

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: P322018

Luminaire Tested: **GAN-SA4D-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22265 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 258
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

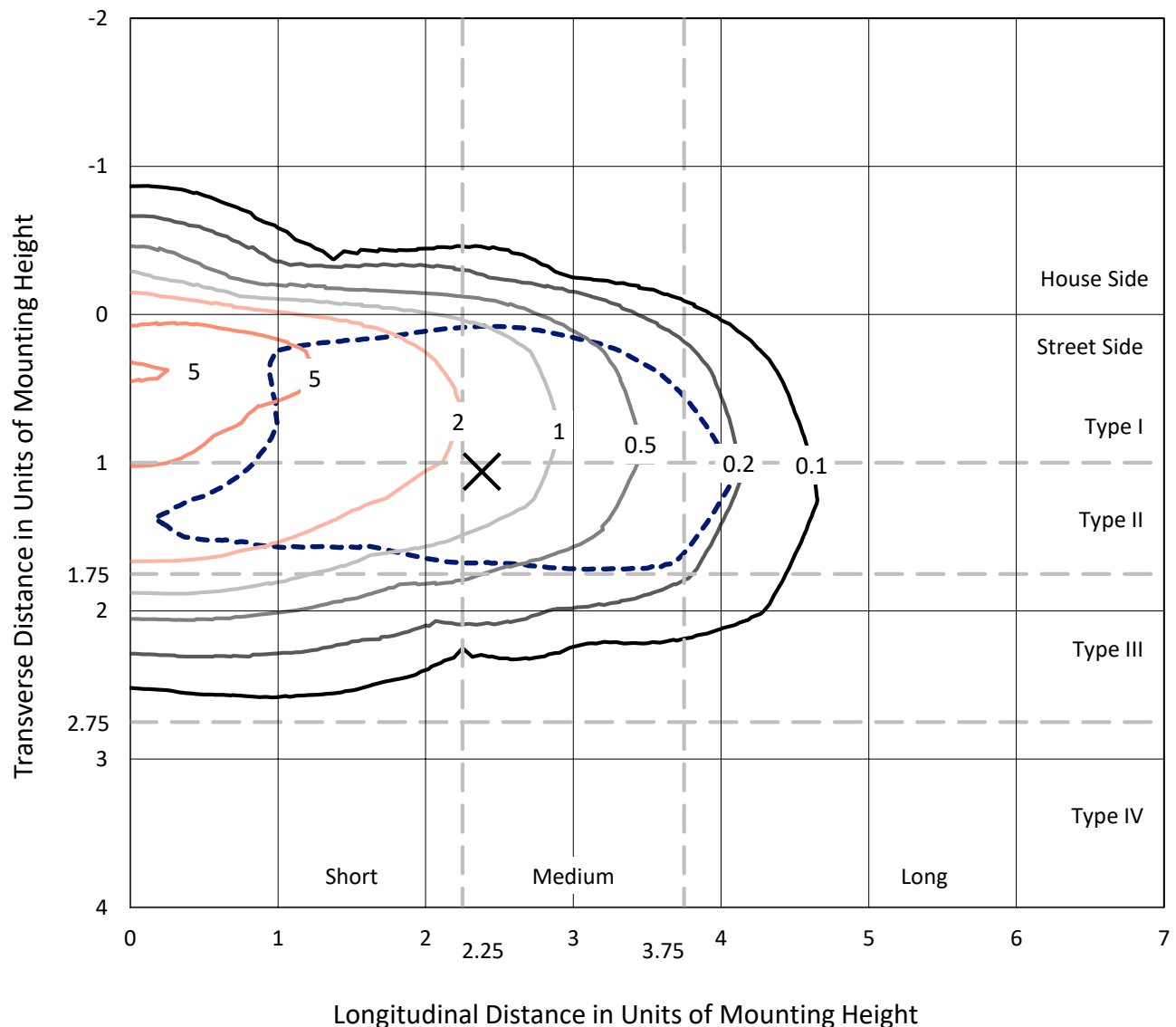


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Iso-Footcandle Lines of Horizontal Illumination

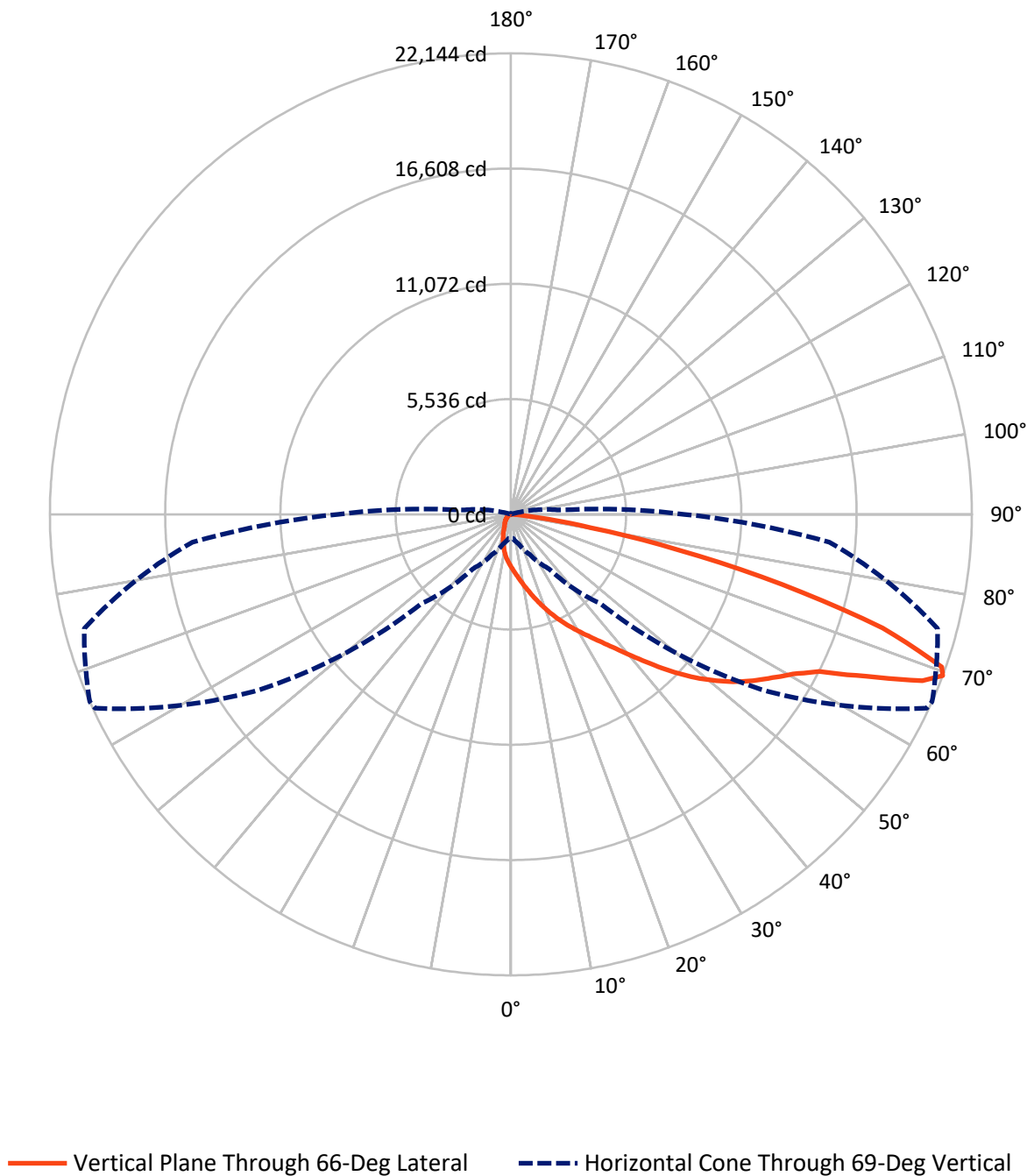
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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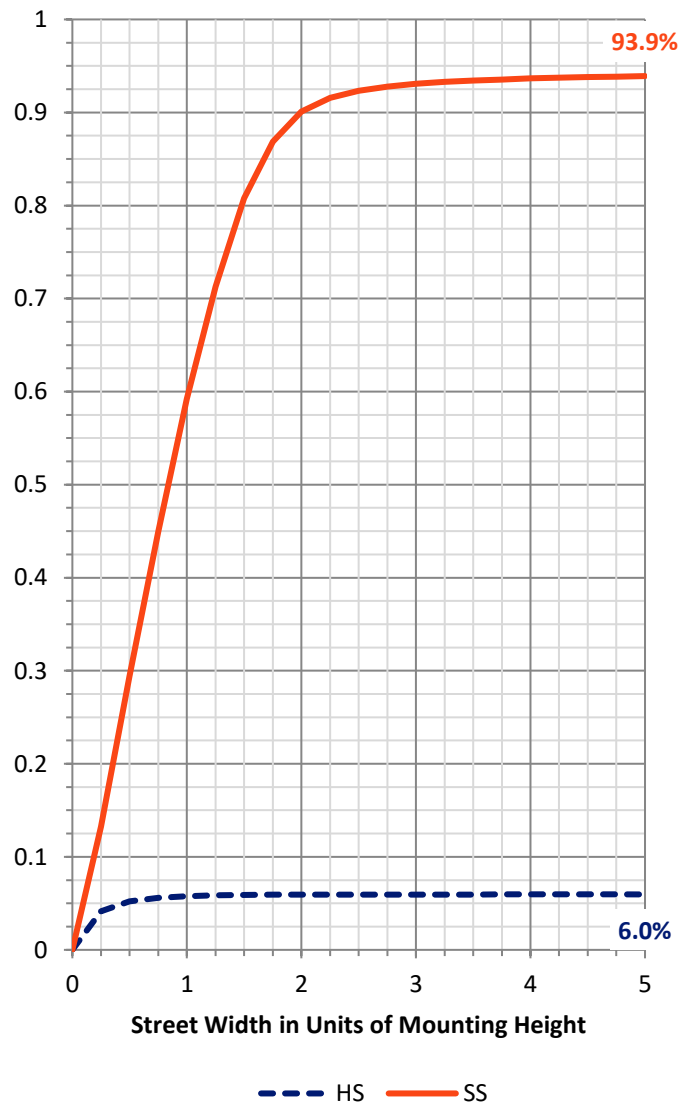
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.6	0.0	1335.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	20929.4	0.0	20929.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	22265.0	0.0	22265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.9	1.1
10°-20°	729.0	3.3
20°-30°	1269.4	5.7
30°-40°	2227.1	10.0
40°-50°	3727.8	16.7
50°-60°	5479.6	24.6
60°-70°	5626.1	25.3
70°-80°	2777.5	12.5
80°-90°	183.6	0.8
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°	22265.0	100.0
0°-180°	22265.0	100.0

Coefficient of Utilization



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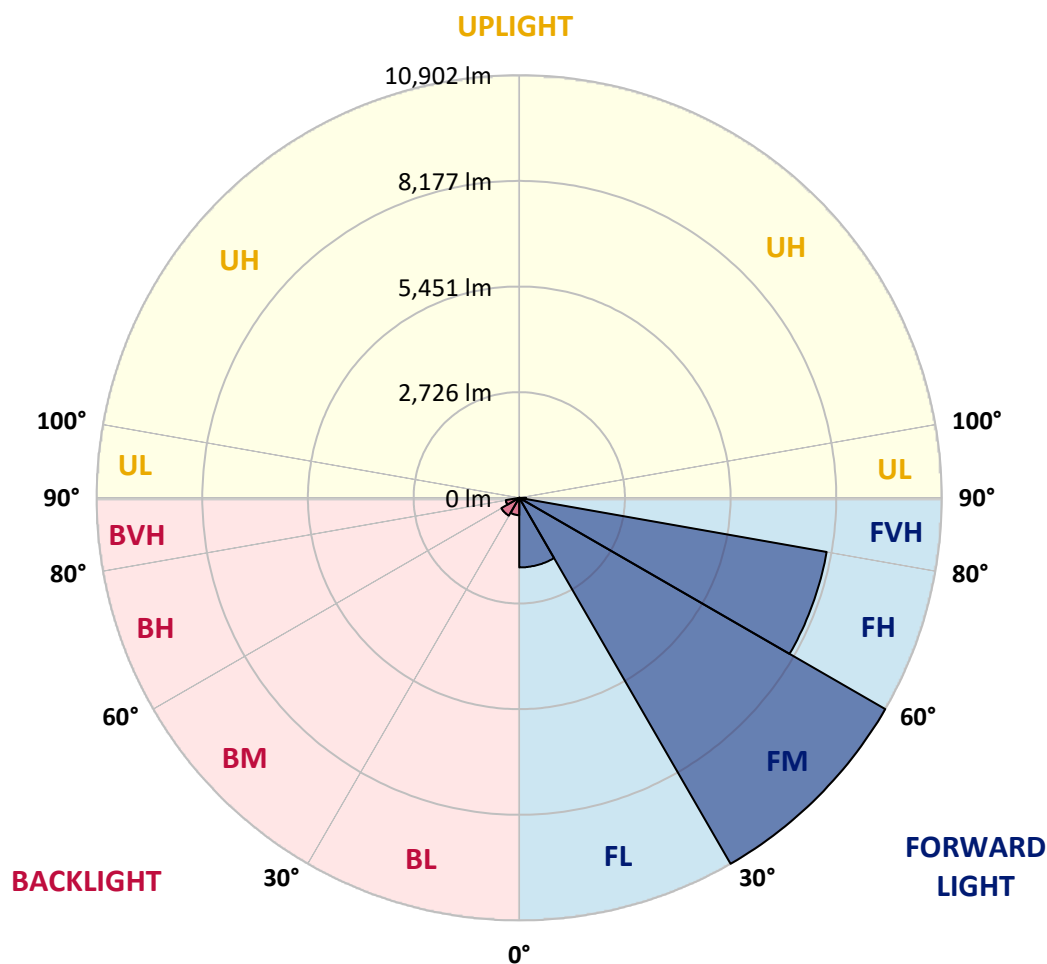
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1796.6	8.1			
FM	(30°-60°)	10902.0	49.0			
FH	(60°-80°)	8051.6	36.2			G4/12000
FVH	(80°-90°)	179.2	0.8			G2/225
BL	(0°-30°)	446.7	2.0	B1/500		
BM	(30°-60°)	532.5	2.4	B1/1000		
BH	(60°-80°)	352.0	1.6	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8
2.5°	2982.2	2969.5	2964.2	2941.0	2900.8	2870.1	2810.9	2742.2	2729.5	2662.8	2581.4
5°	3369.3	3358.7	3351.3	3318.5	3277.3	3200.1	3092.2	2964.2	2939.9	2813.0	2650.2
7.5°	3638.9	3658.0	3658.0	3636.8	3585.0	3526.8	3394.7	3220.2	3189.5	2994.9	2742.2
10°	3796.5	3819.8	3837.8	3855.7	3848.3	3825.1	3700.3	3503.6	3466.6	3208.5	2849.0
12.5°	3811.3	3834.6	3885.3	3960.4	4033.4	4086.3	4008.0	3817.7	3775.4	3456.0	2975.9
15°	3728.8	3753.2	3831.4	3977.3	4154.0	4308.4	4333.7	4165.6	4122.2	3751.0	3134.5
17.5°	3585.0	3600.9	3713.0	3915.0	4192.0	4475.4	4628.8	4538.9	4498.7	4088.4	3311.1
20°	3478.2	3489.8	3588.2	3805.0	4168.8	4580.1	4908.0	4935.5	4893.2	4450.1	3502.5
22.5°	3661.1	3682.3	3685.5	3788.1	4105.3	4632.0	5153.3	5325.7	5294.0	4833.9	3690.8
25°	4161.4	4185.7	4105.3	4041.9	4159.2	4655.2	5363.8	5725.4	5700.1	5247.4	3880.1
27.5°	4822.3	4847.7	4744.1	4554.8	4441.6	4743.0	5550.9	6131.5	6130.5	5685.3	4084.2
30°	5471.6	5497.0	5391.3	5202.0	4941.8	4991.5	5712.7	6556.7	6563.0	6136.8	4301.0
32.5°	6152.7	6184.4	6075.5	5832.2	5560.5	5420.9	5940.1	6983.9	7019.8	6660.3	4545.2
35°	6926.8	6931.0	6777.7	6522.8	6209.8	5995.1	6305.0	7462.9	7548.6	7308.6	4855.1
37.5°	7686.1	7716.8	7590.9	7189.1	6901.4	6658.2	6847.5	8061.5	8183.1	8100.6	5260.1
40°	8248.7	8313.2	8295.2	7861.6	7588.8	7415.4	7521.1	8773.2	8927.6	9022.8	5770.9
42.5°	8601.9	8650.5	8733.0	8471.8	8224.4	8252.9	8316.4	9602.3	9792.7	10074.0	6357.8
45°	9006.9	9030.2	9098.9	8983.7	8816.6	9104.2	9160.3	10536.1	10736.0	11204.5	7009.3
47.5°	9501.9	9556.8	9575.9	9470.1	9394.0	9857.2	9973.5	11385.3	11665.6	12415.3	7698.8
50°	10132.1	10146.9	10179.7	10111.0	10034.8	10504.4	10703.2	12276.8	12531.7	13630.4	8378.8
52.5°	10748.7	10801.6	10915.8	10872.4	10841.7	11055.4	11353.6	13080.5	13365.0	14643.5	9057.7
55°	10926.3	10971.8	11366.3	11635.9	11885.5	11734.3	11975.4	13800.7	14108.4	15548.8	9711.2
57.5°	10216.7	10308.7	10991.9	11694.1	12729.4	12789.7	12829.9	14539.9	14815.9	16242.5	10391.2
60°	8423.2	8441.2	9562.1	10766.7	12589.8	13710.8	14077.8	15334.1	15565.7	16888.7	11205.5
62.5°	5357.4	5540.4	6770.3	8470.8	11113.5	13577.6	15586.9	16535.5	16620.1	17663.8	12373.0
65°	2551.8	2670.2	3556.5	5233.7	8049.9	11871.8	16628.5	18708.7	18746.7	19200.4	13932.9
67.5°	1412.9	1470.0	1891.9	2817.2	4706.0	8395.7	16207.6	21282.7	21318.6	20769.8	15301.3
69°	1105.1	1153.8	1485.8	2123.5	3190.6	6034.2	14666.8	22036.7	22143.5	21219.2	15350.0
70°	938.0	985.6	1279.6	1793.6	2565.6	4662.6	13055.1	21849.5	21962.7	21176.9	14987.2
72.5°	574.2	601.7	852.4	1262.7	1719.5	2345.6	8050.9	18478.1	18669.5	19425.7	12880.6
75°	387.1	401.9	533.0	871.4	1229.9	1207.7	4182.5	13024.5	13439.0	15111.0	9513.5
77.5°	277.1	290.8	357.4	563.7	861.9	797.4	1894.0	8094.3	8183.1	9063.0	5188.2
80°	157.6	170.3	252.7	335.2	584.8	531.9	753.0	3866.3	3910.7	3886.4	1732.2
82.5°	82.5	93.1	138.5	221.0	375.4	347.9	313.0	1294.4	1300.8	1081.8	379.7
85°	15.9	19.0	68.7	151.2	193.5	151.2	128.0	303.5	309.9	273.9	94.1
87.5°	0.0	1.1	27.5	33.8	38.1	39.1	41.2	59.2	63.5	85.7	25.4
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°	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8	2533.8
2.5°	2545.5	2507.4	2434.4	2349.8	2284.3	2219.7	2169.0	2116.1	2097.1	2087.6	2086.5
5°	2570.8	2490.5	2336.1	2177.4	2047.4	1924.7	1836.9	1753.4	1714.2	1696.3	1688.9
7.5°	2613.1	2484.1	2235.6	1993.4	1806.3	1652.9	1531.3	1440.3	1394.9	1375.8	1368.4
10°	2662.8	2475.7	2118.2	1798.8	1559.8	1401.2	1280.7	1190.8	1141.1	1119.9	1109.3
12.5°	2721.0	2460.9	1982.9	1602.1	1349.4	1190.8	1044.8	933.8	876.7	852.4	840.7
15°	2792.9	2446.1	1841.1	1417.1	1164.3	970.8	811.1	736.0	724.4	720.2	721.2
17.5°	2863.8	2422.8	1686.8	1234.1	969.7	758.2	676.8	672.6	674.7	674.7	674.7
20°	2927.2	2369.9	1518.6	1077.6	784.7	639.8	622.9	615.5	610.2	606.0	600.7
22.5°	2976.9	2299.1	1356.8	922.2	640.9	585.9	559.4	536.2	517.1	504.4	498.1
25°	3010.8	2204.9	1208.8	773.1	576.4	533.0	485.4	446.3	416.7	398.7	391.3
27.5°	3036.2	2103.4	1076.6	647.2	531.9	471.7	409.3	362.7	332.1	316.2	309.9
30°	3054.1	1988.1	960.2	568.9	482.2	407.1	340.5	295.0	272.8	264.4	260.2
32.5°	3071.1	1860.2	850.2	531.9	435.7	347.9	285.5	250.6	236.9	226.3	223.1
35°	3113.4	1741.7	745.6	492.8	388.1	297.2	245.3	220.0	206.2	199.9	197.8
37.5°	3213.8	1654.0	645.1	452.6	340.5	257.0	214.7	196.7	184.0	177.7	175.5
40°	3375.6	1609.6	560.5	409.3	294.0	226.3	194.6	177.7	163.9	154.4	152.3
42.5°	3613.6	1615.9	501.3	365.9	257.0	202.0	175.5	155.5	140.7	132.2	130.1
45°	3902.3	1662.4	460.0	323.6	226.3	183.0	154.4	133.2	119.5	112.1	110.0
47.5°	4215.3	1737.5	426.2	285.5	202.0	165.0	133.2	111.0	99.4	93.1	92.0
50°	4545.2	1810.5	391.3	248.5	180.8	147.0	112.1	92.0	82.5	77.2	75.1
52.5°	4879.4	1895.1	359.6	214.7	162.9	125.8	93.1	75.1	67.7	63.5	61.3
55°	5239.0	1958.5	328.9	188.2	144.9	106.8	77.2	62.4	56.0	50.8	49.7
57.5°	5662.0	2056.9	297.2	162.9	123.7	88.8	63.5	49.7	44.4	39.1	38.1
60°	6233.0	2172.2	263.3	143.8	101.5	73.0	51.8	40.2	33.8	29.6	28.6
62.5°	6986.0	2300.1	221.0	125.8	82.5	59.2	41.2	31.7	24.3	19.0	19.0
65°	7941.0	2508.4	180.8	105.8	67.7	48.6	31.7	23.3	13.7	8.5	8.5
67.5°	8498.3	2544.4	145.9	86.7	55.0	41.2	26.4	15.9	4.2	1.1	0.0
69°	8319.5	2336.1	123.7	74.0	47.6	39.1	24.3	11.6	2.1	0.0	0.0
70°	7983.3	2136.2	108.9	65.6	43.4	37.0	23.3	8.5	2.1	0.0	0.0
72.5°	6596.8	1520.7	82.5	48.6	31.7	32.8	21.2	5.3	2.1	0.0	0.0
75°	4805.4	924.3	59.2	33.8	20.1	24.3	14.8	2.1	1.1	0.0	0.0
77.5°	2673.4	435.7	37.0	19.0	12.7	14.8	7.4	0.0	0.0	0.0	0.0
80°	868.2	118.4	16.9	10.6	7.4	8.5	3.2	0.0	0.0	0.0	0.0
82.5°	160.7	33.8	9.5	5.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	34.9	13.7	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	4.2	1.1	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)