

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: McGRAW-EDISON

Report Number: P302896

Luminaire Tested: **GLNA-AF-03-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191569)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-T4W-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9668.2 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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: 25 FT

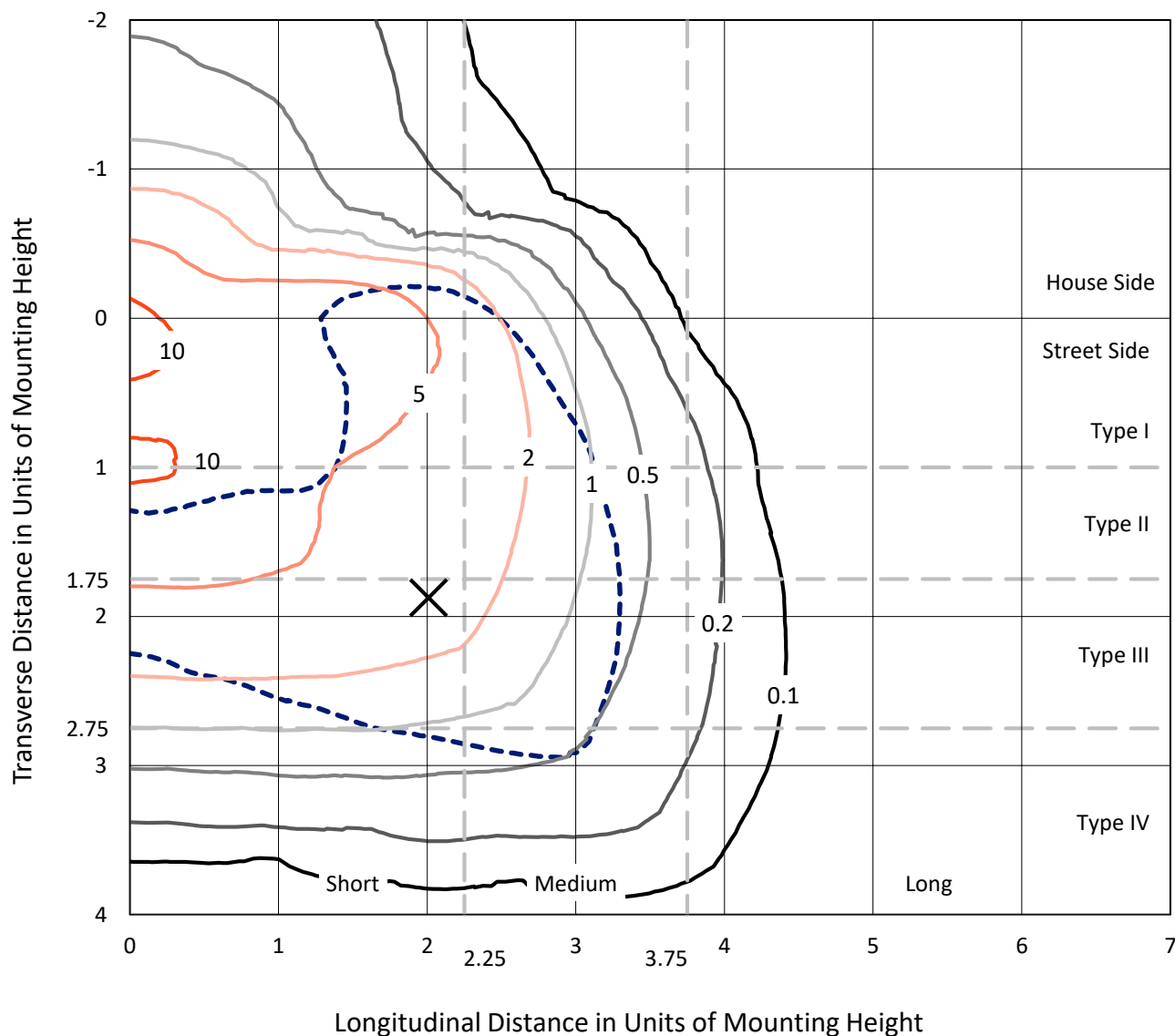


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

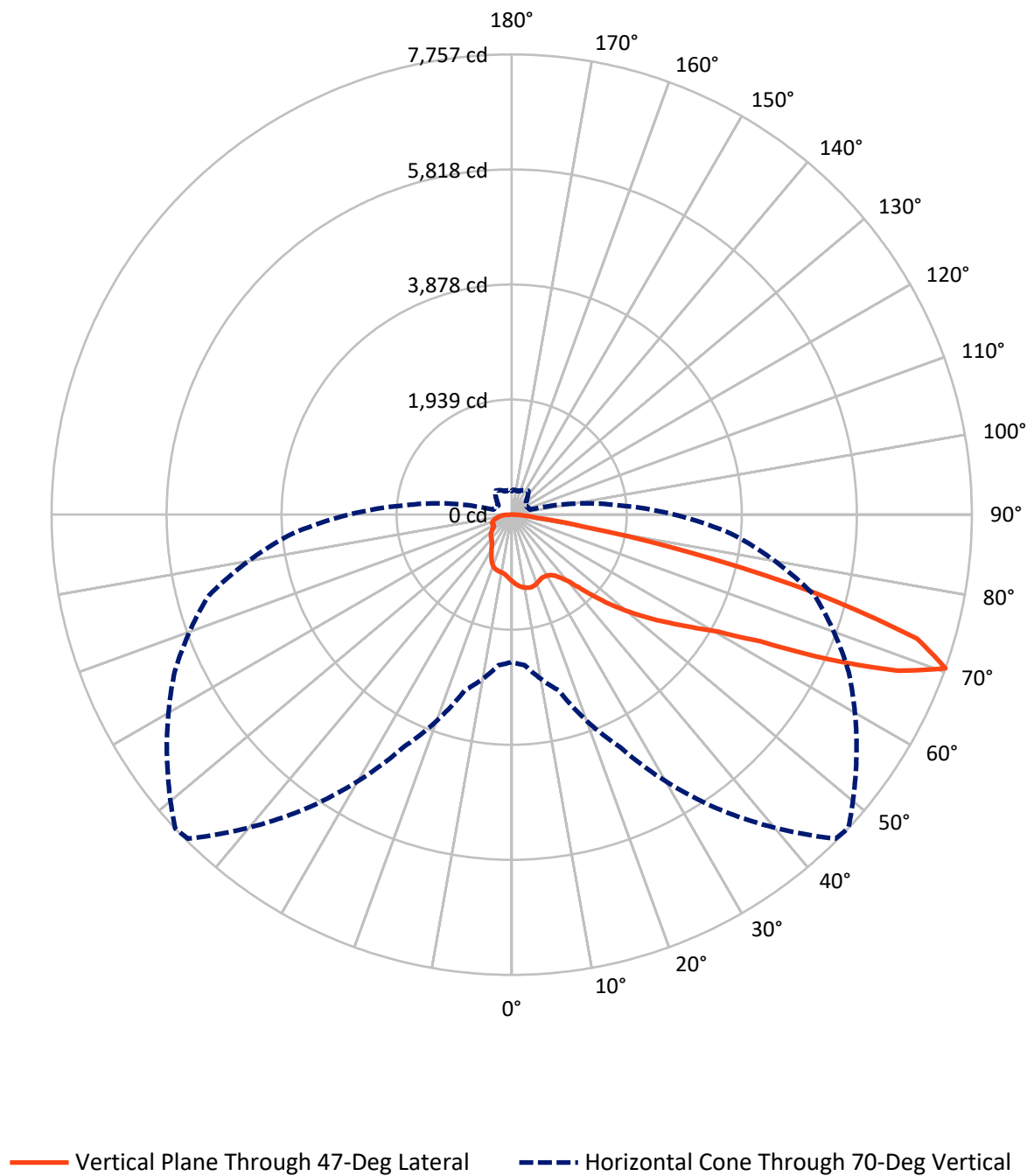


Based on 10 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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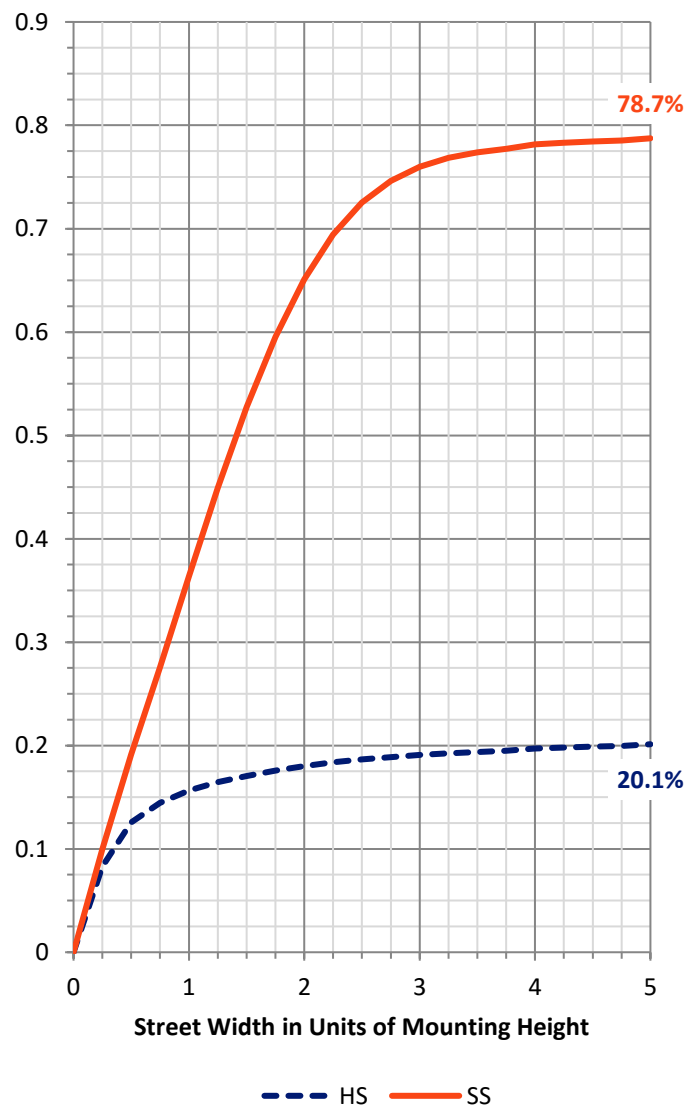
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2017.0	0.0	2017.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7651.2	0.0	7651.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	9668.2	0.0	9668.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.1
10°-20°	315.3	3.3
20°-30°	465.7	4.8
30°-40°	676.9	7.0
40°-50°	1218.1	12.6
50°-60°	2110.2	21.8
60°-70°	3011.9	31.2
70°-80°	1546.1	16.0
80°-90°	216.5	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°	9668.2	100.0
0°-180°	9668.2	100.0

Coefficient of Utilization



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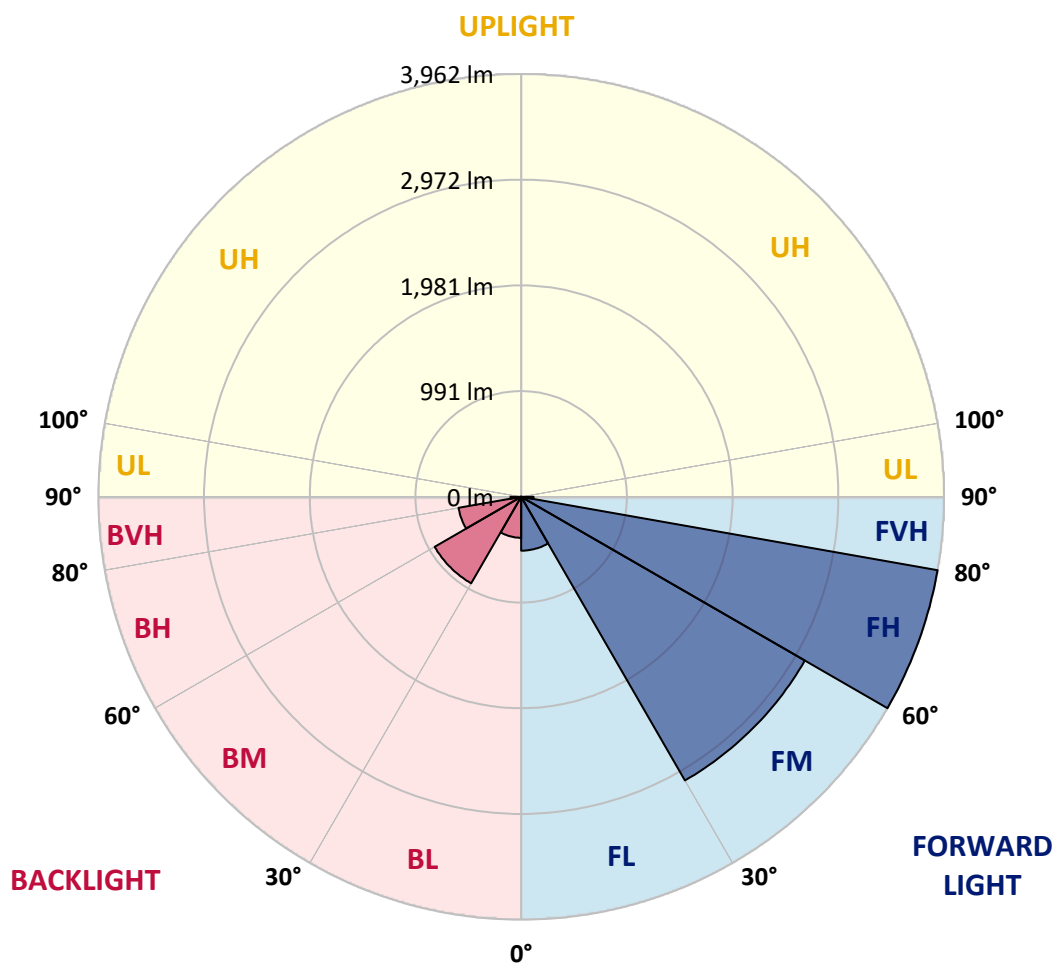
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.5	5.2			
FM	(30°-60°)	3068.9	31.7			
FH	(60°-80°)	3962.3	41.0			G2/5000
FVH	(80°-90°)	115.5	1.2			G2/225
BL	(0°-30°)	384.0	4.0	B1/500		
BM	(30°-60°)	936.2	9.7	B1/1000		
BH	(60°-80°)	595.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	101.0	1.0			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1187.7	1185.4	1184.4	1182.5	1180.2	1168.3	1166.0	1157.6	1145.8	1133.5	1120.8
5°	1265.8	1265.3	1260.0	1250.7	1235.7	1209.7	1203.6	1183.0	1155.2	1128.3	1101.6
7.5°	1334.4	1330.2	1320.3	1301.4	1275.2	1239.9	1231.4	1202.7	1164.6	1127.9	1091.6
10°	1384.7	1382.3	1360.8	1334.9	1300.5	1261.4	1251.6	1219.6	1177.7	1131.2	1086.0
12.5°	1413.4	1408.7	1383.8	1352.8	1311.9	1273.8	1263.8	1231.4	1184.4	1131.2	1078.0
15°	1411.6	1408.3	1383.3	1349.4	1308.1	1274.7	1265.8	1233.3	1183.0	1126.5	1067.7
17.5°	1373.9	1375.3	1354.2	1320.8	1286.9	1261.4	1253.5	1223.5	1173.5	1117.1	1055.5
20°	1308.1	1314.7	1300.5	1271.0	1252.1	1234.7	1229.6	1204.1	1159.0	1103.5	1042.3
22.5°	1242.2	1248.3	1242.7	1217.7	1214.9	1204.6	1201.8	1183.5	1146.3	1095.1	1034.3
25°	1193.8	1199.4	1198.5	1176.8	1185.4	1184.9	1182.5	1173.5	1143.5	1095.1	1035.7
27.5°	1180.7	1182.5	1180.7	1160.8	1172.6	1182.1	1180.2	1178.6	1151.9	1108.7	1053.7
30°	1225.8	1223.0	1208.3	1168.3	1179.3	1192.4	1190.5	1191.5	1177.2	1144.4	1093.7
32.5°	1405.9	1393.1	1347.0	1234.7	1206.0	1213.0	1213.9	1229.6	1231.9	1199.4	1155.7
35°	1675.4	1661.3	1601.5	1412.5	1289.2	1264.9	1264.9	1288.3	1302.4	1278.5	1252.1
37.5°	1961.0	1945.3	1913.5	1659.0	1464.2	1354.7	1352.4	1368.8	1388.9	1394.7	1401.2
40°	2285.4	2269.0	2277.9	1935.5	1708.4	1510.3	1476.9	1465.1	1519.7	1555.9	1608.7
42.5°	2640.7	2633.0	2636.3	2243.6	1986.3	1743.2	1695.7	1634.9	1700.9	1765.2	1875.8
45°	2969.3	2975.9	2972.6	2573.3	2295.9	2027.2	1976.9	1859.3	1923.8	2034.2	2214.5
47.5°	3257.2	3229.9	3272.2	2933.6	2642.5	2345.3	2283.1	2125.6	2190.9	2327.3	2632.1
50°	3606.7	3602.9	3540.9	3414.4	3061.5	2664.6	2583.2	2400.7	2502.3	2691.9	3158.5
52.5°	3974.1	3905.8	3849.0	3788.2	3506.1	2992.0	2892.2	2674.9	2868.3	3106.6	3800.1
55°	4049.3	4018.8	4089.2	4191.4	3934.6	3332.1	3215.8	3018.7	3280.4	3580.9	4539.9
57.5°	4210.2	4209.7	4355.6	4537.6	4375.7	3692.8	3575.6	3434.1	3743.5	4124.1	5325.4
60°	4318.9	4349.3	4620.4	4973.6	4808.9	4109.5	4001.8	3913.3	4270.5	4731.3	6057.2
62.5°	4375.7	4417.1	4786.9	5150.4	5421.3	4803.3	4695.7	4568.2	4967.5	5397.4	6485.3
65°	4139.2	4220.5	4761.0	5303.3	5957.6	5927.9	5879.5	5655.6	5839.0	5923.7	6330.6
67.5°	3484.4	3567.6	4197.0	5160.7	6340.5	7012.7	7023.0	6640.5	6375.3	5968.8	5322.6
70°	2482.6	2547.9	3068.7	4326.8	6048.8	7721.4	7756.7	7094.4	6268.4	5293.3	3718.7
72.5°	1178.6	1218.6	1711.6	2816.1	4800.0	7074.7	7142.9	6514.9	5330.1	3919.0	2028.6
75°	433.2	445.4	578.5	1198.0	2784.1	5217.3	5297.7	4670.2	3533.3	1951.1	772.8
77.5°	259.6	267.6	324.6	505.7	1095.1	2982.1	3101.0	2539.9	1544.2	726.2	380.1
80°	181.5	187.1	232.8	314.6	517.4	1136.5	1242.2	1036.6	615.2	459.6	276.5
82.5°	122.8	125.6	163.7	212.6	343.8	405.8	437.9	461.0	414.9	342.0	175.4
85°	80.5	83.3	111.1	140.1	218.7	209.8	214.5	271.3	302.9	232.3	97.3
87.5°	46.1	48.0	66.9	74.8	107.3	88.9	89.8	142.9	193.9	156.7	59.2
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°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1117.6	1111.5	1097.9	1089.3	1081.3	1079.4	1076.2	1075.7	1075.2	1075.2	1073.8
5°	1092.6	1082.3	1061.2	1049.3	1039.5	1038.5	1038.0	1040.4	1041.3	1042.3	1040.9
7.5°	1076.6	1062.6	1036.2	1019.3	1007.6	1004.6	1009.5	1020.2	1027.3	1030.1	1028.7
10°	1066.8	1049.3	1018.8	1000.4	990.6	989.2	995.2	1008.1	1022.6	1028.2	1027.7
12.5°	1055.5	1035.7	1003.2	984.0	978.4	981.2	989.2	1000.9	1016.0	1024.9	1025.4
15°	1044.1	1021.2	987.7	970.9	968.5	972.3	979.8	988.7	1000.4	1009.5	1010.4
17.5°	1030.6	1006.5	973.2	955.7	953.8	955.7	956.2	960.9	968.5	977.0	979.3
20°	1016.0	991.5	956.7	939.3	930.9	923.4	914.8	915.7	918.1	926.7	928.5
22.5°	1005.6	981.2	944.0	920.0	897.5	874.8	857.9	855.6	856.5	863.6	865.9
25°	1006.5	980.7	940.7	899.3	850.0	813.7	791.1	787.3	786.9	792.0	795.4
27.5°	1024.9	999.0	952.9	878.1	798.3	744.5	720.6	717.8	714.1	715.5	719.2
30°	1065.9	1041.8	982.6	856.5	742.2	676.9	651.9	649.1	643.9	641.6	644.4
32.5°	1132.6	1112.9	1025.9	835.8	686.3	618.9	593.6	587.5	584.2	581.4	583.8
35°	1243.6	1235.2	1083.7	813.3	636.9	574.2	551.3	541.9	537.2	542.4	546.1
37.5°	1417.7	1422.3	1159.4	778.0	598.8	544.7	525.4	514.6	507.5	511.8	516.0
40°	1664.2	1667.4	1243.2	728.1	565.8	527.2	506.6	496.8	486.8	479.3	478.8
42.5°	1987.7	1954.4	1325.5	674.1	527.7	516.4	493.5	481.1	466.1	445.4	441.2
45°	2371.5	2254.5	1388.0	611.9	484.9	503.3	478.8	461.9	438.3	415.8	413.5
47.5°	2813.7	2576.6	1418.6	547.5	444.9	484.0	461.0	434.1	404.4	393.2	391.8
50°	3353.6	2959.0	1433.1	484.9	410.2	458.6	435.1	403.5	378.7	376.3	374.9
52.5°	3968.5	3419.1	1438.0	433.7	381.5	425.7	414.0	383.4	363.5	365.5	365.5
55°	4611.9	3894.1	1373.9	396.5	355.1	391.8	399.8	375.4	358.8	366.5	369.3
57.5°	5202.6	4315.1	1172.6	367.9	330.2	366.0	394.6	382.9	371.6	402.1	404.0
60°	5656.1	4563.8	875.7	342.0	311.8	357.0	408.3	411.6	414.4	487.2	497.2
62.5°	5751.1	4481.2	602.1	321.8	303.4	364.6	433.2	433.7	430.4	481.1	487.2
65°	5315.1	3957.6	437.9	310.4	296.3	378.2	454.4	444.4	422.9	461.5	450.1
67.5°	4220.9	2981.7	364.6	302.0	286.0	377.3	476.9	454.4	418.7	452.1	433.7
70°	2739.9	1802.9	324.6	294.9	273.7	359.3	490.0	453.5	406.3	420.5	398.8
72.5°	1336.7	806.2	297.7	284.6	261.0	334.5	489.6	444.9	393.7	392.7	381.0
75°	523.0	369.3	273.2	269.0	239.5	306.2	476.5	432.7	378.7	363.5	359.3
77.5°	306.2	263.4	242.3	246.0	213.5	277.9	457.2	411.6	357.9	340.1	335.4
80°	222.9	197.1	206.5	212.6	182.5	249.8	431.3	385.7	334.9	343.8	337.3
82.5°	142.9	127.0	167.5	173.6	152.0	221.0	403.0	358.4	302.4	274.6	268.1
85°	73.0	80.5	124.7	132.2	117.2	181.5	368.8	322.3	265.7	228.5	232.3
87.5°	40.9	55.0	79.5	88.9	82.8	139.7	299.2	265.7	216.8	176.4	155.3
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)