

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: P452238

Luminaire Tested: **GALN-SA3A-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10910 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 93
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: 24 FT

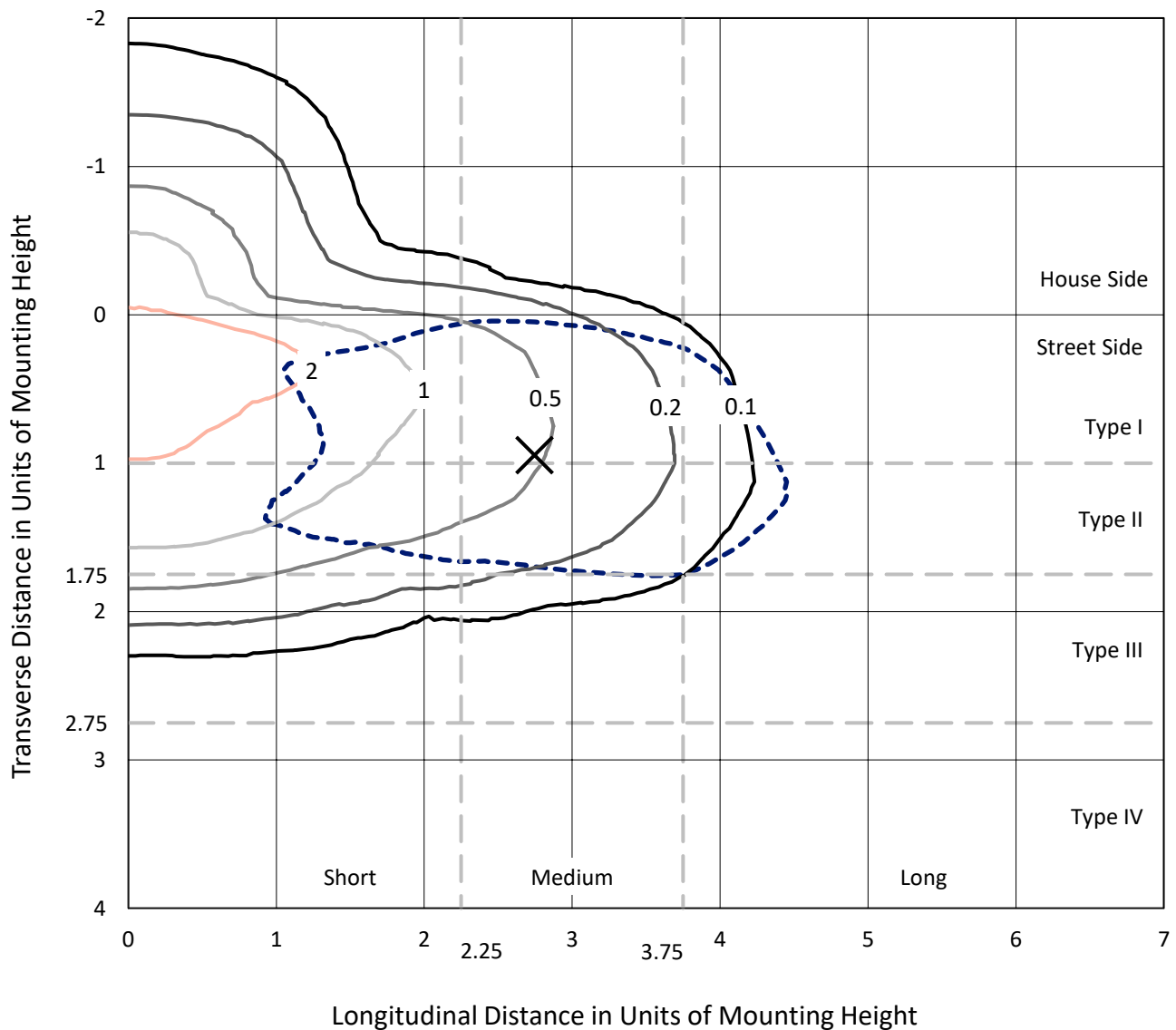


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

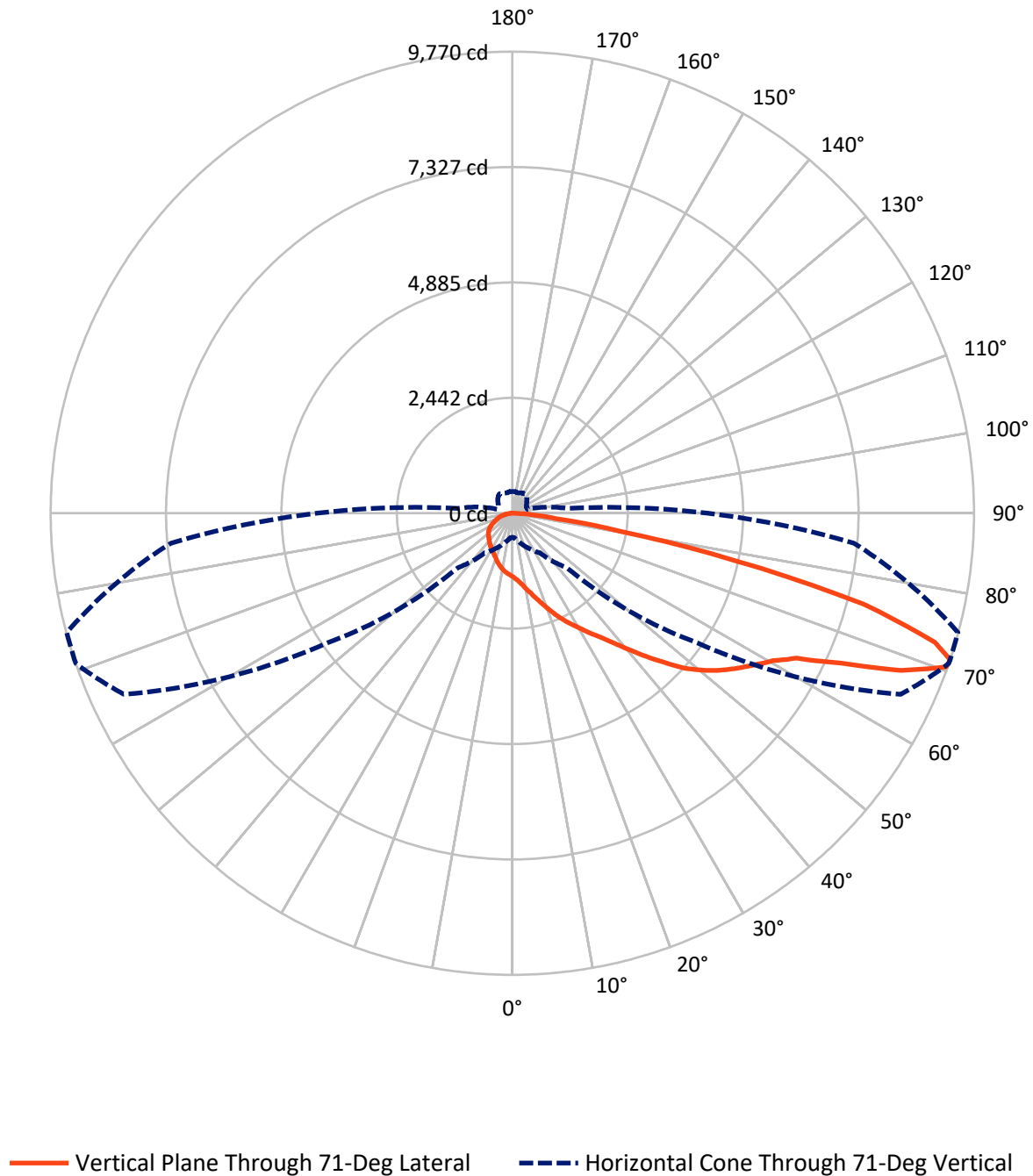


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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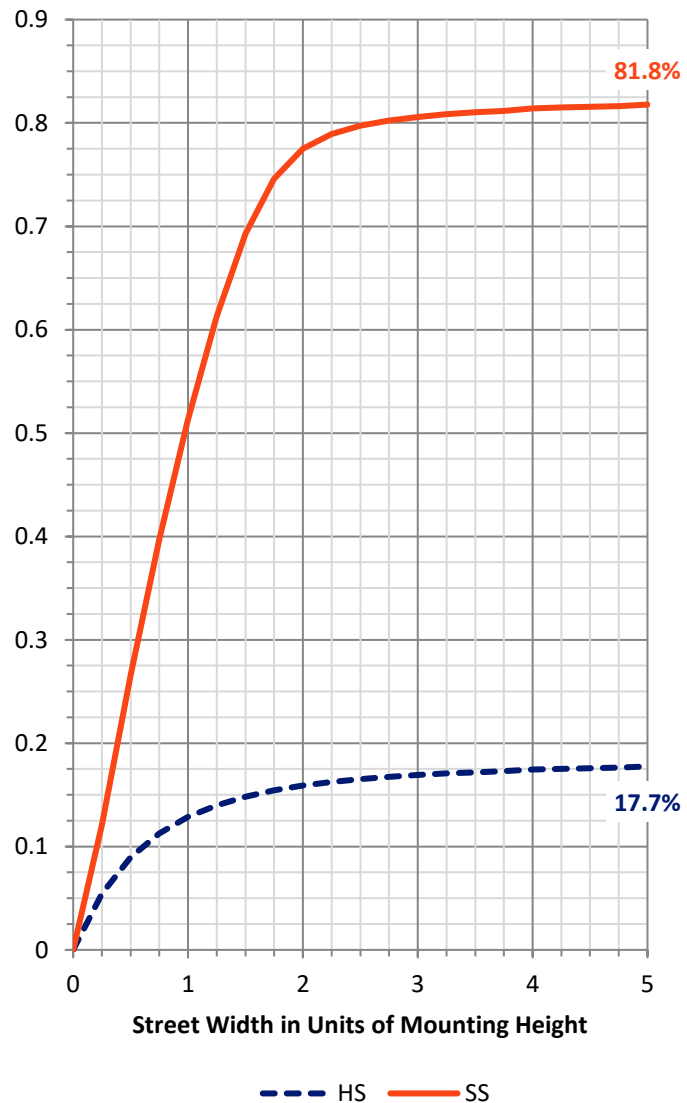
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1962.1	0.0	1962.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	8947.9	0.0	8947.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	10910.0	0.0	10910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	1.2
10°-20°	436.8	4.0
20°-30°	763.3	7.0
30°-40°	1135.4	10.4
40°-50°	1672.8	15.3
50°-60°	2342.0	21.5
60°-70°	2619.4	24.0
70°-80°	1600.0	14.7
80°-90°	205.8	1.9
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°	10910.0	100.0
0°-180°	10910.0	100.0

Coefficient of Utilization



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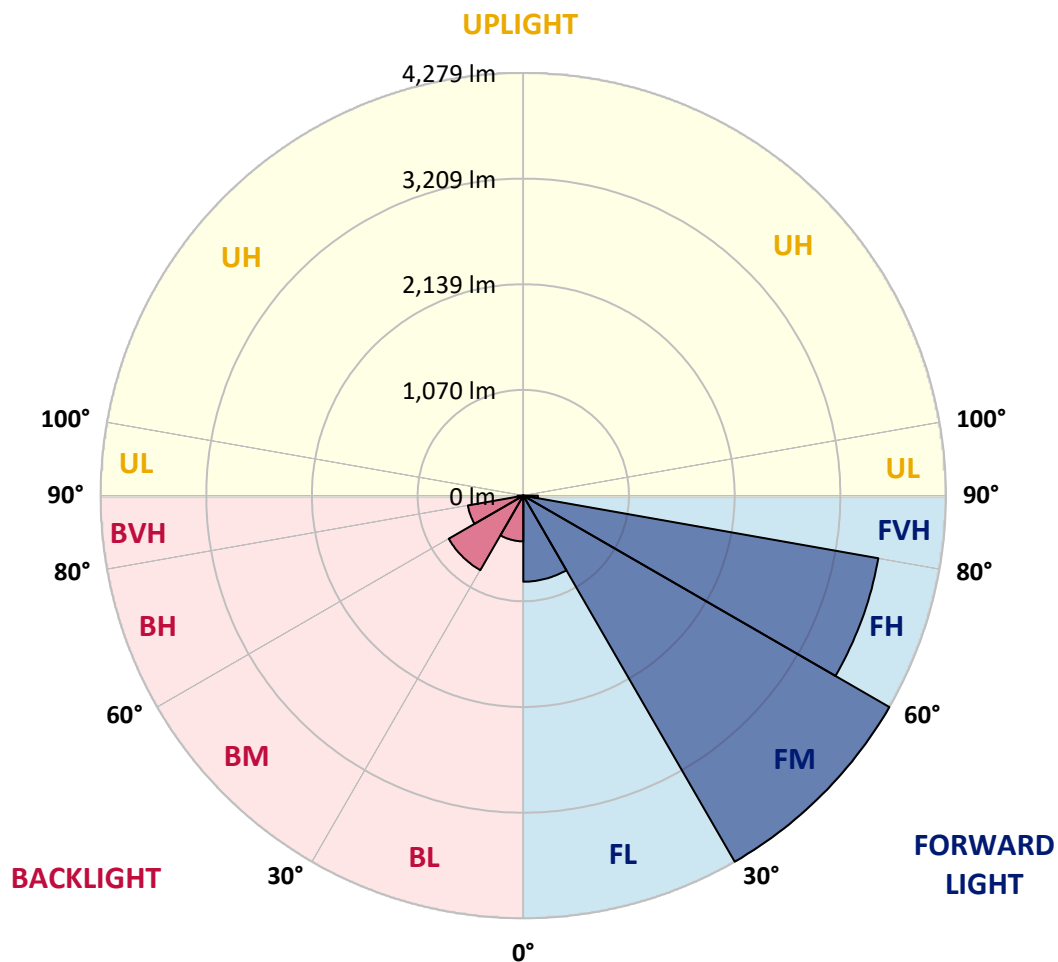
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.7	8.0			
FM	(30°-60°)	4278.7	39.2			
FH	(60°-80°)	3649.4	33.4			G2/5000
FVH	(80°-90°)	148.1	1.4			G2/225
BL	(0°-30°)	462.9	4.2	B1/500		
BM	(30°-60°)	871.5	8.0	B1/1000		
BH	(60°-80°)	570.1	5.2	B2/1000		G2/1000
BVH	(80°-90°)	57.7	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0
2.5°	1486.5	1479.3	1479.9	1469.7	1456.5	1442.1	1421.7	1403.7	1389.4	1381.0	1356.4
5°	1647.2	1640.0	1631.0	1608.8	1599.2	1563.9	1518.9	1478.1	1446.9	1429.5	1380.4
7.5°	1777.3	1775.5	1773.1	1760.5	1735.9	1686.8	1648.4	1577.6	1531.5	1498.5	1414.5
10°	1857.7	1860.7	1862.5	1864.9	1854.7	1828.9	1776.1	1686.8	1628.0	1586.0	1458.9
12.5°	1898.4	1901.4	1911.6	1933.8	1947.6	1944.6	1901.4	1813.9	1732.9	1677.8	1506.3
15°	1923.6	1928.4	1946.4	1975.8	2022.0	2051.4	2030.4	1949.4	1860.7	1795.3	1562.7
17.5°	1951.2	1956.6	1976.4	2018.4	2078.9	2142.5	2165.3	2095.7	1999.2	1921.2	1625.6
20°	1966.8	1974.0	2002.2	2057.4	2128.1	2220.5	2296.0	2259.4	2153.9	2067.5	1698.2
22.5°	1992.0	1998.0	2022.0	2080.7	2165.3	2281.0	2426.7	2418.9	2326.0	2214.5	1777.9
25°	2060.3	2069.9	2081.9	2117.3	2198.9	2342.8	2535.3	2589.2	2492.7	2368.0	1851.1
27.5°	2189.3	2197.1	2196.5	2201.3	2247.4	2396.1	2629.4	2757.7	2658.2	2523.3	1921.8
30°	2336.2	2339.2	2341.6	2330.8	2341.0	2450.7	2715.8	2924.4	2824.9	2682.8	1983.6
32.5°	2514.9	2520.9	2500.5	2472.9	2464.5	2531.7	2787.1	3091.1	3022.2	2844.7	2044.8
35°	2725.9	2741.5	2700.2	2651.6	2617.4	2648.0	2883.1	3261.4	3224.2	3051.5	2125.7
37.5°	2967.0	2986.2	2947.8	2852.5	2803.9	2812.3	3008.4	3471.9	3479.7	3287.2	2246.2
40°	3164.3	3189.5	3190.7	3055.7	2982.0	2991.6	3167.3	3698.6	3787.9	3578.6	2388.4
42.5°	3294.4	3319.0	3344.8	3265.6	3188.3	3242.8	3352.6	3944.4	4134.5	3932.4	2586.8
45°	3437.1	3459.3	3473.7	3437.7	3394.5	3536.1	3576.2	4205.8	4503.9	4327.6	2803.9
47.5°	3602.6	3627.2	3641.0	3606.8	3590.6	3793.3	3817.3	4449.9	4898.4	4711.3	3043.8
50°	3823.3	3841.9	3834.7	3813.1	3809.5	3990.6	4048.7	4678.4	5224.0	5124.5	3292.6
52.5°	4097.9	4120.1	4127.9	4097.3	4083.5	4131.5	4235.2	4886.4	5520.2	5479.5	3558.2
55°	4264.0	4299.4	4418.1	4466.1	4499.1	4313.8	4436.1	5116.1	5785.9	5853.6	3843.7
57.5°	4051.1	4096.7	4362.4	4602.2	4912.2	4769.5	4720.9	5355.9	6051.5	6216.4	4185.5
60°	3531.9	3542.1	3884.4	4326.4	4950.0	5355.3	5315.2	5737.3	6339.4	6582.2	4635.8
62.5°	2450.1	2471.7	2876.5	3581.6	4483.5	5566.4	6326.2	6395.7	6751.9	7129.7	5296.0
65°	1263.4	1235.3	1604.0	2251.0	3380.1	5065.1	7145.3	7606.4	7646.6	7986.0	6225.4
67.5°	777.7	790.3	963.0	1314.4	1998.6	3681.2	7059.5	9085.7	8874.0	9037.1	7088.3
70°	584.0	599.6	718.4	899.5	1218.5	2104.7	5677.4	9444.3	9739.9	9697.9	7350.9
71°	507.9	524.1	647.6	818.5	1023.6	1624.4	4783.3	9068.9	9769.9	9762.7	7252.0
72.5°	432.9	443.1	539.7	693.2	862.9	1138.7	3593.6	8133.5	9353.1	9592.4	6898.8
75°	340.0	347.8	391.0	528.9	679.4	699.2	1928.4	6097.7	7681.9	8137.7	5743.3
77.5°	277.0	282.4	304.6	392.8	524.1	495.3	1011.6	3969.0	4812.7	5271.4	3383.1
80°	220.1	226.1	239.3	266.2	392.8	353.2	482.7	2011.2	2324.8	2320.0	1350.4
82.5°	170.9	172.7	188.3	195.5	268.6	250.6	261.4	851.5	943.2	974.4	487.5
85°	107.9	113.3	166.7	149.9	160.7	146.9	128.9	338.2	416.7	410.8	194.9
87.5°	33.0	34.8	56.4	63.6	71.4	64.2	47.4	99.5	121.7	131.9	48.6
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°	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0	1339.0
2.5°	1346.8	1340.2	1316.8	1297.6	1279.6	1259.8	1243.0	1238.2	1234.1	1232.3	1231.7
5°	1359.4	1339.6	1293.4	1255.6	1225.7	1198.1	1180.7	1172.9	1165.1	1165.1	1167.5
7.5°	1377.4	1341.4	1270.0	1213.7	1175.9	1150.1	1137.5	1136.3	1138.1	1139.9	1140.5
10°	1397.2	1340.2	1235.8	1165.7	1132.1	1120.1	1120.7	1130.9	1140.5	1147.7	1148.9
12.5°	1416.3	1333.0	1195.7	1120.7	1099.1	1101.5	1118.3	1141.1	1159.7	1169.9	1170.5
15°	1437.9	1321.6	1147.1	1078.1	1070.9	1089.5	1120.7	1155.5	1183.7	1200.5	1202.3
17.5°	1455.9	1302.4	1096.1	1036.8	1045.8	1079.9	1123.1	1168.1	1202.3	1223.3	1226.9
20°	1476.3	1277.8	1043.4	997.2	1023.0	1069.2	1118.3	1166.9	1202.3	1222.7	1227.5
22.5°	1492.5	1243.0	993.0	964.8	1002.6	1056.0	1102.1	1141.1	1169.9	1180.7	1187.9
25°	1499.1	1199.3	945.6	938.4	986.4	1034.4	1065.6	1087.7	1096.7	1095.5	1098.5
27.5°	1495.5	1148.9	904.9	917.4	966.0	1000.8	1016.4	1014.6	998.4	983.4	990.6
30°	1480.5	1088.9	870.7	895.9	939.6	958.8	956.4	933.0	902.5	874.3	876.1
32.5°	1453.5	1024.2	838.9	871.3	902.5	910.8	894.7	864.1	820.3	783.7	778.3
35°	1430.7	962.4	810.7	843.1	865.3	861.1	845.5	805.9	766.3	734.0	728.6
37.5°	1427.1	909.6	783.7	811.3	823.9	817.9	798.7	765.1	750.7	726.2	723.2
40°	1446.3	872.5	756.1	777.7	783.7	778.9	757.9	738.8	751.9	745.9	745.9
42.5°	1498.5	852.7	731.6	744.1	748.9	752.5	737.6	721.4	737.6	710.0	701.0
45°	1581.2	853.3	709.4	711.2	725.6	738.2	728.0	704.0	695.6	640.4	629.6
47.5°	1703.0	873.7	691.4	680.0	705.8	726.8	712.4	677.6	640.4	603.8	597.2
50°	1845.1	910.2	675.2	647.6	679.4	712.4	701.6	660.8	622.4	600.2	596.0
52.5°	2002.8	956.4	655.4	611.6	647.0	705.8	704.0	658.4	605.6	590.6	587.0
55°	2197.7	1002.0	630.8	569.7	618.2	700.4	697.4	638.6	602.0	591.2	590.0
57.5°	2424.3	1068.0	595.4	527.1	585.2	678.2	671.6	626.6	590.0	582.2	581.6
60°	2789.5	1170.5	545.1	488.1	551.7	639.2	647.6	606.2	570.9	569.1	568.5
62.5°	3269.8	1314.4	492.9	447.9	512.7	588.8	612.8	578.6	550.5	559.5	560.7
65°	3933.0	1435.5	438.9	413.7	469.5	540.3	579.8	552.9	527.7	545.1	545.1
67.5°	4365.4	1437.9	389.8	378.4	425.7	499.5	545.1	522.3	498.3	527.7	528.9
70°	4275.4	1259.8	349.0	341.2	383.2	455.7	506.7	488.7	461.1	487.5	477.9
71°	4130.3	1160.9	332.8	326.8	366.4	434.7	488.7	473.7	446.1	463.5	458.1
72.5°	3898.8	1008.0	306.4	307.6	341.2	408.4	463.5	447.9	420.3	429.9	428.1
75°	3295.6	880.3	262.0	267.4	293.2	363.4	413.1	401.2	373.0	373.0	371.2
77.5°	2060.3	615.2	217.7	220.7	248.8	311.2	355.0	344.8	317.8	308.8	306.4
80°	768.7	317.8	170.3	173.9	191.3	245.3	293.8	284.2	256.6	246.5	236.9
82.5°	290.8	159.5	125.3	122.3	140.9	187.1	230.3	218.9	197.3	172.7	165.5
85°	109.7	79.2	76.8	74.4	82.7	110.9	142.7	140.3	117.5	100.1	98.3
87.5°	28.8	25.8	30.0	22.2	23.4	21.0	21.6	9.0	4.2	1.8	1.2
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)