

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: P192799

Luminaire Tested: **GAN-AF-01-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5477.1 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

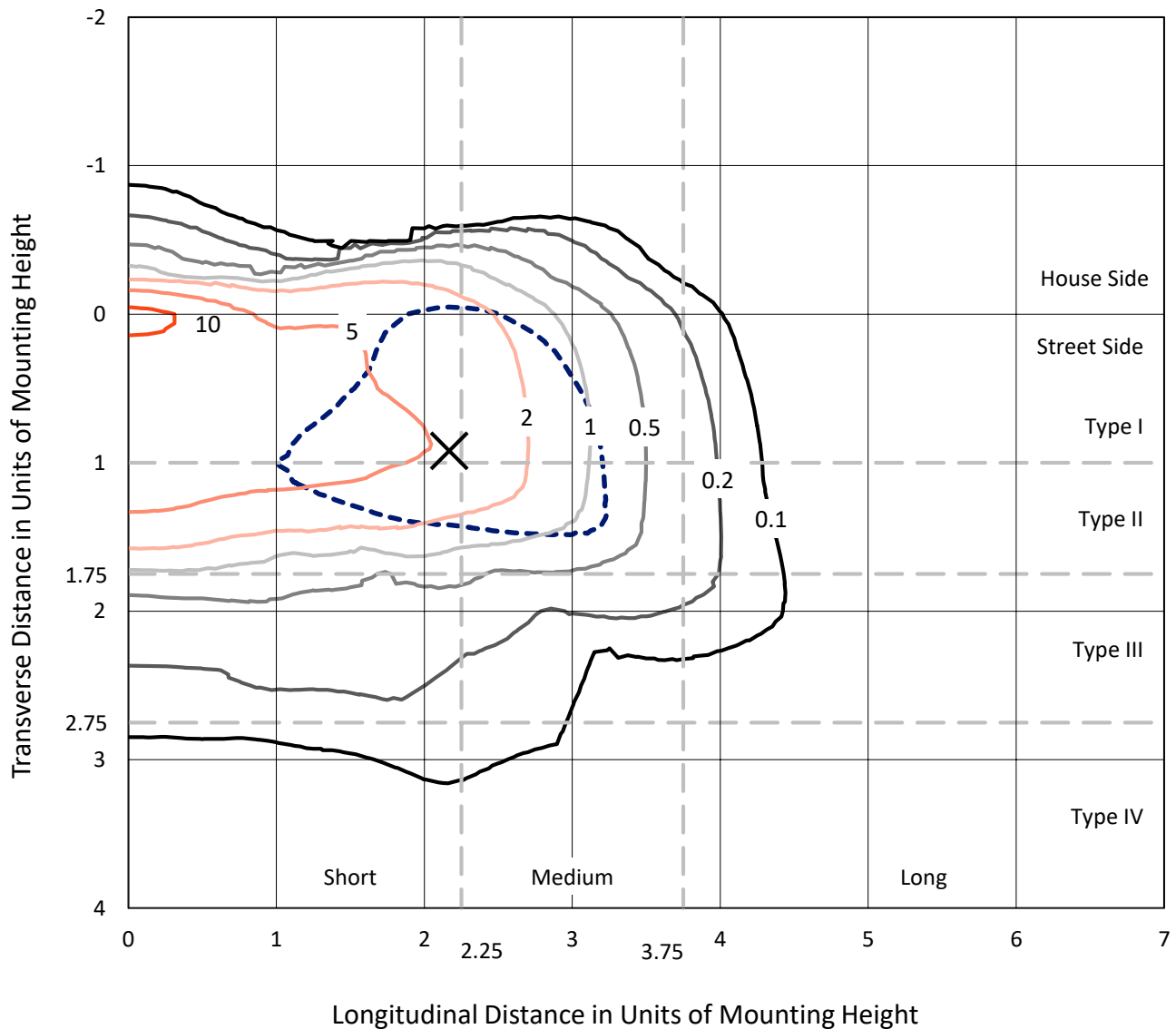


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

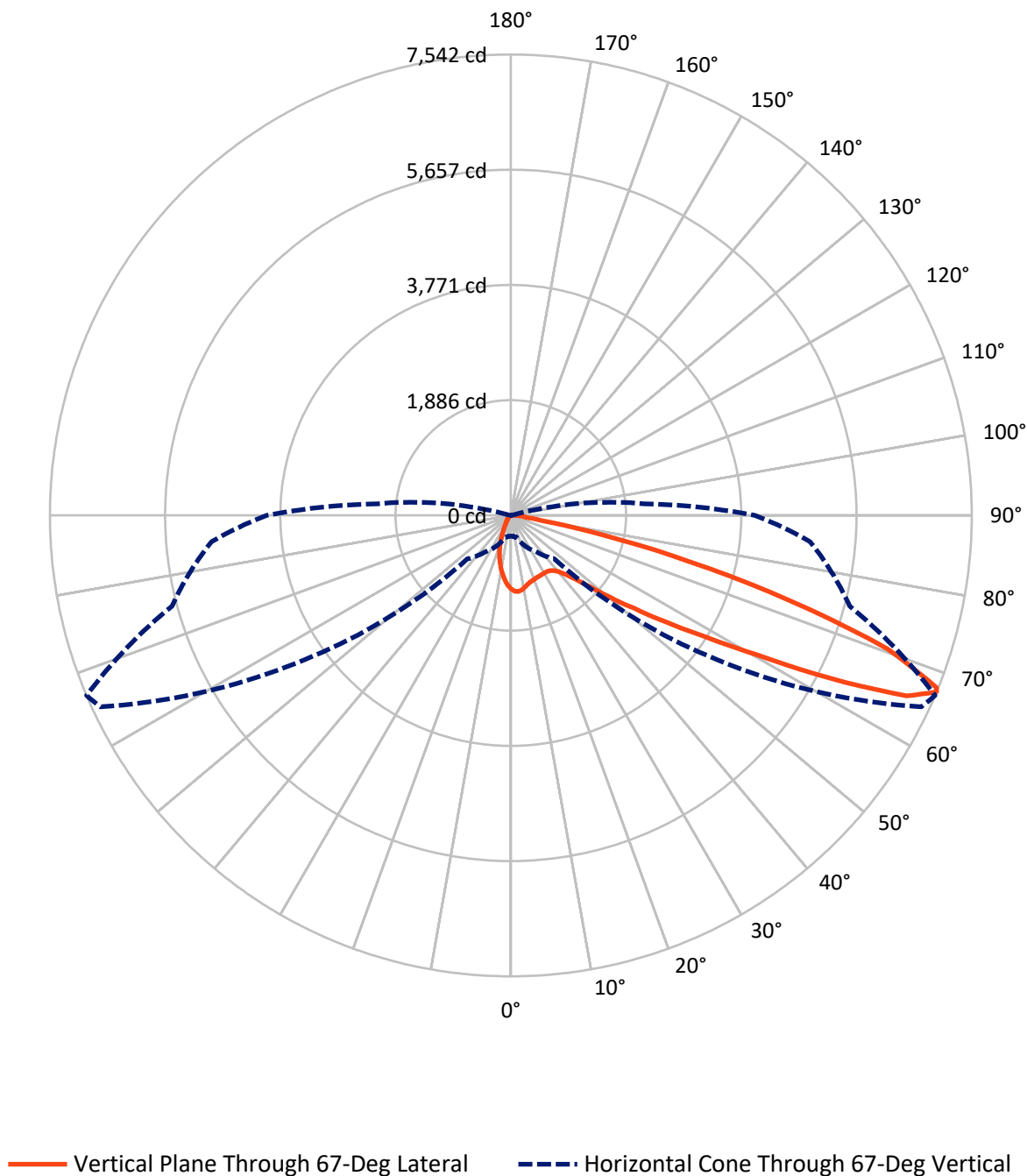


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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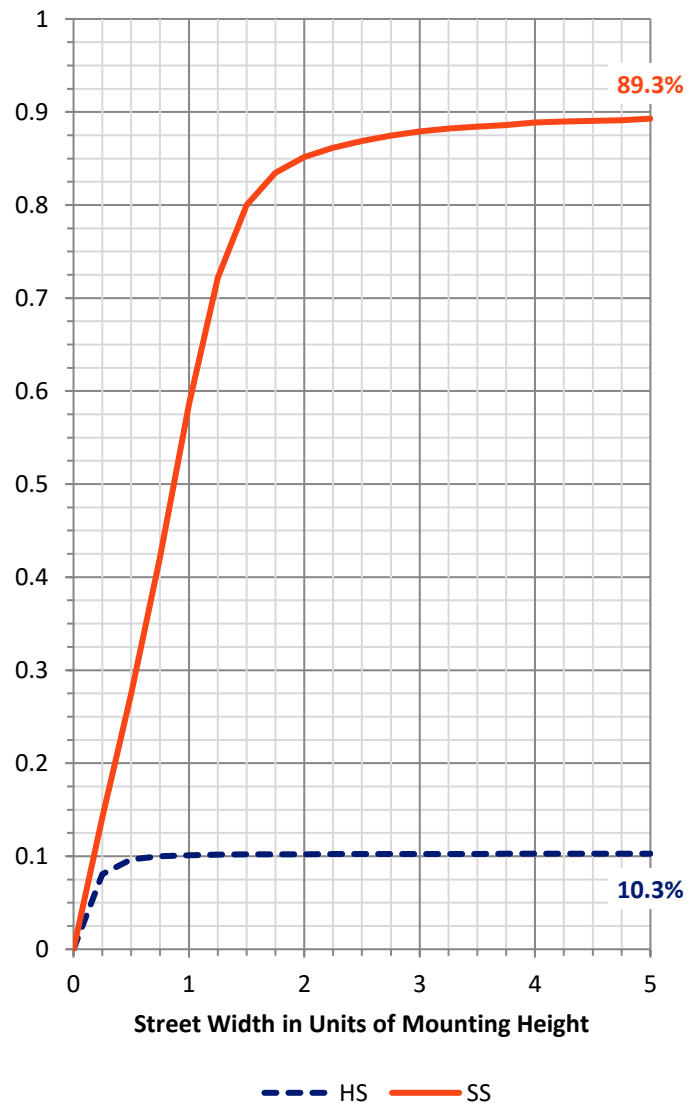
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	568.7	0.0	568.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4908.5	0.0	4908.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	5477.1	0.0	5477.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.8
10°-20°	209.2	3.8
20°-30°	304.1	5.6
30°-40°	474.5	8.7
40°-50°	840.5	15.3
50°-60°	1330.0	24.3
60°-70°	1523.4	27.8
70°-80°	631.9	11.5
80°-90°	65.3	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°	5477.1	100.0
0°-180°	5477.1	100.0

Coefficient of Utilization



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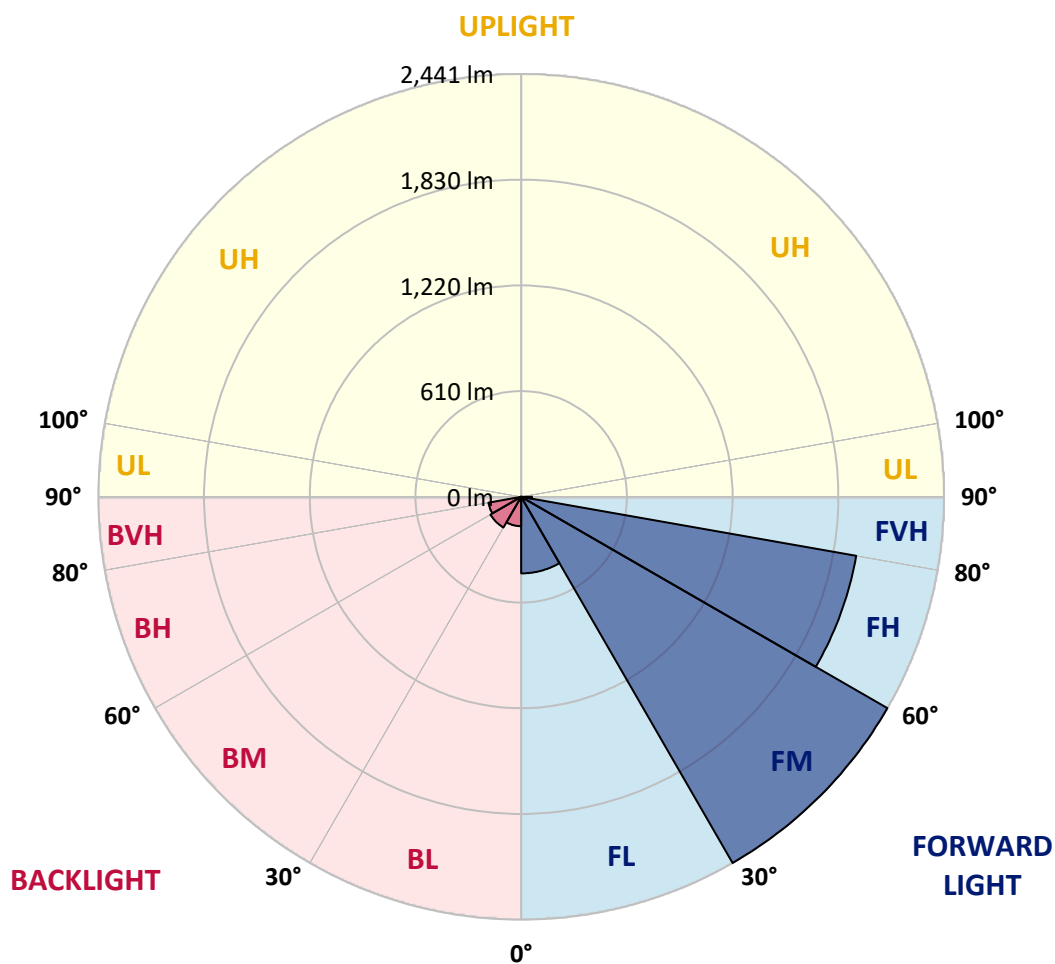
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	441.9	8.1			
FM	(30°-60°)	2440.6	44.6			
FH	(60°-80°)	1963.6	35.9			G2/5000
FVH	(80°-90°)	62.3	1.1			G1/100
BL	(0°-30°)	169.7	3.1	B1/500		
BM	(30°-60°)	204.4	3.7	B0/220		
BH	(60°-80°)	191.7	3.5	B1/500		G1/500
BVH	(80°-90°)	2.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1248.9	1251.3	1251.0	1252.9	1257.5	1257.8	1253.3	1244.7	1242.8	1231.6	1212.1
5°	1151.7	1159.0	1163.5	1181.7	1202.2	1226.8	1245.3	1252.0	1251.0	1243.1	1213.7
7.5°	1040.8	1048.3	1053.3	1074.7	1101.9	1144.1	1192.2	1231.9	1235.4	1244.0	1212.3
10°	967.1	968.4	975.3	995.8	1024.2	1067.4	1124.9	1194.2	1204.7	1236.4	1209.2
12.5°	906.3	907.3	916.5	938.6	968.9	1012.4	1072.8	1153.0	1169.3	1226.8	1208.5
15°	863.2	866.8	875.0	898.0	930.4	973.4	1035.4	1122.6	1142.1	1223.2	1214.3
17.5°	848.8	852.7	855.2	871.9	901.3	943.4	1007.0	1102.9	1124.9	1225.2	1225.5
20°	863.8	866.8	861.0	865.2	883.4	921.0	983.0	1085.9	1112.0	1227.4	1239.9
22.5°	919.8	921.0	905.4	887.1	884.0	904.7	964.2	1072.5	1100.6	1233.4	1256.8
25°	1015.6	1013.4	987.8	948.5	911.4	901.8	953.0	1064.1	1094.8	1239.9	1274.4
27.5°	1131.3	1134.4	1099.2	1042.2	971.6	921.0	951.4	1060.7	1092.3	1244.4	1289.7
30°	1271.8	1276.2	1236.0	1164.1	1062.9	968.4	966.1	1060.1	1090.6	1241.5	1291.0
32.5°	1415.2	1420.7	1389.0	1314.9	1184.9	1047.6	999.2	1067.0	1093.9	1231.6	1283.6
35°	1565.3	1573.2	1552.0	1488.4	1350.5	1161.9	1057.7	1088.4	1108.9	1230.6	1276.2
37.5°	1772.7	1779.8	1740.2	1672.8	1550.7	1315.3	1151.7	1128.6	1144.4	1245.9	1278.3
40°	2082.3	2081.4	1979.1	1876.0	1770.9	1510.2	1283.6	1201.6	1209.5	1292.2	1301.9
42.5°	2419.6	2418.1	2266.9	2110.2	2015.2	1750.0	1457.1	1327.4	1321.9	1377.5	1363.2
45°	2679.7	2679.4	2556.1	2379.4	2309.4	2025.4	1681.4	1502.5	1494.1	1516.2	1476.3
47.5°	2790.6	2792.4	2730.5	2606.3	2635.7	2397.9	1964.2	1756.2	1743.7	1734.7	1674.1
50°	2704.2	2708.1	2713.2	2689.0	2874.9	2898.5	2343.3	2113.6	2107.5	2067.6	1972.6
52.5°	2422.5	2442.1	2502.1	2579.1	2957.9	3379.1	2937.9	2557.6	2525.1	2482.6	2378.1
55°	1947.8	1969.2	2083.2	2270.2	2834.3	3694.7	3771.0	3130.2	3075.8	2949.0	2798.2
57.5°	1289.0	1322.2	1487.8	1725.4	2475.3	3745.5	4602.3	3924.7	3735.6	3388.3	3218.3
60°	710.1	742.1	921.7	1137.0	1787.8	3494.3	5161.4	4959.2	4625.0	3879.4	3728.6
62.5°	437.4	454.6	587.2	787.5	1072.2	2758.0	5277.0	6259.0	5872.1	4511.6	4344.8
65°	348.2	355.5	420.4	643.7	768.6	1640.5	4903.5	7250.0	7121.0	5277.0	4896.6
67°	338.0	340.9	371.6	552.7	724.6	1005.7	4108.0	7411.4	7542.3	5740.3	4913.8
67.5°	340.3	343.4	372.5	527.4	723.3	924.3	3834.0	7347.8	7513.3	5777.0	4837.5
70°	328.1	338.0	426.4	527.1	687.8	768.0	2296.1	6366.4	6538.6	5367.7	4104.6
72.5°	116.3	116.9	184.3	426.4	747.9	776.3	1153.0	4667.1	4794.7	4106.2	2959.3
75°	69.1	58.8	61.3	121.4	714.7	754.0	665.2	2982.2	3029.9	2352.9	1498.6
77.5°	47.6	41.5	42.8	53.6	272.2	743.4	528.4	1555.2	1504.4	825.2	319.1
80°	27.2	23.9	25.5	47.0	99.0	693.6	498.3	630.7	537.7	140.0	88.2
82.5°	14.4	12.1	14.7	38.7	69.1	432.2	499.4	304.8	241.6	47.3	60.1
85°	5.1	4.2	7.0	26.6	46.0	132.5	462.9	256.2	201.2	23.1	45.7
87.5°	1.0	1.0	2.8	10.8	18.6	40.5	273.8	152.1	101.9	13.7	31.3
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°	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0	1208.0
2.5°	1204.0	1190.4	1171.8	1149.2	1122.3	1098.7	1081.1	1062.9	1059.0	1052.6	1051.7
5°	1196.1	1172.5	1126.5	1073.7	1017.5	966.7	925.5	888.8	872.4	858.4	856.8
7.5°	1184.3	1148.9	1070.5	985.5	897.7	817.8	750.1	702.2	658.1	637.0	633.8
10°	1170.5	1119.8	1007.6	889.7	768.3	655.5	554.9	470.6	419.4	389.1	385.2
12.5°	1157.7	1091.3	943.4	790.4	629.0	478.2	348.9	268.3	214.7	193.0	190.4
15°	1151.7	1068.3	883.4	688.8	483.4	304.5	190.7	147.6	130.0	124.9	124.5
17.5°	1151.0	1048.8	824.6	583.7	338.6	177.0	124.2	113.4	110.0	108.6	108.6
20°	1150.7	1030.4	765.8	474.7	215.0	117.9	103.5	100.9	98.5	96.8	96.8
22.5°	1154.3	1013.7	704.4	363.5	135.5	95.5	91.0	88.5	85.3	83.0	82.7
25°	1157.7	1001.0	641.8	258.7	98.2	83.0	78.5	75.1	70.6	67.7	67.4
27.5°	1158.3	985.0	574.7	173.1	82.1	72.5	66.7	61.3	56.3	53.3	53.0
30°	1148.9	958.1	500.3	116.9	72.5	63.0	55.2	49.5	44.7	42.5	42.5
32.5°	1130.0	924.9	418.5	88.2	64.6	54.0	45.7	40.2	37.0	36.0	35.7
35°	1113.1	889.1	334.5	74.8	57.8	45.7	37.3	33.9	31.9	31.5	31.3
37.5°	1103.1	860.3	255.5	67.7	51.5	38.4	31.5	29.1	28.1	27.5	27.8
40°	1110.8	836.4	188.8	62.0	45.1	31.9	26.9	25.5	24.6	24.2	24.2
42.5°	1144.4	832.2	140.3	56.9	39.0	26.6	23.3	22.4	21.8	21.5	21.8
45°	1232.6	857.8	108.9	52.1	32.9	22.4	19.7	19.4	19.1	19.1	19.1
47.5°	1365.0	910.4	90.6	46.7	27.5	19.1	17.3	16.9	16.6	16.9	16.9
50°	1589.7	1007.0	81.2	41.2	22.7	16.3	14.7	14.7	14.7	14.7	15.0
52.5°	1931.1	1196.7	74.8	35.7	18.6	13.7	12.4	12.4	12.8	12.8	13.1
55°	2311.7	1448.4	69.1	30.4	15.7	11.5	10.3	10.5	10.8	11.2	11.2
57.5°	2724.5	1727.4	64.3	24.9	13.4	9.3	8.6	9.0	9.3	10.0	10.0
60°	3222.5	2029.3	57.2	19.4	11.2	7.3	6.7	7.3	8.3	9.0	9.3
62.5°	3769.5	2321.3	48.3	15.3	9.3	5.8	5.5	6.7	7.9	8.6	9.0
65°	4143.2	2413.0	37.0	12.4	7.0	4.2	4.5	6.1	7.6	8.6	8.6
67°	3991.8	2187.7	30.4	10.5	5.8	3.2	4.2	6.1	7.6	8.3	8.6
67.5°	3886.7	2099.5	29.1	10.3	5.5	3.2	4.2	6.1	7.6	8.6	8.6
70°	3162.4	1577.2	24.2	7.6	4.5	2.8	3.5	5.8	7.3	8.3	8.3
72.5°	2197.3	972.5	21.8	5.5	3.9	2.5	3.2	5.5	7.0	7.9	8.3
75°	1044.6	352.1	18.6	4.2	3.5	2.1	2.8	5.5	7.0	7.9	7.9
77.5°	213.0	81.8	15.0	3.5	2.8	2.1	2.5	5.1	6.7	7.6	7.6
80°	69.9	31.5	11.2	3.2	2.8	2.1	2.5	4.8	6.7	7.3	7.6
82.5°	50.5	16.0	7.3	3.2	2.8	2.1	2.1	4.8	6.3	7.3	7.3
85°	38.7	11.2	4.8	3.2	2.8	2.1	2.1	4.5	6.1	7.0	7.0
87.5°	25.5	4.5	3.9	3.2	2.8	2.1	2.1	4.5	5.8	6.7	7.0
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)