

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: P451086

Luminaire Tested: **GALN-SA1D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6206 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): 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

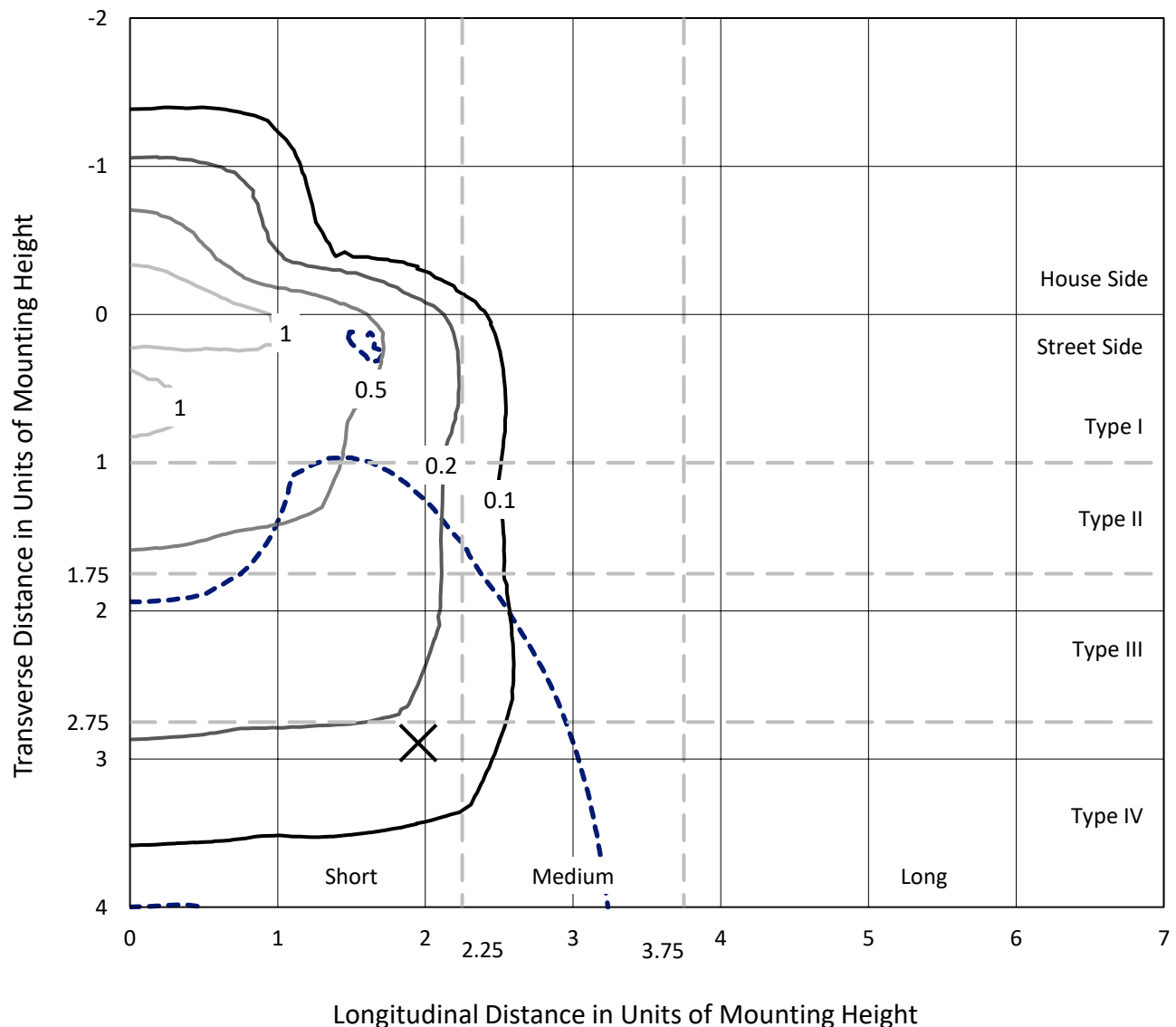


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

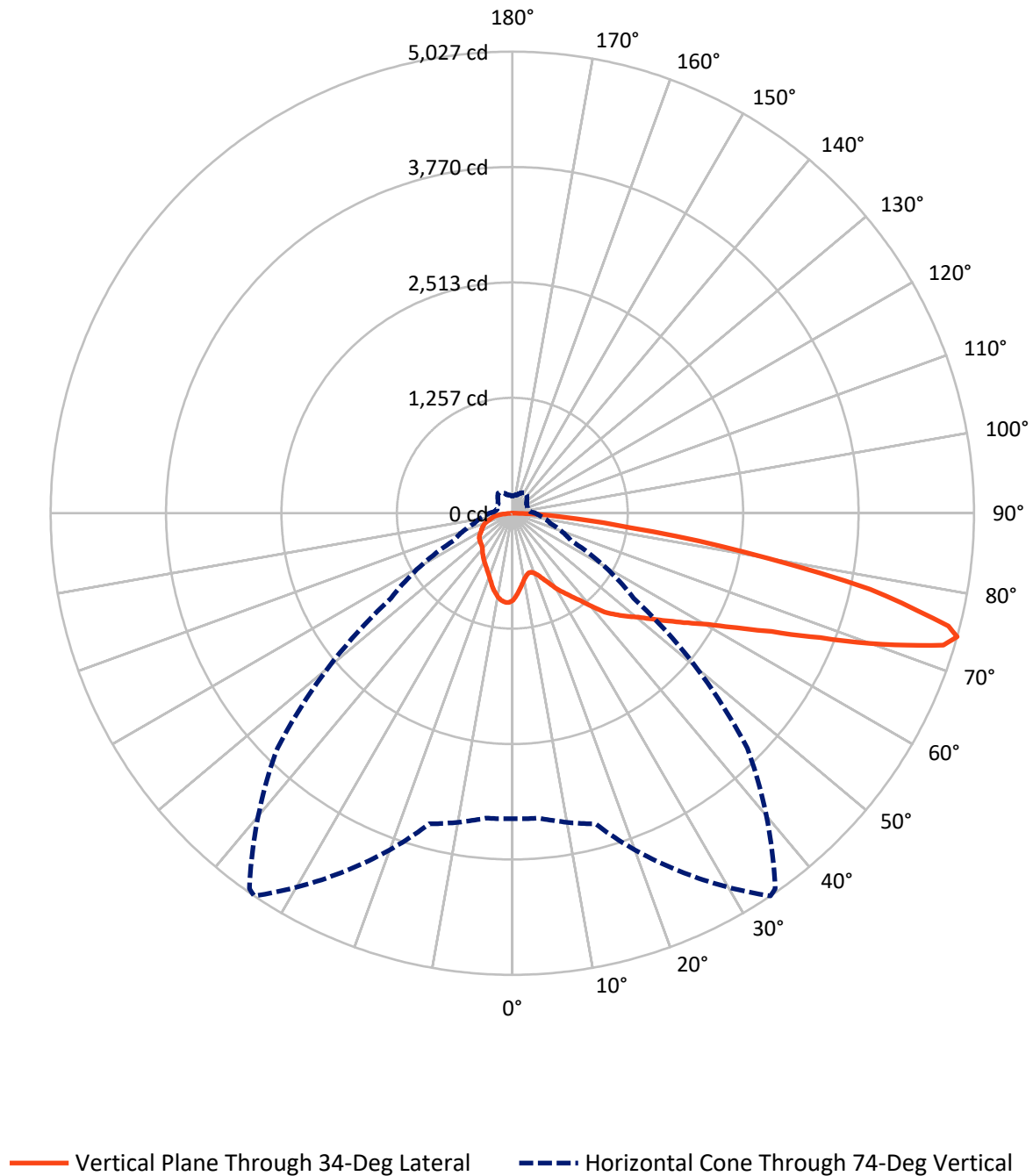


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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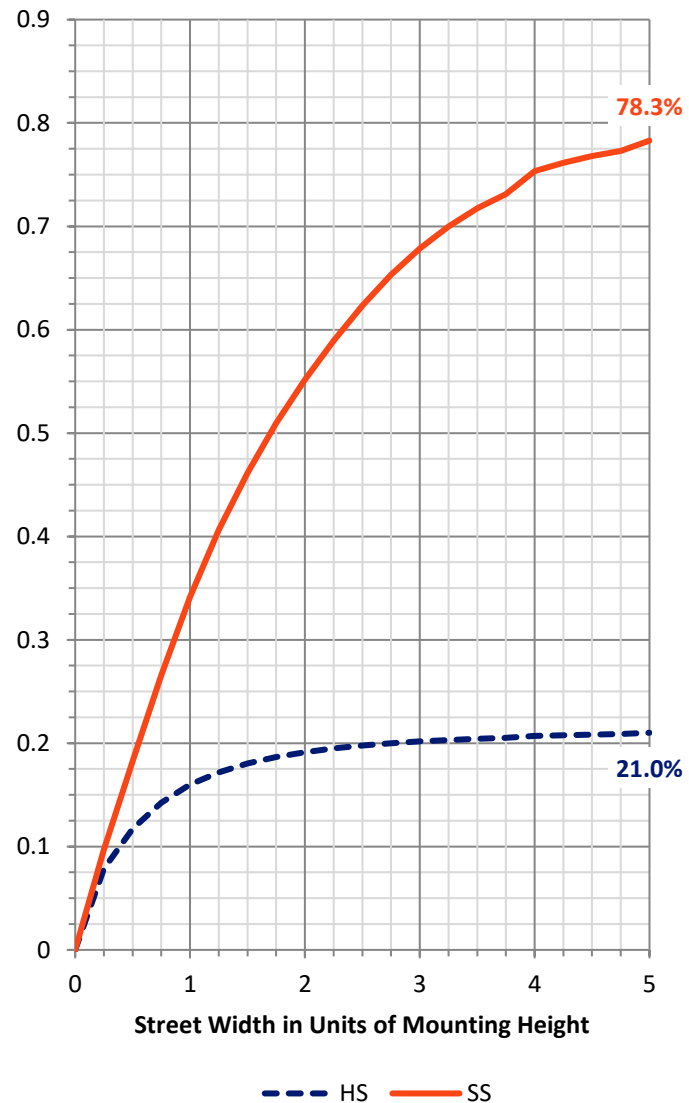
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1320.7	0.0	1320.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	4885.3	0.0	4885.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	6206.0	0.0	6206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.4
10°-20°	235.9	3.8
20°-30°	388.9	6.3
30°-40°	582.6	9.4
40°-50°	846.9	13.6
50°-60°	1182.9	19.1
60°-70°	1481.0	23.9
70°-80°	1224.6	19.7
80°-90°	177.0	2.9
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°	6206.0	100.0
0°-180°	6206.0	100.0

Coefficient of Utilization



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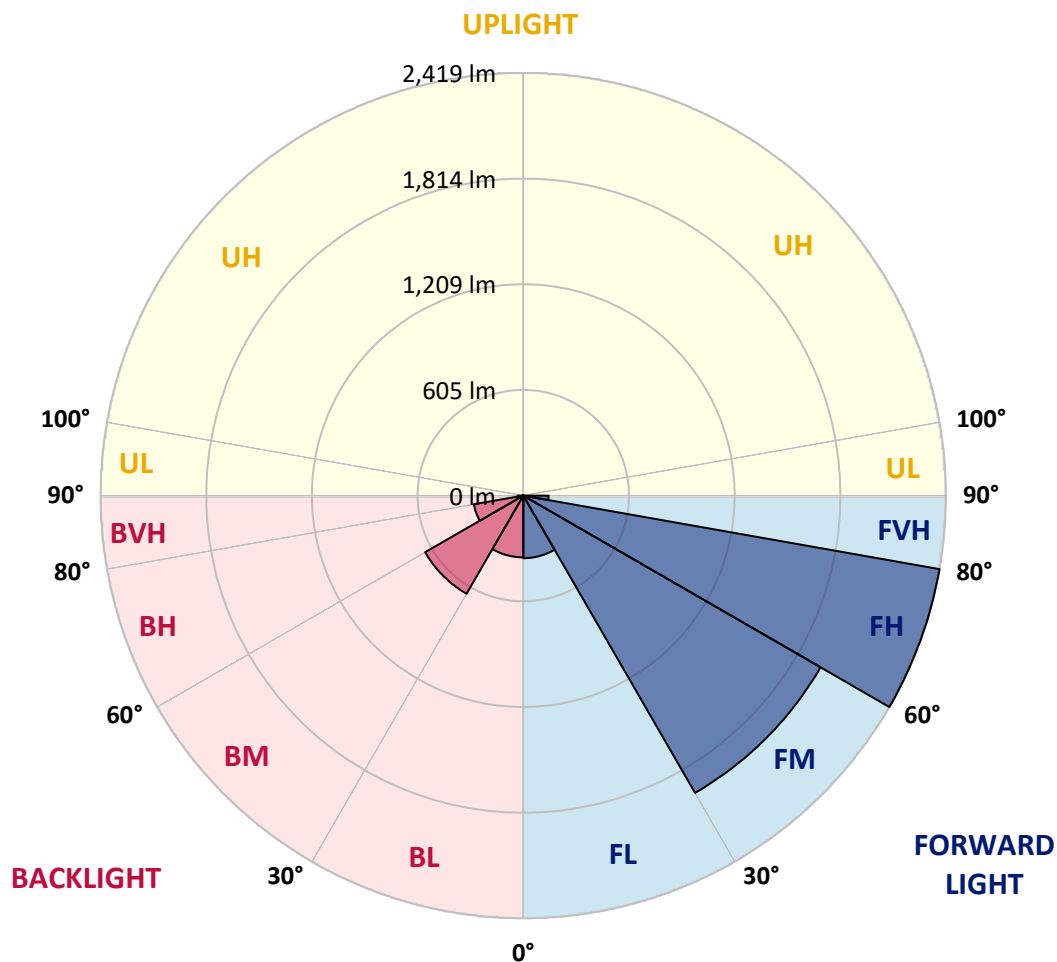
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.7	5.8			
FM	(30°-60°)	1963.8	31.6			
FH	(60°-80°)	2418.8	39.0			G2/5000
FVH	(80°-90°)	145.0	2.3			G2/225
BL	(0°-30°)	353.3	5.7	B1/500		
BM	(30°-60°)	648.6	10.5	B1/1000		
BH	(60°-80°)	286.9	4.6	B1/500		G1/500
BVH	(80°-90°)	32.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5
2.5°	875.7	880.1	882.6	891.1	893.2	896.0	903.2	912.8	925.2	936.2	945.8
5°	802.8	809.7	813.8	821.4	836.1	837.5	856.8	878.8	903.9	927.2	946.5
7.5°	733.7	741.2	744.7	758.4	778.0	781.1	809.3	844.0	886.0	921.4	951.0
10°	681.8	685.6	693.1	703.4	726.8	728.9	765.7	812.1	866.4	918.7	958.5
12.5°	653.6	655.6	657.4	668.4	691.4	694.5	733.0	785.6	850.9	920.7	970.9
15°	657.7	658.4	650.8	652.9	671.5	675.9	714.1	768.1	841.3	925.9	989.5
17.5°	692.4	690.0	671.5	661.8	674.9	677.0	710.3	761.2	836.8	935.5	1008.7
20°	747.1	743.7	711.7	690.4	697.9	699.6	722.7	766.3	841.3	951.3	1038.6
22.5°	815.2	813.8	765.3	739.5	739.2	739.2	751.2	784.9	854.7	973.0	1069.9
25°	910.4	903.2	839.9	806.6	797.3	796.6	795.2	815.5	871.9	996.0	1107.1
27.5°	1008.0	995.7	939.3	888.1	868.1	865.7	856.8	858.8	893.9	1022.1	1149.3
30°	1095.7	1087.8	1034.9	978.1	954.4	948.9	924.2	912.8	930.7	1069.2	1216.7
32.5°	1162.8	1157.9	1116.7	1065.1	1030.0	1029.0	992.9	983.6	988.1	1126.3	1293.7
35°	1217.1	1218.8	1197.8	1153.1	1112.9	1107.1	1083.0	1071.3	1058.2	1208.8	1390.7
37.5°	1291.3	1295.1	1293.7	1255.2	1206.1	1207.5	1202.0	1182.7	1148.0	1301.0	1498.3
40°	1373.2	1375.9	1375.6	1360.8	1335.0	1336.4	1334.3	1312.3	1260.4	1418.2	1618.0
42.5°	1486.3	1473.2	1439.2	1454.0	1469.1	1475.6	1489.7	1468.7	1397.6	1543.4	1730.4
45°	1612.8	1588.0	1511.0	1517.9	1574.0	1586.3	1664.0	1635.1	1546.4	1687.1	1862.7
47.5°	1692.6	1668.2	1603.2	1601.8	1676.1	1688.1	1825.6	1815.0	1681.9	1842.1	2024.3
50°	1763.7	1760.3	1687.1	1704.6	1777.1	1795.0	2001.6	1991.7	1817.0	2025.0	2200.4
52.5°	1869.3	1841.4	1783.0	1819.1	1915.0	1938.4	2176.3	2147.1	1941.1	2186.6	2371.2
55°	1916.7	1910.2	1906.8	1938.0	2069.7	2086.6	2346.1	2279.1	2047.0	2323.5	2501.2
57.5°	2043.6	2031.6	2065.6	2086.9	2251.9	2277.7	2523.5	2417.0	2139.9	2432.1	2564.5
60°	2207.9	2201.4	2232.7	2271.2	2455.5	2494.7	2725.7	2534.5	2214.5	2486.8	2529.7
62.5°	2453.4	2452.7	2446.9	2529.4	2743.9	2780.0	2957.8	2649.0	2226.2	2445.8	2350.3
65°	2805.5	2793.1	2742.2	2832.3	3102.9	3145.2	3199.5	2713.0	2155.7	2235.8	1979.0
67.5°	3173.7	3173.0	3131.7	3248.6	3618.2	3661.9	3501.7	2698.9	1960.0	1811.2	1405.5
70°	3479.0	3464.2	3516.8	3828.3	4276.6	4327.2	3766.1	2532.8	1561.2	1196.1	835.1
72.5°	3552.2	3552.9	3662.2	4275.2	4908.9	4916.8	3861.3	2052.9	1044.8	659.8	417.7
74°	3326.7	3332.5	3502.0	4297.6	5026.8	4991.1	3617.9	1613.5	706.5	430.8	301.2
75°	3036.5	2999.7	3244.9	4148.7	4904.4	4865.9	3332.9	1294.8	539.1	344.2	263.7
77.5°	1623.5	1660.9	2039.1	3096.0	3984.4	3940.0	2259.8	620.9	291.2	239.6	189.8
80°	577.9	637.4	896.0	1620.0	2554.5	2568.2	1078.5	284.7	204.9	176.7	134.1
82.5°	235.9	242.4	384.7	718.9	1297.2	1309.6	440.4	169.2	146.5	121.7	80.1
85°	92.1	94.9	170.2	323.2	553.5	589.6	152.3	89.4	90.1	69.8	40.9
87.5°	30.9	35.1	69.8	107.6	188.1	184.3	44.4	26.5	32.3	30.3	12.7
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°	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5
2.5°	950.6	957.2	961.6	966.4	970.9	972.3	971.3	974.4	974.7	975.0	975.4
5°	956.1	965.1	973.7	978.5	980.5	978.8	973.0	969.9	967.1	965.1	965.8
7.5°	963.7	976.4	984.3	986.4	980.9	973.0	958.5	947.2	940.0	935.2	934.8
10°	975.4	987.8	994.3	988.4	973.3	954.1	931.4	910.1	893.9	889.1	888.7
12.5°	990.2	1004.3	1003.9	986.7	960.3	925.9	889.1	864.3	842.3	831.3	835.8
15°	1009.4	1020.1	1010.1	979.2	937.2	890.1	844.7	811.0	786.3	774.6	775.3
17.5°	1031.8	1041.0	1014.6	965.8	904.9	844.4	791.8	759.8	740.2	731.6	730.9
20°	1059.6	1062.4	1014.6	942.4	863.3	791.1	740.9	718.6	707.6	703.1	704.5
22.5°	1089.5	1084.0	1009.1	909.4	808.6	735.4	701.7	691.7	686.2	685.6	686.2
25°	1123.2	1107.7	997.7	864.7	751.6	687.3	667.7	669.4	670.4	670.4	672.8
27.5°	1164.5	1133.5	978.8	808.3	684.9	642.6	637.1	649.1	654.6	655.6	657.4
30°	1218.8	1161.7	947.5	737.8	628.1	602.4	612.0	628.1	634.3	638.1	637.4
32.5°	1283.4	1192.7	905.2	667.3	582.4	574.2	585.8	602.4	609.2	611.3	608.5
35°	1359.4	1227.7	849.5	601.3	542.5	547.3	561.1	566.3	572.4	572.4	573.8
37.5°	1441.2	1255.9	781.5	540.8	511.6	529.1	539.1	534.3	531.5	528.1	529.8
40°	1524.4	1276.9	693.1	481.0	480.6	510.2	513.0	499.2	488.2	484.8	483.0
42.5°	1597.0	1290.0	613.4	434.6	451.4	491.6	493.7	471.7	454.2	443.9	440.4
45°	1682.6	1305.1	535.3	396.1	424.3	476.9	482.0	452.5	426.7	405.0	399.5
47.5°	1799.8	1339.5	473.8	366.2	404.7	467.6	474.8	436.6	402.6	374.4	369.9
50°	1932.2	1386.6	426.0	345.9	389.5	459.3	468.3	420.5	380.3	349.0	345.5
52.5°	2053.6	1412.0	384.7	327.6	374.8	444.2	459.7	408.8	358.2	323.5	320.4
55°	2119.9	1370.8	344.2	309.8	354.5	424.6	447.6	392.6	336.9	310.1	305.6
57.5°	2128.9	1285.5	307.4	290.5	333.1	400.5	425.3	373.0	323.2	300.8	297.0
60°	2059.8	1158.3	278.8	274.7	311.5	373.4	400.2	355.8	309.1	290.5	286.7
62.5°	1887.8	1020.1	258.9	260.3	289.5	344.8	381.6	339.3	295.7	279.2	275.7
65°	1592.2	842.0	239.6	245.5	269.9	322.5	364.8	325.6	282.3	270.6	267.5
67.5°	1106.0	607.9	223.8	230.0	251.3	299.8	345.2	310.8	267.1	260.9	256.1
70°	612.3	374.1	205.3	212.5	232.1	274.4	323.2	288.5	245.1	242.4	235.5
72.5°	321.8	238.3	184.3	192.2	205.9	241.7	289.5	264.0	223.5	211.8	202.8
74°	251.3	195.3	170.2	178.4	187.7	222.4	269.5	246.5	208.0	194.3	187.4
75°	219.0	174.0	158.2	168.8	177.1	209.4	254.1	234.1	199.4	186.3	180.2
77.5°	154.7	130.3	129.3	142.0	146.5	183.6	229.0	213.2	177.7	164.0	158.2
80°	108.6	97.6	102.5	110.4	116.6	162.3	212.5	184.3	145.8	129.6	127.6
82.5°	70.8	63.9	73.2	80.5	82.5	119.6	171.6	139.9	106.2	86.3	80.1
85°	32.7	32.0	41.9	40.9	40.6	58.4	101.8	81.8	61.2	45.7	43.0
87.5°	8.3	7.9	10.3	8.6	10.3	8.9	9.3	2.4	0.3	0.0	0.0
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)