

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: INVUE

Report Number: P140759

Luminaire Tested: **ECM-E03-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P140759
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E03-LED-E1-RW-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8103.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

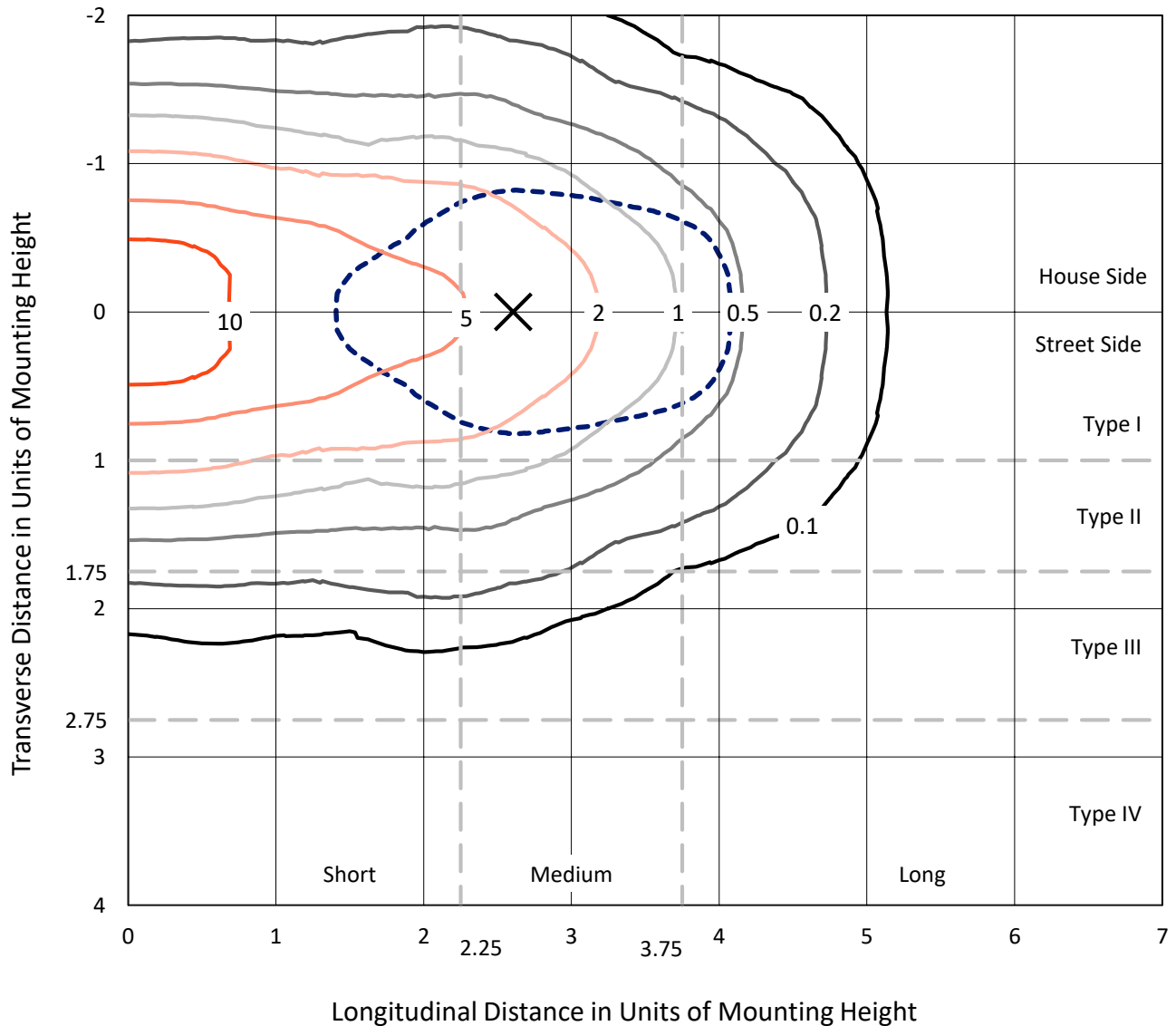
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

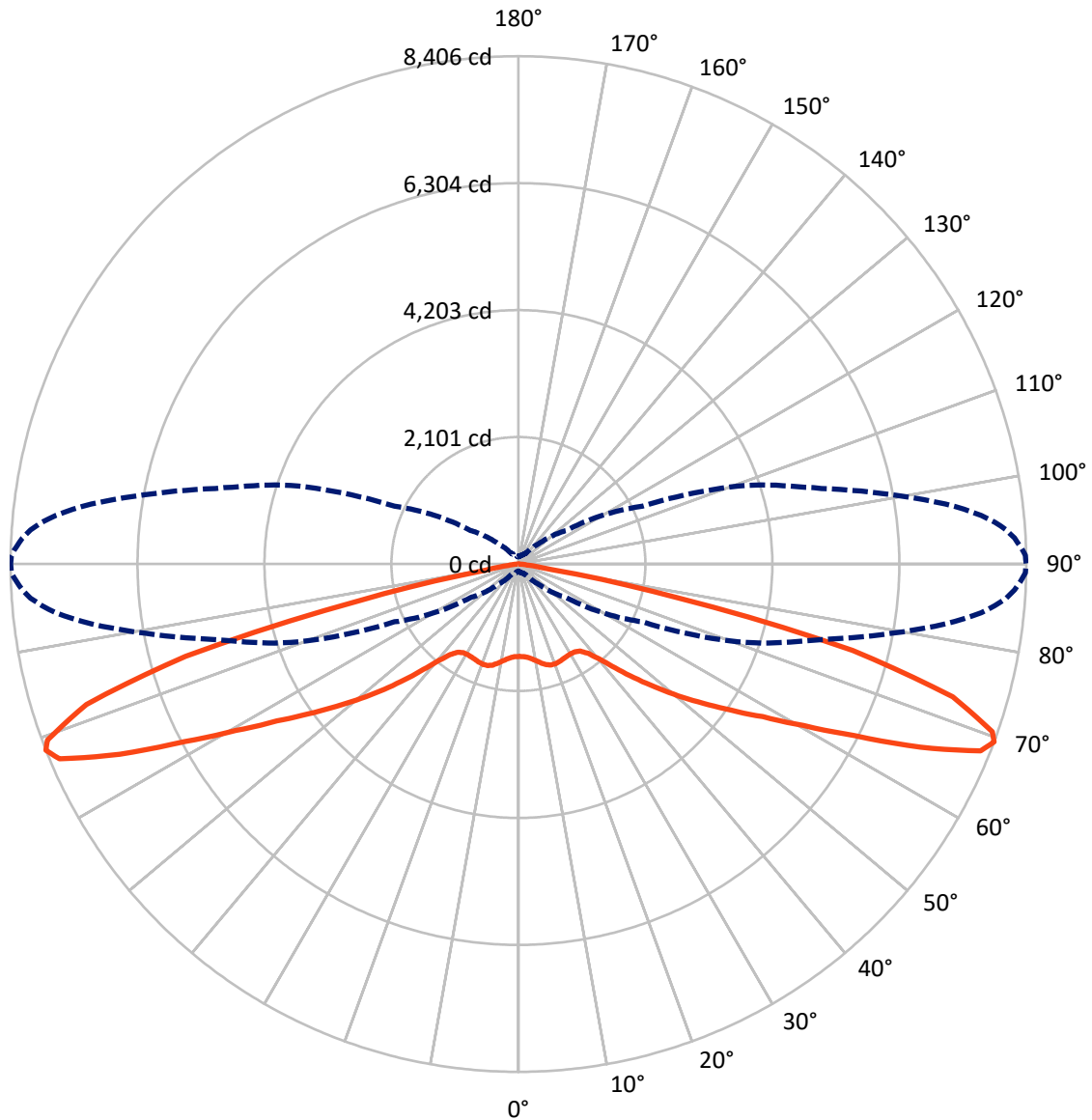
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4051.6	0.0	4051.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4051.6	0.0	4051.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	8103.2	0.0	8103.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	1.8
10°-20°	470.9	5.8
20°-30°	761.5	9.4
30°-40°	951.2	11.7
40°-50°	1189.7	14.7
50°-60°	1466.1	18.1
60°-70°	1815.0	22.4
70°-80°	1186.3	14.6
80°-90°	112.7	1.4
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°	8103.2	100.0
0°-180°	8103.2	100.0



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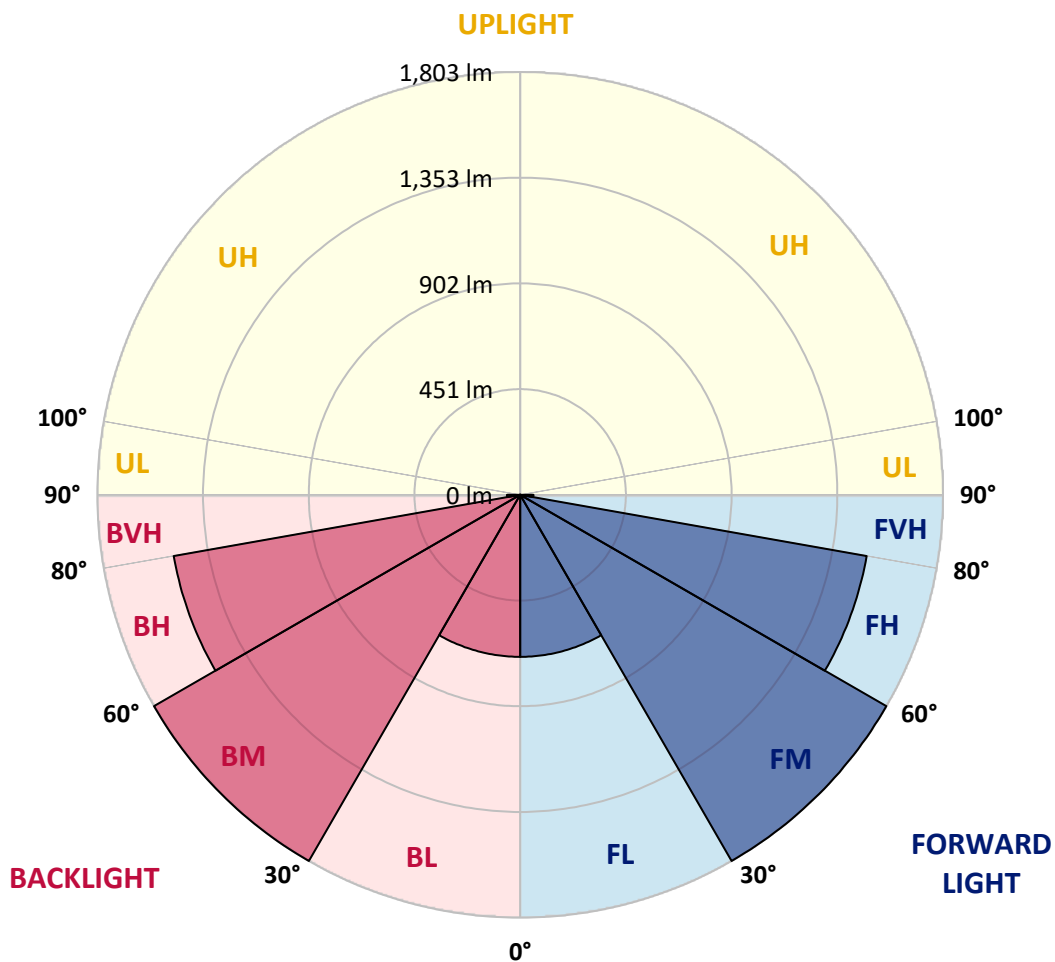
CATALOG NUMBER: ECM-E03-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	691.1	8.5			
FM	(30°-60°)	1803.5	22.3			
FH	(60°-80°)	1500.6	18.5			G1/1800
FVH	(80°-90°)	56.4	0.7			G1/100
BL	(0°-30°)	691.1	8.5	B2/1000		
BM	(30°-60°)	1803.5	22.3	B2/2500		
BH	(60°-80°)	1500.6	18.5	B3/2500		G3/2500
BVH	(80°-90°)	56.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9
2.5°	1539.9	1540.8	1538.1	1539.0	1539.9	1539.0	1537.6	1537.6	1537.2	1536.7	1536.2
5°	1550.0	1550.4	1549.0	1551.4	1551.8	1553.1	1553.2	1553.6	1553.3	1553.1	1552.8
7.5°	1564.1	1565.9	1564.6	1567.8	1571.0	1575.5	1577.8	1583.3	1583.2	1583.1	1583.0
10°	1577.4	1579.2	1579.2	1586.5	1594.2	1602.9	1612.1	1620.8	1621.3	1621.9	1622.4
12.5°	1587.4	1588.8	1591.0	1604.3	1621.6	1636.2	1652.2	1666.0	1666.5	1667.0	1667.6
15°	1583.3	1586.5	1597.0	1618.0	1648.6	1672.8	1692.4	1708.8	1710.0	1711.0	1712.2
17.5°	1569.1	1574.2	1589.2	1624.8	1671.9	1710.7	1734.0	1738.6	1739.3	1740.0	1740.7
20°	1538.6	1545.9	1569.6	1620.3	1689.7	1742.2	1765.5	1757.3	1756.6	1755.8	1755.1
22.5°	1487.4	1497.0	1526.6	1598.8	1691.0	1765.0	1787.9	1765.0	1762.5	1759.9	1757.4
25°	1418.9	1426.6	1460.4	1545.8	1670.0	1769.2	1802.0	1770.1	1766.0	1761.9	1757.7
27.5°	1335.8	1342.2	1384.2	1475.1	1618.0	1748.2	1811.2	1778.8	1773.4	1768.2	1762.8
30°	1242.2	1247.6	1293.8	1390.6	1545.0	1702.0	1810.2	1798.4	1792.1	1785.8	1779.5
32.5°	1148.9	1151.2	1192.4	1298.8	1463.6	1634.0	1795.2	1828.5	1822.4	1816.3	1810.2
35°	1046.7	1054.0	1097.8	1213.8	1371.8	1559.1	1775.0	1870.6	1867.1	1863.6	1860.1
37.5°	964.5	966.8	1013.9	1134.4	1297.4	1491.0	1749.6	1924.4	1926.9	1929.4	1931.8
40°	882.3	882.3	928.8	1054.0	1223.0	1429.8	1728.1	1990.6	2003.2	2015.7	2028.2
42.5°	792.3	798.7	844.4	969.1	1150.8	1377.8	1717.1	2070.1	2093.7	2117.2	2140.8
45°	708.3	712.4	759.0	880.9	1060.9	1318.4	1713.9	2158.7	2194.5	2230.3	2266.1
47.5°	625.7	631.6	675.8	787.8	962.7	1239.4	1709.8	2259.6	2305.4	2351.2	2396.9
50°	549.0	552.6	601.9	703.8	865.8	1137.1	1682.8	2372.4	2428.3	2484.2	2540.1
52.5°	467.6	475.0	515.6	620.7	768.2	1027.1	1612.0	2495.2	2562.8	2630.4	2698.0
55°	382.6	380.8	429.8	528.4	682.8	921.6	1481.4	2601.6	2683.2	2764.8	2846.4
57.5°	280.4	286.3	331.1	431.1	583.7	833.0	1327.6	2657.0	2758.7	2860.4	2962.2
60°	201.0	209.2	248.0	327.0	485.0	746.2	1170.5	2618.5	2753.4	2888.2	3023.0
62.5°	157.1	160.8	194.1	245.2	378.2	655.3	1065.0	2519.0	2704.9	2890.8	3076.6
65°	137.0	141.1	170.8	197.3	287.2	569.0	1001.5	2439.6	2684.9	2930.2	3175.5
67.5°	124.6	129.7	155.2	173.6	235.6	495.5	986.4	2374.8	2662.5	2950.3	3238.1
69°	118.8	123.8	147.5	164.4	218.8	472.2	969.0	2265.6	2557.6	2849.7	3141.8
70°	116.0	120.1	143.0	158.9	213.3	458.5	929.8	2140.9	2423.2	2705.5	2987.9
72.5°	106.8	109.2	130.2	145.6	201.8	383.6	736.6	1602.4	1838.4	2074.3	2310.2
75°	94.6	98.2	117.4	133.4	162.1	245.7	483.2	968.6	1143.3	1318.1	1492.8
77.5°	81.3	84.5	100.9	127.4	124.7	148.9	277.7	541.2	635.6	730.0	824.5
80°	70.3	73.6	88.6	118.2	101.4	110.0	187.2	353.0	388.9	424.8	460.7
82.5°	55.2	57.5	74.4	96.4	78.6	81.8	140.2	308.2	329.9	351.6	373.2
85°	35.2	36.5	54.4	65.8	54.8	48.4	88.1	226.0	243.1	260.2	277.3
87.5°	12.3	17.4	24.2	22.8	22.8	17.4	31.0	83.6	90.2	96.9	103.6
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9
2.5°	1535.8	1535.3	1535.8	1535.8	1535.3	1534.8	1534.9	1534.4	1533.5	1533.5	1533.0
5°	1552.5	1552.2	1553.2	1552.7	1553.2	1552.7	1552.7	1552.2	1552.6	1550.8	1550.4
7.5°	1582.9	1582.8	1582.8	1584.2	1583.3	1582.8	1583.8	1583.7	1583.8	1582.8	1582.8
10°	1623.0	1623.5	1624.4	1625.3	1625.3	1625.3	1627.2	1625.8	1628.5	1625.8	1627.2
12.5°	1668.2	1668.7	1671.0	1671.9	1672.8	1672.8	1672.8	1675.6	1677.4	1676.9	1677.4
15°	1713.2	1714.4	1714.8	1716.2	1716.2	1716.6	1718.4	1721.6	1720.8	1722.6	1722.6
17.5°	1741.5	1742.2	1741.8	1741.8	1742.7	1744.0	1745.9	1747.7	1747.2	1748.6	1749.5
20°	1754.4	1753.6	1752.2	1751.4	1750.9	1751.8	1751.8	1752.2	1753.2	1753.2	1753.2
22.5°	1754.8	1752.2	1749.1	1747.2	1745.0	1743.6	1744.5	1743.6	1743.6	1743.6	1742.6
25°	1753.6	1749.5	1744.5	1740.8	1737.2	1734.9	1732.6	1731.8	1729.9	1729.8	1729.9
27.5°	1757.6	1752.2	1747.2	1740.4	1735.4	1732.6	1729.4	1726.2	1724.4	1722.6	1722.6
30°	1773.2	1766.8	1760.5	1752.2	1745.4	1743.1	1737.2	1734.0	1729.4	1727.1	1726.2
32.5°	1804.1	1798.0	1789.2	1780.2	1774.6	1767.8	1762.8	1755.9	1750.9	1747.7	1743.6
35°	1856.7	1853.2	1845.9	1840.0	1831.7	1824.0	1813.9	1810.2	1799.8	1798.0	1792.9
37.5°	1934.3	1936.8	1935.4	1930.8	1925.4	1918.5	1914.4	1906.6	1902.5	1898.4	1893.8
40°	2040.7	2053.2	2057.3	2062.4	2063.7	2069.6	2062.8	2061.9	2056.4	2061.0	2058.2
42.5°	2164.3	2187.9	2200.7	2215.8	2232.2	2247.3	2259.2	2279.2	2277.0	2292.6	2303.4
45°	2301.9	2337.8	2370.6	2395.7	2427.2	2461.9	2492.6	2520.8	2552.8	2571.1	2598.0
47.5°	2442.7	2488.4	2535.4	2582.0	2626.8	2671.6	2726.4	2776.1	2824.5	2857.4	2899.0
50°	2596.0	2651.9	2708.5	2765.6	2829.1	2899.4	2960.6	3025.4	3092.1	3159.8	3207.2
52.5°	2765.6	2833.2	2894.9	2955.2	3033.7	3108.1	3187.6	3268.9	3369.8	3443.4	3508.6
55°	2927.9	3009.5	3077.0	3149.2	3231.5	3314.1	3411.4	3513.2	3620.0	3726.0	3821.9
57.5°	3063.9	3165.6	3246.0	3317.8	3405.9	3501.4	3606.0	3732.0	3853.9	3985.4	4109.2
60°	3157.8	3292.6	3389.4	3475.8	3578.0	3684.0	3820.5	3969.4	4129.7	4293.2	4452.2
62.5°	3262.5	3448.4	3580.8	3704.1	3825.1	3943.0	4096.8	4281.8	4499.2	4696.9	4907.5
65°	3420.8	3666.2	3861.6	4018.8	4190.5	4362.2	4541.6	4757.6	5004.7	5293.3	5538.6
67.5°	3525.9	3813.7	4062.2	4287.3	4487.7	4696.4	4923.0	5181.5	5479.6	5774.2	6079.2
69°	3433.9	3726.0	3988.6	4236.6	4456.2	4681.0	4911.1	5171.4	5476.0	5801.6	6123.5
70°	3270.2	3552.5	3823.8	4085.0	4299.6	4534.3	4760.8	5008.8	5317.5	5643.1	5993.4
72.5°	2546.2	2782.1	3060.6	3312.8	3568.9	3783.1	3987.7	4236.6	4548.0	4858.1	5199.2
75°	1667.5	1842.2	2097.0	2304.4	2525.8	2726.8	2875.2	3122.3	3311.4	3603.2	3920.1
77.5°	919.0	1013.4	1145.8	1314.8	1410.2	1523.5	1671.8	1761.8	1896.1	2100.2	2195.2
80°	496.6	532.5	588.2	623.4	651.6	623.8	608.8	635.7	624.2	621.0	590.5
82.5°	394.8	416.5	445.2	465.8	452.6	392.8	329.2	283.1	253.4	213.3	182.6
85°	294.4	311.4	322.4	336.1	333.8	301.8	241.6	186.8	146.6	116.9	101.8
87.5°	110.2	116.9	120.1	146.1	134.3	127.4	99.1	72.2	55.2	40.2	32.4
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):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9	1529.9
2.5°	1534.0	1533.5	1533.6	1533.6	1534.0	1533.0	1532.2	1533.0	1532.6	1532.6	1532.6
5°	1552.2	1551.8	1551.8	1552.2	1551.8	1552.2	1551.8	1549.9	1550.9	1551.4	1551.8
7.5°	1583.8	1583.3	1583.3	1585.6	1585.2	1584.6	1584.2	1585.1	1583.7	1583.8	1584.7
10°	1627.1	1629.0	1628.5	1629.9	1629.4	1628.5	1627.6	1628.5	1629.9	1630.4	1628.5
12.5°	1680.1	1680.6	1679.6	1682.0	1680.6	1683.8	1680.1	1681.9	1683.8	1681.0	1682.4
15°	1723.0	1723.0	1724.9	1725.4	1724.9	1725.8	1728.5	1727.2	1725.8	1728.0	1729.0
17.5°	1749.0	1750.4	1750.9	1751.4	1752.2	1753.2	1753.6	1753.2	1753.6	1754.5	1756.4
20°	1755.0	1754.6	1755.4	1756.0	1757.3	1757.3	1758.2	1757.7	1759.1	1759.6	1760.0
22.5°	1744.5	1745.0	1745.4	1746.8	1746.3	1747.2	1747.7	1749.1	1748.6	1749.5	1750.0
25°	1730.4	1731.2	1731.7	1731.2	1731.2	1731.8	1732.2	1731.7	1733.6	1734.4	1734.5
27.5°	1721.2	1721.2	1722.6	1722.1	1721.2	1722.2	1721.6	1721.7	1721.6	1722.2	1723.5
30°	1724.9	1723.5	1722.6	1722.6	1722.2	1721.2	1720.3	1718.9	1719.0	1719.4	1718.9
32.5°	1744.5	1741.8	1740.4	1739.0	1738.1	1735.8	1733.1	1732.2	1729.9	1729.9	1729.0
35°	1794.8	1791.6	1791.6	1786.5	1783.8	1782.4	1780.2	1773.3	1773.7	1771.0	1770.1
37.5°	1894.8	1889.2	1887.0	1891.6	1882.8	1886.5	1878.8	1875.6	1877.4	1872.4	1875.1
40°	2062.8	2071.5	2067.9	2072.8	2075.1	2076.0	2076.0	2068.2	2076.0	2063.7	2067.8
42.5°	2305.3	2328.1	2336.4	2339.0	2353.2	2349.6	2345.5	2345.0	2344.6	2350.5	2347.3
45°	2610.4	2613.6	2652.4	2659.7	2667.4	2676.1	2673.8	2683.9	2691.2	2681.2	2682.5
47.5°	2922.2	2954.6	2983.0	2998.5	3015.4	3006.8	3013.6	3017.8	3043.8	3041.0	3038.7
50°	3265.6	3320.0	3335.1	3352.0	3365.2	3391.8	3389.4	3405.4	3402.7	3424.2	3426.9
52.5°	3591.2	3651.2	3711.8	3738.4	3758.4	3789.0	3800.9	3818.2	3811.8	3810.0	3826.0
55°	3915.1	4015.1	4084.5	4152.6	4190.4	4231.1	4248.5	4273.1	4284.0	4289.1	4269.0
57.5°	4236.2	4356.2	4473.6	4557.6	4616.1	4677.2	4709.7	4736.6	4768.2	4778.6	4768.6
60°	4611.5	4787.4	4941.2	5053.6	5161.4	5228.0	5297.9	5349.0	5358.6	5402.0	5429.9
62.5°	5111.6	5325.8	5520.8	5684.2	5851.4	5976.0	6102.1	6152.3	6202.1	6235.9	6256.4
65°	5793.4	6075.7	6345.0	6577.5	6782.6	6989.8	7136.9	7214.1	7313.2	7332.8	7311.4
67.5°	6391.2	6724.1	7058.8	7354.8	7576.2	7791.4	7965.8	8093.6	8186.4	8232.0	8251.2
69°	6456.9	6795.4	7137.4	7432.4	7700.5	7915.1	8093.6	8220.6	8312.8	8391.8	8405.6
70°	6322.2	6702.2	7034.6	7332.4	7608.6	7827.4	7987.2	8132.5	8237.5	8298.2	8319.7
72.5°	5550.0	5891.6	6227.2	6570.2	6807.2	7069.8	7201.4	7317.8	7457.5	7537.0	7519.6
75°	4206.0	4501.4	4794.2	5050.8	5233.5	5330.3	5484.2	5597.0	5576.5	5710.3	5713.9
77.5°	2372.4	2410.8	2609.5	2583.0	2670.6	2672.9	2695.8	2735.5	2659.2	2815.9	2703.5
80°	575.4	567.6	608.8	560.4	556.2	552.1	538.4	565.3	569.0	541.2	546.2
82.5°	169.0	161.6	158.4	154.4	161.2	159.0	160.3	161.2	165.8	159.8	166.2
85°	92.7	87.2	86.8	84.5	84.0	79.0	78.6	78.6	75.4	76.2	75.8
87.5°	35.7	33.4	31.5	30.2	29.7	28.3	27.0	24.7	21.9	19.6	18.3
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)