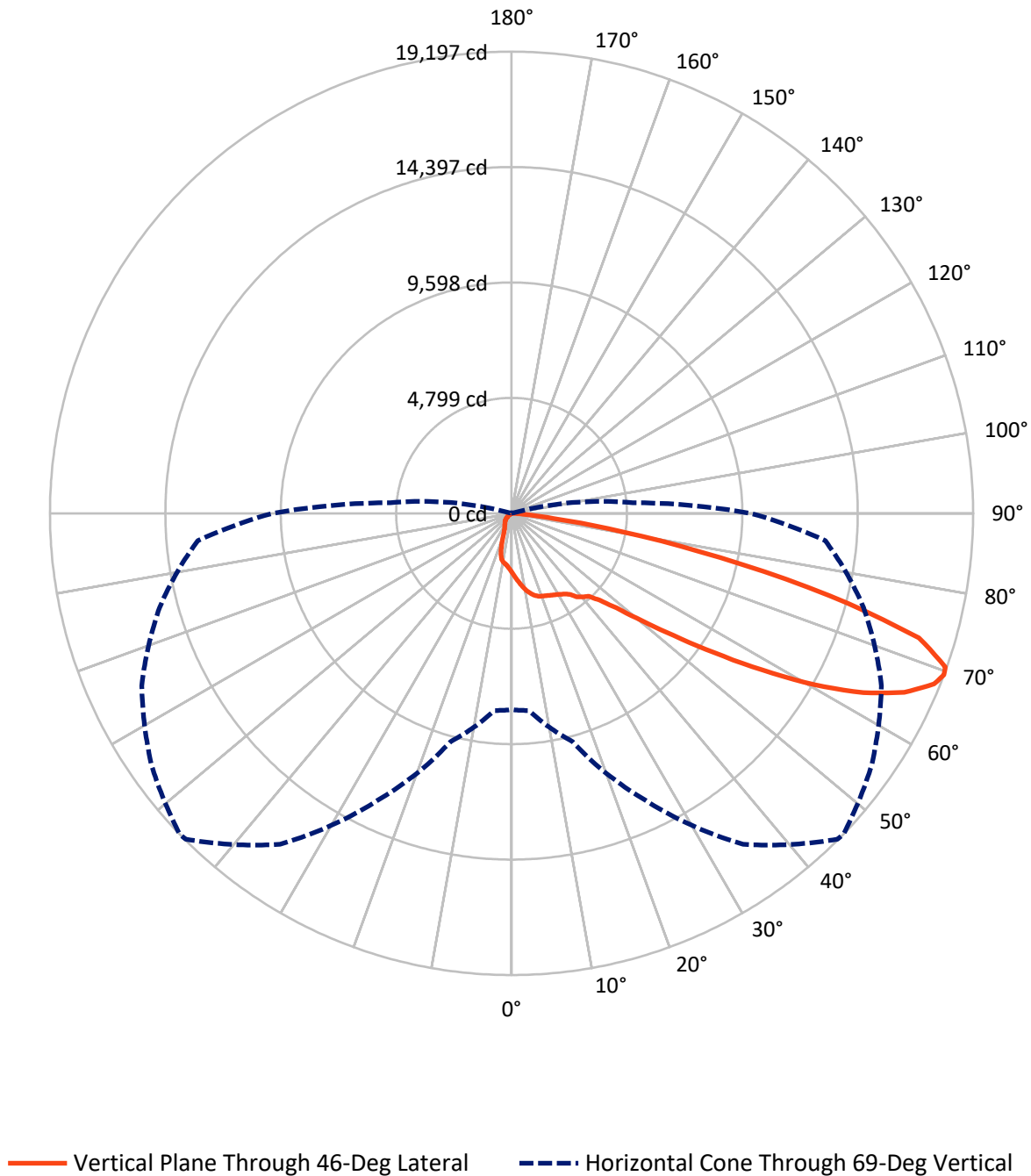
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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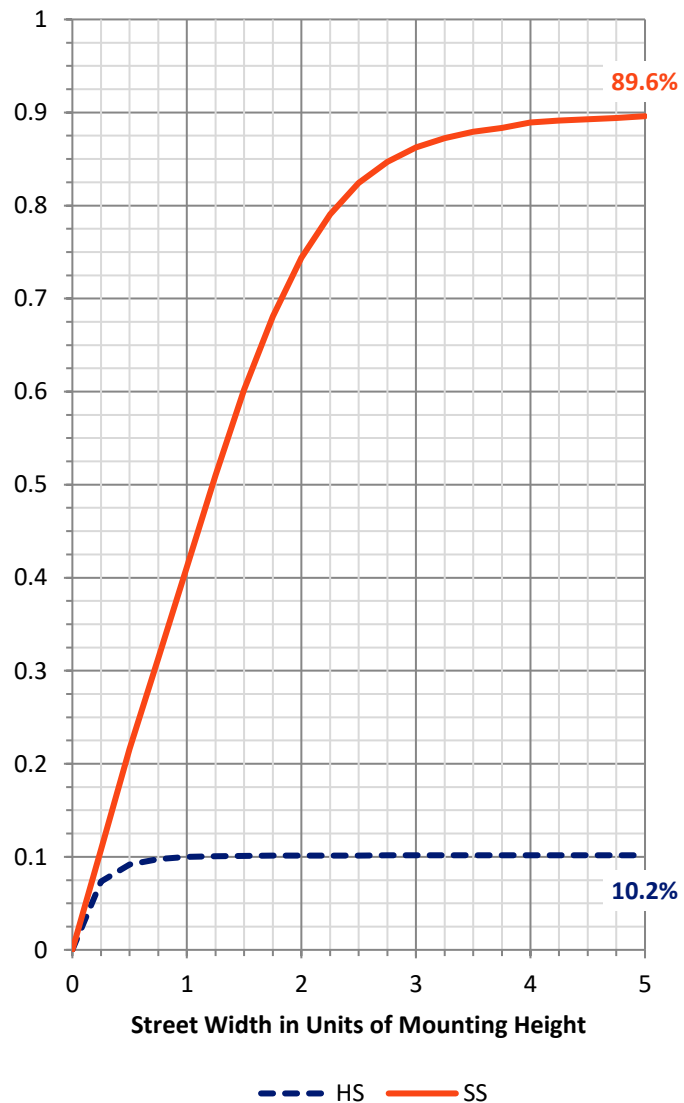
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2522.3	0.0	2522.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	22054.7	0.0	22054.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	24577.0	0.0	24577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	1.0
10°-20°	743.6	3.0
20°-30°	1169.4	4.8
30°-40°	1677.0	6.8
40°-50°	2898.4	11.8
50°-60°	5726.1	23.3
60°-70°	8002.7	32.6
70°-80°	3866.2	15.7
80°-90°	248.5	1.0
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°	24577.0	100.0
0°-180°	24577.0	100.0

Coefficient of Utilization



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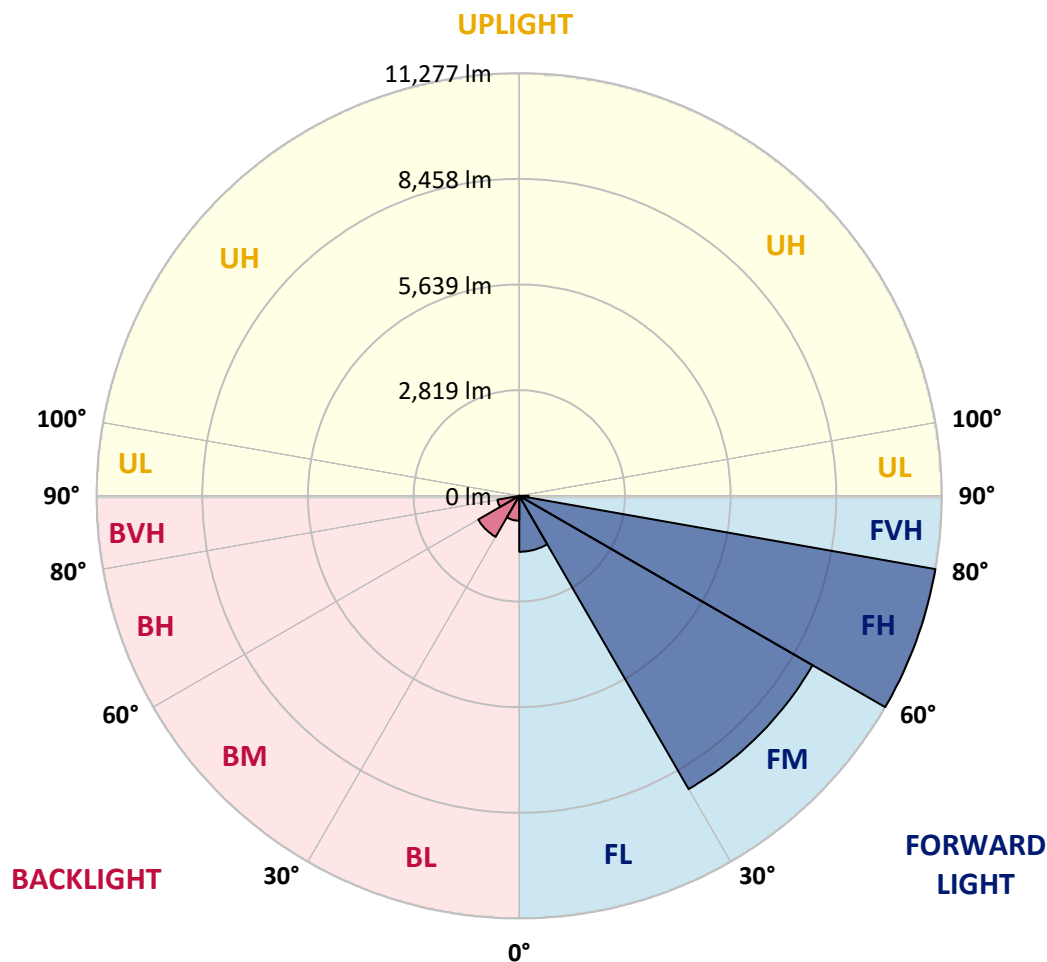
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.3	6.1			
FM	(30°-60°)	9037.5	36.8			
FH	(60°-80°)	11277.5	45.9			G4/12000
FVH	(80°-90°)	246.4	1.0			G3/500
BL	(0°-30°)	664.8	2.7	B2/1000		
BM	(30°-60°)	1264.0	5.1	B2/2500		
BH	(60°-80°)	591.4	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.1	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5
2.5°	2735.6	2732.2	2716.0	2709.1	2669.9	2646.9	2637.7	2608.9	2567.4	2525.9	2479.8
5°	3046.8	3045.6	3015.6	2986.8	2913.1	2843.9	2831.3	2764.4	2671.1	2583.5	2495.9
7.5°	3364.8	3349.8	3319.9	3264.5	3157.4	3046.8	3036.4	2941.9	2809.4	2682.6	2557.0
10°	3634.4	3625.2	3586.0	3501.9	3376.3	3250.7	3238.0	3121.7	2971.9	2816.3	2656.1
12.5°	3844.2	3837.3	3785.4	3680.5	3546.9	3416.7	3399.4	3295.7	3135.5	2961.5	2772.5
15°	3972.1	3968.6	3905.2	3793.5	3662.1	3549.2	3534.2	3443.2	3294.5	3112.4	2899.3
17.5°	4002.0	4003.2	3937.5	3824.6	3716.3	3635.6	3624.1	3554.9	3430.5	3249.6	3026.0
20°	3935.2	3949.0	3890.3	3792.3	3725.5	3682.8	3673.6	3632.1	3527.3	3356.7	3127.4
22.5°	3840.7	3847.6	3807.3	3741.6	3714.0	3722.0	3717.4	3694.4	3605.6	3448.9	3227.7
25°	3783.1	3783.1	3758.9	3703.6	3722.0	3771.6	3772.7	3768.1	3697.8	3561.8	3349.8
27.5°	3780.8	3773.9	3746.2	3704.7	3755.4	3831.5	3836.1	3867.2	3823.4	3699.0	3501.9
30°	3873.0	3864.9	3806.1	3752.0	3816.5	3898.3	3909.8	3977.8	3955.9	3847.6	3671.3
32.5°	4088.5	4059.6	3929.4	3840.7	3889.1	3987.1	4002.0	4110.4	4144.9	4030.8	3834.9
35°	4383.5	4292.4	4104.6	4008.9	4013.6	4116.1	4129.9	4289.0	4391.5	4199.1	3961.7
37.5°	4790.2	4745.3	4439.9	4184.1	4204.8	4360.4	4400.7	4573.6	4544.8	4291.3	4105.7
40°	5682.1	5611.8	5286.9	4675.0	4388.1	4558.6	4571.3	4663.5	4665.8	4499.8	4405.3
42.5°	6896.7	6867.9	6525.6	5565.7	4748.7	4691.1	4714.2	4869.7	5043.7	4940.0	4935.4
45°	8241.4	8226.5	7863.5	6748.0	5478.2	5125.6	5154.4	5362.9	5696.0	5719.0	5865.3
47.5°	9323.5	9316.6	9108.0	8067.4	6594.8	5861.9	5871.1	6092.4	6677.7	6967.0	7200.9
50°	10309.9	10343.3	10178.5	9495.2	8115.8	7015.4	6993.5	7141.0	8081.3	8554.9	8845.3
52.5°	11681.1	11728.4	11266.3	10827.3	9711.8	8446.6	8429.3	8583.7	9768.3	10123.2	10175.1
55°	12892.2	12811.6	12446.3	12319.5	11658.1	10214.2	10209.6	10345.6	11400.0	11550.9	11646.6
57.5°	13426.9	13395.8	13572.1	13862.5	13696.6	12303.4	12293.0	12189.3	12860.0	12876.1	13169.9
60°	13764.6	13802.6	14343.0	15238.4	15652.1	14551.6	14484.8	13852.1	14254.3	14218.6	14533.2
62.5°	13511.0	13585.9	14558.5	16050.8	17115.5	16514.0	16419.5	15375.5	15445.8	15322.5	15615.2
65°	12165.1	12281.5	13875.2	15897.5	17841.5	18047.8	17952.1	16720.3	16391.9	16189.0	16026.6
67.5°	9877.8	9946.9	11610.9	14564.3	17514.2	18962.7	18943.1	17899.1	17106.3	16042.7	14782.1
69°	8163.1	8231.1	9832.8	13160.7	16794.0	19158.6	19196.6	18277.1	16970.3	15153.1	13097.4
70°	6914.0	6986.6	8478.8	11957.7	15958.6	19067.6	19135.5	18241.3	16580.8	14122.9	11618.9
72.5°	3626.4	3688.6	5220.0	8238.0	13009.8	17508.5	17714.7	16699.5	14054.9	10256.9	6870.2
75°	1139.7	1175.4	2038.5	4306.2	8907.5	13613.6	13660.8	13099.7	9980.3	5641.8	2861.2
77.5°	434.4	424.1	678.7	1586.8	4503.3	8572.2	8861.4	8186.1	5237.3	1994.7	660.3
80°	233.9	235.1	352.6	656.8	1926.7	4405.3	4649.6	3967.5	1861.0	622.3	152.1
82.5°	101.4	106.0	198.2	348.0	885.0	1624.8	1746.9	1454.2	711.0	418.3	56.5
85°	21.9	24.2	95.6	189.0	360.7	456.3	478.2	471.3	452.9	325.0	21.9
87.5°	0.0	0.0	42.6	68.0	91.0	103.7	91.0	118.7	250.1	218.9	11.5
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°	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5
2.5°	2464.8	2444.1	2408.4	2369.2	2341.5	2312.7	2289.7	2279.3	2267.8	2259.7	2270.1
5°	2460.2	2419.9	2350.7	2283.9	2235.5	2196.3	2164.1	2151.4	2138.7	2129.5	2128.3
7.5°	2500.6	2444.1	2338.1	2240.1	2165.2	2112.2	2068.4	2050.0	2035.0	2028.1	2022.3
10°	2577.8	2505.2	2363.4	2235.5	2138.7	2048.8	1954.3	1881.8	1834.5	1812.6	1804.5
12.5°	2678.0	2587.0	2411.8	2259.7	2119.1	1946.3	1745.8	1572.9	1461.2	1424.3	1402.4
15°	2795.5	2682.6	2475.2	2290.8	2047.7	1731.9	1392.0	1166.2	1062.4	1041.7	1018.7
17.5°	2908.5	2784.0	2551.3	2296.6	1891.0	1383.9	1019.8	866.6	826.2	840.0	843.5
20°	3007.6	2884.3	2626.2	2245.9	1606.3	1038.2	789.3	751.3	766.3	792.8	797.4
22.5°	3107.8	2981.1	2695.3	2112.2	1242.2	788.2	711.0	720.2	735.2	761.7	766.3
25°	3230.0	3098.6	2759.8	1866.8	932.2	670.7	675.3	689.1	704.1	728.3	730.6
27.5°	3370.6	3247.3	2802.5	1547.6	691.4	616.5	631.5	652.2	667.2	690.2	694.9
30°	3557.2	3443.2	2816.3	1216.9	579.6	568.1	575.0	600.4	622.3	643.0	646.5
32.5°	3732.4	3636.7	2770.2	918.4	537.0	523.2	523.2	538.1	563.5	583.1	587.7
35°	3893.7	3831.5	2622.7	671.8	504.7	481.7	470.1	470.1	486.3	502.4	507.0
37.5°	4106.9	4104.6	2384.2	535.8	473.6	447.1	422.9	404.5	398.7	402.2	404.5
40°	4472.2	4475.6	2073.0	480.5	447.1	411.4	374.5	341.1	310.0	299.6	298.5
42.5°	5042.6	4990.7	1746.9	454.0	424.1	374.5	319.2	274.3	225.9	210.9	209.7
45°	5948.3	5640.6	1401.2	429.8	399.9	333.0	263.9	202.8	163.6	152.1	152.1
47.5°	7267.7	6494.5	1085.5	403.3	367.6	285.8	199.4	146.3	119.8	114.1	115.2
50°	8632.1	7331.1	832.0	369.9	328.4	236.2	147.5	106.0	91.0	91.0	92.2
52.5°	9842.0	7944.1	648.8	334.2	280.0	185.5	111.8	83.0	76.1	74.9	76.1
55°	10974.8	8339.4	496.7	292.7	222.4	138.3	85.3	68.0	63.4	61.1	59.9
57.5°	12067.2	8535.3	372.2	236.2	161.3	100.3	68.0	57.6	53.0	49.6	48.4
60°	12794.3	8376.3	255.8	174.0	111.8	72.6	56.5	49.6	43.8	40.3	39.2
62.5°	13204.5	7941.8	164.8	125.6	79.5	54.2	44.9	41.5	33.4	30.0	30.0
65°	13038.6	7225.1	115.2	89.9	57.6	40.3	33.4	33.4	24.2	19.6	18.4
67.5°	11554.4	6103.9	87.6	66.8	41.5	30.0	25.4	28.8	15.0	9.2	9.2
69°	9941.1	5058.7	74.9	55.3	34.6	24.2	21.9	26.5	10.4	6.9	5.8
70°	8640.2	4363.9	68.0	48.4	28.8	20.7	19.6	25.4	10.4	5.8	4.6
72.5°	5169.3	2433.7	51.9	34.6	18.4	16.1	16.1	28.8	10.4	5.8	4.6
75°	2089.2	857.3	38.0	24.2	13.8	13.8	19.6	36.9	9.2	4.6	3.5
77.5°	473.6	187.8	21.9	15.0	9.2	13.8	23.0	28.8	5.8	2.3	0.0
80°	115.2	46.1	13.8	9.2	5.8	10.4	17.3	16.1	1.2	0.0	0.0
82.5°	38.0	16.1	5.8	4.6	1.2	3.5	8.1	4.6	0.0	0.0	0.0
85°	16.1	9.2	2.3	1.2	0.0	0.0	1.2	0.0	0.0	0.0	0.0
87.5°	10.4	3.5	0.0	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)