

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: P323050

Luminaire Tested: **GAN-SA6C-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323050
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-SA6C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 24365 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

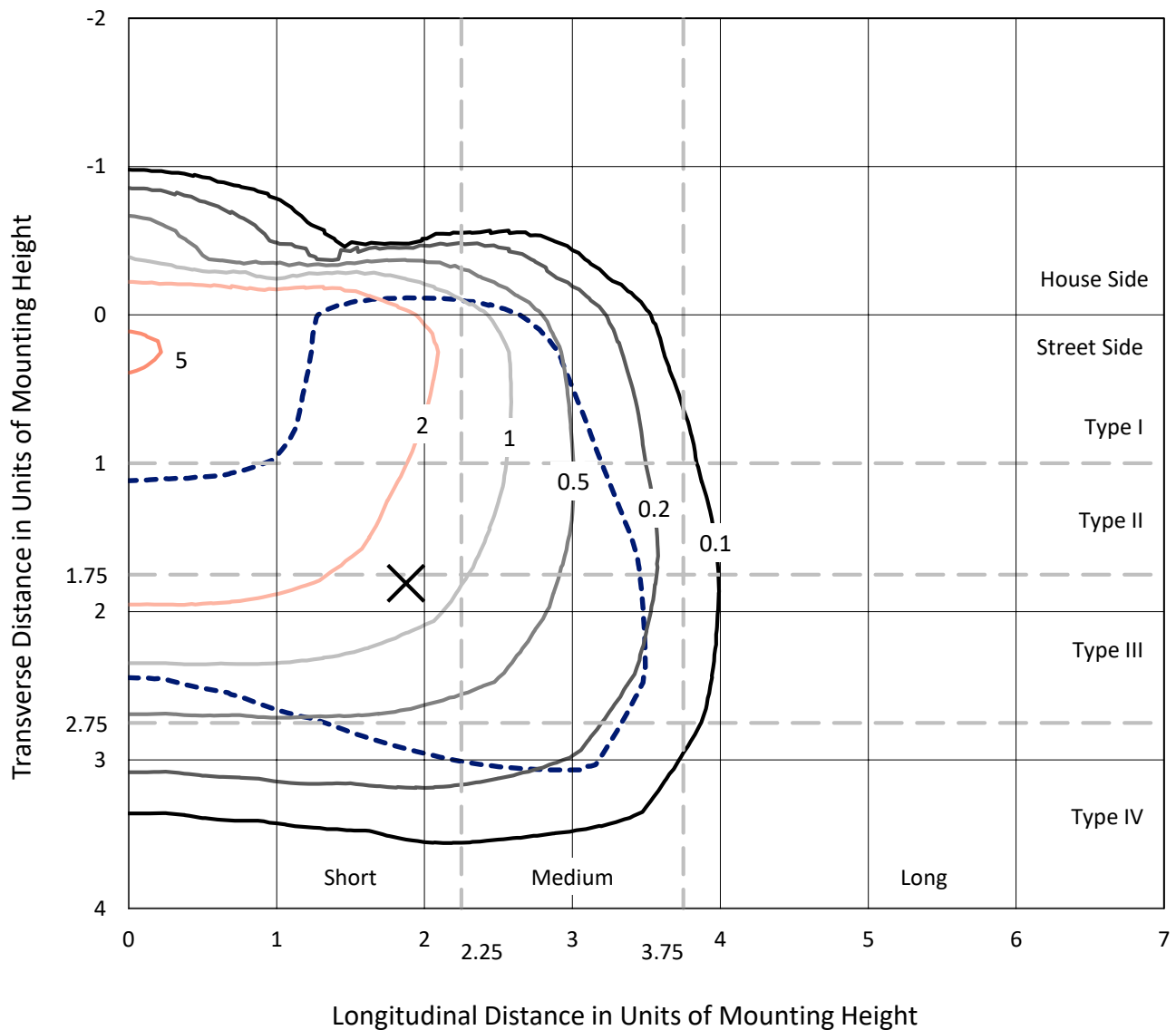
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

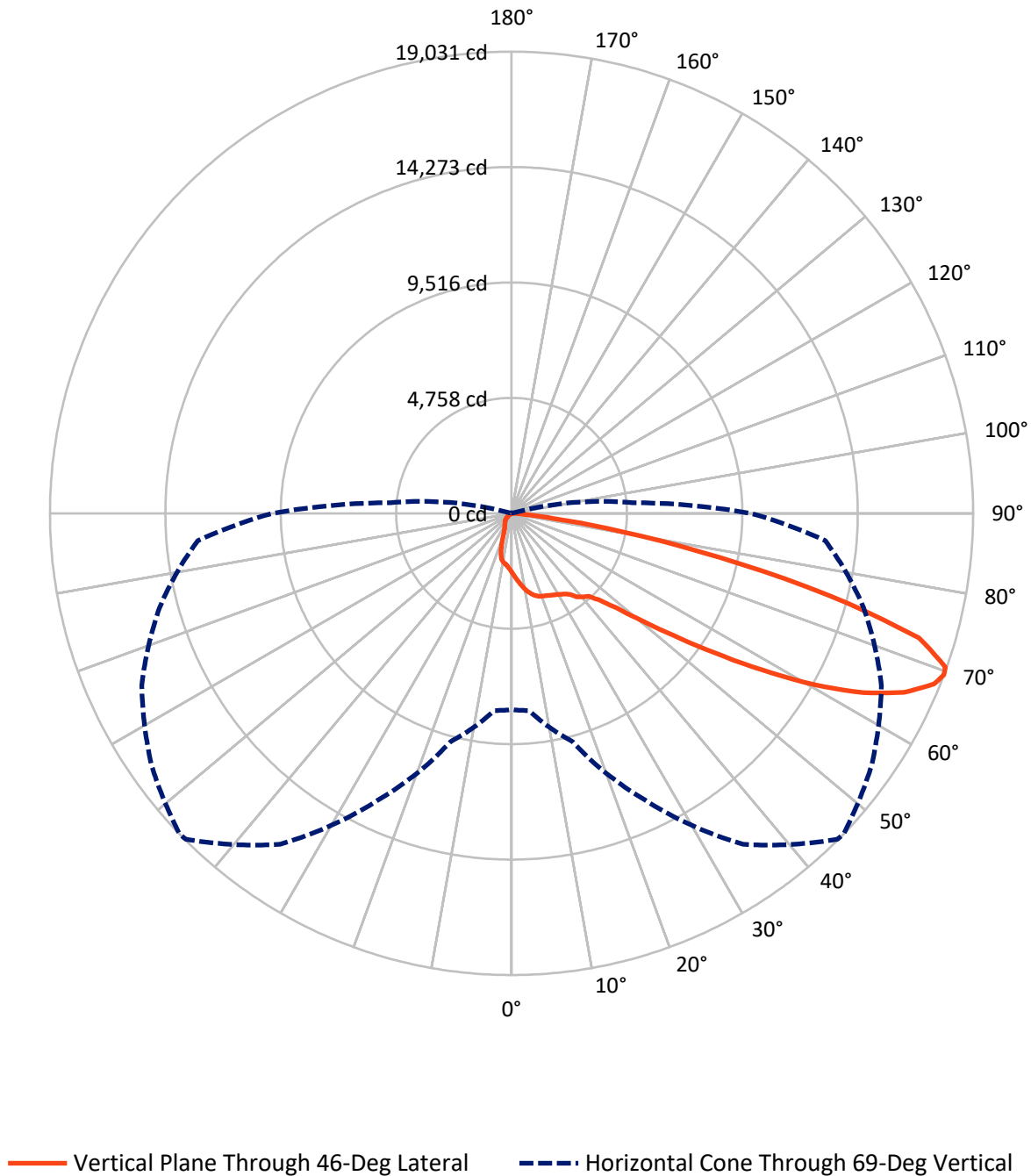
✕ Max cd
 - - - 1/2 Max cd



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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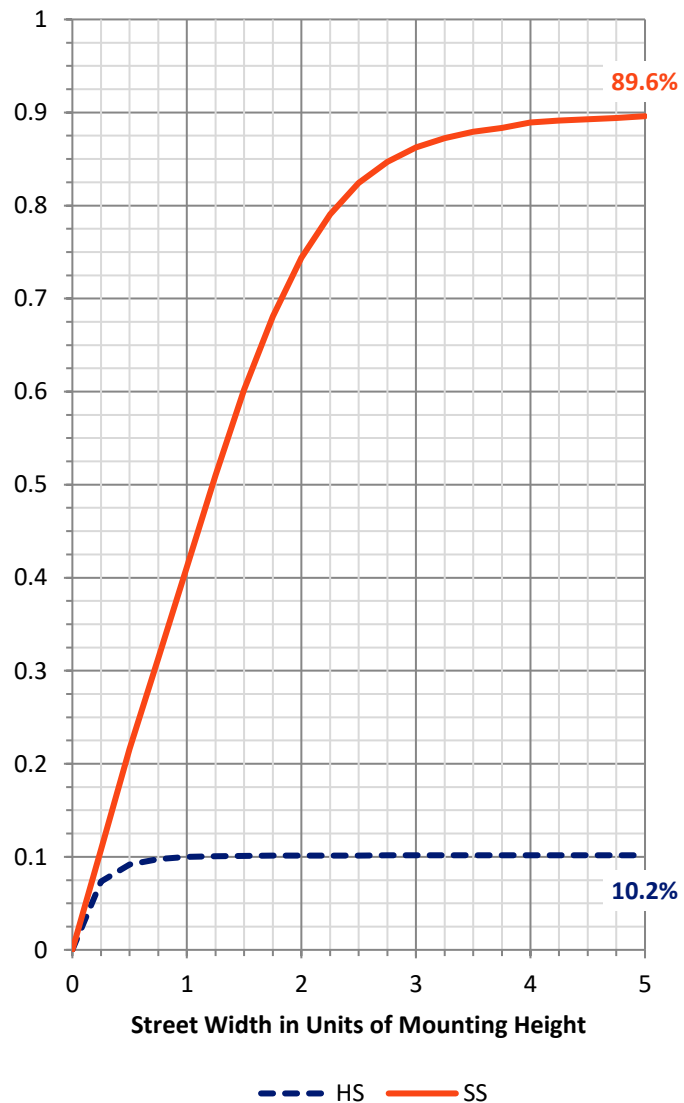
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2500.5	0.0	2500.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21864.5	0.0	21864.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	24365.0	0.0	24365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	1.0
10°-20°	737.2	3.0
20°-30°	1159.3	4.8
30°-40°	1662.5	6.8
40°-50°	2873.4	11.8
50°-60°	5676.7	23.3
60°-70°	7933.7	32.6
70°-80°	3832.8	15.7
80°-90°	246.4	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°	24365.0	100.0
0°-180°	24365.0	100.0

Coefficient of Utilization



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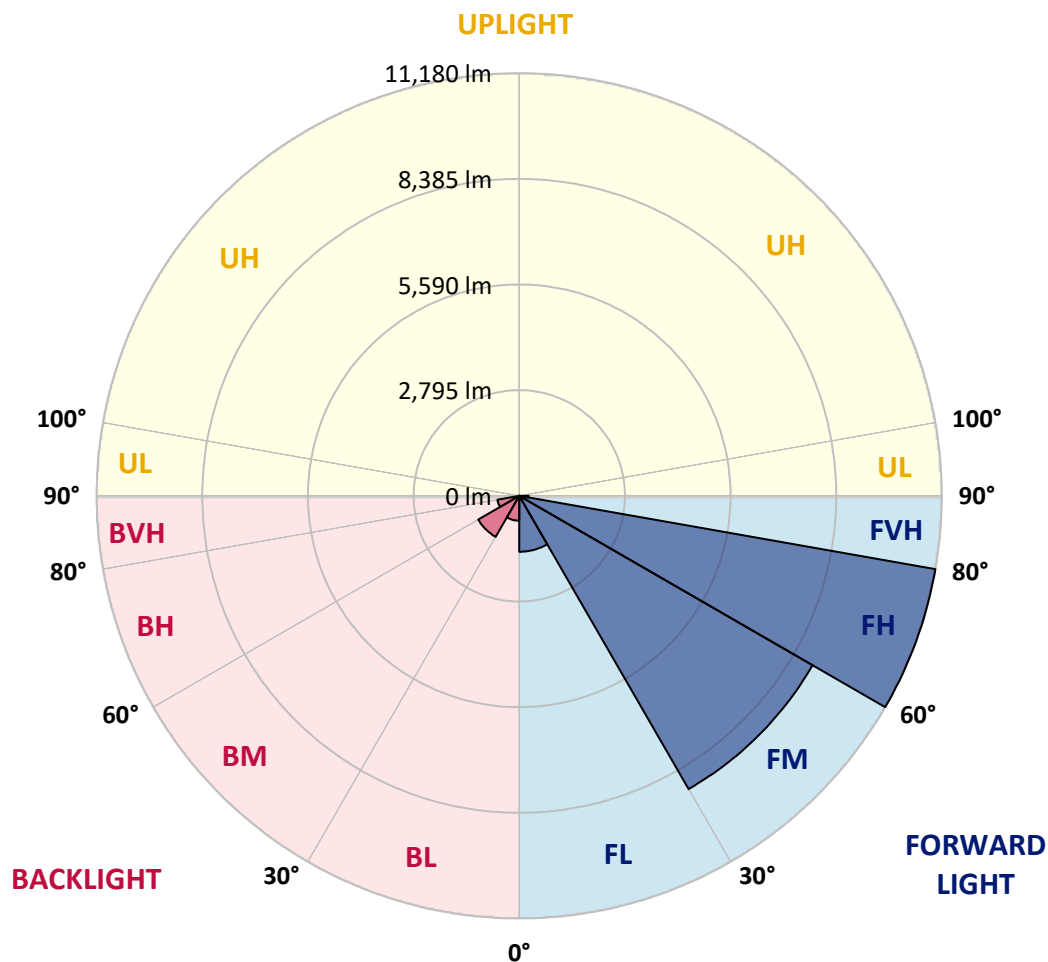
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.5	6.1			
FM	(30°-60°)	8959.5	36.8			
FH	(60°-80°)	11180.2	45.9			G4/12000
FVH	(80°-90°)	244.3	1.0			G3/500
BL	(0°-30°)	659.0	2.7	B2/1000		
BM	(30°-60°)	1253.1	5.1	B2/2500		
BH	(60°-80°)	586.3	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°	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2712.0	2708.6	2692.6	2685.8	2646.9	2624.1	2614.9	2586.4	2545.2	2504.1	2458.4
5°	3020.5	3019.3	2989.6	2961.1	2888.0	2819.4	2806.8	2740.6	2648.1	2561.2	2474.4
7.5°	3335.8	3320.9	3291.2	3236.4	3130.1	3020.5	3010.2	2916.5	2785.1	2659.5	2535.0
10°	3603.1	3594.0	3555.1	3471.7	3347.2	3222.7	3210.1	3094.7	2946.2	2792.0	2633.2
12.5°	3811.0	3804.2	3752.7	3648.8	3516.3	3387.2	3370.0	3267.2	3108.4	2935.9	2748.6
15°	3937.8	3934.4	3871.6	3760.7	3630.5	3518.6	3503.7	3413.5	3266.1	3085.6	2874.2
17.5°	3967.5	3968.7	3903.5	3791.6	3684.2	3604.2	3592.8	3524.3	3400.9	3221.5	2999.9
20°	3901.3	3915.0	3856.7	3759.6	3693.3	3651.1	3641.9	3600.8	3496.8	3327.8	3100.4
22.5°	3807.6	3814.4	3774.4	3709.3	3681.9	3689.9	3685.3	3662.5	3574.5	3419.2	3199.8
25°	3750.5	3750.5	3726.5	3671.6	3689.9	3739.0	3740.2	3735.6	3665.9	3531.1	3320.9
27.5°	3748.2	3741.3	3713.9	3672.8	3723.0	3798.4	3803.0	3833.9	3790.4	3667.1	3471.7
30°	3839.6	3831.6	3773.3	3719.6	3783.6	3864.7	3876.1	3943.5	3921.8	3814.4	3639.6
32.5°	4053.2	4024.6	3895.5	3807.6	3855.6	3952.7	3967.5	4074.9	4109.2	3996.1	3801.9
35°	4345.6	4255.4	4069.2	3974.4	3978.9	4080.6	4094.3	4252.0	4353.6	4162.9	3927.5
37.5°	4748.9	4704.4	4401.6	4148.0	4168.6	4322.8	4362.8	4534.1	4505.6	4254.3	4070.3
40°	5633.1	5563.4	5241.3	4634.7	4350.2	4519.3	4531.9	4623.2	4625.5	4461.0	4367.3
42.5°	6837.2	6808.6	6469.3	5517.7	4707.8	4650.7	4673.5	4827.7	5000.2	4897.4	4892.8
45°	8170.4	8155.5	7795.7	6689.8	5430.9	5081.3	5109.9	5316.7	5646.8	5669.7	5814.8
47.5°	9243.1	9236.2	9029.4	7997.9	6537.9	5811.3	5820.5	6039.8	6620.1	6906.9	7138.8
50°	10220.9	10254.1	10090.7	9413.3	8045.8	6954.9	6933.1	7079.4	8011.6	8481.1	8769.0
52.5°	11580.4	11627.2	11169.1	10733.9	9628.0	8373.7	8356.6	8509.6	9684.0	10035.9	10087.3
55°	12781.0	12701.1	12338.9	12213.3	11557.5	10126.1	10121.6	10256.4	11301.6	11451.3	11546.1
57.5°	13311.1	13280.3	13455.0	13742.9	13578.4	12197.3	12187.0	12084.2	12749.0	12765.0	13056.3
60°	13645.8	13683.5	14219.3	15106.9	15517.0	14426.1	14359.8	13732.6	14131.3	14095.9	14407.8
62.5°	13394.5	13468.7	14432.9	15912.3	16967.9	16371.6	16277.9	15242.9	15312.6	15190.3	15480.5
65°	12060.2	12175.6	13755.5	15760.4	17687.6	17892.1	17797.3	16576.0	16250.5	16049.4	15888.3
67.5°	9792.5	9861.1	11510.7	14438.6	17363.1	18799.1	18779.7	17744.7	16958.7	15904.3	14654.5
69°	8092.7	8160.1	9748.0	13047.2	16649.2	18993.3	19031.0	18119.4	16823.9	15022.4	12984.4
70°	6854.3	6926.3	8405.7	11854.6	15820.9	18903.1	18970.5	18084.0	16437.8	14001.1	11518.7
72.5°	3595.1	3656.8	5175.0	8166.9	12897.6	17357.4	17561.9	16555.5	13933.7	10168.4	6810.9
75°	1129.8	1165.2	2020.9	4269.1	8830.7	13496.2	13543.0	12986.7	9894.2	5593.1	2836.5
77.5°	430.7	420.4	672.9	1573.1	4464.5	8498.2	8785.0	8115.5	5192.2	1977.5	654.6
80°	231.9	233.0	349.6	651.2	1910.1	4367.3	4609.5	3933.2	1845.0	616.9	150.8
82.5°	100.5	105.1	196.5	345.0	877.4	1610.8	1731.9	1441.7	704.9	414.7	56.0
85°	21.7	24.0	94.8	187.4	357.6	452.4	474.1	467.2	449.0	322.2	21.7
87.5°	0.0	0.0	42.3	67.4	90.2	102.8	90.2	117.7	247.9	217.1	11.4
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°	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3	2441.3
2.5°	2443.6	2423.0	2387.6	2348.7	2321.3	2292.8	2269.9	2259.6	2248.2	2240.2	2250.5
5°	2439.0	2399.0	2330.5	2264.2	2216.2	2177.4	2145.4	2132.8	2120.3	2111.1	2110.0
7.5°	2479.0	2423.0	2317.9	2220.8	2146.5	2094.0	2050.6	2032.3	2017.5	2010.6	2004.9
10°	2555.5	2483.6	2343.0	2216.2	2120.3	2031.2	1937.5	1865.5	1818.7	1797.0	1789.0
12.5°	2654.9	2564.7	2391.0	2240.2	2100.9	1929.5	1730.7	1559.4	1448.5	1412.0	1390.3
15°	2771.4	2659.5	2453.8	2271.1	2030.0	1717.0	1380.0	1156.1	1053.3	1032.7	1009.9
17.5°	2883.4	2760.0	2529.2	2276.8	1874.7	1372.0	1011.0	859.1	819.1	832.8	836.2
20°	2981.6	2859.4	2603.5	2226.5	1592.5	1029.3	782.5	744.8	759.7	786.0	790.5
22.5°	3081.0	2955.4	2672.0	2094.0	1231.5	781.4	704.9	714.0	728.8	755.1	759.7
25°	3202.1	3071.9	2736.0	1850.7	924.2	664.9	669.4	683.1	698.0	722.0	724.3
27.5°	3341.5	3219.2	2778.3	1534.2	685.4	611.2	626.0	646.6	661.4	684.3	688.9
30°	3526.5	3413.5	2792.0	1206.4	574.6	563.2	570.1	595.2	616.9	637.5	640.9
32.5°	3700.2	3605.4	2746.3	910.5	532.4	518.6	518.6	533.5	558.6	578.0	582.6
35°	3860.1	3798.4	2600.1	666.0	500.4	477.5	466.1	466.1	482.1	498.1	502.7
37.5°	4071.5	4069.2	2363.6	531.2	469.5	443.2	419.3	401.0	395.3	398.7	401.0
40°	4433.6	4437.0	2055.2	476.4	443.2	407.8	371.3	338.1	307.3	297.0	295.9
42.5°	4999.1	4947.7	1731.9	450.1	420.4	371.3	316.4	271.9	223.9	209.1	207.9
45°	5897.0	5592.0	1389.1	426.1	396.4	330.1	261.6	201.1	162.2	150.8	150.8
47.5°	7205.0	6438.5	1076.1	399.8	364.4	283.3	197.6	145.1	118.8	113.1	114.2
50°	8557.6	7267.9	824.8	366.7	325.6	234.2	146.2	105.1	90.2	90.2	91.4
52.5°	9757.1	7875.6	643.2	331.3	277.6	183.9	110.8	82.3	75.4	74.3	75.4
55°	10880.1	8267.5	492.4	290.2	220.5	137.1	84.5	67.4	62.8	60.5	59.4
57.5°	11963.1	8461.7	369.0	234.2	159.9	99.4	67.4	57.1	52.5	49.1	48.0
60°	12683.9	8304.0	253.6	172.5	110.8	72.0	56.0	49.1	43.4	40.0	38.8
62.5°	13090.6	7873.3	163.4	124.5	78.8	53.7	44.6	41.1	33.1	29.7	29.7
65°	12926.1	7162.8	114.2	89.1	57.1	40.0	33.1	33.1	24.0	19.4	18.3
67.5°	11454.7	6051.2	86.8	66.3	41.1	29.7	25.1	28.6	14.9	9.1	9.1
69°	9855.4	5015.1	74.3	54.8	34.3	24.0	21.7	26.3	10.3	6.9	5.7
70°	8565.6	4326.2	67.4	48.0	28.6	20.6	19.4	25.1	10.3	5.7	4.6
72.5°	5124.7	2412.7	51.4	34.3	18.3	16.0	16.0	28.6	10.3	5.7	4.6
75°	2071.1	849.9	37.7	24.0	13.7	13.7	19.4	36.6	9.1	4.6	3.4
77.5°	469.5	186.2	21.7	14.9	9.1	13.7	22.8	28.6	5.7	2.3	0.0
80°	114.2	45.7	13.7	9.1	5.7	10.3	17.1	16.0	1.1	0.0	0.0
82.5°	37.7	16.0	5.7	4.6	1.1	3.4	8.0	4.6	0.0	0.0	0.0
85°	16.0	9.1	2.3	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	10.3	3.4	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)