

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: P451782

Luminaire Tested: **GALN-SA2C-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451782
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-SA2C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11210 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108
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

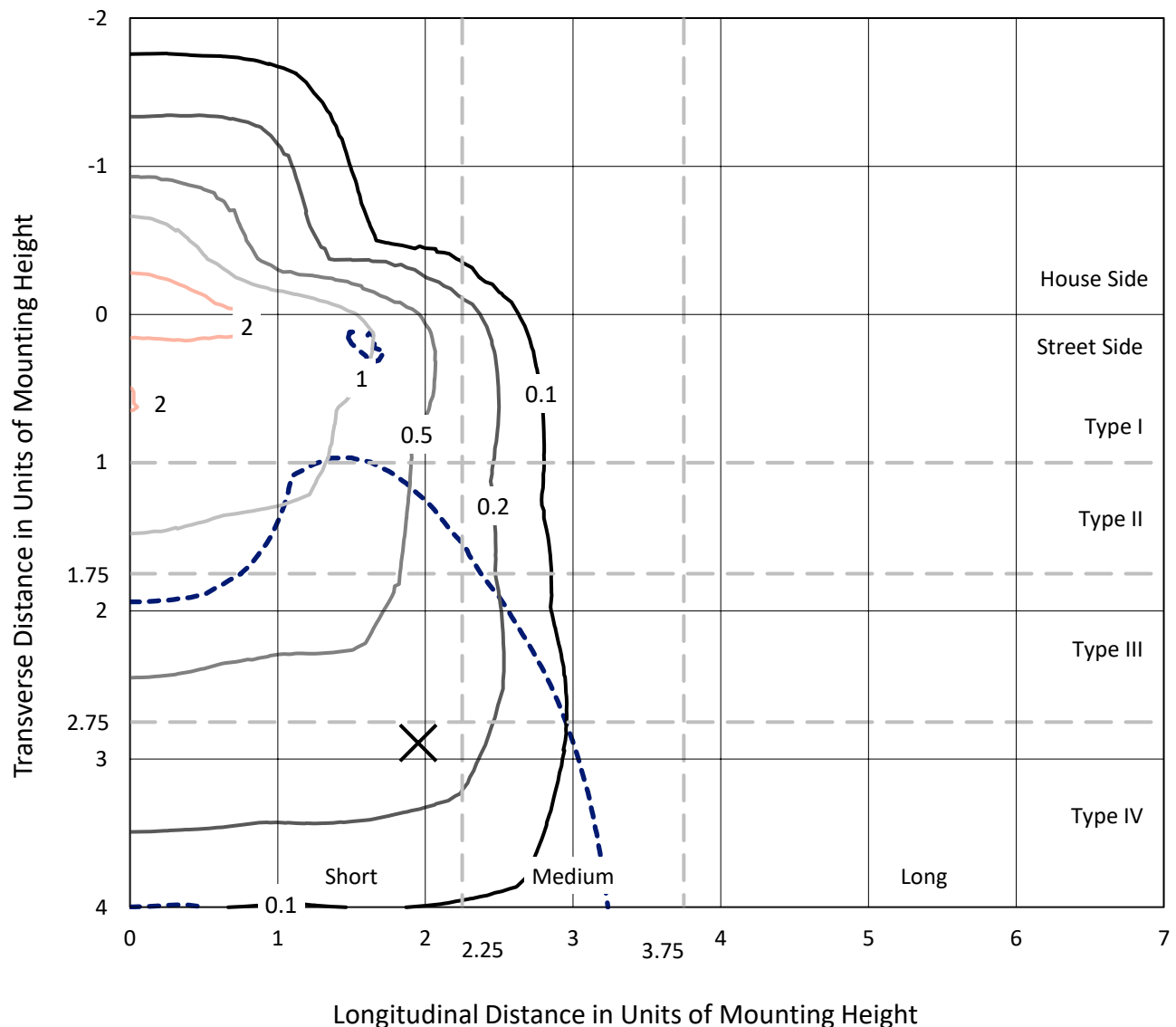


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

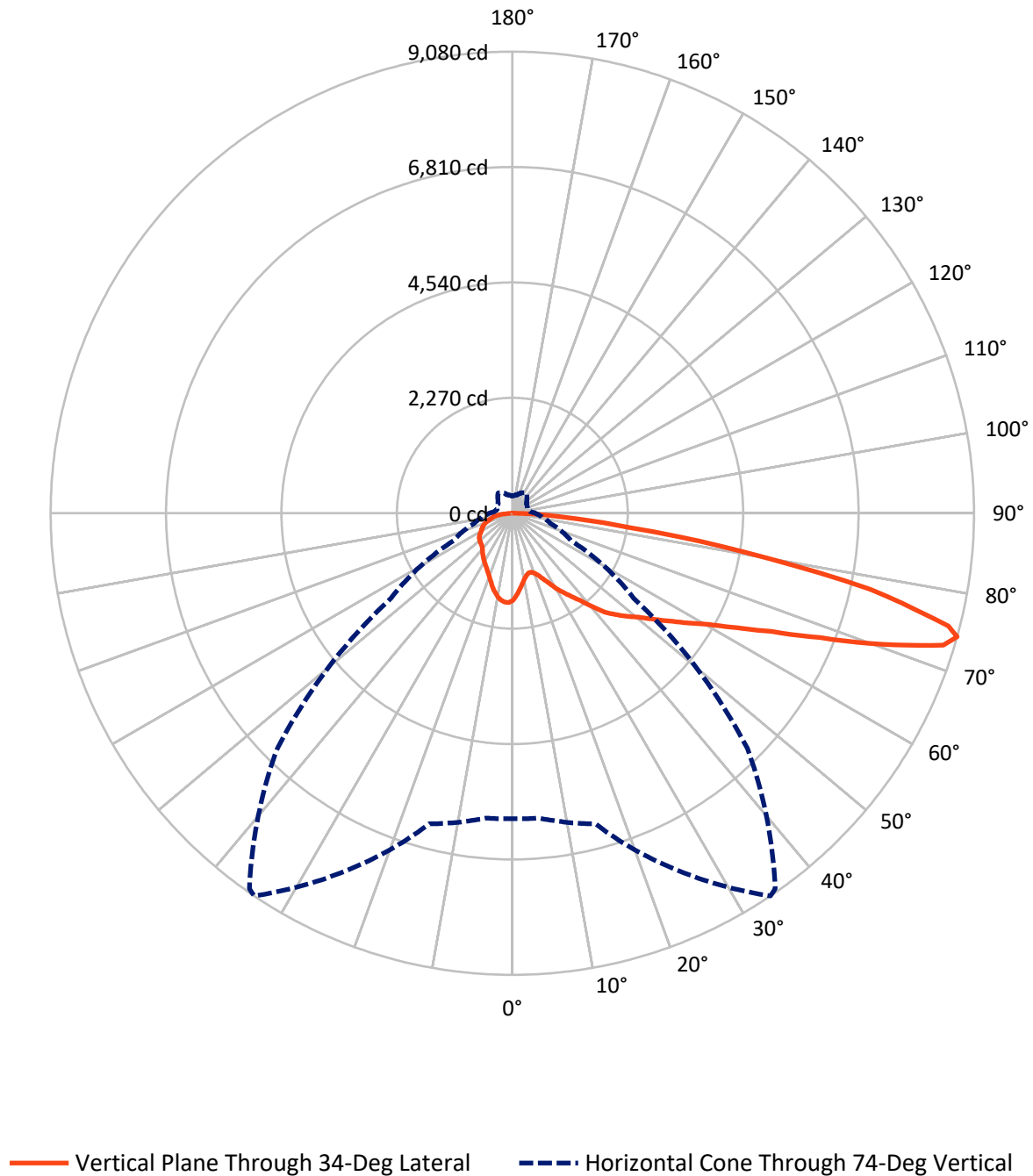


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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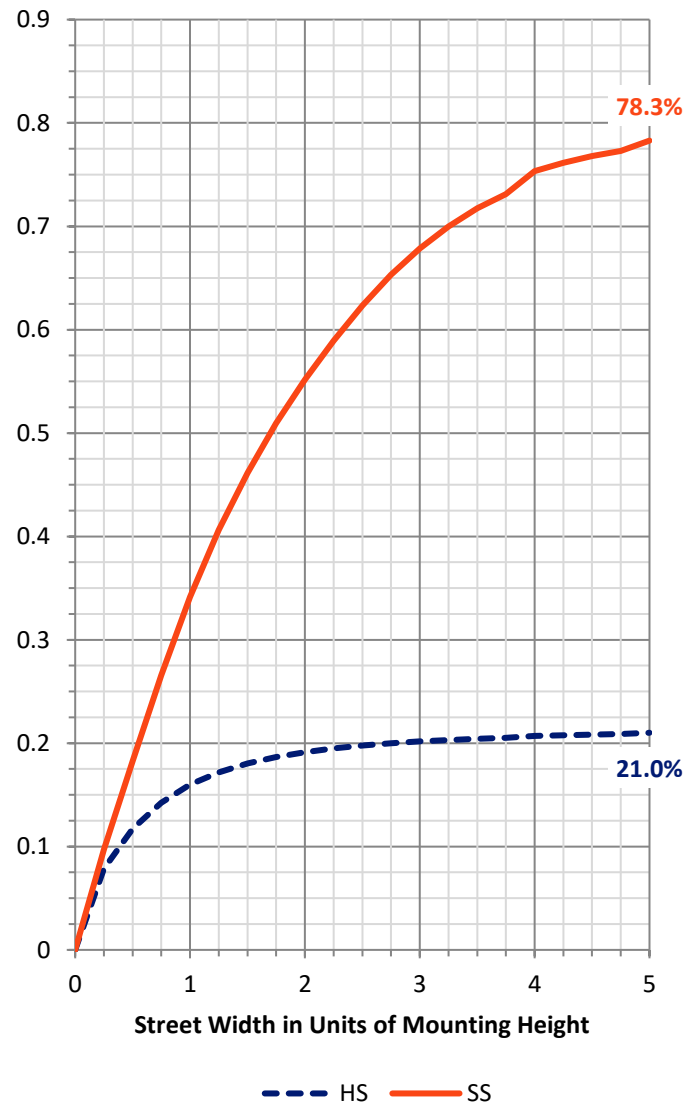
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2385.6	0.0	2385.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8824.4	0.0	8824.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	11210.0	0.0	11210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.4
10°-20°	426.1	3.8
20°-30°	702.5	6.3
30°-40°	1052.3	9.4
40°-50°	1529.8	13.6
50°-60°	2136.8	19.1
60°-70°	2675.1	23.9
70°-80°	2212.1	19.7
80°-90°	319.6	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°	11210.0	100.0
0°-180°	11210.0	100.0

Coefficient of Utilization



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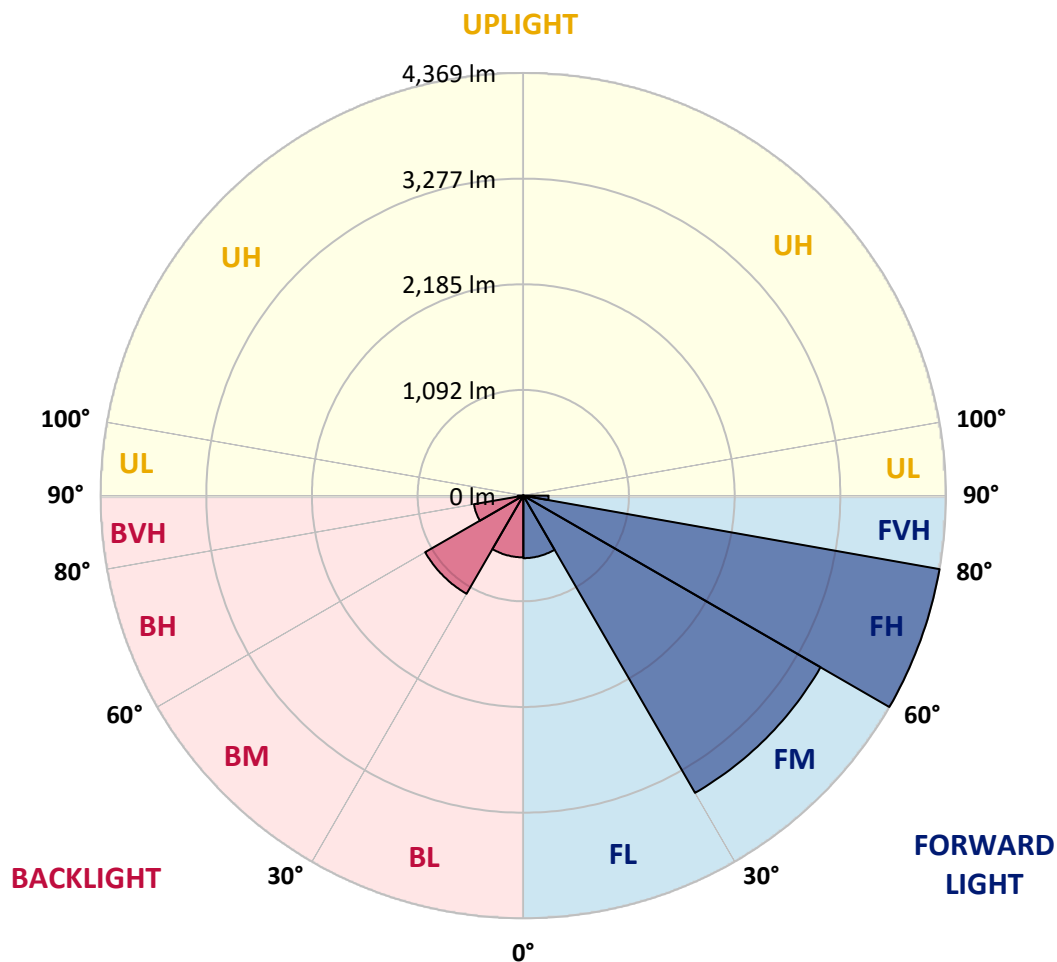
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	646.2	5.8			
FM	(30°-60°)	3547.3	31.6			
FH	(60°-80°)	4369.1	39.0			G2/5000
FVH	(80°-90°)	261.9	2.3			G3/500
BL	(0°-30°)	638.1	5.7	B2/1000		
BM	(30°-60°)	1171.6	10.5	B2/2500		
BH	(60°-80°)	518.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	57.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5
2.5°	1581.8	1589.8	1594.2	1609.7	1613.4	1618.4	1631.4	1648.8	1671.2	1691.1	1708.4
5°	1450.1	1462.5	1470.0	1483.6	1510.3	1512.8	1547.6	1587.3	1632.7	1674.9	1709.7
7.5°	1325.3	1338.9	1345.1	1370.0	1405.4	1411.0	1461.9	1524.6	1600.4	1664.3	1717.8
10°	1231.5	1238.3	1252.0	1270.6	1312.8	1316.6	1383.0	1466.9	1565.0	1659.4	1731.4
12.5°	1180.6	1184.3	1187.4	1207.3	1248.9	1254.5	1324.0	1419.0	1537.0	1663.1	1753.8
15°	1188.0	1189.3	1175.6	1179.3	1212.9	1220.9	1289.9	1387.4	1519.6	1672.4	1787.3
17.5°	1250.7	1246.4	1212.9	1195.5	1219.1	1222.8	1283.0	1374.9	1511.6	1689.8	1822.1
20°	1349.5	1343.3	1285.5	1247.0	1260.7	1263.8	1305.4	1384.3	1519.6	1718.4	1876.1
22.5°	1472.5	1470.0	1382.4	1335.8	1335.2	1335.2	1356.9	1417.8	1543.9	1757.5	1932.6
25°	1644.5	1631.4	1517.2	1456.9	1440.2	1438.9	1436.4	1473.1	1574.9	1799.1	1999.7
27.5°	1820.8	1798.5	1696.6	1604.1	1568.1	1563.7	1547.6	1551.3	1614.7	1846.3	2076.1
30°	1979.2	1964.9	1869.3	1766.8	1724.0	1714.0	1669.3	1648.8	1681.1	1931.4	2197.8
32.5°	2100.3	2091.6	2017.1	1923.9	1860.6	1858.7	1793.5	1776.8	1784.8	2034.5	2336.9
35°	2198.4	2201.5	2163.7	2082.9	2010.3	1999.7	1956.2	1935.1	1911.5	2183.5	2512.0
37.5°	2332.6	2339.4	2336.9	2267.4	2178.6	2181.0	2171.1	2136.3	2073.6	2350.0	2706.4
40°	2480.4	2485.3	2484.7	2458.0	2411.4	2413.9	2410.2	2370.5	2276.7	2561.7	2922.5
42.5°	2684.7	2661.1	2599.6	2626.3	2653.6	2665.4	2690.9	2653.0	2524.5	2787.8	3125.6
45°	2913.2	2868.5	2729.4	2741.8	2843.1	2865.4	3005.8	2953.6	2793.4	3047.4	3364.7
47.5°	3057.3	3013.2	2895.8	2893.4	3027.5	3049.2	3297.6	3278.4	3038.1	3327.5	3656.6
50°	3185.9	3179.6	3047.4	3079.0	3210.1	3242.4	3615.6	3597.6	3282.1	3657.8	3974.6
52.5°	3376.5	3326.2	3220.6	3285.8	3459.1	3501.3	3931.1	3878.3	3506.3	3949.7	4283.2
55°	3462.2	3450.4	3444.2	3500.7	3738.6	3769.0	4237.9	4116.8	3697.6	4196.9	4518.0
57.5°	3691.4	3669.6	3731.1	3769.6	4067.7	4114.3	4558.3	4365.8	3865.3	4393.1	4632.2
60°	3988.2	3976.4	4032.9	4102.5	4435.4	4506.2	4923.5	4578.2	4000.0	4491.9	4569.5
62.5°	4431.6	4430.4	4419.8	4568.9	4956.4	5021.6	5342.7	4785.0	4021.1	4418.0	4245.3
65°	5067.6	5045.2	4953.3	5116.0	5604.8	5681.1	5779.3	4900.5	3893.8	4038.5	3574.6
67.5°	5732.7	5731.4	5656.9	5868.1	6535.7	6614.5	6325.1	4875.0	3540.5	3271.6	2538.8
70°	6284.2	6257.4	6352.5	6915.1	7724.9	7816.2	6802.7	4575.1	2820.1	2160.5	1508.5
72.5°	6416.4	6417.7	6615.2	7722.4	8867.0	8881.3	6974.7	3708.1	1887.3	1191.7	754.5
74°	6009.0	6019.6	6325.8	7762.8	9080.0	9015.4	6535.0	2914.5	1276.2	778.1	544.0
75°	5484.9	5418.4	5861.2	7493.9	8858.9	8789.4	6020.2	2338.8	973.8	621.6	476.3
77.5°	2932.5	3000.2	3683.3	5592.3	7197.1	7116.9	4082.0	1121.6	526.0	432.9	342.8
80°	1043.9	1151.4	1618.4	2926.3	4614.2	4639.1	1948.2	514.2	370.1	319.2	242.2
82.5°	426.0	437.8	694.9	1298.6	2343.1	2365.5	795.5	305.5	264.6	219.8	144.7
85°	166.4	171.4	307.4	583.8	999.9	1065.1	275.1	161.5	162.7	126.1	73.9
87.5°	55.9	63.3	126.1	194.4	339.7	332.9	80.1	47.8	58.4	54.7	23.0
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°	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5
2.5°	1717.1	1728.9	1737.0	1745.7	1753.8	1756.3	1754.4	1760.0	1760.6	1761.2	1761.8
5°	1727.1	1743.2	1758.7	1767.4	1771.2	1768.1	1757.5	1751.9	1746.9	1743.2	1744.5
7.5°	1740.7	1763.7	1778.0	1781.7	1771.8	1757.5	1731.4	1710.9	1697.9	1689.2	1688.6
10°	1761.8	1784.2	1796.0	1785.4	1758.1	1723.3	1682.4	1643.9	1614.7	1606.0	1605.3
12.5°	1788.6	1814.0	1813.4	1782.3	1734.5	1672.4	1606.0	1561.3	1521.5	1501.6	1509.7
15°	1823.3	1842.6	1824.6	1768.7	1692.9	1607.8	1525.9	1465.0	1420.3	1399.2	1400.4
17.5°	1863.7	1880.5	1832.6	1744.5	1634.5	1525.2	1430.2	1372.5	1337.1	1321.5	1320.3
20°	1914.0	1919.0	1832.6	1702.2	1559.4	1429.0	1338.3	1297.9	1278.1	1270.0	1272.5
22.5°	1968.0	1958.1	1822.7	1642.6	1460.7	1328.4	1267.5	1249.5	1239.6	1238.3	1239.6
25°	2028.9	2000.9	1802.2	1561.9	1357.6	1241.4	1206.0	1209.1	1211.0	1211.0	1215.3
27.5°	2103.4	2047.5	1768.1	1460.0	1237.1	1160.7	1150.8	1172.5	1182.4	1184.3	1187.4
30°	2201.5	2098.4	1711.5	1332.7	1134.6	1088.0	1105.4	1134.6	1145.8	1152.6	1151.4
32.5°	2318.3	2154.3	1635.2	1205.4	1052.0	1037.1	1058.2	1088.0	1100.5	1104.2	1099.2
35°	2455.5	2217.7	1534.6	1086.2	980.0	988.7	1013.5	1022.8	1034.0	1034.0	1036.5
37.5°	2603.3	2268.6	1411.6	976.9	924.1	955.8	973.8	965.1	960.1	953.9	957.0
40°	2753.6	2306.5	1252.0	868.8	868.2	921.6	926.6	901.7	881.9	875.6	872.5
42.5°	2884.7	2330.1	1107.9	785.0	815.4	888.1	891.8	852.0	820.4	801.7	795.5
45°	3039.3	2357.4	966.9	715.4	766.3	861.4	870.7	817.3	770.7	731.6	721.6
47.5°	3251.1	2419.5	855.8	661.4	730.9	844.6	857.6	788.7	727.2	676.3	668.2
50°	3490.2	2504.6	769.5	624.8	703.6	829.7	845.8	759.5	686.9	630.3	624.1
52.5°	3709.4	2550.6	694.9	591.8	676.9	802.4	830.3	738.4	647.1	584.4	578.8
55°	3829.2	2476.0	621.6	559.5	640.3	767.0	808.6	709.2	608.6	560.2	552.1
57.5°	3845.4	2322.0	555.2	524.8	601.8	723.5	768.2	673.8	583.8	543.4	536.6
60°	3720.6	2092.2	503.7	496.2	562.6	674.4	722.9	642.8	558.3	524.8	517.9
62.5°	3410.0	1842.6	467.6	470.1	522.9	622.9	689.3	613.0	534.1	504.3	498.1
65°	2876.0	1520.9	432.9	443.4	487.5	582.5	658.9	588.1	509.9	488.7	483.2
67.5°	1997.8	1098.0	404.3	415.5	454.0	541.5	623.5	561.4	482.5	471.4	462.7
70°	1106.0	675.7	370.8	383.8	419.2	495.6	583.8	521.0	442.8	437.8	425.4
72.5°	581.3	430.4	332.9	347.2	372.0	436.6	522.9	476.9	403.7	382.6	366.4
74°	454.0	352.7	307.4	322.3	339.1	401.8	486.9	445.3	375.7	350.9	338.5
75°	395.6	314.2	285.7	304.9	319.8	378.2	458.9	422.9	360.2	336.6	325.4
77.5°	279.5	235.4	233.5	256.5	264.6	331.6	413.6	385.0	321.1	296.2	285.7
80°	196.2	176.4	185.1	199.3	210.5	293.1	383.8	332.9	263.3	234.1	230.4
82.5°	127.9	115.5	132.3	145.3	149.0	216.1	309.9	252.8	191.9	155.9	144.7
85°	59.0	57.8	75.8	73.9	73.3	105.6	183.8	147.8	110.5	82.6	77.6
87.5°	14.9	14.3	18.6	15.5	18.6	16.1	16.8	4.3	0.6	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)