

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: P193290

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T4W-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7706.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

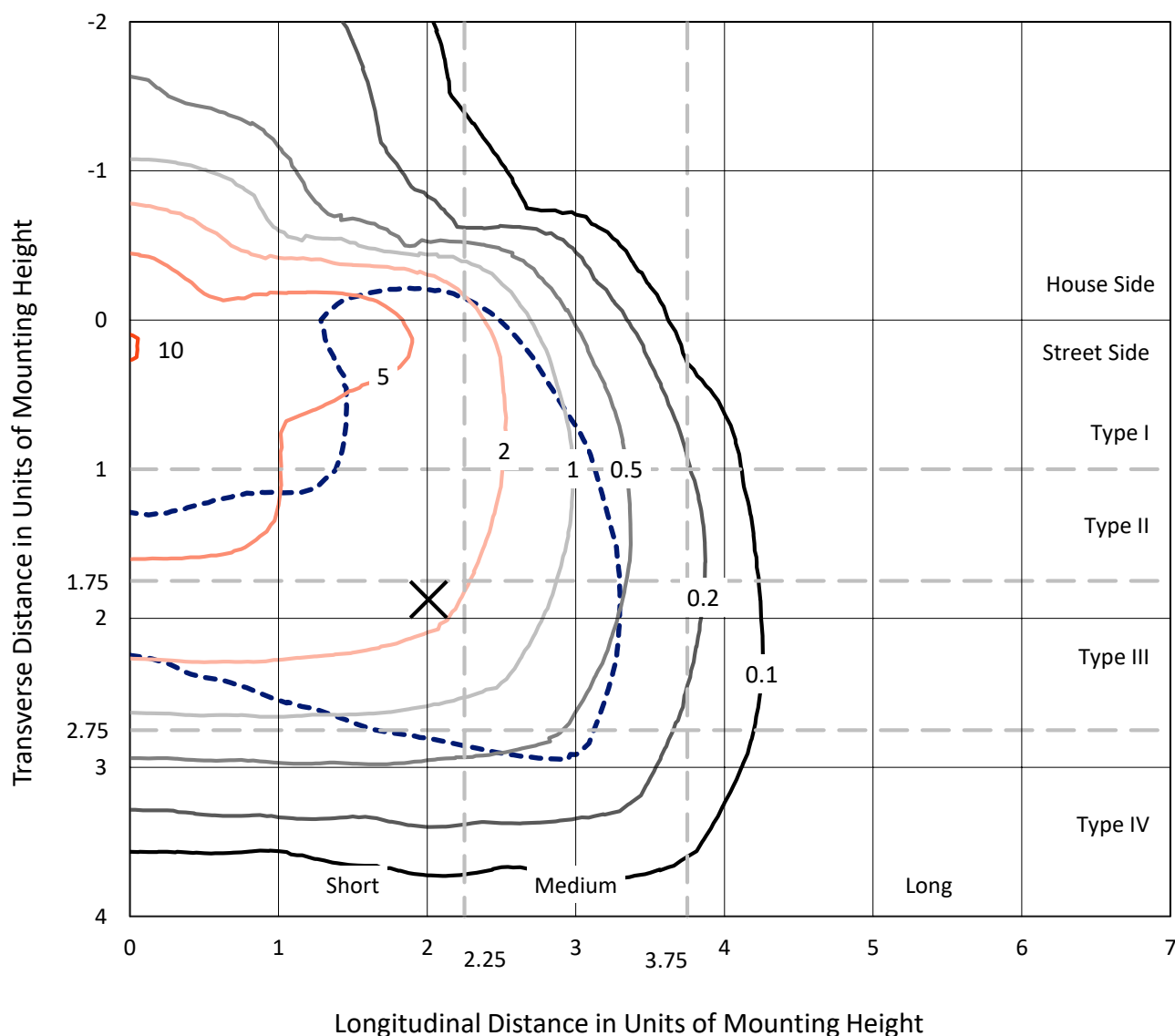


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

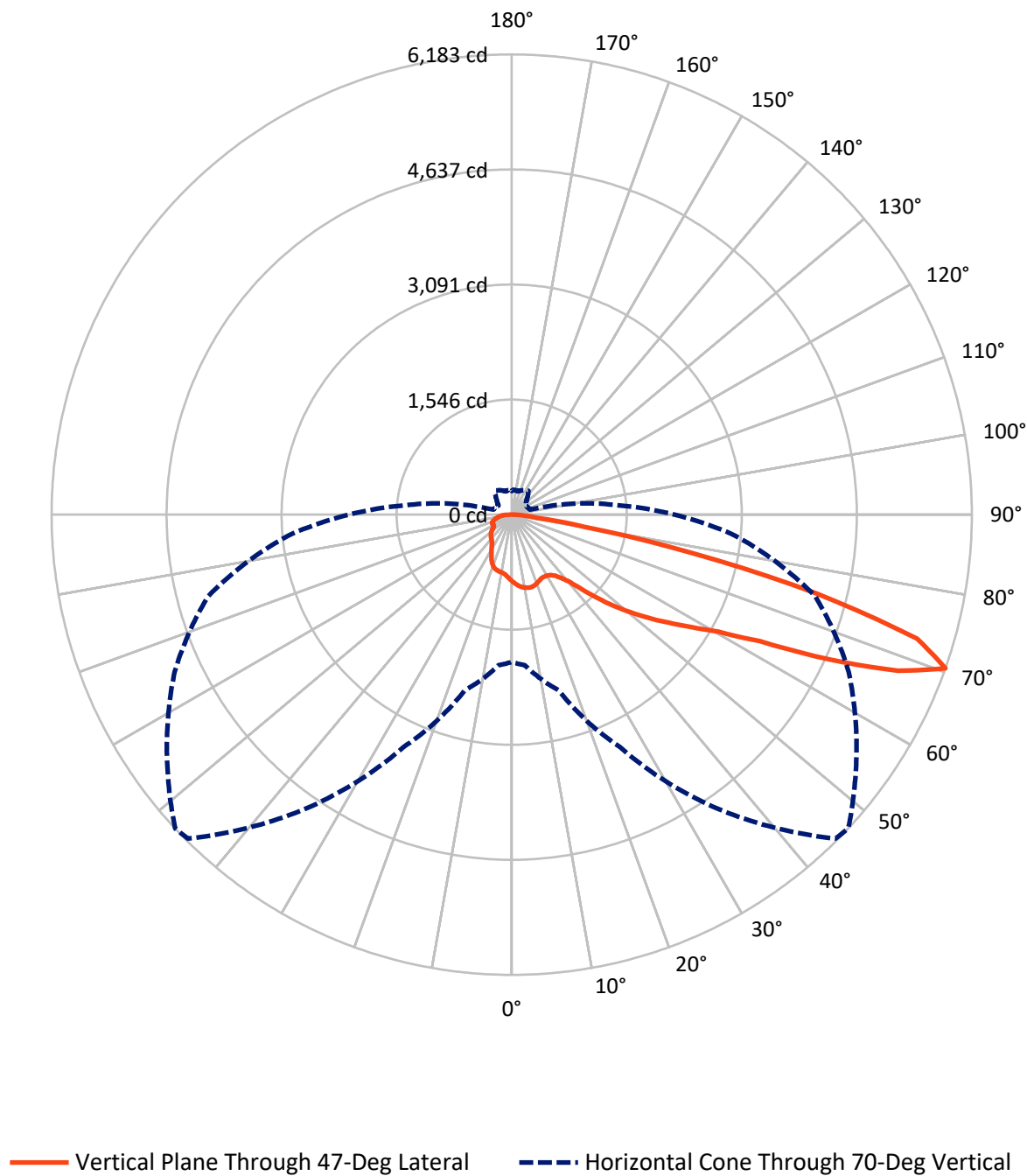


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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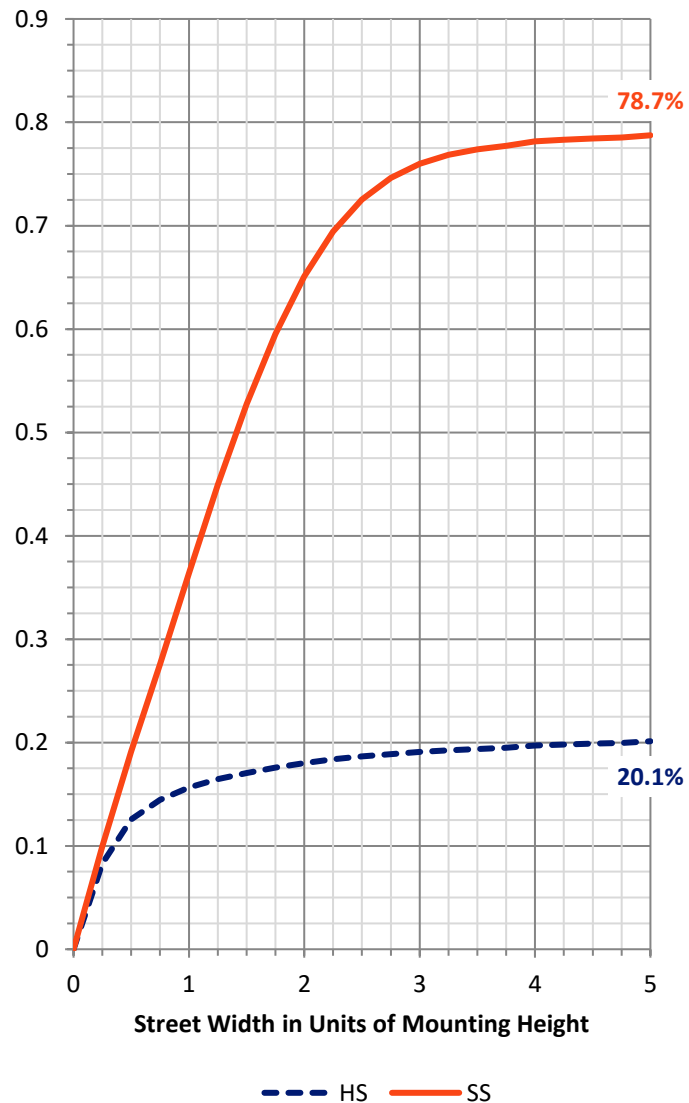
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1607.6	0.0	1607.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6098.4	0.0	6098.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	7706.1	0.0	7706.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.1
10°-20°	251.3	3.3
20°-30°	371.2	4.8
30°-40°	539.5	7.0
40°-50°	970.9	12.6
50°-60°	1682.0	21.8
60°-70°	2400.6	31.2
70°-80°	1232.4	16.0
80°-90°	172.5	2.2
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°	7706.1	100.0
0°-180°	7706.1	100.0

Coefficient of Utilization



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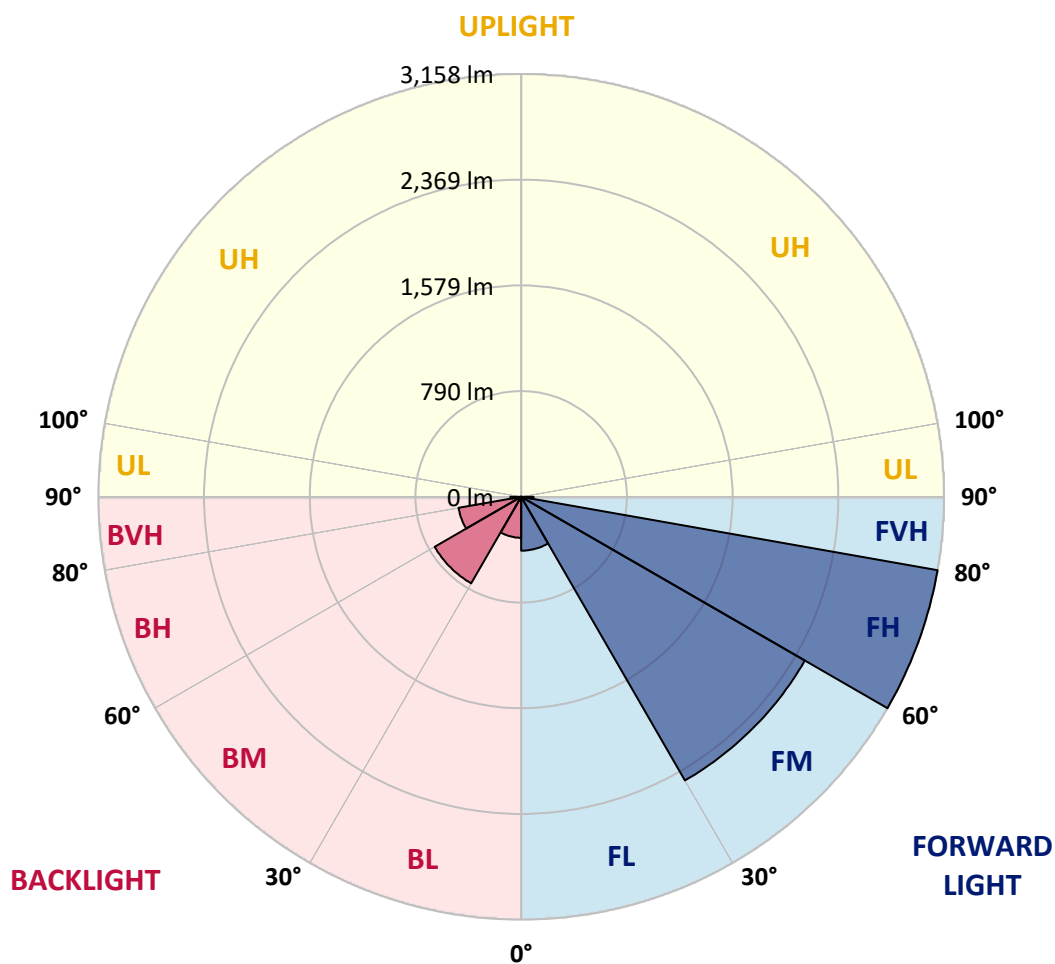
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.1	5.2			
FM	(30°-60°)	2446.1	31.7			
FH	(60°-80°)	3158.1	41.0			G2/5000
FVH	(80°-90°)	92.1	1.2			G1/100
BL	(0°-30°)	306.1	4.0	B1/500		
BM	(30°-60°)	746.2	9.7	B1/1000		
BH	(60°-80°)	474.8	6.2	B1/500		G1/500
BVH	(80°-90°)	80.5	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2
2.5°	946.6	944.8	944.0	942.5	940.6	931.2	929.4	922.5	913.3	903.5	893.4
5°	1008.9	1008.5	1004.3	996.9	984.9	964.2	959.4	942.9	920.7	899.4	878.0
7.5°	1063.6	1060.3	1052.3	1037.3	1016.3	988.2	981.4	958.6	928.2	898.9	870.1
10°	1103.7	1101.9	1084.6	1063.9	1036.7	1005.5	997.6	972.1	938.7	901.6	865.7
12.5°	1126.6	1122.8	1103.0	1078.2	1045.6	1015.2	1007.4	981.4	944.0	901.6	859.4
15°	1125.1	1122.4	1102.5	1075.5	1042.6	1016.0	1008.9	983.0	942.9	897.9	851.0
17.5°	1095.1	1096.2	1079.4	1052.7	1025.7	1005.5	999.0	975.1	935.4	890.4	841.3
20°	1042.6	1047.9	1036.7	1013.0	998.0	984.1	979.9	959.8	923.8	879.5	830.8
22.5°	990.1	995.1	990.6	970.7	968.4	960.2	957.8	943.2	913.6	872.8	824.4
25°	951.5	956.0	955.3	938.0	944.8	944.3	942.5	935.4	911.4	872.8	825.6
27.5°	941.0	942.5	941.0	925.2	934.6	942.2	940.6	939.5	918.1	883.7	839.7
30°	977.0	974.7	963.1	931.2	939.8	950.3	948.9	949.7	938.4	912.1	871.7
32.5°	1120.6	1110.5	1073.7	984.1	961.3	966.8	967.6	979.9	981.9	956.0	921.2
35°	1335.3	1324.1	1276.5	1125.8	1027.6	1008.1	1008.1	1026.8	1038.1	1019.0	998.0
37.5°	1563.0	1550.6	1525.1	1322.2	1167.1	1079.7	1077.9	1091.0	1107.2	1111.6	1116.8
40°	1821.7	1808.6	1815.7	1542.7	1361.7	1203.8	1177.2	1167.9	1211.3	1240.2	1282.1
42.5°	2104.7	2098.7	2101.3	1788.2	1583.1	1389.3	1351.5	1303.1	1355.7	1407.0	1495.1
45°	2366.8	2372.0	2369.4	2051.2	1829.9	1615.8	1575.7	1482.0	1533.4	1621.4	1765.1
47.5°	2596.2	2574.4	2608.2	2338.2	2106.2	1869.3	1819.8	1694.2	1746.3	1855.0	2098.0
50°	2874.7	2871.8	2822.2	2721.4	2440.2	2123.8	2059.0	1913.4	1994.5	2145.6	2517.5
52.5°	3167.5	3113.3	3067.8	3019.5	2794.6	2384.8	2305.3	2132.0	2286.1	2476.3	3028.8
55°	3227.5	3203.2	3259.4	3340.7	3136.1	2655.8	2563.2	2406.1	2614.6	2854.2	3618.5
57.5°	3355.8	3355.4	3471.6	3616.7	3487.7	2943.3	2850.0	2737.2	2983.9	3287.2	4244.6
60°	3442.3	3466.7	3682.7	3964.3	3833.1	3275.5	3189.8	3119.3	3403.8	3771.2	4827.9
62.5°	3487.7	3520.7	3815.4	4105.2	4321.1	3828.6	3742.6	3641.1	3959.3	4302.0	5169.2
65°	3299.2	3364.0	3794.8	4227.0	4748.5	4724.9	4686.2	4507.8	4654.0	4721.5	5045.8
67.5°	2777.3	2843.6	3345.3	4113.4	5053.7	5589.3	5597.7	5292.8	5081.4	4757.4	4242.4
70°	1978.6	2030.8	2445.9	3448.8	4821.3	6154.3	6182.6	5654.6	4996.3	4219.1	2963.9
72.5°	939.5	971.5	1364.3	2244.5	3825.9	5638.9	5693.3	5192.8	4248.4	3123.7	1616.9
75°	345.3	355.0	461.2	954.9	2219.0	4158.4	4222.6	3722.4	2816.2	1555.1	616.0
77.5°	206.9	213.3	258.7	403.0	872.8	2376.9	2471.8	2024.5	1230.8	578.8	302.8
80°	144.7	149.2	185.5	250.9	412.4	905.8	990.1	826.3	490.3	366.2	220.4
82.5°	97.9	100.1	130.4	169.5	274.0	323.5	349.1	367.4	330.6	272.6	139.9
85°	64.1	66.3	88.5	111.8	174.4	167.1	171.0	216.4	241.5	185.2	77.6
87.5°	36.7	38.2	53.2	59.6	85.4	70.9	71.6	113.9	154.5	124.9	47.2
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°	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2	894.2
2.5°	890.8	885.9	875.0	868.3	861.9	860.4	857.8	857.3	857.0	857.0	855.9
5°	870.9	862.6	845.7	836.4	828.5	827.7	827.4	829.3	830.1	830.8	829.6
7.5°	858.1	846.9	825.9	812.5	803.0	800.8	804.5	813.2	818.8	821.1	819.9
10°	850.2	836.4	812.1	797.4	789.5	788.5	793.3	803.4	815.1	819.6	819.1
12.5°	841.3	825.6	799.7	784.3	779.8	782.1	788.5	797.8	809.8	816.9	817.3
15°	832.3	813.9	787.3	773.8	771.9	774.9	780.8	788.1	797.4	804.5	805.2
17.5°	821.4	802.3	775.6	761.7	760.3	761.7	762.2	765.9	771.9	778.7	780.5
20°	809.8	790.3	762.5	748.7	742.0	736.0	729.2	730.0	731.8	738.6	740.0
22.5°	801.5	782.1	752.5	733.3	715.3	697.3	683.9	682.0	682.7	688.4	690.2
25°	802.3	781.6	749.8	716.8	677.4	648.6	630.5	627.5	627.2	631.3	633.9
27.5°	816.9	796.3	759.6	700.0	636.2	593.5	574.3	572.1	569.1	570.3	573.2
30°	849.5	830.4	783.2	682.7	591.6	539.5	519.6	517.4	513.2	511.4	513.6
32.5°	902.8	886.9	817.7	666.2	547.0	493.5	473.1	468.2	465.7	463.4	465.2
35°	991.2	984.5	863.8	648.2	507.6	457.8	439.3	431.9	428.2	432.2	435.3
37.5°	1130.0	1133.7	924.2	620.0	477.3	434.1	418.8	410.2	404.5	407.9	411.3
40°	1326.4	1329.0	990.9	580.3	451.0	420.2	403.8	395.8	388.0	382.1	381.7
42.5°	1584.4	1557.7	1056.4	537.2	420.6	411.7	393.3	383.5	371.5	355.0	351.7
45°	1890.3	1796.9	1106.4	487.8	386.6	401.2	381.7	368.2	349.4	331.4	329.5
47.5°	2242.6	2053.7	1130.8	436.4	354.6	385.8	367.4	346.1	322.5	313.5	312.3
50°	2673.0	2358.5	1142.3	386.6	326.9	365.6	346.8	321.7	301.8	299.9	298.9
52.5°	3163.0	2725.2	1146.1	345.7	304.1	339.2	330.0	305.6	289.7	291.2	291.2
55°	3675.9	3103.8	1095.1	316.1	283.1	312.3	318.7	299.2	286.0	292.0	294.4
57.5°	4146.8	3439.4	934.6	293.2	263.2	291.7	314.5	305.2	296.2	320.5	322.0
60°	4508.2	3637.7	698.0	272.6	248.6	284.5	325.4	328.0	330.3	388.4	396.3
62.5°	4584.0	3571.6	479.8	256.4	241.8	290.5	345.3	345.7	343.1	383.5	388.4
65°	4236.4	3154.5	349.1	247.5	236.2	301.4	362.2	354.3	337.1	367.7	358.8
67.5°	3364.4	2376.5	290.5	240.7	228.0	300.7	380.1	362.2	333.7	360.2	345.7
70°	2183.8	1437.0	258.7	235.0	218.2	286.5	390.6	361.4	324.0	335.2	318.0
72.5°	1065.5	642.6	237.3	226.8	208.0	266.6	390.3	354.6	313.8	313.0	303.6
75°	417.0	294.4	217.9	214.4	190.8	244.0	379.7	344.9	301.8	289.7	286.5
77.5°	244.0	210.0	193.1	196.1	170.2	221.6	364.4	328.0	285.2	271.1	267.3
80°	177.6	157.2	164.6	169.5	145.5	199.1	343.8	307.4	266.9	274.0	268.8
82.5°	113.9	101.2	133.6	138.3	121.1	176.2	321.3	285.7	241.0	218.9	213.7
85°	58.1	64.1	99.3	105.3	93.3	144.7	293.9	256.8	211.9	182.3	185.2
87.5°	32.7	43.8	63.4	70.9	66.0	111.3	238.4	211.9	172.8	140.6	123.7
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)