

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: P193180

Luminaire Tested: **GAN-AF-02-LED-U-T3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9518.7 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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: 28.75 FT

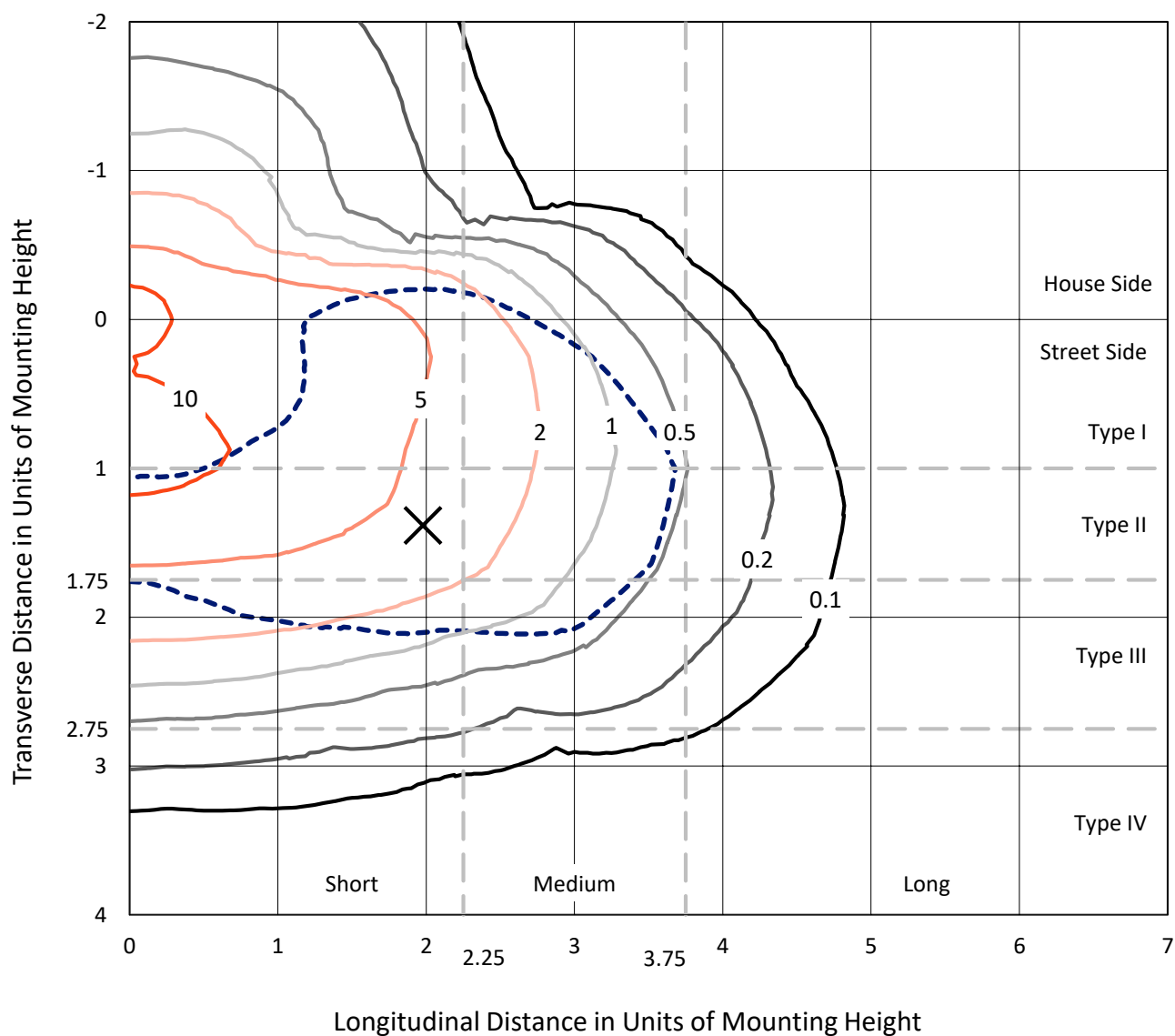


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

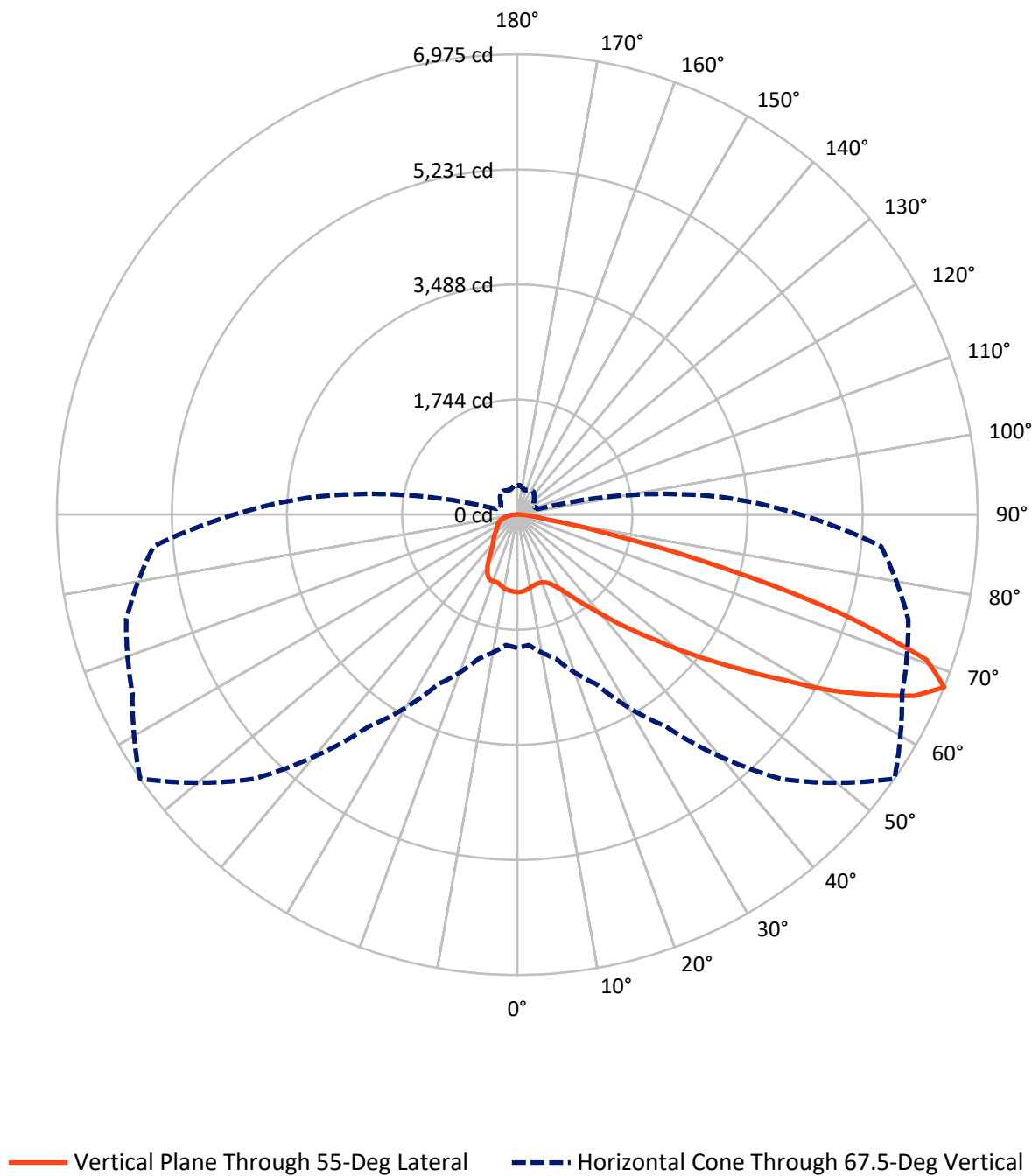


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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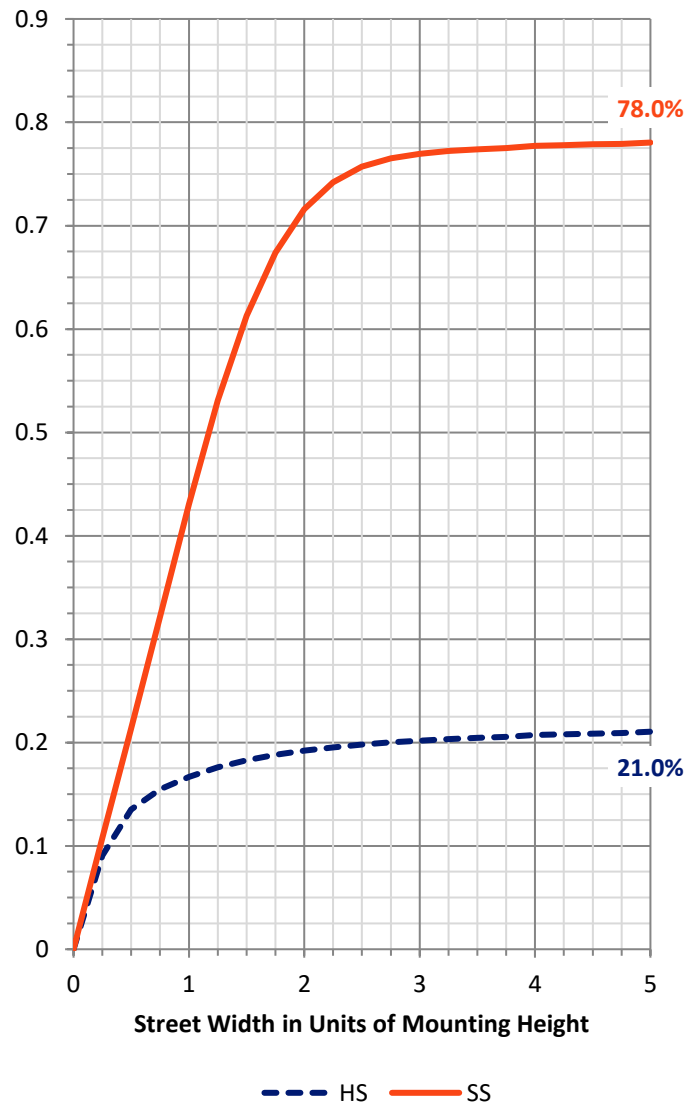
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2056.2	0.0	2056.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7462.4	0.0	7462.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	9518.7	0.0	9518.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.2
10°-20°	310.3	3.3
20°-30°	519.8	5.5
30°-40°	854.7	9.0
40°-50°	1438.8	15.1
50°-60°	2264.5	23.8
60°-70°	2702.4	28.4
70°-80°	1160.5	12.2
80°-90°	158.2	1.7
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°	9518.7	100.0
0°-180°	9518.7	100.0

Coefficient of Utilization



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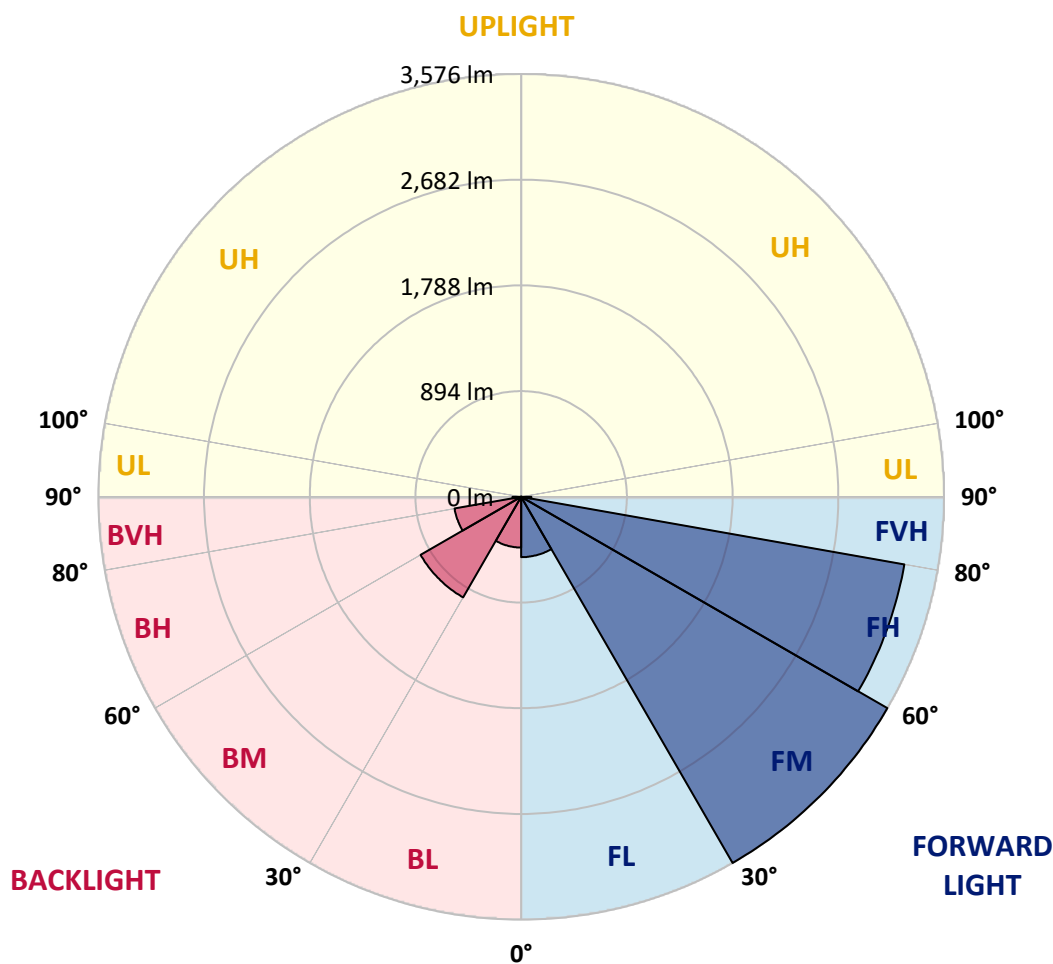
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.2	5.4			
FM	(30°-60°)	3575.9	37.6			
FH	(60°-80°)	3290.7	34.6			G2/5000
FVH	(80°-90°)	85.6	0.9			G1/100
BL	(0°-30°)	429.4	4.5	B1/500		
BM	(30°-60°)	982.0	10.3	B1/1000		
BH	(60°-80°)	572.2	6.0	B2/1000		G2/1000
BVH	(80°-90°)	72.6	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8
2.5°	1163.6	1164.0	1165.0	1168.7	1172.0	1171.0	1171.5	1169.6	1169.2	1166.5	1169.2
5°	1149.0	1150.3	1150.7	1156.7	1160.5	1161.3	1160.0	1157.7	1154.9	1152.1	1153.6
7.5°	1115.3	1119.1	1119.5	1127.8	1133.8	1141.5	1142.1	1142.6	1141.1	1139.2	1142.1
10°	1094.2	1095.1	1094.7	1100.7	1105.2	1114.0	1119.1	1127.8	1131.5	1132.4	1134.2
12.5°	1092.8	1091.9	1090.5	1090.5	1089.2	1092.8	1102.0	1114.5	1123.1	1125.9	1128.2
15°	1107.6	1107.2	1102.5	1095.6	1086.9	1084.1	1091.9	1105.7	1117.1	1123.1	1125.5
17.5°	1140.6	1137.9	1130.5	1114.9	1096.1	1088.7	1089.7	1101.2	1114.5	1122.3	1124.6
20°	1201.3	1201.3	1185.7	1156.3	1122.7	1105.2	1097.0	1103.8	1116.7	1127.3	1130.5
22.5°	1306.2	1307.1	1280.8	1232.6	1176.0	1138.8	1118.2	1116.7	1131.9	1143.8	1147.5
25°	1454.7	1451.0	1414.3	1345.2	1259.3	1197.7	1161.8	1153.6	1166.5	1179.8	1184.4
27.5°	1627.5	1614.2	1570.5	1487.3	1376.0	1286.0	1230.8	1217.4	1229.8	1245.0	1249.6
30°	1798.5	1784.7	1732.9	1641.8	1518.1	1404.1	1325.0	1303.4	1320.8	1342.5	1345.2
32.5°	1969.6	1969.6	1911.7	1805.5	1670.8	1545.3	1450.5	1424.7	1453.7	1479.9	1485.9
35°	2174.2	2175.2	2119.0	1991.2	1846.4	1713.5	1609.2	1590.3	1634.0	1652.3	1666.6
37.5°	2425.7	2430.7	2358.6	2204.1	2045.5	1905.7	1781.6	1755.8	1799.5	1849.6	1895.5
40°	2697.4	2703.8	2624.3	2434.0	2275.4	2129.1	1994.8	1948.4	2021.1	2116.7	2176.0
42.5°	2956.7	2989.8	2913.0	2717.2	2546.7	2395.3	2259.3	2191.6	2282.7	2427.0	2478.5
45°	3331.5	3355.3	3221.5	3044.1	2883.6	2714.4	2534.2	2462.9	2590.2	2772.4	2783.0
47.5°	3581.1	3563.1	3495.1	3384.8	3283.1	3125.0	2853.8	2775.5	2944.7	3159.0	3099.6
50°	3713.9	3719.4	3710.2	3716.7	3720.4	3621.1	3245.4	3138.3	3340.2	3599.0	3462.4
52.5°	3838.1	3801.2	3831.6	3982.4	4164.4	4127.7	3671.6	3559.8	3764.0	4087.3	3845.8
55°	3835.3	3779.2	3878.0	4144.2	4539.1	4581.5	4150.2	4021.5	4212.3	4610.8	4252.3
57.5°	3699.6	3702.4	3854.5	4203.1	4800.3	5008.1	4705.6	4512.5	4687.7	5141.4	4623.3
60°	3513.0	3538.3	3757.5	4193.5	5009.5	5358.0	5386.9	5041.7	5153.4	5623.7	4930.5
62.5°	3211.9	3238.6	3541.0	4093.2	4977.8	5695.0	6003.0	5642.1	5640.3	5916.2	5020.6
65°	2737.0	2729.1	3046.8	3718.5	4711.6	5944.1	6615.0	6161.1	6007.2	5920.8	4839.4
67.5°	2018.3	1983.4	2255.9	2832.1	3916.2	5665.1	6975.0	6431.5	6132.1	5531.4	4285.8
70°	1047.4	1012.4	1233.1	1653.7	2575.6	4421.5	6576.4	6291.8	5855.9	4636.6	3357.6
72.5°	447.9	441.9	531.4	725.5	1245.9	2550.2	5156.6	5445.8	5024.7	3454.6	2308.4
75°	301.1	299.3	332.9	395.4	560.4	1034.9	3227.0	3865.6	3676.2	2142.0	1298.3
77.5°	236.3	234.1	253.8	284.2	363.2	408.3	1432.2	2075.4	1920.9	932.4	568.2
80°	184.8	183.0	195.3	212.0	261.1	257.5	471.2	825.7	639.0	357.3	276.3
82.5°	145.8	145.8	155.8	156.3	185.3	175.6	246.0	363.7	319.0	208.2	169.3
85°	133.3	133.3	143.9	116.8	121.0	110.8	152.6	215.7	202.2	85.5	73.5
87.5°	67.0	65.3	121.0	103.5	65.8	58.9	74.6	104.4	112.2	47.3	36.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8
2.5°	1168.2	1167.8	1168.7	1169.2	1172.8	1178.0	1180.2	1183.4	1185.3	1184.4
5°	1154.5	1155.4	1159.0	1161.8	1168.2	1176.5	1181.1	1184.8	1187.9	1186.7
7.5°	1143.0	1145.2	1150.7	1153.0	1156.7	1159.0	1158.5	1160.0	1162.7	1159.5
10°	1136.6	1139.2	1143.4	1140.2	1131.5	1119.1	1107.6	1101.6	1103.4	1101.2
12.5°	1130.1	1133.8	1130.5	1115.3	1091.0	1074.9	1066.2	1067.1	1071.2	1072.2
15°	1126.4	1127.8	1114.0	1085.5	1060.7	1058.4	1063.0	1062.0	1062.5	1062.5
17.5°	1126.4	1122.7	1097.0	1068.4	1057.8	1053.8	1039.5	1021.6	1013.7	1010.9
20°	1132.4	1122.7	1091.5	1072.6	1049.7	1014.3	976.6	943.5	928.7	924.6
22.5°	1150.3	1133.8	1107.2	1074.4	1009.1	949.9	890.1	850.6	824.0	819.3
25°	1186.7	1168.2	1137.9	1050.1	944.8	860.2	792.1	748.0	721.3	717.8
27.5°	1250.0	1238.1	1154.5	996.3	859.4	768.7	705.7	671.7	651.9	650.5
30°	1345.7	1339.7	1146.1	916.8	754.0	680.0	649.6	629.9	615.1	614.7
32.5°	1498.4	1450.1	1119.1	819.8	658.0	617.0	604.5	592.6	581.1	581.1
35°	1694.6	1539.3	1067.6	715.8	599.5	582.1	566.4	547.6	532.4	531.4
37.5°	1925.4	1594.4	975.1	632.2	572.0	558.7	535.6	507.6	480.8	476.3
40°	2158.5	1611.0	845.0	580.7	554.5	535.2	507.1	473.9	448.3	446.9
42.5°	2372.3	1579.3	707.1	545.3	537.0	511.3	481.9	452.5	432.1	431.7
45°	2551.6	1497.0	591.2	511.7	518.7	489.6	463.5	439.6	423.9	420.6
47.5°	2720.3	1380.6	509.9	476.3	500.2	477.7	455.6	433.1	417.9	415.6
50°	2916.2	1255.2	452.9	441.9	484.1	473.5	462.0	438.5	413.3	410.6
52.5°	3153.4	1146.6	408.3	411.5	471.7	479.1	478.5	454.2	410.0	406.5
55°	3418.2	1026.2	374.6	386.7	466.6	489.2	482.7	468.9	412.9	407.3
57.5°	3679.0	885.4	351.3	367.7	459.3	488.3	462.9	443.1	419.3	411.5
60°	3874.4	696.5	333.3	351.3	443.1	473.1	441.4	415.1	417.9	411.9
62.5°	3887.2	538.3	311.7	336.9	418.8	457.9	427.1	402.7	423.9	418.4
65°	3658.8	406.9	291.0	320.0	392.7	448.3	413.3	395.8	436.3	430.4
67.5°	3080.3	327.3	273.5	302.5	366.4	428.1	400.9	389.4	447.3	436.8
70°	2223.9	279.0	256.5	281.4	343.0	405.1	389.8	377.9	417.5	400.9
72.5°	1369.1	241.8	237.2	253.4	325.0	381.1	373.3	356.3	376.1	362.7
75°	683.6	209.7	215.7	225.7	299.8	354.0	345.7	328.8	331.5	328.8
77.5°	327.3	179.3	190.3	198.2	267.1	323.2	314.4	296.9	293.8	294.2
80°	207.4	149.9	160.5	166.0	238.6	287.4	278.6	261.1	297.9	276.3
82.5°	129.7	121.9	124.5	134.7	207.8	250.1	238.6	223.0	268.4	212.4
85°	71.7	85.0	88.7	97.5	159.9	209.2	197.6	177.9	159.5	156.8
87.5°	42.7	50.6	51.9	58.4	107.6	151.3	133.9	126.8	105.3	104.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)