

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: P193300

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193300
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9449.8 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

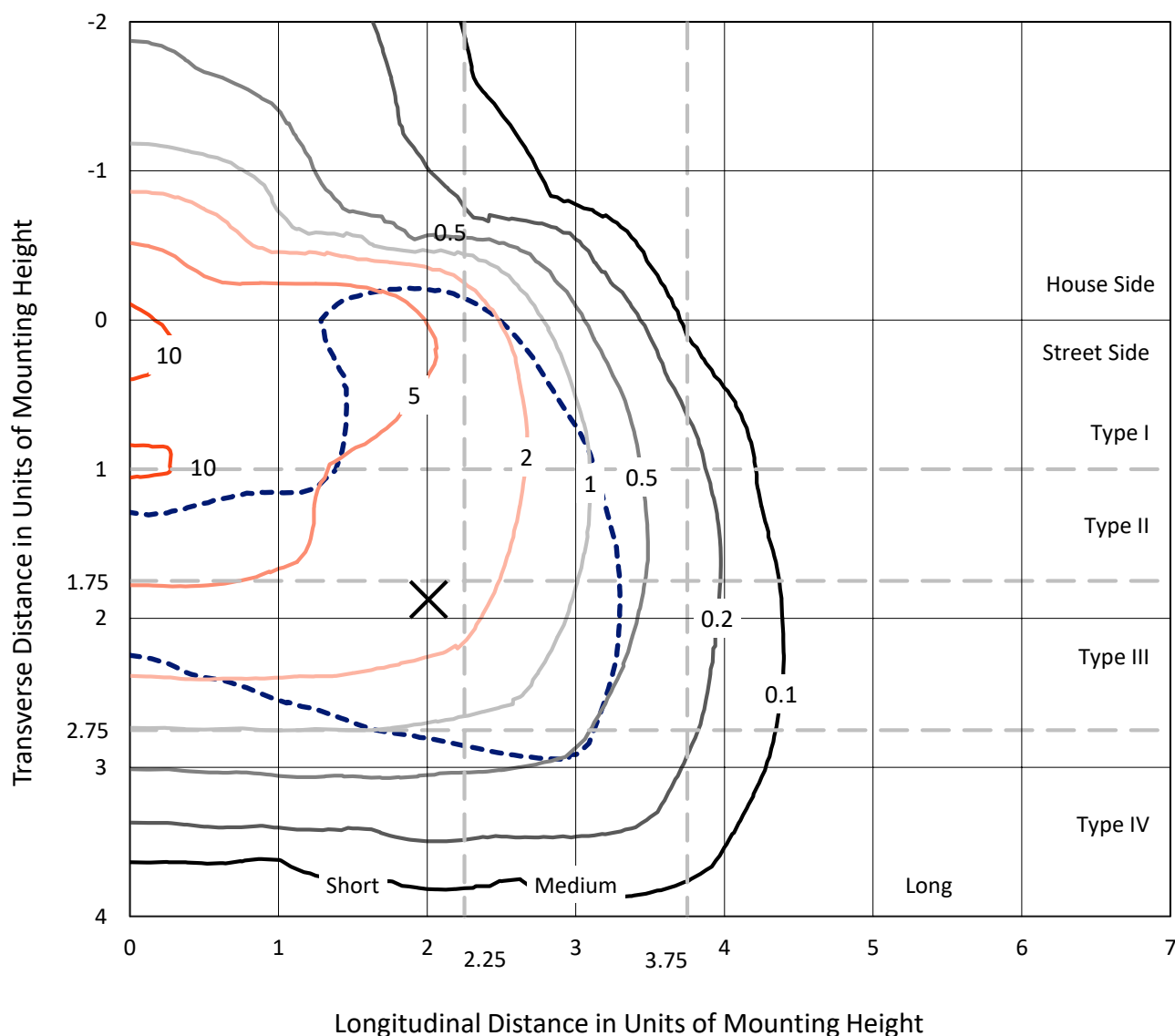


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

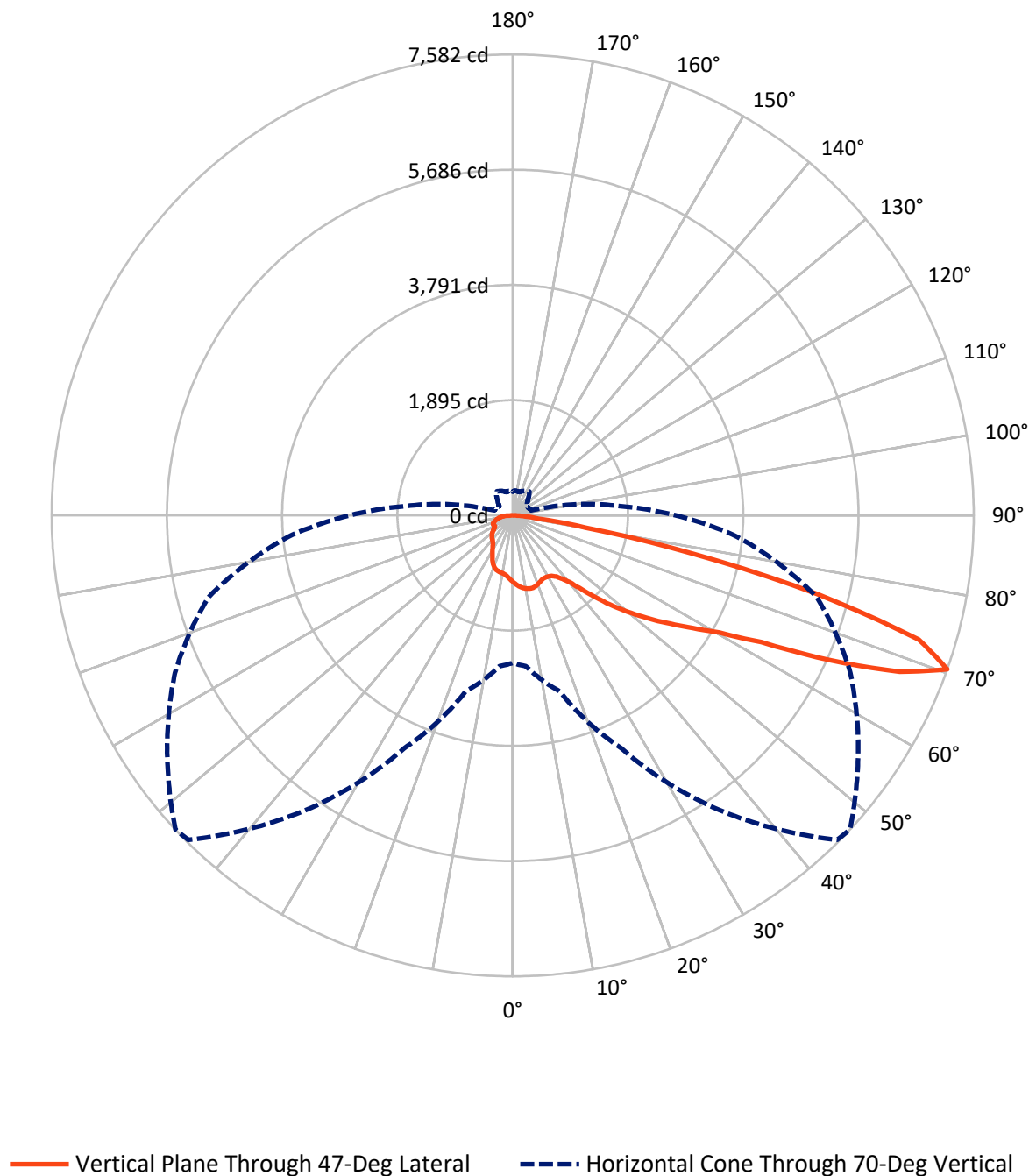


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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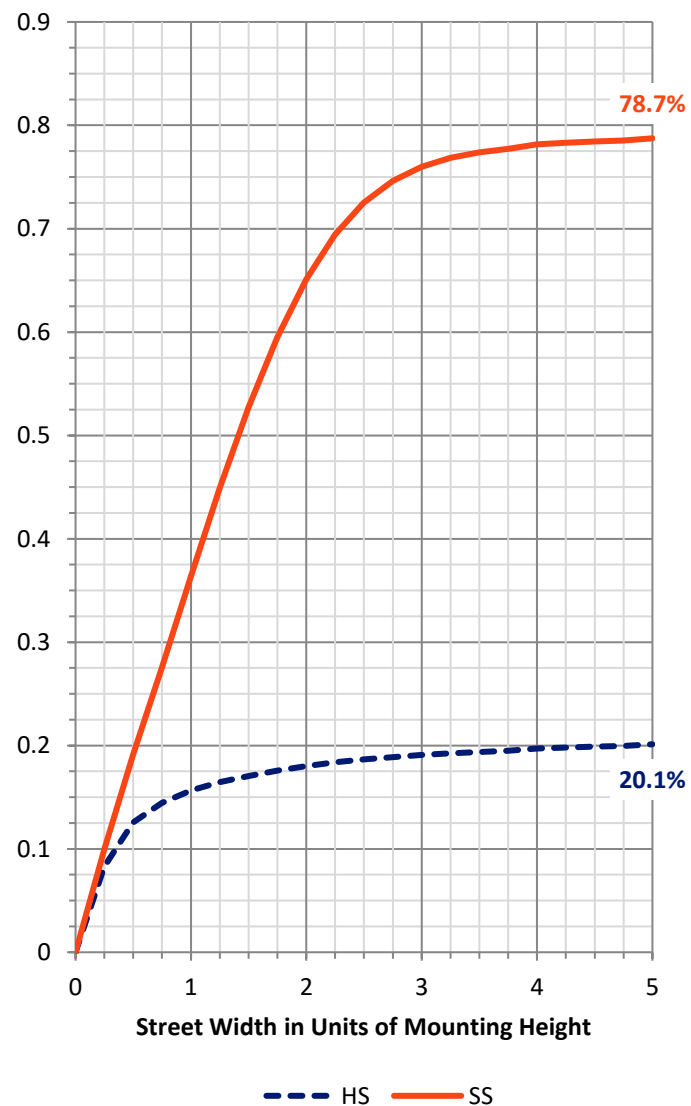
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1971.4	0.0	1971.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7478.4	0.0	7478.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	9449.8	0.0	9449.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	1.1
10°-20°	308.2	3.3
20°-30°	455.2	4.8
30°-40°	661.6	7.0
40°-50°	1190.6	12.6
50°-60°	2062.6	21.8
60°-70°	2943.9	31.2
70°-80°	1511.2	16.0
80°-90°	211.6	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°	9449.8	100.0
0°-180°	9449.8	100.0

Coefficient of Utilization



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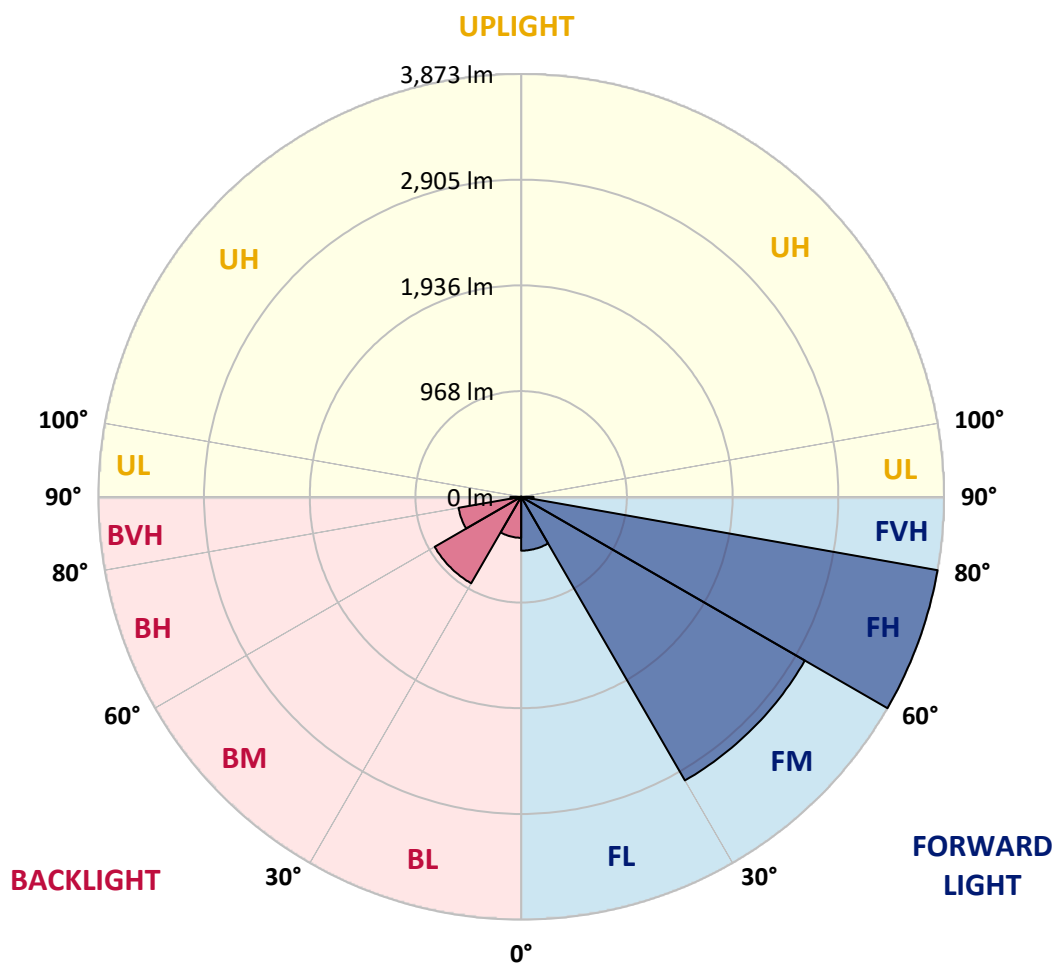
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.1	5.2			
FM	(30°-60°)	2999.6	31.7			
FH	(60°-80°)	3872.8	41.0			G2/5000
FVH	(80°-90°)	112.9	1.2			G2/225
BL	(0°-30°)	375.4	4.0	B1/500		
BM	(30°-60°)	915.1	9.7	B1/1000		
BH	(60°-80°)	582.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	98.7	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5
2.5°	1160.9	1158.5	1157.6	1155.8	1153.4	1142.0	1139.7	1131.4	1119.9	1108.0	1095.6
5°	1237.2	1236.7	1231.7	1222.4	1207.8	1182.4	1176.5	1156.3	1129.0	1102.9	1076.8
7.5°	1304.2	1300.1	1290.5	1272.1	1246.3	1211.9	1203.6	1175.5	1138.3	1102.4	1067.0
10°	1353.5	1351.2	1330.0	1304.8	1271.1	1233.0	1223.3	1192.1	1151.1	1105.7	1061.6
12.5°	1381.5	1376.8	1352.5	1322.2	1282.1	1245.0	1235.2	1203.6	1157.6	1105.7	1053.7
15°	1379.7	1376.4	1352.1	1319.0	1278.6	1245.9	1237.2	1205.4	1156.3	1101.2	1043.7
17.5°	1342.9	1344.3	1323.5	1290.9	1257.8	1233.0	1225.3	1195.8	1147.0	1091.8	1031.6
20°	1278.6	1285.0	1271.1	1242.2	1223.8	1206.8	1201.8	1176.9	1132.8	1078.5	1018.8
22.5°	1214.2	1220.1	1214.6	1190.3	1187.5	1177.4	1174.6	1156.7	1120.4	1070.3	1010.9
25°	1166.8	1172.4	1171.4	1150.3	1158.5	1158.0	1155.8	1147.0	1117.6	1070.3	1012.4
27.5°	1154.0	1155.8	1154.0	1134.6	1146.1	1155.3	1153.4	1152.1	1125.9	1083.7	1029.8
30°	1198.0	1195.3	1181.1	1142.0	1152.5	1165.5	1163.6	1164.4	1150.7	1118.6	1068.9
32.5°	1374.2	1361.7	1316.7	1206.8	1178.8	1185.7	1186.5	1201.8	1204.0	1172.4	1129.5
35°	1637.6	1623.8	1565.3	1380.6	1260.1	1236.3	1236.3	1259.2	1273.0	1249.6	1223.8
37.5°	1916.6	1901.4	1870.2	1621.5	1431.2	1324.0	1321.7	1337.9	1357.6	1363.1	1369.6
40°	2234.0	2217.8	2226.4	1891.9	1669.8	1476.2	1443.6	1432.1	1485.4	1520.8	1572.4
42.5°	2580.9	2573.6	2576.9	2193.0	1941.4	1703.8	1657.4	1598.0	1662.4	1725.4	1833.5
45°	2902.4	2908.8	2905.5	2515.2	2243.9	1981.4	1932.2	1817.3	1880.4	1988.4	2164.4
47.5°	3183.7	3157.0	3198.3	2867.4	2582.8	2292.3	2231.6	2077.6	2141.5	2274.8	2572.7
50°	3525.2	3521.7	3460.9	3337.3	2992.4	2604.4	2524.9	2346.5	2445.8	2631.1	3087.1
52.5°	3884.2	3817.6	3762.1	3702.7	3426.9	2924.5	2827.0	2614.6	2803.5	3036.6	3714.3
55°	3957.9	3928.0	3996.9	4096.6	3845.7	3256.8	3143.3	2950.5	3206.2	3500.0	4437.3
57.5°	4115.1	4114.7	4257.2	4435.1	4277.0	3609.4	3494.8	3356.6	3659.1	4031.0	5205.1
60°	4221.3	4251.2	4516.0	4861.3	4700.4	4016.7	3911.5	3825.0	4173.9	4624.5	5920.5
62.5°	4277.0	4317.4	4678.7	5034.1	5299.0	4694.9	4589.6	4465.0	4855.3	5275.5	6338.9
65°	4045.7	4125.2	4653.5	5183.6	5823.1	5794.1	5746.7	5527.9	5707.1	5789.9	6187.6
67.5°	3405.7	3487.1	4102.2	5044.3	6197.3	6854.3	6864.3	6490.5	6231.3	5834.1	5202.4
70°	2426.5	2490.3	2999.2	4229.1	5912.2	7547.1	7581.5	6934.2	6126.9	5173.9	3634.7
72.5°	1152.1	1191.2	1673.0	2752.5	4691.6	6914.9	6981.5	6367.8	5209.7	3830.5	1982.8
75°	423.4	435.4	565.5	1170.9	2721.2	5099.4	5178.1	4564.8	3453.5	1907.0	755.3
77.5°	253.8	261.5	317.2	494.2	1070.3	2914.7	3031.1	2482.6	1509.3	709.8	371.5
80°	177.4	183.0	227.6	307.6	505.8	1110.7	1214.2	1013.3	601.4	449.2	270.3
82.5°	119.9	122.7	159.9	207.8	336.1	396.7	428.0	450.5	405.5	334.3	171.4
85°	78.6	81.4	108.5	137.0	213.8	205.1	209.7	265.3	296.1	227.2	95.2
87.5°	45.1	46.9	65.3	73.1	104.8	86.9	87.9	139.8	189.4	153.1	57.9
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°	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5
2.5°	1092.4	1086.4	1073.0	1064.7	1057.0	1055.1	1051.8	1051.4	1051.0	1051.0	1049.6
5°	1068.0	1057.8	1037.2	1025.7	1016.0	1015.1	1014.7	1016.9	1017.9	1018.8	1017.4
7.5°	1052.3	1038.5	1012.9	996.2	984.8	982.0	986.6	997.2	1004.1	1006.9	1005.4
10°	1042.7	1025.7	995.8	977.9	968.2	966.8	972.9	985.2	999.5	1004.9	1004.5
12.5°	1031.6	1012.4	980.6	961.8	956.2	959.0	966.8	978.3	993.0	1001.8	1002.2
15°	1020.6	998.1	965.5	948.9	946.6	950.2	957.6	966.4	977.9	986.6	987.4
17.5°	1007.3	983.9	951.2	934.1	932.3	934.1	934.6	939.2	946.6	954.9	957.2
20°	993.0	969.1	935.1	918.1	909.8	902.5	894.2	895.2	897.4	905.6	907.5
22.5°	982.9	959.0	922.7	899.2	877.2	855.1	838.6	836.3	837.2	844.0	846.4
25°	983.9	958.5	919.5	879.0	830.7	795.3	773.2	769.6	769.1	774.2	777.4
27.5°	1001.8	976.4	931.4	858.3	780.2	727.7	704.2	701.6	697.8	699.3	703.0
30°	1041.8	1018.3	960.4	837.2	725.5	661.6	637.2	634.5	629.4	627.0	629.9
32.5°	1107.1	1087.7	1002.7	816.9	670.8	605.0	580.1	574.2	571.0	568.2	570.6
35°	1215.5	1207.4	1059.3	794.9	622.4	561.4	538.8	529.6	525.0	530.1	533.7
37.5°	1385.6	1390.3	1133.2	760.5	585.2	532.4	513.5	502.9	496.0	500.2	504.3
40°	1626.6	1629.8	1215.1	711.8	553.1	515.3	495.2	485.4	475.9	468.5	468.0
42.5°	1942.8	1910.2	1295.5	658.9	515.8	504.8	482.3	470.4	455.6	435.4	431.2
45°	2318.1	2203.5	1356.7	598.0	473.9	491.8	468.0	451.5	428.6	406.5	404.2
47.5°	2750.2	2518.4	1386.6	535.2	435.0	473.1	450.5	424.4	395.4	384.4	383.0
50°	3277.9	2892.2	1400.8	473.9	400.9	448.3	425.2	394.4	370.1	367.7	366.4
52.5°	3878.8	3341.8	1405.4	423.9	372.9	416.1	404.6	374.6	355.4	357.2	357.2
55°	4507.7	3806.1	1342.9	387.6	347.1	383.0	390.8	366.9	350.8	358.2	360.9
57.5°	5085.2	4217.6	1146.1	359.5	322.8	357.8	385.6	374.2	363.2	393.2	394.9
60°	5528.3	4460.8	856.0	334.3	304.9	349.0	399.1	402.3	405.1	476.3	485.9
62.5°	5621.2	4379.8	588.5	314.4	296.5	356.3	423.4	423.9	420.6	470.4	476.3
65°	5195.1	3868.3	428.0	303.4	289.6	369.7	444.1	434.5	413.3	451.0	440.0
67.5°	4125.7	2914.3	356.3	295.1	279.4	368.8	466.2	444.1	409.1	441.9	423.9
70°	2678.0	1762.2	317.2	288.2	267.5	351.3	479.0	443.1	397.2	411.1	389.8
72.5°	1306.5	788.0	291.0	278.2	255.1	326.9	478.5	435.0	384.8	383.8	372.3
75°	511.3	360.9	267.1	263.0	234.1	299.3	465.7	423.0	370.1	355.4	351.3
77.5°	299.3	257.5	236.8	240.5	208.6	271.7	446.9	402.3	349.8	332.3	327.8
80°	217.9	192.7	201.8	207.8	178.4	244.0	421.6	377.0	327.3	336.1	329.6
82.5°	139.8	124.1	163.7	169.7	148.5	216.2	394.0	350.2	295.6	268.4	262.0
85°	71.2	78.6	121.9	129.2	114.5	177.4	360.4	314.8	259.7	223.4	227.2
87.5°	40.0	53.7	77.7	86.9	81.0	136.6	292.4	259.7	212.0	172.4	151.8
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)