

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: P321537

Luminaire Tested: **GAN-SA3D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15236 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

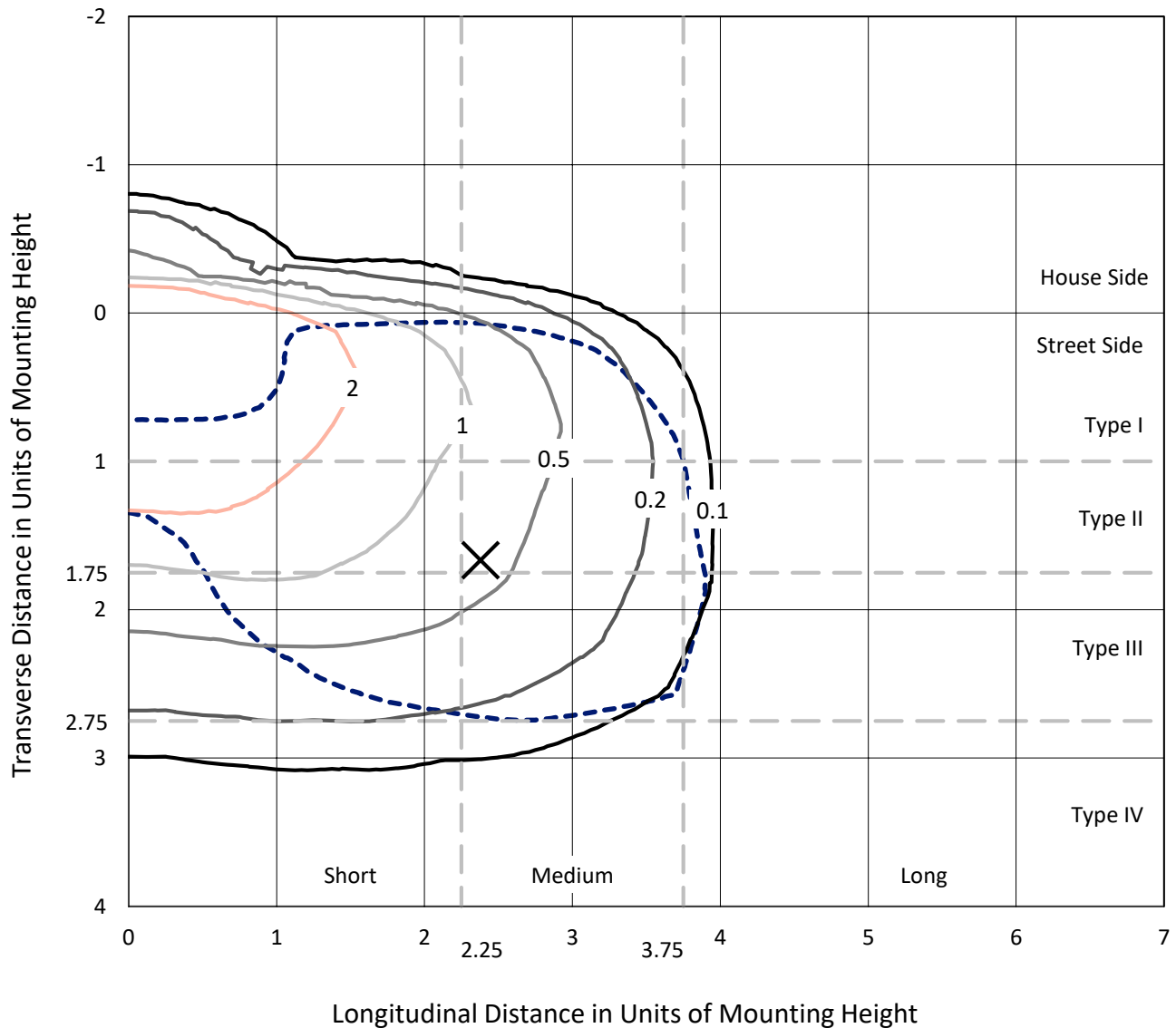
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

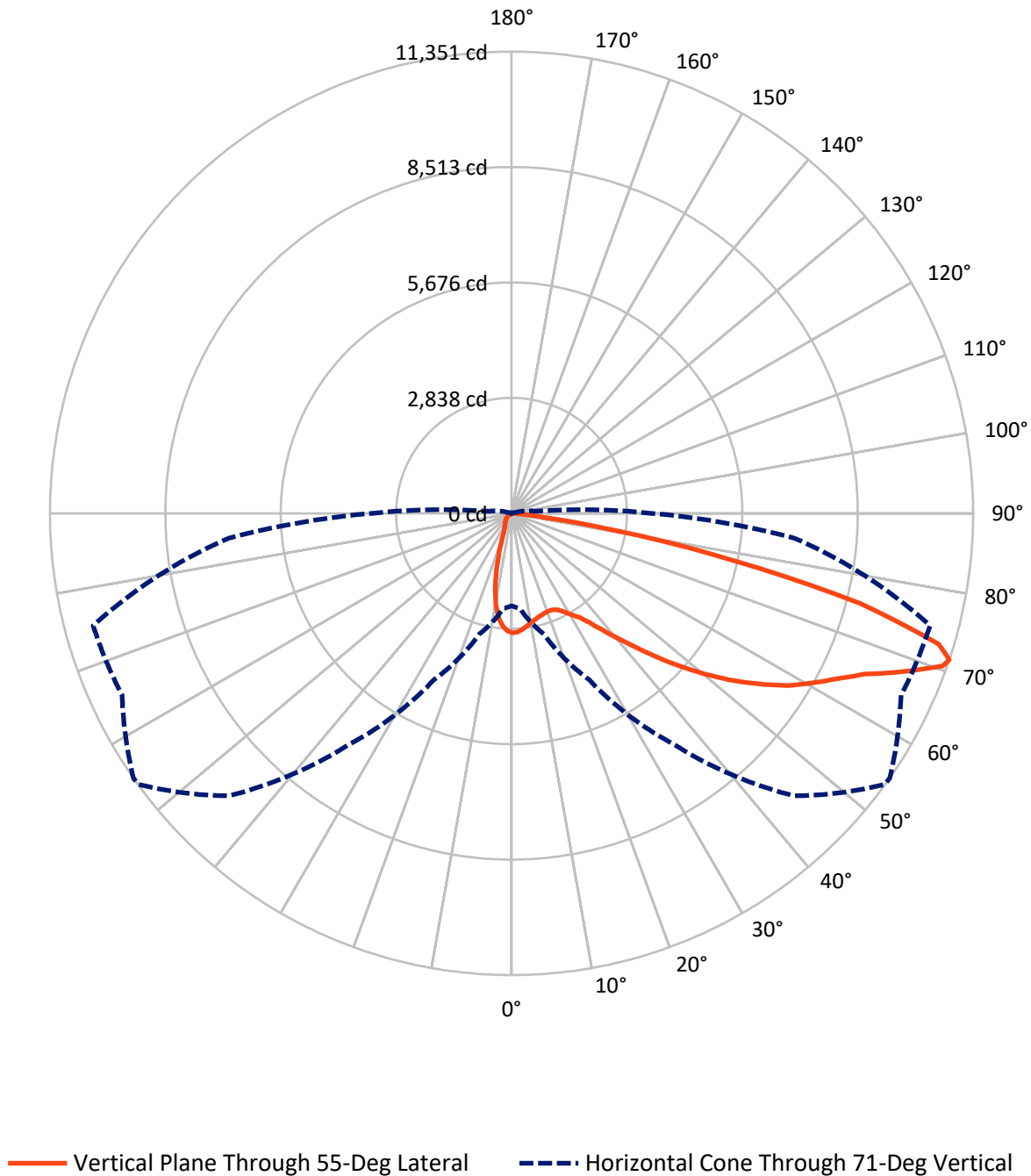
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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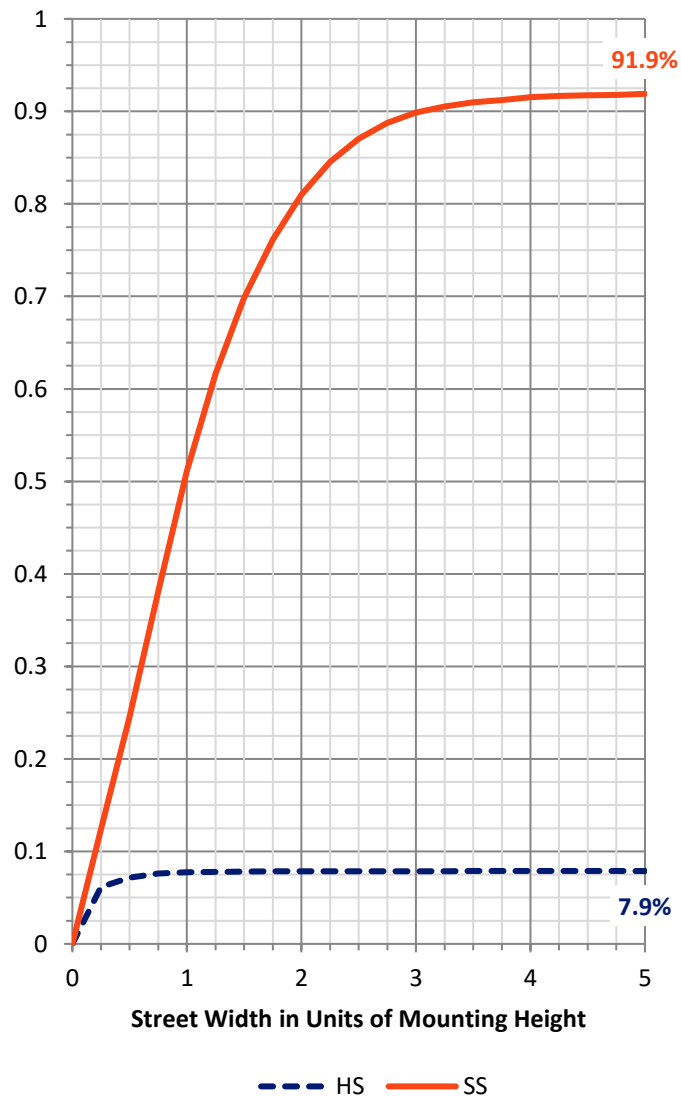
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1206.3	0.0	1206.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	14029.7	0.0	14029.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	15236.0	0.0	15236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.6
10°-20°	565.6	3.7
20°-30°	908.9	6.0
30°-40°	1544.3	10.1
40°-50°	2397.0	15.7
50°-60°	3222.7	21.2
60°-70°	3942.4	25.9
70°-80°	2305.0	15.1
80°-90°	99.6	0.7
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°	15236.0	100.0
0°-180°	15236.0	100.0

Coefficient of Utilization



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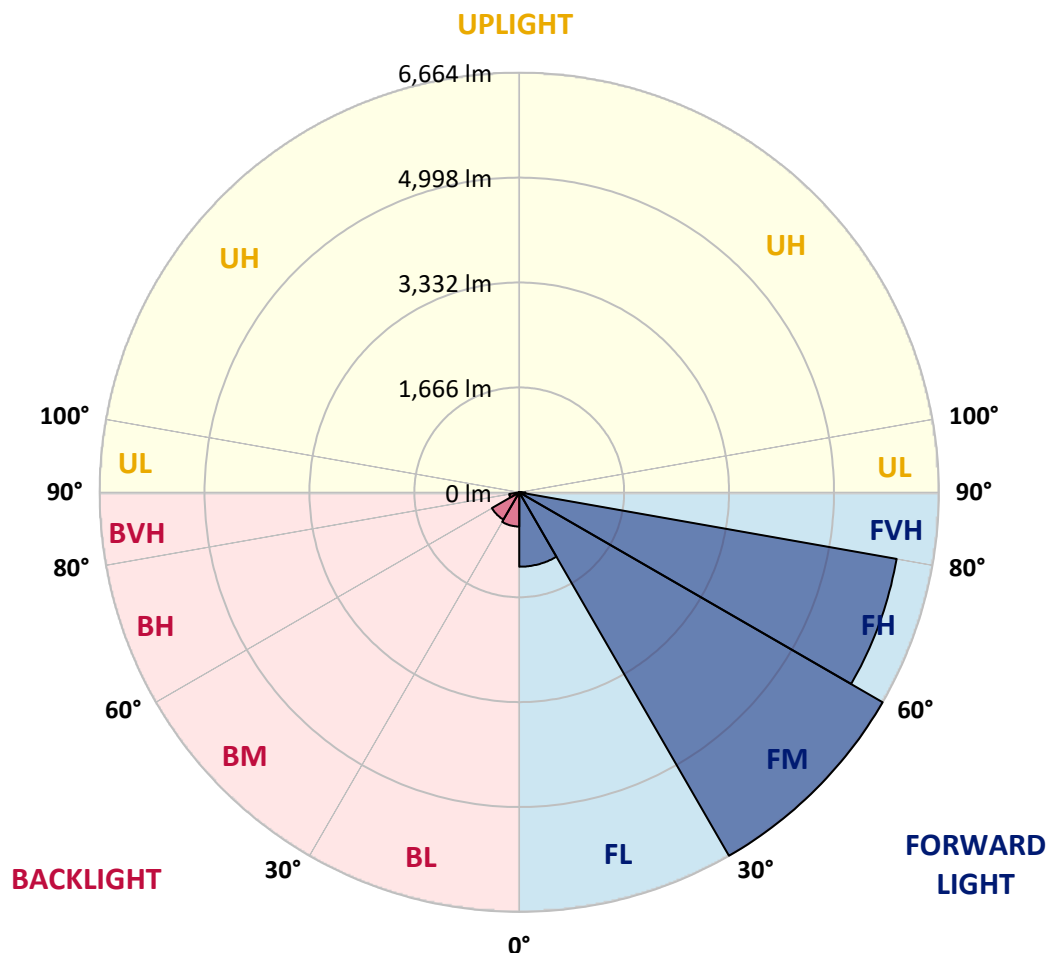
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1182.1	7.8			
FM	(30°-60°)	6663.8	43.7			
FH	(60°-80°)	6085.8	39.9			G3/7500
FVH	(80°-90°)	98.1	0.6			G1/100
BL	(0°-30°)	542.9	3.6	B2/1000		
BM	(30°-60°)	500.1	3.3	B1/1000		
BH	(60°-80°)	161.6	1.1	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	54°	55°	65°	75°	85°
0°	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3
2.5°	2852.1	2855.5	2867.9	2873.3	2886.3	2908.2	2919.2	2919.8	2937.6	2944.5	2949.9
5°	2650.3	2670.8	2691.3	2713.2	2752.9	2805.6	2857.6	2862.4	2919.8	2962.3	2984.8
7.5°	2476.5	2495.0	2519.6	2554.5	2610.6	2693.4	2780.3	2790.5	2899.3	2995.8	3046.4
10°	2298.0	2313.0	2348.6	2399.9	2477.2	2588.0	2705.0	2722.1	2880.9	3040.9	3129.9
12.5°	2107.1	2116.0	2159.1	2233.0	2346.5	2487.5	2641.4	2664.0	2869.2	3092.9	3228.4
15°	1962.1	1966.2	2007.2	2083.8	2213.8	2397.2	2592.1	2619.5	2872.0	3155.2	3335.8
17.5°	1925.1	1927.2	1949.1	2001.8	2116.7	2316.4	2553.2	2586.7	2880.2	3216.1	3443.9
20°	2075.0	2060.6	2038.0	2029.8	2079.1	2267.9	2529.9	2567.5	2891.1	3270.1	3541.0
22.5°	2486.1	2443.7	2350.0	2224.8	2148.8	2271.3	2536.1	2573.7	2926.0	3336.5	3653.2
25°	3096.4	3037.5	2878.1	2631.8	2395.1	2369.8	2587.4	2625.7	2993.7	3415.8	3760.6
27.5°	3790.7	3732.6	3537.6	3186.0	2782.3	2564.8	2705.0	2740.6	3094.3	3486.3	3842.7
30°	4455.7	4439.3	4209.4	3809.9	3269.4	2880.9	2856.9	2887.0	3168.9	3528.7	3907.7
32.5°	5019.4	4993.4	4808.7	4420.1	3827.0	3260.5	3035.5	3044.4	3225.0	3583.4	3992.6
35°	5542.1	5509.9	5347.8	4980.4	4398.9	3724.4	3310.5	3297.5	3347.4	3693.6	4115.7
37.5°	5998.4	6027.8	5847.9	5498.3	4912.0	4206.7	3681.3	3642.3	3539.0	3872.8	4294.3
40°	6380.2	6380.2	6286.4	5995.0	5466.2	4705.4	4100.6	4049.3	3827.0	4149.2	4520.7
42.5°	6517.7	6547.1	6582.0	6417.1	5962.2	5224.0	4567.9	4514.5	4232.7	4541.2	4806.7
45°	6525.9	6572.4	6750.9	6750.3	6410.3	5739.1	5094.7	5069.4	4752.6	5044.7	5161.0
47.5°	6410.3	6468.4	6762.6	6929.5	6765.3	6218.7	5670.7	5639.2	5363.5	5661.8	5531.8
50°	6231.7	6296.0	6638.1	7000.0	7006.8	6636.0	6277.5	6230.3	6036.0	6367.2	5914.9
52.5°	5912.2	6036.7	6526.6	7016.4	7165.5	6996.5	6854.9	6834.4	6788.6	7046.5	6220.1
55°	5228.8	5367.0	6246.7	7021.9	7312.6	7316.0	7396.1	7401.5	7493.9	7681.4	6447.2
57.5°	4905.9	4983.9	5758.3	7047.9	7530.8	7678.6	7947.5	7989.9	8132.9	8284.1	6706.5
60°	4702.7	4795.0	5517.5	7012.3	7873.6	8154.1	8458.5	8472.9	8626.1	8905.9	7057.4
62.5°	4540.5	4631.5	5365.6	6875.5	8258.8	8726.0	8957.9	8959.3	9074.2	9646.8	7456.3
65°	4140.3	4216.9	5058.4	6721.5	8513.3	9291.8	9538.1	9529.2	9622.9	10428.1	7919.4
67.5°	3561.6	3620.4	4431.1	6138.0	8417.5	9806.2	10413.8	10384.3	10270.8	11103.4	8101.4
70°	2753.6	2774.8	3492.5	5115.2	7519.9	10004.0	11260.0	11245.0	10668.2	10982.3	7434.4
71°	2276.1	2345.9	3077.9	4514.5	6918.6	9821.3	11342.1	11351.0	10568.4	10652.5	6975.3
72.5°	1321.7	1381.2	2230.9	3467.1	5873.9	9059.2	10916.6	10980.9	10101.8	9689.3	5958.0
75°	283.2	303.1	827.1	1678.2	3231.1	6349.4	8616.6	8845.7	8233.4	6591.5	3591.0
77.5°	197.0	212.8	354.4	761.4	1067.9	3137.4	5352.6	5611.2	4918.9	2477.2	1149.3
80°	156.0	173.8	276.4	376.3	288.7	1011.8	2507.3	2665.4	1640.5	552.8	193.6
82.5°	86.9	103.3	215.5	203.2	110.8	192.2	701.9	793.6	328.4	111.5	45.8
85°	25.3	30.8	138.9	147.8	47.2	36.9	119.7	148.5	62.3	29.4	20.5
87.5°	0.0	0.0	67.0	56.8	13.7	5.5	10.9	12.3	12.3	12.3	13.7
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°	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3	2938.3
2.5°	2949.9	2954.7	2937.6	2915.1	2891.1	2861.7	2830.9	2807.0	2806.3	2794.7	2783.0
5°	2986.2	2983.5	2936.3	2864.4	2779.6	2691.3	2607.2	2512.1	2480.6	2441.6	2428.6
7.5°	3053.3	3034.1	2934.2	2776.9	2590.8	2406.1	2215.2	2023.0	1940.9	1867.0	1854.0
10°	3137.4	3101.1	2921.2	2645.5	2304.1	1963.4	1675.4	1414.1	1299.2	1210.9	1206.8
12.5°	3225.0	3169.6	2885.0	2447.1	1928.5	1449.7	1117.9	860.6	764.9	703.3	708.8
15°	3316.6	3233.9	2807.0	2179.6	1501.0	983.8	686.9	535.7	497.4	481.6	485.7
17.5°	3410.4	3278.3	2698.2	1857.4	1078.9	634.9	475.5	433.1	433.1	436.5	437.8
20°	3491.8	3302.3	2538.1	1496.2	731.3	462.5	415.9	409.8	413.2	418.7	419.4
22.5°	3572.5	3303.6	2329.4	1130.2	511.7	405.0	396.1	393.4	395.4	401.6	402.3
25°	3638.2	3287.2	2068.1	803.8	408.4	381.7	377.6	376.3	377.6	385.2	385.2
27.5°	3664.9	3227.7	1749.3	565.1	366.0	355.7	354.4	355.7	357.8	363.3	364.0
30°	3667.6	3123.7	1401.8	409.1	331.8	320.9	323.6	328.4	326.3	325.0	326.3
32.5°	3674.4	3003.3	1063.1	336.6	303.1	286.0	282.5	282.5	274.3	269.5	266.8
35°	3697.0	2861.7	771.0	302.4	273.7	253.8	240.8	225.8	210.0	201.8	199.8
37.5°	3732.6	2713.2	552.1	279.8	247.7	225.1	200.4	173.8	151.2	145.0	145.0
40°	3797.6	2560.0	408.4	262.0	227.1	199.1	162.1	127.2	106.7	103.3	103.3
42.5°	3900.2	2398.5	325.6	246.3	209.3	172.4	123.8	92.4	77.3	75.3	74.6
45°	4006.9	2220.7	284.6	231.2	190.2	141.6	91.7	68.4	59.5	57.5	57.5
47.5°	4113.6	2031.2	264.8	216.9	171.7	110.1	68.4	54.0	49.9	49.9	50.6
50°	4203.9	1833.5	250.4	201.1	147.8	83.5	54.0	45.8	44.5	47.2	47.9
52.5°	4226.5	1639.2	232.6	181.3	118.4	63.6	44.5	40.4	40.4	40.4	40.4
55°	4212.8	1488.7	209.3	156.7	87.6	50.6	38.3	35.6	34.9	34.9	34.9
57.5°	4259.4	1399.7	167.6	121.8	62.9	41.0	33.5	31.5	30.1	29.4	29.4
60°	4353.1	1341.6	119.7	87.6	47.2	34.2	28.7	26.7	24.6	23.3	23.3
62.5°	4477.6	1290.9	88.9	65.0	36.3	27.4	23.9	21.9	19.2	17.8	17.8
65°	4573.4	1200.6	67.7	48.6	27.4	21.9	18.5	17.8	13.7	12.3	11.6
67.5°	4427.0	1002.2	54.7	35.6	20.5	17.1	14.4	13.7	8.2	6.8	6.8
70°	3796.9	697.8	43.8	26.0	15.1	13.7	11.6	8.9	6.2	5.5	5.5
71°	3443.2	582.9	39.7	21.9	13.0	13.0	10.9	7.5	5.5	4.8	4.8
72.5°	2860.3	413.9	33.5	17.1	11.6	13.7	11.6	6.8	5.5	4.8	4.1
75°	1660.4	173.1	23.3	11.6	8.9	16.4	15.1	6.2	4.1	3.4	3.4
77.5°	499.4	63.6	13.0	7.5	6.8	14.4	17.1	5.5	2.1	0.7	0.7
80°	91.0	27.4	8.2	4.8	4.8	8.9	13.0	2.7	0.0	0.0	0.0
82.5°	32.2	13.7	4.8	2.7	2.1	4.1	6.2	0.0	0.0	0.0	0.0
85°	18.5	9.6	2.7	1.4	0.0	0.7	1.4	0.0	0.0	0.0	0.0
87.5°	12.3	2.7	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)