

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: P200690

Luminaire Tested: **GWC-AF-02-LED-E1-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-T4FT-8030-1200
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 11187 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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



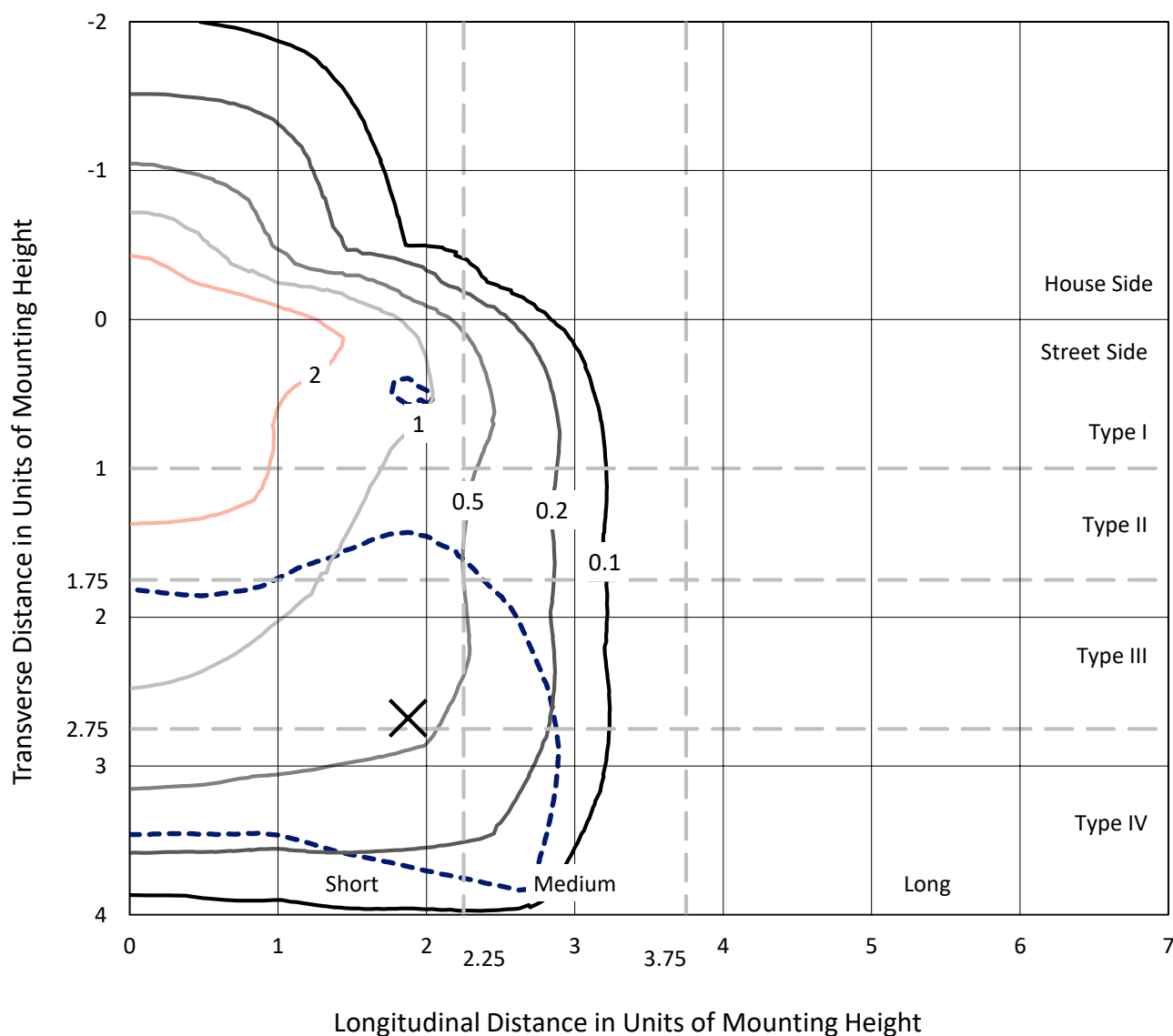
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

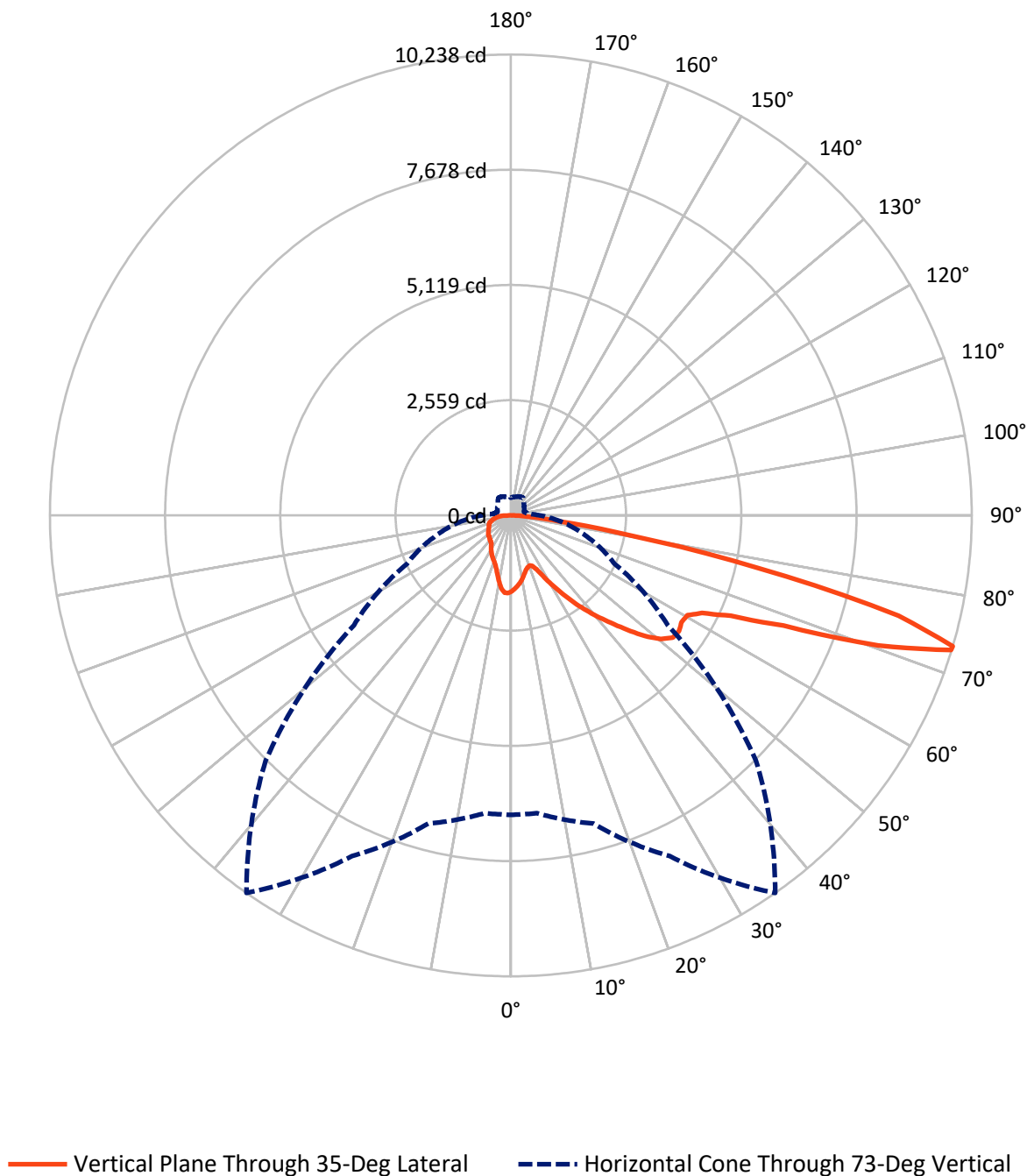


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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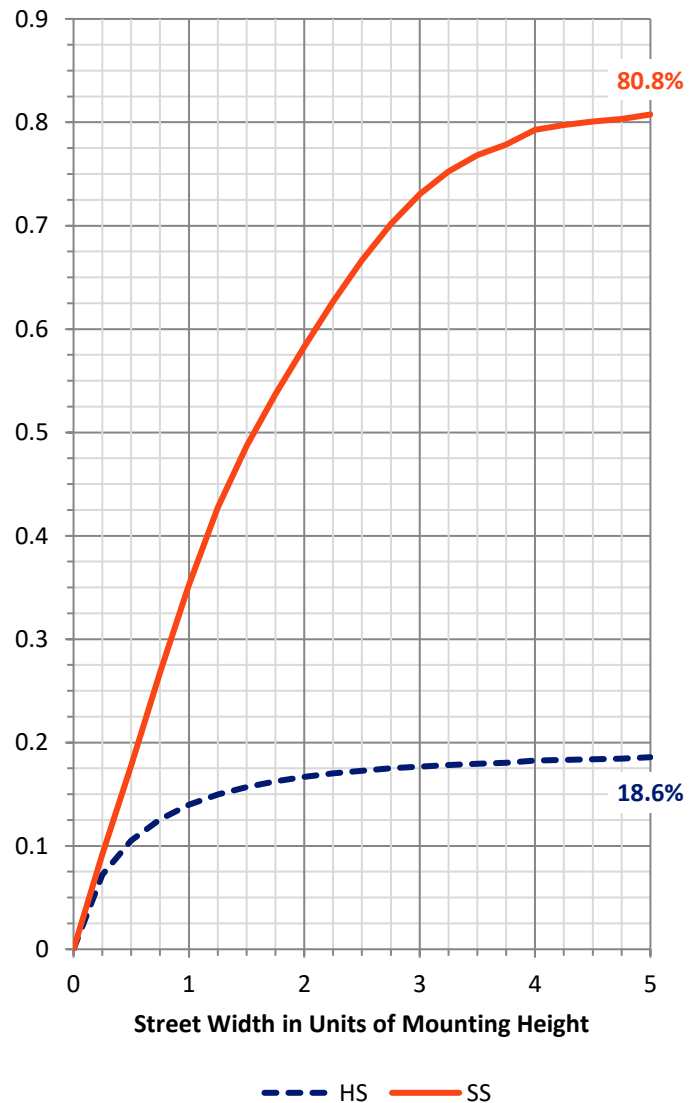
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2133.7	0.0	2133.7
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	9053.3	0.0	9053.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	11187.0	0.0	11187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	1.4
10°-20°	381.5	3.4
20°-30°	616.8	5.5
30°-40°	1034.2	9.2
40°-50°	1594.2	14.3
50°-60°	2138.8	19.1
60°-70°	2849.3	25.5
70°-80°	2173.1	19.4
80°-90°	246.3	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°	11187.0	100.0
0°-180°	11187.0	100.0

Coefficient of Utilization



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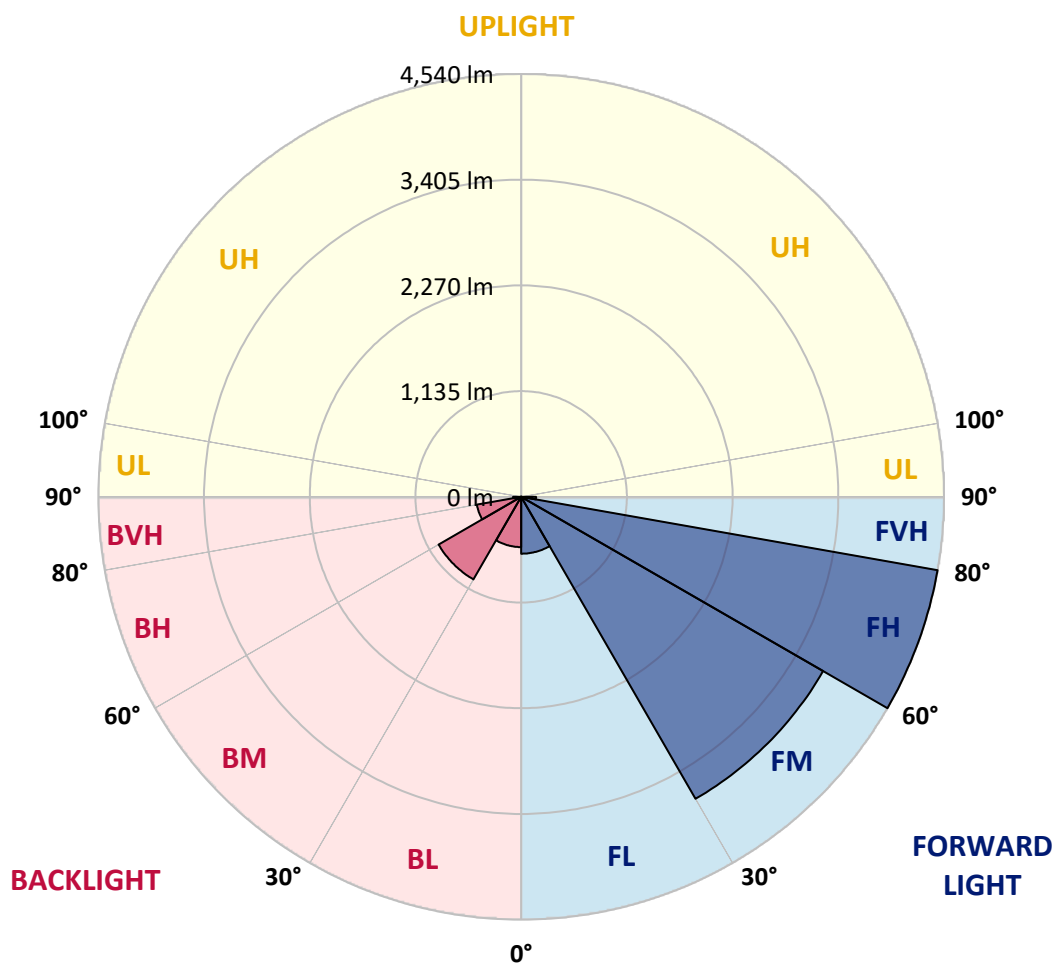
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	611.2	5.5			
FM	(30°-60°)	3743.2	33.5			
FH	(60°-80°)	4539.7	40.6			G2/5000
FVH	(80°-90°)	159.2	1.4			G2/225
BL	(0°-30°)	539.9	4.8	B2/1000		
BM	(30°-60°)	1023.9	9.2	B2/2500		
BH	(60°-80°)	482.7	4.3	B1/500		G1/500
BVH	(80°-90°)	87.1	0.8			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°	55°	65°	75°	85°	90°
0°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1621.9	1625.1	1621.3	1626.1	1634.2	1642.8	1648.7	1657.3	1667.0	1680.4	1683.6
5°	1545.6	1550.4	1550.4	1559.0	1574.6	1588.5	1601.4	1615.4	1635.8	1658.9	1668.1
7.5°	1461.8	1464.4	1469.3	1482.2	1504.7	1524.6	1542.9	1565.4	1593.4	1624.0	1640.1
10°	1360.8	1364.5	1372.0	1390.3	1420.9	1448.3	1474.7	1505.8	1541.3	1579.4	1599.8
12.5°	1289.3	1288.2	1291.5	1304.9	1331.8	1365.1	1403.2	1443.0	1486.5	1531.1	1555.8
15°	1265.1	1259.2	1246.9	1243.7	1258.2	1291.5	1335.5	1384.4	1436.5	1490.2	1520.9
17.5°	1280.2	1270.0	1236.1	1211.4	1209.3	1234.5	1281.3	1336.1	1396.2	1461.8	1499.9
20°	1374.7	1350.6	1267.3	1209.8	1189.9	1202.3	1243.1	1301.1	1372.0	1459.1	1508.0
22.5°	1600.9	1565.4	1388.7	1281.8	1214.6	1199.6	1230.2	1292.0	1374.7	1492.4	1554.7
25°	1930.2	1879.7	1597.1	1461.2	1322.6	1242.6	1249.6	1313.0	1412.9	1569.7	1645.0
27.5°	2190.2	2157.5	1869.5	1714.3	1519.2	1358.6	1312.4	1365.6	1490.8	1696.5	1773.3
30°	2344.9	2325.1	2160.7	2001.1	1770.1	1543.4	1432.8	1464.4	1612.7	1872.2	1935.6
32.5°	2524.4	2512.6	2432.0	2285.3	2040.9	1786.2	1623.5	1612.2	1776.0	2083.3	2112.3
35°	2710.2	2706.5	2659.2	2553.9	2331.5	2106.4	1876.5	1800.2	1953.8	2302.5	2284.2
37.5°	2883.2	2876.8	2849.4	2788.1	2635.6	2450.2	2134.4	1993.1	2145.6	2512.0	2430.9
40°	3201.8	3151.3	3057.3	3011.1	2942.9	2739.8	2339.0	2173.0	2344.4	2711.9	2557.7
42.5°	3590.2	3508.0	3332.9	3269.5	3259.8	2968.1	2478.7	2347.6	2544.8	2910.1	2682.3
45°	3895.9	3818.5	3667.6	3587.5	3623.0	3174.9	2618.9	2534.0	2751.1	3118.0	2810.7
47.5°	4222.0	4100.6	3900.7	3924.9	4002.2	3370.5	2761.8	2734.4	2977.2	3350.6	2970.3
50°	4233.8	4140.9	4053.3	4197.8	4318.1	3550.5	2940.7	2944.5	3253.9	3643.4	3182.5
52.5°	3988.3	3968.4	4107.5	4334.8	4508.3	3692.8	3144.3	3161.5	3607.9	3979.7	3415.6
55°	3902.3	3879.8	4040.4	4287.0	4534.1	3810.5	3365.1	3396.3	4036.1	4334.2	3642.9
57.5°	4111.8	4061.9	4072.6	4264.4	4471.2	3939.4	3605.8	3668.6	4501.3	4644.2	3789.0
60°	4697.4	4590.5	4387.4	4382.6	4505.1	4132.8	3884.1	3960.9	4984.8	4792.5	3732.0
62.5°	5518.8	5411.9	5031.6	4783.9	4765.6	4451.9	4225.7	4246.1	5264.2	4591.6	3384.5
65°	6407.9	6312.3	5887.3	5537.6	5368.9	4980.5	4622.7	4373.5	5172.8	4038.8	2776.3
67.5°	7487.2	7384.6	7019.2	6696.4	6534.1	5833.6	4901.5	4251.5	4593.2	3128.7	1995.8
70°	8241.9	8137.2	7993.2	8254.8	8651.8	7064.4	4937.5	3755.7	3430.7	2079.6	1201.2
72.5°	7257.2	7208.3	7471.0	8572.9	10226.4	7811.1	4463.2	2734.4	1992.5	1104.0	695.2
73°	6649.1	6638.4	7086.4	8349.9	10237.7	7696.1	4255.3	2541.6	1708.9	976.7	635.5
75°	3002.5	3089.0	4071.0	6377.8	8894.7	6341.8	2995.0	1458.0	965.4	674.7	479.7
77.5°	721.5	751.6	1273.7	3028.8	5617.1	3779.3	1357.0	720.9	617.3	476.5	350.3
80°	307.3	317.5	490.5	1119.0	2644.7	1521.9	625.3	483.0	427.1	332.5	245.5
82.5°	170.8	181.6	278.3	507.7	1067.4	518.9	381.4	336.3	281.0	200.4	159.6
85°	96.7	102.6	162.8	283.6	452.3	208.4	228.3	223.5	158.5	103.1	78.4
87.5°	45.7	49.4	78.4	131.6	177.3	81.7	116.0	127.9	99.4	62.9	40.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1687.4	1697.1	1708.3	1714.3	1719.6	1726.1	1732.5	1732.5	1733.6	1734.1
5°	1675.6	1695.4	1713.2	1720.7	1722.3	1722.3	1720.7	1712.1	1704.6	1707.8
7.5°	1650.9	1679.9	1694.9	1692.2	1671.8	1648.2	1628.3	1604.1	1591.8	1589.6
10°	1615.4	1648.7	1651.4	1624.5	1574.0	1523.5	1481.6	1440.8	1421.5	1416.6
12.5°	1576.2	1606.8	1589.6	1534.3	1453.2	1379.6	1326.4	1285.0	1266.8	1261.9
15°	1544.5	1565.4	1521.9	1434.9	1332.8	1254.9	1210.9	1180.3	1167.4	1163.6
17.5°	1527.8	1532.1	1452.6	1335.0	1226.5	1161.5	1134.1	1119.6	1114.7	1112.0
20°	1535.9	1505.8	1386.6	1242.0	1139.4	1093.8	1087.3	1083.6	1082.5	1080.9
22.5°	1576.2	1497.8	1325.8	1153.9	1063.1	1043.3	1048.6	1048.1	1047.0	1046.0
25°	1648.2	1504.7	1266.8	1070.1	999.2	994.9	1004.6	1004.6	1000.3	1000.3
27.5°	1743.3	1519.2	1200.7	990.6	941.2	941.7	949.3	947.1	942.3	939.1
30°	1859.3	1528.4	1123.3	919.2	886.9	884.8	886.9	877.8	863.3	862.2
32.5°	1978.0	1517.1	1033.6	855.8	829.5	824.6	823.0	810.1	793.5	788.6
35°	2085.5	1475.7	942.3	805.3	774.7	763.9	771.4	767.1	752.1	748.3
37.5°	2163.9	1398.9	860.1	760.7	735.4	732.8	737.6	739.2	721.5	717.7
40°	2216.5	1294.7	789.7	723.1	727.9	717.7	701.6	690.3	684.9	683.3
42.5°	2259.0	1186.2	730.6	705.4	729.5	700.0	665.1	646.8	656.5	660.8
45°	2307.9	1080.3	681.2	683.3	721.5	679.6	639.8	622.1	625.9	626.9
47.5°	2375.0	951.4	628.0	647.9	694.6	665.6	624.2	599.0	581.3	573.2
50°	2468.0	798.8	572.7	608.1	668.3	655.4	600.1	573.2	540.4	532.9
52.5°	2532.4	656.5	527.0	574.8	644.7	635.0	580.7	545.8	511.4	505.0
55°	2497.5	545.3	487.3	537.8	613.5	609.7	564.6	517.9	491.0	485.6
57.5°	2322.9	474.9	456.6	502.8	575.4	588.3	543.1	494.2	474.9	471.1
60°	1989.8	430.8	437.3	479.2	544.2	566.8	521.6	481.3	468.5	465.8
62.5°	1544.0	401.3	422.8	462.0	520.0	551.7	509.8	479.7	474.9	471.7
65°	1106.1	377.7	407.2	444.8	498.0	537.8	505.5	477.6	478.7	476.0
67.5°	751.6	356.7	388.4	425.5	476.5	525.4	499.6	470.1	483.5	480.3
70°	525.9	336.3	366.4	400.8	449.6	508.2	488.9	458.8	457.7	444.8
72.5°	410.4	309.4	336.3	366.4	415.3	484.0	467.4	433.5	415.8	402.4
73°	391.6	303.0	328.8	358.9	407.7	478.1	461.5	426.5	406.7	394.3
75°	323.9	275.1	298.7	325.6	375.5	450.2	432.5	394.9	369.6	362.1
77.5°	254.6	235.3	257.9	282.0	330.9	409.4	389.5	353.5	339.5	333.1
80°	188.6	195.0	214.9	236.4	286.9	365.8	348.1	312.1	374.4	358.9
82.5°	132.7	147.7	166.0	185.3	240.7	323.4	301.9	264.8	274.0	227.8
85°	78.4	96.7	113.9	130.5	173.5	268.1	249.3	211.1	173.0	164.9
87.5°	45.7	53.7	58.6	75.7	119.3	202.0	175.7	156.3	89.7	60.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)