

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: P302776

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302776
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
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14676.2 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 166
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

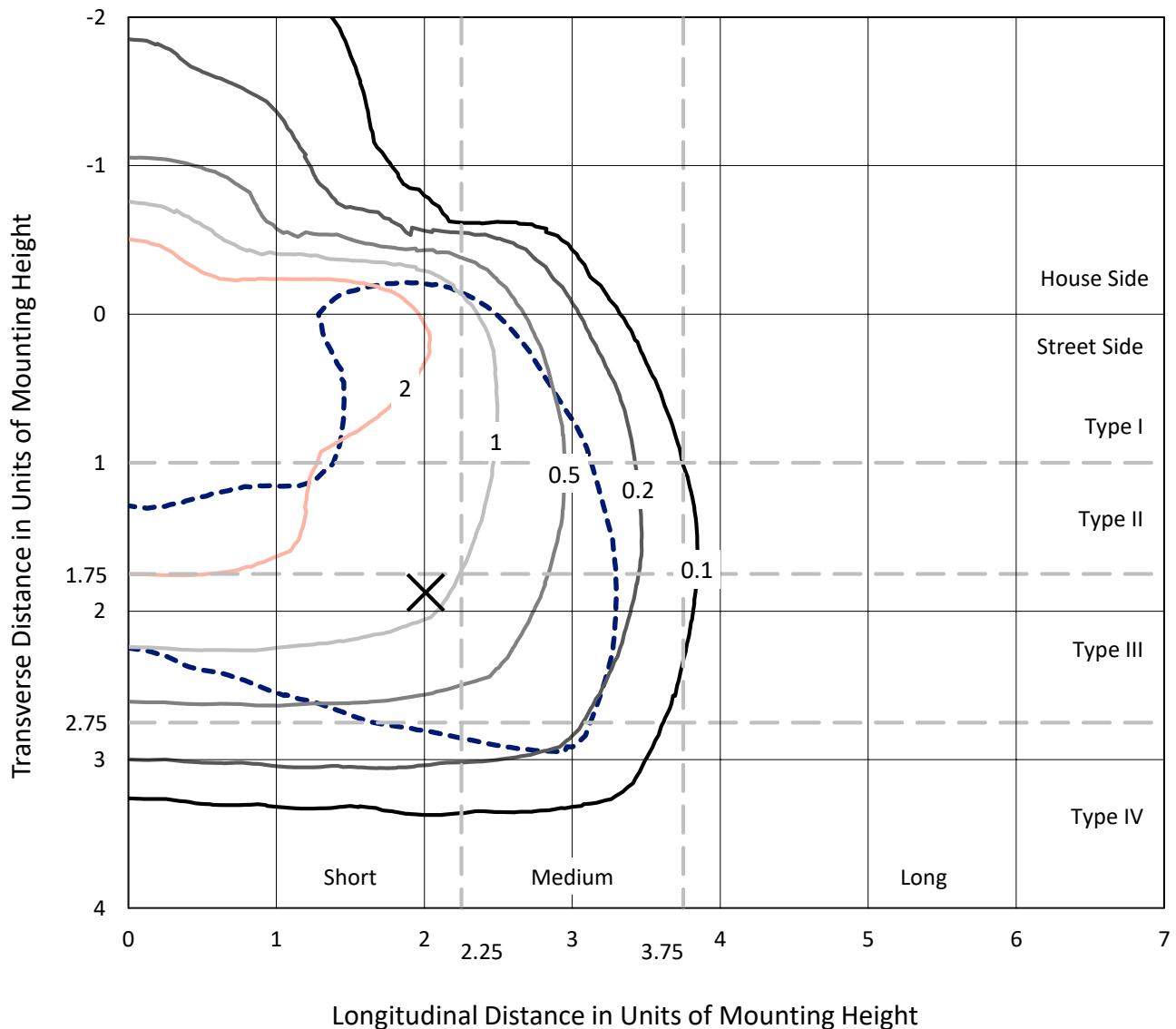


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

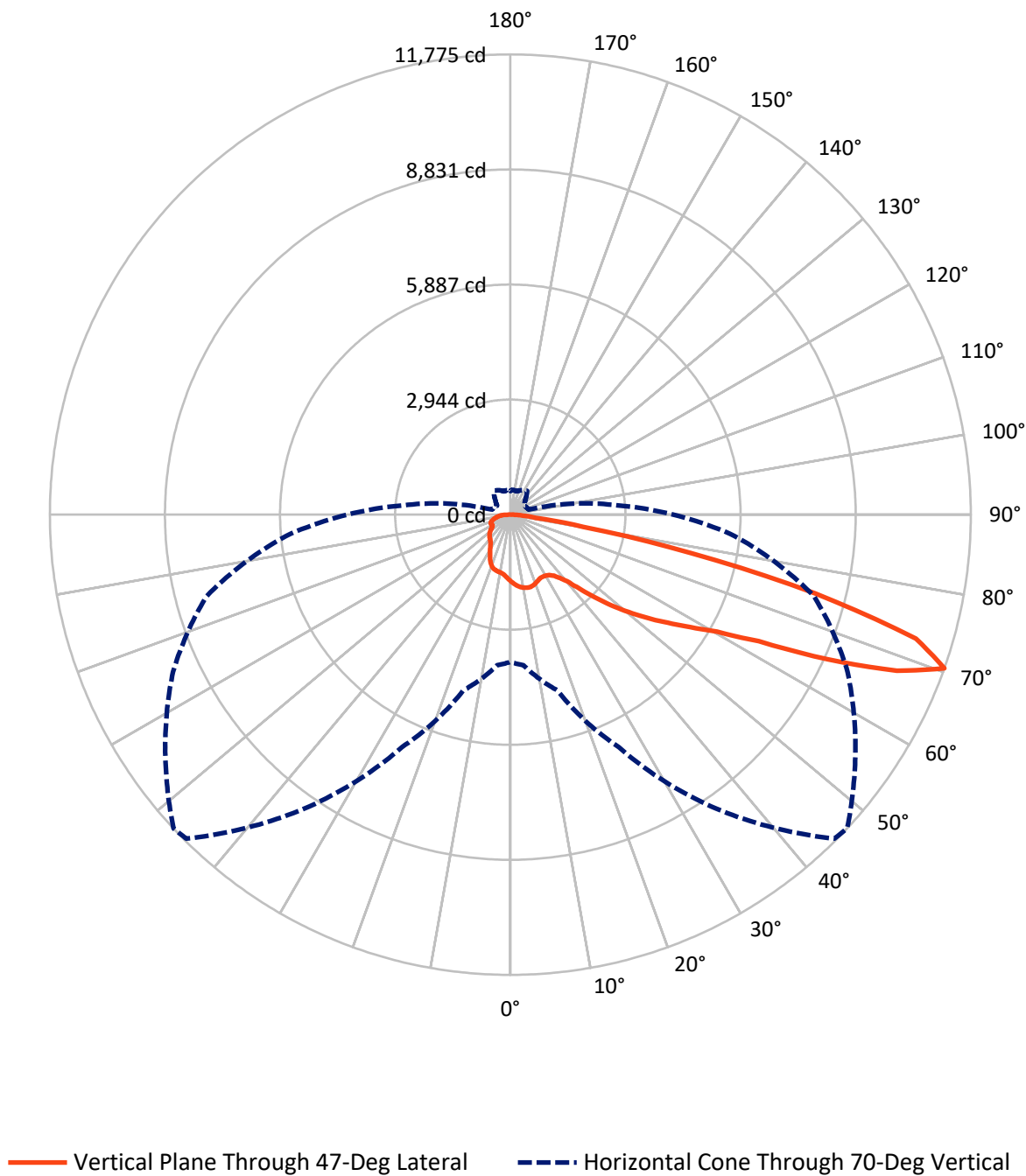


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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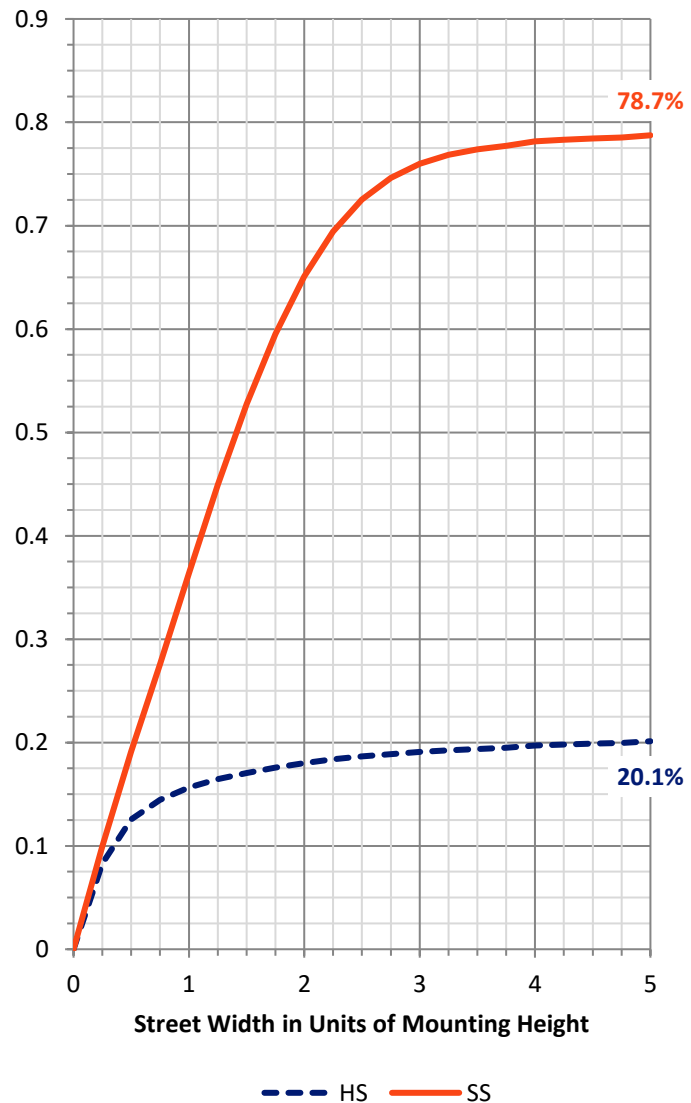
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3061.7	0.0	3061.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	11614.4	0.0	11614.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	14676.2	0.0	14676.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	1.1
10°-20°	478.7	3.3
20°-30°	706.9	4.8
30°-40°	1027.5	7.0
40°-50°	1849.0	12.6
50°-60°	3203.3	21.8
60°-70°	4572.0	31.2
70°-80°	2347.0	16.0
80°-90°	328.6	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°	14676.2	100.0
0°-180°	14676.2	100.0

Coefficient of Utilization



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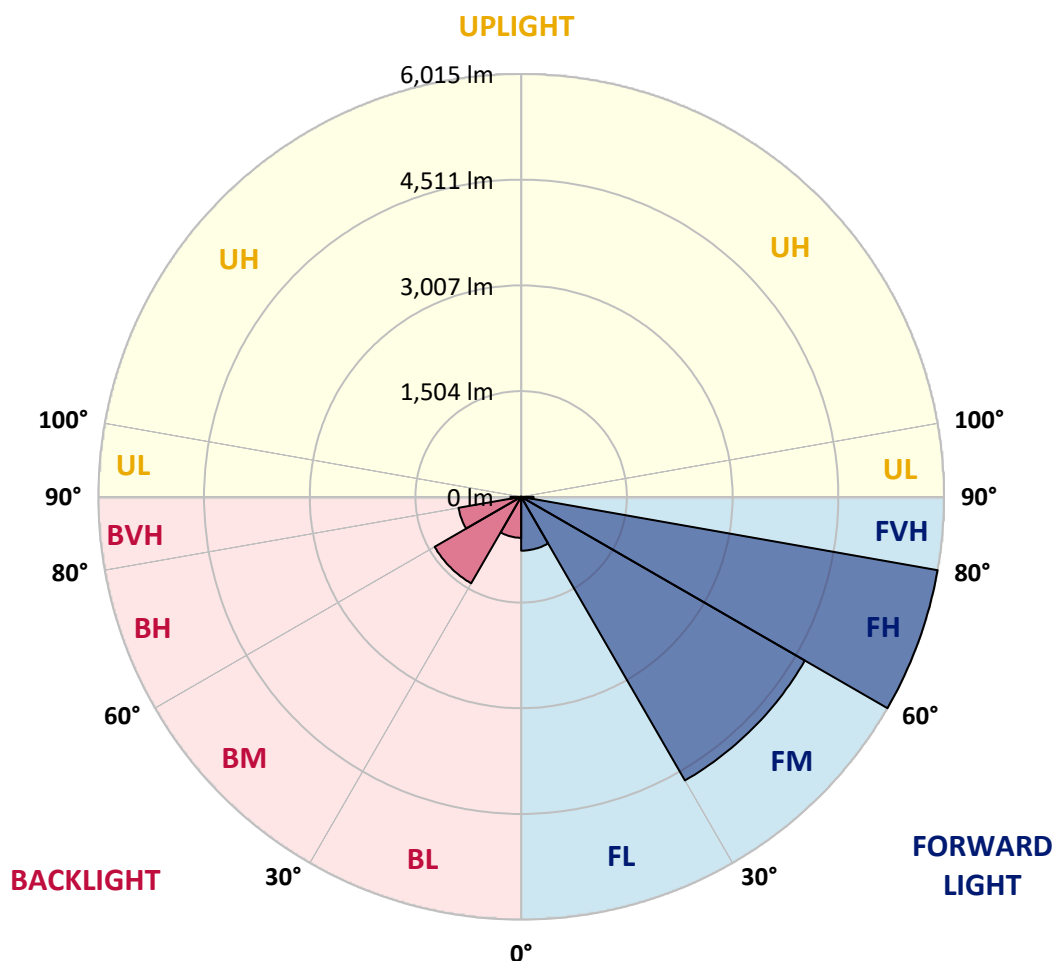
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.8	5.2			
FM	(30°-60°)	4658.6	31.7			
FH	(60°-80°)	6014.7	41.0			G3/7500
FVH	(80°-90°)	175.3	1.2			G2/225
BL	(0°-30°)	583.0	4.0	B2/1000		
BM	(30°-60°)	1421.2	9.7	B2/2500		
BH	(60°-80°)	904.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	153.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1802.9	1799.4	1797.9	1795.1	1791.5	1773.5	1770.0	1757.2	1739.4	1720.6	1701.4
5°	1921.5	1920.8	1912.7	1898.5	1875.7	1836.4	1827.1	1795.8	1753.6	1712.8	1672.3
7.5°	2025.6	2019.2	2004.3	1975.6	1935.7	1882.1	1869.3	1825.7	1767.8	1712.1	1657.1
10°	2102.0	2098.4	2065.7	2026.3	1974.1	1914.9	1899.9	1851.3	1787.8	1717.1	1648.6
12.5°	2145.6	2138.5	2100.5	2053.6	1991.4	1933.6	1918.4	1869.3	1797.9	1717.1	1636.5
15°	2142.7	2137.8	2099.8	2048.4	1985.8	1935.0	1921.5	1872.2	1795.8	1710.0	1620.8
17.5°	2085.6	2087.7	2055.7	2005.0	1953.5	1914.9	1902.8	1857.2	1781.3	1695.7	1602.3
20°	1985.8	1995.7	1974.1	1929.3	1900.6	1874.3	1866.5	1827.8	1759.3	1675.1	1582.2
22.5°	1885.7	1894.9	1886.4	1848.5	1844.2	1828.5	1824.3	1796.5	1740.1	1662.3	1570.1
25°	1812.2	1820.7	1819.3	1786.3	1799.4	1798.7	1795.1	1781.3	1735.8	1662.3	1572.2
27.5°	1792.3	1795.1	1792.3	1762.1	1779.9	1794.4	1791.5	1789.2	1748.6	1682.9	1599.5
30°	1860.8	1856.5	1834.2	1773.5	1790.1	1810.0	1807.2	1808.6	1787.0	1737.2	1660.2
32.5°	2134.2	2114.8	2044.8	1874.3	1830.7	1841.3	1842.8	1866.5	1870.0	1820.7	1754.3
35°	2543.3	2521.9	2431.1	2144.2	1957.1	1920.1	1920.1	1955.6	1977.0	1940.7	1900.6
37.5°	2976.7	2953.0	2904.6	2518.4	2222.7	2056.4	2052.9	2077.8	2108.4	2117.1	2127.1
40°	3469.3	3444.4	3457.9	2938.1	2593.3	2292.6	2241.9	2224.1	2306.8	2361.9	2442.0
42.5°	4008.5	3996.9	4001.9	3405.7	3015.2	2646.2	2574.1	2481.8	2581.9	2679.6	2847.5
45°	4507.4	4517.4	4512.4	3906.3	3485.2	3077.3	3000.9	2822.4	2920.3	3088.0	3361.6
47.5°	4944.5	4903.0	4967.2	4453.1	4011.4	3560.1	3465.7	3226.7	3325.8	3532.8	3995.5
50°	5474.9	5469.2	5375.1	5183.0	4647.3	4044.8	3921.2	3644.3	3798.4	4086.3	4794.6
52.5°	6032.7	5929.1	5842.7	5750.5	5322.2	4541.8	4390.3	4060.4	4354.0	4715.9	5768.5
55°	6146.7	6100.5	6207.4	6362.5	5972.7	5058.1	4881.6	4582.4	4979.6	5435.8	6891.6
57.5°	6391.0	6390.3	6611.8	6888.0	6642.3	5605.6	5427.8	5212.9	5682.7	6260.3	8083.9
60°	6556.0	6602.3	7013.7	7549.9	7299.9	6238.3	6074.7	5940.4	6482.5	7182.1	9194.9
62.5°	6642.3	6705.2	7266.5	7818.3	8229.5	7291.4	7128.0	6934.5	7540.6	8193.2	9844.6
65°	6283.3	6406.6	7227.1	8050.4	9043.6	8998.5	8925.0	8585.2	8863.6	8992.1	9609.8
67.5°	5289.3	5415.7	6371.1	7833.9	9624.8	10645.2	10660.8	10080.3	9677.7	9060.6	8079.6
70°	3768.5	3867.6	4658.3	6568.1	9182.1	11721.0	11774.6	10769.2	9515.5	8035.3	5645.0
72.5°	1789.2	1849.9	2598.3	4274.8	7286.4	10739.3	10842.9	9889.7	8091.0	5949.0	3079.4
75°	657.6	676.1	878.1	1818.6	4226.2	7919.8	8041.9	7089.3	5363.5	2961.8	1173.1
77.5°	394.1	406.2	492.8	767.6	1662.3	4526.9	4707.3	3855.6	2344.1	1102.4	576.9
80°	275.5	284.1	353.3	477.6	785.4	1725.1	1885.7	1573.6	933.8	697.6	419.7
82.5°	186.4	190.7	248.5	322.7	521.9	616.1	664.7	699.8	629.8	519.1	266.3
85°	122.1	126.4	168.6	212.7	332.0	318.5	325.6	411.9	459.8	352.6	147.7
87.5°	70.0	72.8	101.5	113.6	162.9	134.9	136.4	217.0	294.3	237.8	89.9
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°	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9	1702.9
2.5°	1696.5	1687.2	1666.6	1653.5	1641.4	1638.6	1633.6	1632.9	1632.2	1632.2	1630.1
5°	1658.5	1642.9	1610.8	1592.8	1577.9	1576.5	1575.8	1579.3	1580.7	1582.2	1580.0
7.5°	1634.3	1613.0	1572.9	1547.3	1529.5	1525.0	1532.4	1548.7	1559.4	1563.7	1561.5
10°	1619.4	1592.8	1546.6	1518.6	1503.7	1501.5	1510.8	1530.2	1552.3	1560.8	1560.1
12.5°	1602.3	1572.2	1522.9	1493.7	1485.2	1489.4	1501.5	1519.3	1542.3	1555.8	1556.5
15°	1585.0	1550.1	1499.4	1473.8	1470.2	1475.9	1487.3	1500.8	1518.6	1532.4	1533.8
17.5°	1564.4	1527.9	1477.3	1450.8	1447.9	1450.8	1451.5	1458.6	1470.2	1483.0	1486.6
20°	1542.3	1505.1	1452.2	1425.9	1413.1	1401.7	1388.7	1390.1	1393.6	1406.7	1409.5
22.5°	1526.4	1489.4	1433.0	1396.5	1362.3	1327.9	1302.3	1298.8	1300.2	1310.9	1314.4
25°	1527.9	1488.7	1428.0	1365.2	1290.2	1235.2	1200.8	1195.2	1194.4	1202.3	1207.5
27.5°	1555.8	1516.5	1446.5	1332.9	1211.8	1130.2	1093.9	1089.6	1083.9	1086.1	1091.8
30°	1618.0	1581.4	1491.6	1300.2	1126.6	1027.5	989.6	985.3	977.5	973.9	978.2
32.5°	1719.2	1689.3	1557.3	1268.7	1041.7	939.5	901.1	891.9	886.9	882.6	886.2
35°	1887.8	1875.0	1645.0	1234.5	966.8	871.7	836.8	822.6	815.5	823.3	829.0
37.5°	2152.0	2159.1	1760.0	1180.9	908.9	826.9	797.5	781.1	770.4	776.8	783.3
40°	2526.2	2531.2	1887.1	1105.3	858.9	800.3	769.0	754.1	738.9	727.5	726.8
42.5°	3017.3	2966.8	2012.1	1023.2	801.0	784.0	749.1	730.4	707.6	676.1	669.7
45°	3599.9	3422.3	2106.9	928.9	736.1	764.0	726.8	701.2	665.4	631.2	627.7
47.5°	4271.3	3911.3	2153.4	831.2	675.4	734.6	699.8	659.0	613.9	596.9	594.7
50°	5090.8	4491.8	2175.5	736.1	622.7	696.2	660.4	612.5	574.8	571.3	569.1
52.5°	6024.1	5190.1	2182.8	658.3	579.1	646.2	628.4	581.9	551.8	554.9	554.9
55°	7000.9	5911.3	2085.6	601.8	539.0	594.7	606.8	569.8	544.7	556.3	560.6
57.5°	7897.5	6550.3	1779.9	558.4	501.3	555.6	599.0	581.2	564.1	610.4	613.2
60°	8585.9	6927.9	1329.4	519.1	473.3	541.9	619.9	624.8	629.1	739.6	754.8
62.5°	8730.1	6802.4	913.9	488.5	460.5	553.5	657.6	658.3	653.3	730.4	739.6
65°	8068.2	6007.5	664.7	471.2	449.8	574.1	689.8	674.6	641.9	700.5	683.2
67.5°	6407.4	4526.2	553.5	458.4	434.2	572.7	724.0	689.8	635.5	686.3	658.3
70°	4159.1	2736.8	492.8	447.7	415.5	545.4	743.9	688.4	616.8	638.4	605.4
72.5°	2029.2	1223.8	452.0	432.1	396.3	507.7	743.2	675.4	597.6	596.2	578.4
75°	793.9	560.6	414.7	408.3	363.5	464.8	723.3	656.9	574.8	551.8	545.4
77.5°	464.8	399.8	367.8	373.5	324.2	421.9	694.1	624.8	543.3	516.2	509.1
80°	338.4	299.3	313.5	322.7	277.0	379.2	654.7	585.5	508.4	521.9	512.0
82.5°	217.0	192.8	254.2	263.5	230.7	335.5	611.8	544.0	459.1	416.9	406.9
85°	110.7	122.1	189.2	200.6	177.9	275.5	559.9	489.2	403.4	346.9	352.6
87.5°	62.1	83.5	120.7	134.9	125.7	212.0	454.1	403.4	329.1	267.7	235.7
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)