

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: P320876

Luminaire Tested: **GAN-SA2B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10031 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 85
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



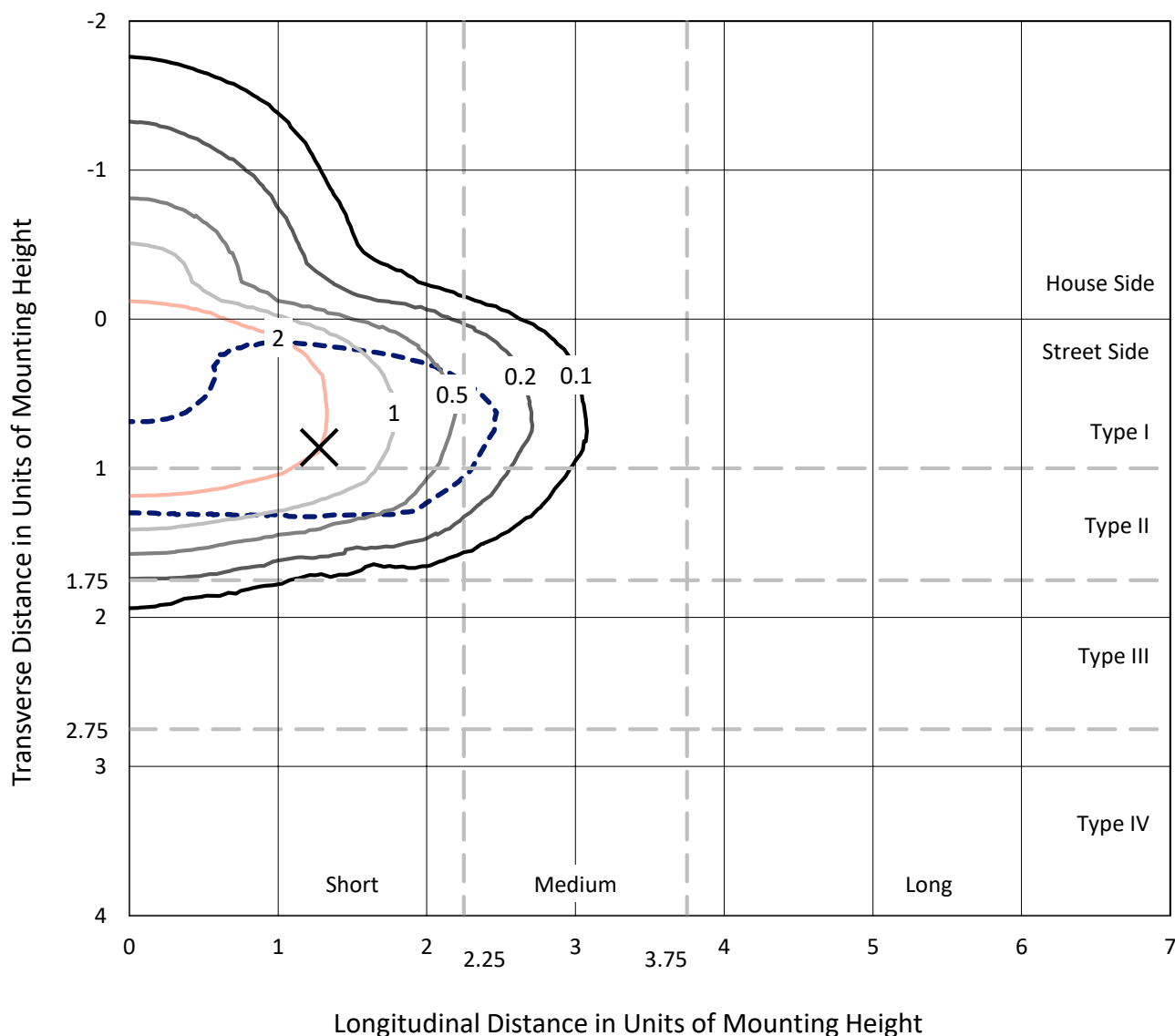
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

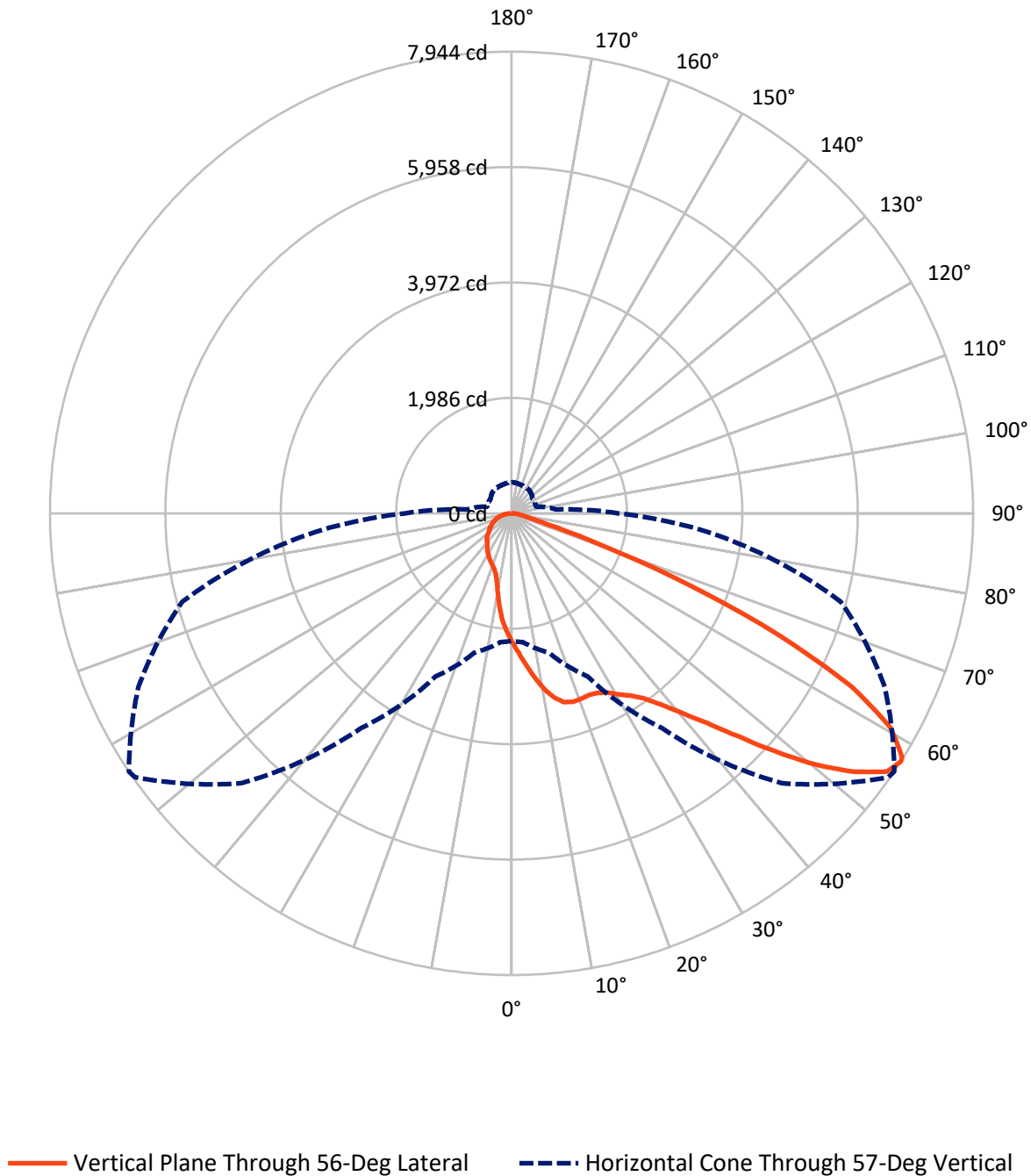


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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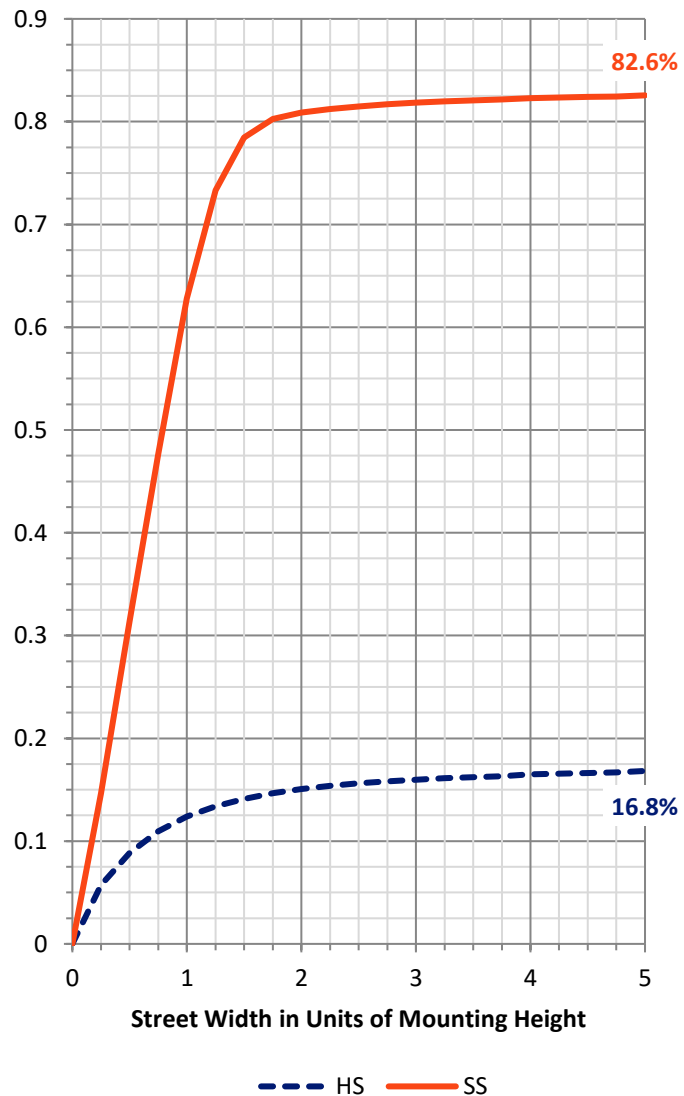
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.1	0.0	1729.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	8301.9	0.0	8301.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	10031.0	0.0	10031.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	2.1
10°-20°	600.9	6.0
20°-30°	978.7	9.8
30°-40°	1463.1	14.6
40°-50°	2219.2	22.1
50°-60°	2487.3	24.8
60°-70°	1469.1	14.6
70°-80°	481.3	4.8
80°-90°	118.9	1.2
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°	10031.0	100.0
0°-180°	10031.0	100.0

Coefficient of Utilization



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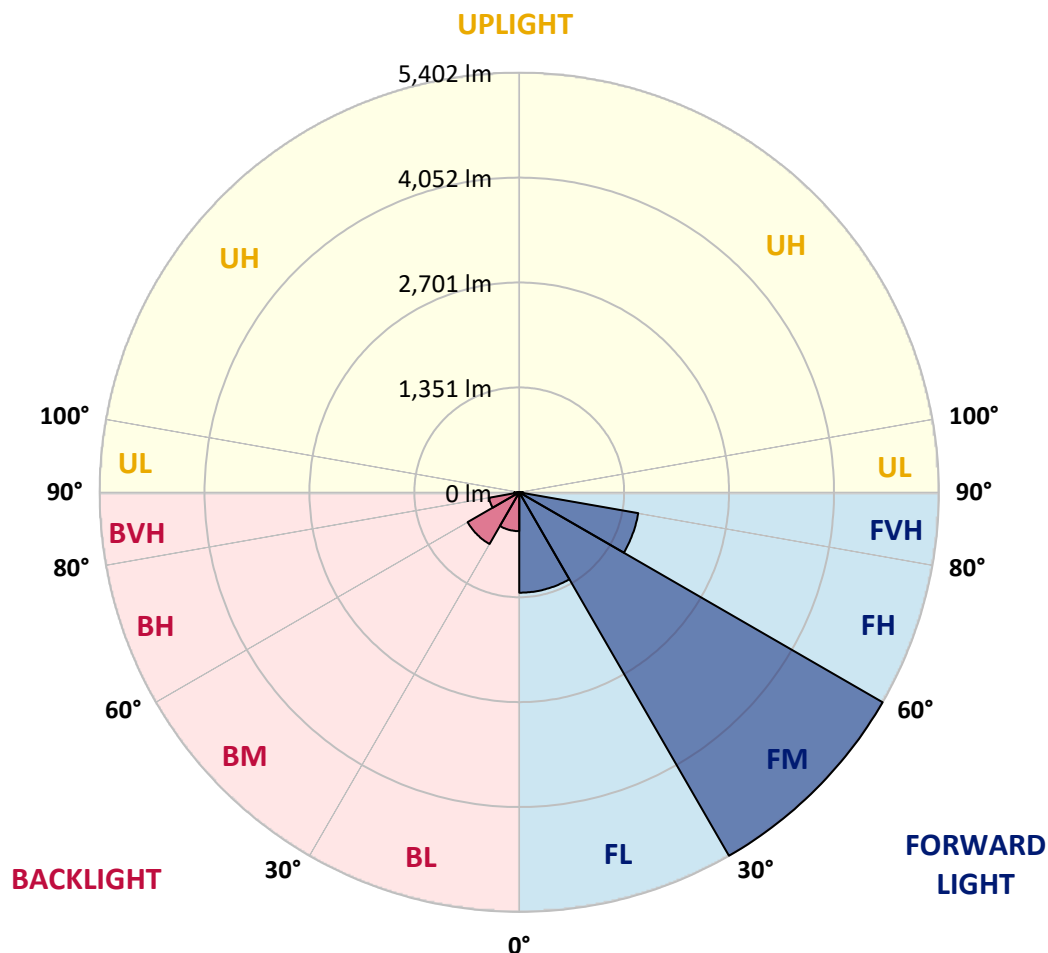
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.1	12.9			
FM	(30°-60°)	5402.0	53.9			
FH	(60°-80°)	1555.3	15.5			G1/1800
FVH	(80°-90°)	52.4	0.5			G1/100
BL	(0°-30°)	500.0	5.0	B1/500		
BM	(30°-60°)	767.5	7.7	B1/1000		
BH	(60°-80°)	395.1	3.9	B1/500		G1/500
BVH	(80°-90°)	66.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9
2.5°	2554.8	2578.2	2567.9	2532.0	2504.5	2465.5	2422.1	2409.0	2363.1	2311.8	2250.1
5°	2959.2	2947.4	2930.5	2874.7	2815.8	2747.2	2638.2	2621.0	2518.9	2402.8	2280.0
7.5°	3189.4	3188.4	3178.4	3145.7	3091.9	3002.3	2870.9	2850.6	2696.5	2509.6	2319.3
10°	3156.0	3153.6	3170.1	3204.3	3220.5	3201.8	3091.2	3070.9	2881.6	2627.9	2364.8
12.5°	2966.1	2967.4	2994.0	3065.7	3163.2	3280.4	3262.5	3252.5	3073.6	2761.6	2420.0
15°	2818.2	2821.3	2842.3	2904.7	3019.8	3232.5	3366.6	3370.1	3259.4	2909.2	2484.5
17.5°	2753.4	2759.9	2769.6	2813.3	2918.8	3137.0	3391.4	3410.1	3422.1	3062.2	2546.5
20°	2774.0	2780.2	2783.0	2810.9	2897.5	3079.1	3374.2	3407.7	3546.9	3206.3	2608.6
22.5°	2866.8	2870.6	2872.3	2879.5	2946.7	3095.7	3362.8	3398.0	3637.2	3335.6	2655.5
25°	3020.5	3017.8	3006.7	2997.4	3042.6	3161.2	3389.0	3422.5	3710.7	3452.8	2686.1
27.5°	3204.6	3201.2	3179.8	3154.3	3180.1	3263.2	3464.5	3491.1	3776.5	3562.4	2701.6
30°	3425.6	3416.6	3376.3	3345.9	3355.9	3416.3	3589.0	3613.1	3878.2	3686.9	2716.8
32.5°	3681.0	3671.4	3613.1	3562.8	3562.8	3613.1	3717.2	3737.2	3964.4	3827.5	2741.3
35°	4000.9	3988.9	3913.0	3828.6	3804.8	3830.3	3892.0	3906.1	4119.5	4004.7	2785.8
37.5°	4378.1	4361.9	4263.6	4150.5	4098.5	4097.1	4141.6	4170.5	4367.4	4237.4	2861.3
40°	4756.2	4744.9	4659.0	4570.1	4468.0	4435.3	4503.9	4512.9	4691.4	4526.3	2957.8
42.5°	5048.6	5046.5	5030.6	5042.4	4937.9	4871.7	4925.5	4932.7	5087.2	4839.0	3060.5
45°	5203.0	5206.5	5283.3	5453.6	5492.2	5444.0	5470.5	5472.6	5539.5	5154.4	3154.6
47.5°	5079.2	5097.2	5291.6	5672.5	5988.6	6148.9	6104.8	6130.3	5978.0	5425.4	3228.4
50°	4597.0	4619.0	4950.0	5575.0	6220.3	6831.2	6808.1	6802.2	6331.6	5623.9	3268.4
52.5°	3999.6	4016.8	4289.8	5067.9	6050.3	7208.3	7420.3	7390.0	6646.0	5772.5	3276.0
55°	3089.8	3116.7	3378.4	4055.7	5363.0	7064.2	7870.5	7843.3	6932.5	5850.4	3267.0
57°	2196.6	2224.9	2484.8	3095.3	4511.5	6565.4	7915.3	7944.3	7087.3	5863.5	3277.0
57.5°	1960.1	1989.1	2246.6	2839.5	4246.0	6385.1	7876.7	7925.0	7115.2	5861.4	3282.5
60°	987.0	998.0	1162.1	1585.1	2684.1	5162.0	7373.1	7497.5	7140.4	5760.1	3306.3
62.5°	613.6	605.7	600.5	730.1	1305.8	3423.2	6333.7	6573.3	6658.8	5514.6	3248.7
65°	539.5	524.7	467.8	457.5	576.7	1662.6	4769.7	5067.9	5629.8	5127.9	3111.5
67.5°	506.8	492.3	428.2	389.5	389.9	659.1	2961.2	3297.0	4385.7	4473.9	2787.8
70°	473.0	459.9	399.9	354.4	332.0	365.1	1362.4	1617.1	2858.8	3516.6	2330.0
72.5°	429.5	420.6	363.7	316.8	293.0	273.4	521.6	616.0	1655.0	2361.7	1618.2
75°	384.0	375.8	327.1	282.3	253.4	215.1	293.7	316.5	840.8	1208.3	796.7
77.5°	334.0	329.2	291.0	249.6	226.5	178.2	207.9	218.9	360.6	518.1	399.5
80°	265.8	275.1	254.4	222.4	201.0	142.7	147.2	154.4	209.9	253.0	226.8
82.5°	173.1	189.3	199.3	180.6	165.5	112.4	105.8	108.9	136.9	154.4	98.6
85°	72.0	81.0	131.0	118.2	110.0	82.0	71.0	72.4	84.8	87.9	40.3
87.5°	32.1	34.1	57.6	54.1	46.5	28.3	30.3	33.1	45.2	42.7	15.5
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°	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9	2224.9
2.5°	2227.0	2198.0	2148.4	2093.5	2048.7	2012.9	1976.7	1951.9	1922.9	1907.4	1899.5
5°	2228.7	2171.8	2067.3	1960.1	1864.3	1776.7	1693.3	1629.2	1569.2	1536.8	1527.8
7.5°	2235.9	2150.4	1981.5	1805.0	1634.7	1479.2	1359.3	1284.1	1230.0	1205.9	1199.0
10°	2241.8	2125.3	1875.3	1614.0	1382.4	1224.8	1131.7	1089.7	1071.1	1068.0	1064.9
12.5°	2255.6	2099.4	1763.6	1414.8	1186.2	1077.3	1044.9	1042.1	1047.3	1054.9	1054.9
15°	2277.3	2073.9	1636.1	1243.8	1061.4	1023.2	1029.7	1044.9	1059.0	1070.7	1072.5
17.5°	2293.1	2042.5	1498.9	1106.9	994.9	1005.2	1028.7	1050.0	1064.5	1075.9	1076.9
20°	2304.5	1993.9	1352.4	1002.5	956.6	988.7	1018.0	1036.9	1046.9	1058.3	1060.0
22.5°	2298.7	1928.8	1222.4	927.7	925.6	964.6	992.5	1015.2	1007.6	996.6	1003.9
25°	2270.4	1839.1	1088.7	871.8	892.8	932.1	966.6	951.5	925.9	921.1	923.9
27.5°	2220.1	1724.7	964.9	820.1	854.9	902.2	900.1	884.9	876.0	869.8	873.5
30°	2165.9	1600.6	856.7	775.0	812.9	851.8	843.9	843.6	834.6	824.6	829.4
32.5°	2112.5	1475.8	770.8	737.7	781.2	786.3	803.6	808.7	791.2	770.1	768.7
35°	2066.0	1357.9	705.7	703.9	742.9	743.6	768.7	761.5	717.7	696.0	696.0
37.5°	2031.1	1240.3	656.0	673.6	692.6	710.5	723.2	693.3	686.0	673.9	673.6
40°	2016.0	1136.9	625.0	650.5	657.1	679.8	647.1	658.8	662.2	656.0	656.0
42.5°	2000.1	1046.9	598.1	632.9	631.9	628.8	612.2	627.4	641.2	641.5	640.5
45°	1984.3	969.4	574.3	595.3	609.8	576.4	579.5	595.7	615.0	621.9	621.9
47.5°	1966.7	908.0	552.6	555.7	578.1	555.7	553.3	565.7	588.5	599.5	601.9
50°	1928.1	852.9	527.8	520.9	527.1	534.7	536.7	542.6	567.8	585.4	589.5
52.5°	1874.6	803.6	496.1	488.8	488.8	517.4	527.1	528.8	550.2	571.2	575.4
55°	1830.2	772.2	463.3	461.9	460.6	499.2	515.7	518.5	533.3	549.8	551.9
57°	1833.3	769.8	438.2	439.5	439.2	480.6	505.0	510.9	518.5	532.6	535.0
57.5°	1835.0	771.5	432.6	433.3	433.0	475.4	501.9	508.5	514.3	529.2	531.6
60°	1860.9	776.0	410.2	402.6	404.4	447.8	484.3	492.6	496.4	516.1	519.2
62.5°	1822.6	756.0	392.3	374.0	374.0	418.8	459.9	473.0	478.8	505.4	510.5
65°	1711.6	699.8	371.3	341.6	345.1	389.9	430.6	451.9	460.9	494.0	499.5
67.5°	1540.3	634.6	348.9	312.7	316.1	359.6	400.2	423.3	437.5	481.6	486.1
70°	1317.2	555.0	318.5	282.0	286.1	326.5	364.4	390.6	411.6	469.9	471.2
72.5°	971.1	455.0	276.1	248.2	252.7	287.8	328.2	358.5	386.8	440.6	439.9
75°	577.4	355.8	229.2	214.1	217.2	249.9	295.4	332.3	374.7	429.2	435.7
77.5°	350.2	267.9	186.8	179.3	183.1	216.5	272.0	311.3	369.6	404.7	402.6
80°	211.7	191.3	149.3	144.4	148.2	185.1	251.7	295.4	323.0	345.8	345.8
82.5°	110.7	116.9	109.6	105.8	111.0	150.3	228.9	257.9	285.4	245.1	228.9
85°	45.2	61.0	66.5	66.2	69.3	104.1	197.5	220.6	184.1	174.8	178.9
87.5°	15.2	25.9	32.4	27.9	29.3	65.5	136.9	106.5	126.5	88.3	83.8
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)