

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: P193092

Luminaire Tested: **GAN-AF-04-LED-U-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15015.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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: 28.75 FT

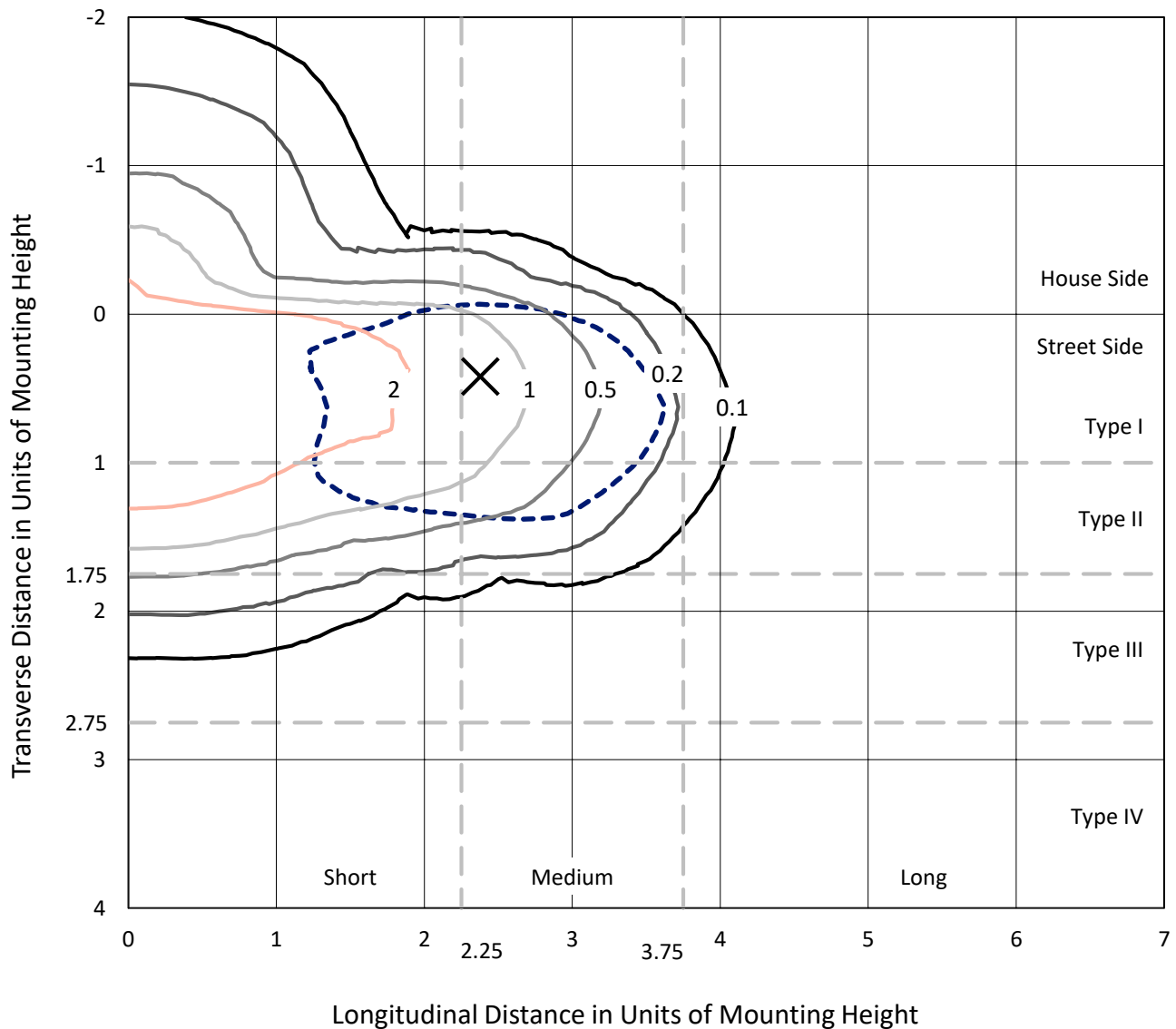


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

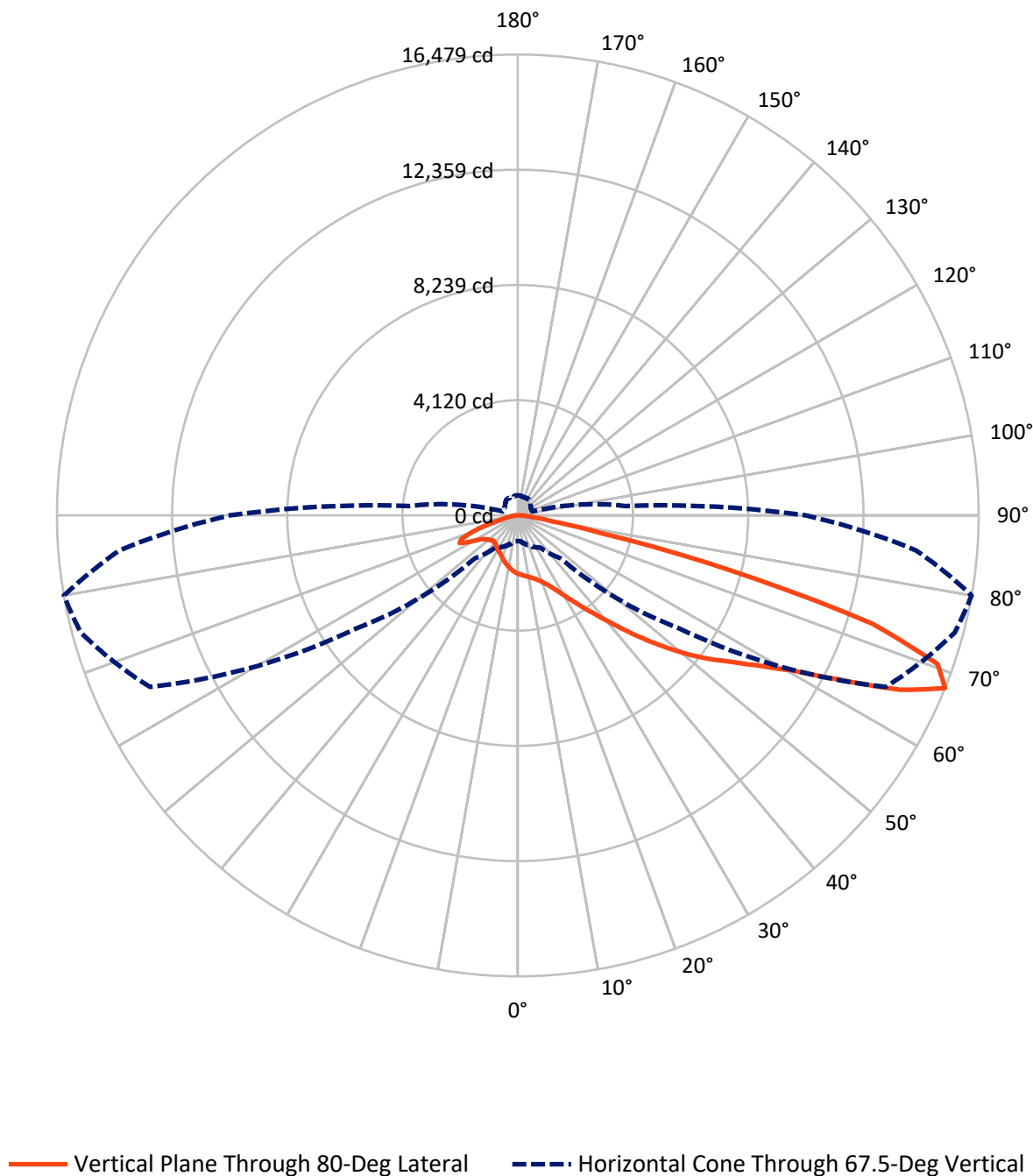


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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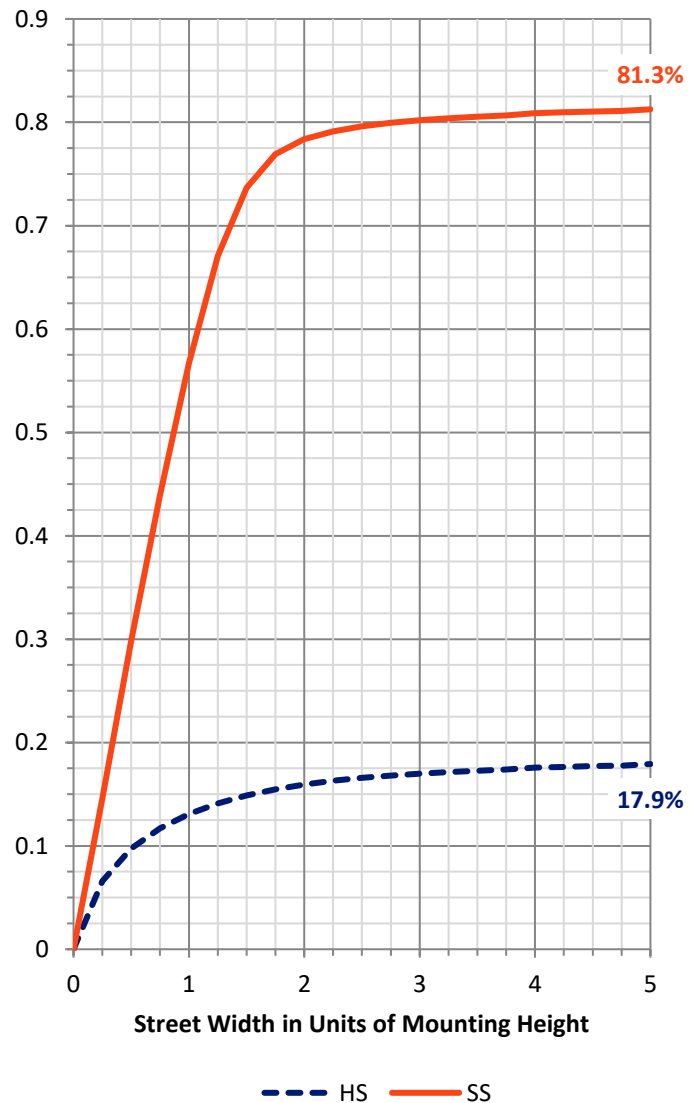
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2765.3	0.0	2765.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	12250.2	0.0	12250.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	15015.5	0.0	15015.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	1.3
10°-20°	554.3	3.7
20°-30°	917.6	6.1
30°-40°	1500.9	10.0
40°-50°	2423.3	16.1
50°-60°	3498.6	23.3
60°-70°	3860.9	25.7
70°-80°	1779.6	11.9
80°-90°	287.8	1.9
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°	15015.5	100.0
0°-180°	15015.5	100.0

Coefficient of Utilization



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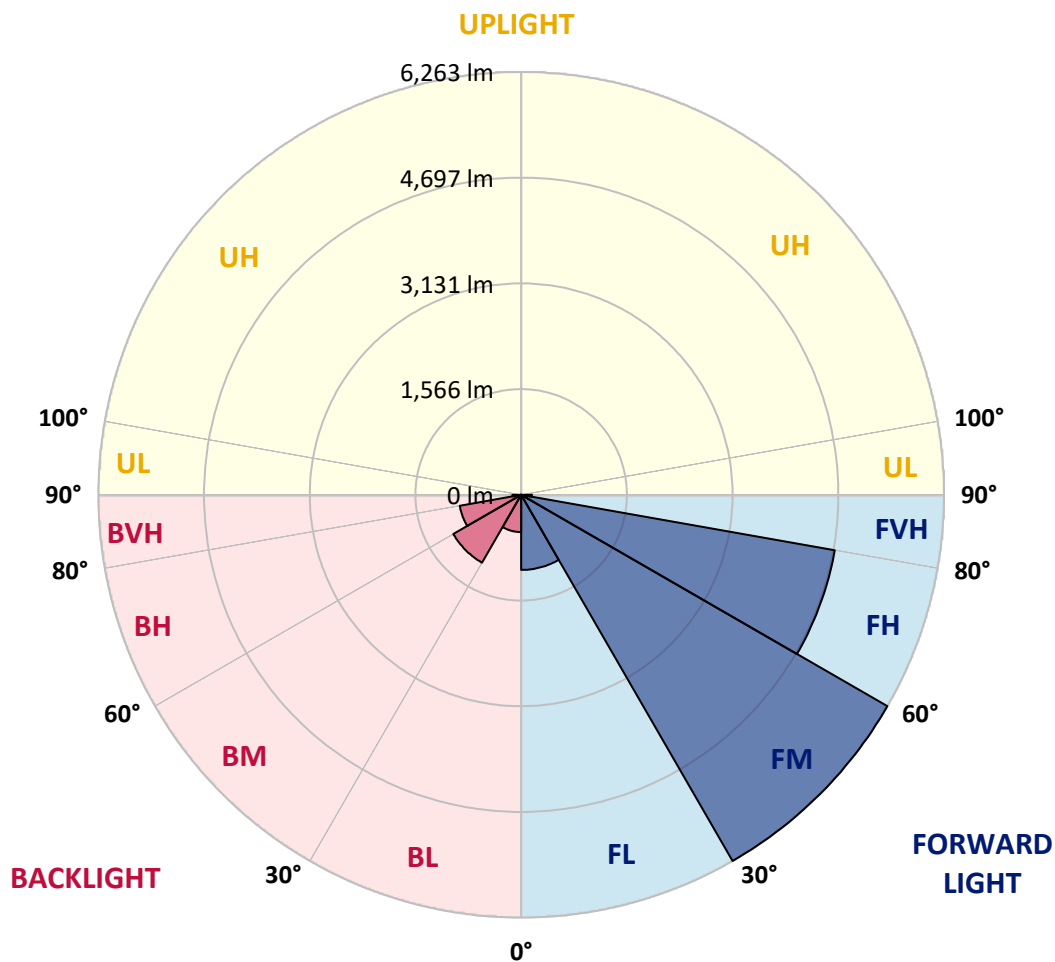
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1112.6	7.4			
FM	(30°-60°)	6262.6	41.7			
FH	(60°-80°)	4716.8	31.4			G2/5000
FVH	(80°-90°)	158.3	1.1			G2/225
BL	(0°-30°)	551.7	3.7	B2/1000		
BM	(30°-60°)	1160.2	7.7	B2/2500		
BH	(60°-80°)	923.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	129.6	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1
2.5°	2282.0	2268.7	2270.9	2267.2	2256.1	2236.9	2216.3	2178.5	2139.3	2118.6	2102.3
5°	2472.7	2469.0	2463.8	2452.0	2423.9	2384.0	2334.5	2267.9	2196.2	2158.5	2122.4
7.5°	2615.3	2613.2	2606.5	2599.1	2571.8	2523.7	2449.0	2354.4	2250.2	2198.4	2142.2
10°	2627.2	2630.9	2636.1	2656.0	2659.7	2633.8	2557.8	2443.1	2306.4	2239.9	2168.1
12.5°	2526.6	2534.9	2554.8	2605.8	2659.7	2691.5	2652.4	2536.2	2372.1	2291.6	2200.7
15°	2393.7	2398.0	2422.4	2492.6	2589.6	2687.8	2724.8	2639.0	2457.1	2358.2	2249.4
17.5°	2336.7	2338.9	2355.9	2402.5	2492.6	2633.1	2765.5	2750.6	2561.4	2441.0	2309.3
20°	2307.9	2313.0	2337.4	2383.3	2440.2	2562.9	2771.4	2871.2	2685.6	2544.4	2384.7
22.5°	2389.9	2387.7	2396.6	2419.4	2467.5	2541.5	2766.9	2995.4	2843.8	2677.5	2483.0
25°	2581.4	2589.6	2573.9	2548.2	2563.7	2615.3	2790.6	3129.8	3041.9	2848.3	2611.7
27.5°	2854.2	2845.9	2823.2	2762.5	2730.7	2752.9	2868.9	3274.7	3288.0	3072.9	2781.7
30°	3126.1	3119.6	3097.4	3023.4	2958.4	2939.8	3021.2	3441.1	3581.5	3342.8	2990.2
32.5°	3408.6	3401.1	3380.5	3306.5	3228.2	3185.4	3237.8	3633.3	3927.6	3665.1	3235.6
35°	3756.8	3742.6	3699.1	3596.4	3519.5	3486.1	3510.6	3875.0	4326.6	4046.5	3533.5
37.5°	4084.2	4105.6	4061.2	3919.3	3819.6	3807.8	3835.1	4170.0	4756.9	4473.1	3875.8
40°	4413.2	4417.0	4376.9	4260.9	4158.1	4139.0	4207.7	4527.7	5264.7	4983.1	4291.9
42.5°	4753.3	4760.7	4693.3	4586.1	4510.8	4514.5	4592.8	4946.9	5847.2	5584.1	4771.0
45°	5156.1	5167.2	5093.2	4952.8	4884.0	5022.3	4989.8	5417.1	6485.9	6267.1	5320.9
47.5°	5577.4	5594.4	5538.3	5406.7	5320.9	5510.9	5386.7	5938.1	7173.4	6999.7	5924.9
50°	5807.3	5831.7	5886.5	5876.8	5858.4	5826.6	5829.5	6497.0	7882.3	7762.6	6545.8
52.5°	5683.8	5683.1	5882.7	6125.2	6383.9	6403.1	6369.2	7086.2	8544.7	8508.4	7130.6
55°	5119.2	5157.6	5459.9	5929.3	6636.0	7077.4	7177.9	7761.1	9195.3	9237.4	7724.2
57.5°	4178.8	4210.7	4618.7	5272.9	6295.9	7478.0	8328.1	8742.1	9922.6	10119.3	8514.3
60°	2834.1	2872.7	3305.1	4090.8	5380.8	7254.7	9422.8	10492.5	10793.4	11240.6	9623.2
62.5°	1665.4	1700.2	2052.9	2580.6	3788.6	6217.6	9903.4	12982.9	12176.5	12932.7	11314.6
65°	1146.5	1170.1	1341.7	1606.3	2177.0	4187.7	9307.6	14702.5	14304.8	15029.1	13275.8
67.5°	922.5	919.6	1055.7	1235.9	1401.6	2159.3	7038.2	14508.0	16176.5	16478.8	14293.7
70°	759.9	756.9	849.4	998.7	1119.9	1216.0	3833.6	12243.0	15794.9	15917.7	13356.3
72.5°	635.8	638.7	697.8	808.7	918.9	915.9	1684.7	8612.7	12425.6	13274.2	10647.0
75°	536.7	538.1	577.3	655.7	745.9	737.7	913.7	4666.0	7222.9	7813.5	5901.9
77.5°	456.8	458.4	483.5	527.0	591.4	588.5	666.8	2015.9	3013.1	2976.1	2018.8
80°	407.3	407.3	419.1	427.3	462.7	449.5	494.5	968.4	1273.6	1176.0	805.8
82.5°	319.4	320.7	393.3	390.3	364.5	347.5	347.5	570.7	674.9	623.9	471.7
85°	179.6	178.8	253.6	306.0	320.7	244.6	242.4	319.4	367.4	323.7	228.5
87.5°	76.9	78.3	117.6	136.0	181.8	152.3	150.0	164.9	187.1	161.9	105.8
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°	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1	2086.1
2.5°	2086.9	2067.6	2025.4	1973.0	1925.7	1894.7	1866.5	1825.8	1828.1	1800.0	1779.3
5°	2085.3	2045.5	1947.9	1831.8	1720.2	1639.6	1579.1	1524.2	1510.9	1485.1	1469.5
7.5°	2086.9	2021.8	1857.6	1672.1	1533.9	1431.9	1380.2	1351.3	1344.7	1335.8	1336.6
10°	2092.0	2000.3	1758.6	1522.8	1377.9	1310.7	1298.1	1307.0	1317.3	1320.3	1321.0
12.5°	2103.8	1981.1	1650.0	1389.8	1280.3	1259.6	1281.1	1311.3	1331.4	1340.9	1340.2
15°	2130.4	1966.3	1545.7	1285.6	1226.3	1237.5	1277.4	1320.3	1349.2	1362.4	1363.1
17.5°	2159.3	1945.0	1438.5	1205.6	1186.4	1214.5	1264.0	1314.4	1349.8	1364.6	1367.6
20°	2196.9	1918.3	1326.2	1145.8	1148.8	1180.5	1227.1	1277.4	1316.6	1329.1	1335.0
22.5°	2246.5	1889.4	1227.8	1097.0	1105.9	1130.3	1166.5	1210.1	1244.1	1250.0	1255.2
25°	2313.0	1858.4	1149.5	1052.6	1056.3	1070.4	1094.8	1120.7	1144.3	1137.7	1142.9
27.5°	2402.5	1831.8	1091.1	1012.0	1005.3	1008.4	1020.9	1029.0	1041.6	1023.1	1025.3
30°	2507.5	1803.0	1046.0	976.6	957.9	952.8	955.8	960.3	969.9	944.8	941.0
32.5°	2629.5	1768.3	1003.9	945.4	919.6	909.2	910.6	922.5	959.6	944.0	935.8
35°	2771.4	1729.0	959.6	911.4	893.7	879.0	877.5	914.4	1024.6	1014.9	1007.6
37.5°	2937.7	1689.9	915.1	873.0	874.5	858.2	853.1	895.2	1037.1	999.4	994.3
40°	3149.1	1669.2	877.5	832.3	850.8	848.6	838.2	859.8	954.4	885.5	876.7
42.5°	3410.7	1672.1	849.4	788.8	822.7	846.4	830.2	830.9	864.9	813.1	805.0
45°	3733.8	1706.8	829.4	754.0	790.9	844.2	827.2	815.4	818.4	790.9	786.5
47.5°	4110.8	1778.5	815.4	725.2	760.7	836.1	826.4	810.9	804.2	789.5	785.8
50°	4530.0	1882.7	805.0	697.8	733.3	822.7	827.2	806.5	799.1	793.2	790.9
52.5°	4941.7	2001.8	789.5	674.1	711.9	806.5	829.4	802.1	793.9	789.5	787.3
55°	5400.8	2150.4	765.8	654.3	694.2	785.8	829.4	795.4	786.5	787.3	786.5
57.5°	6020.9	2390.7	737.7	637.2	672.7	760.7	815.4	788.0	777.0	777.7	778.4
60°	6990.1	2814.2	703.7	620.1	646.0	731.1	796.2	771.7	760.7	763.6	764.4
62.5°	8415.3	3435.8	659.4	595.0	618.0	699.3	769.5	751.0	740.0	747.4	747.4
65°	9896.7	3984.4	604.6	563.3	588.5	664.6	736.3	725.2	714.1	731.1	730.4
67.5°	10295.2	3861.7	550.0	528.6	558.9	626.2	696.3	690.4	684.5	714.1	712.6
70°	9145.6	3100.3	499.8	493.1	526.3	584.7	653.5	653.5	649.8	672.0	666.8
72.5°	6967.9	2198.4	451.7	455.4	489.4	539.6	606.9	612.1	606.2	617.2	612.8
75°	3730.1	1258.1	403.6	414.0	443.5	493.9	555.1	560.3	556.6	555.9	558.1
77.5°	1239.6	615.0	353.4	369.7	395.5	446.6	501.2	509.3	500.4	499.0	498.2
80°	552.2	386.7	297.9	319.4	342.3	392.6	444.2	450.9	441.3	454.6	437.6
82.5°	354.9	254.2	238.7	262.4	284.6	338.6	387.4	388.9	380.0	441.3	376.3
85°	172.2	157.5	179.6	201.0	220.2	266.1	320.7	321.6	299.4	272.8	263.2
87.5°	85.8	91.7	119.7	139.0	148.6	182.6	233.6	229.1	219.5	199.6	184.1
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)