

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: P180352

Luminaire Tested: **ICS-F04-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180352
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F04-LED-E1-RW-7030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8480 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 102.2
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

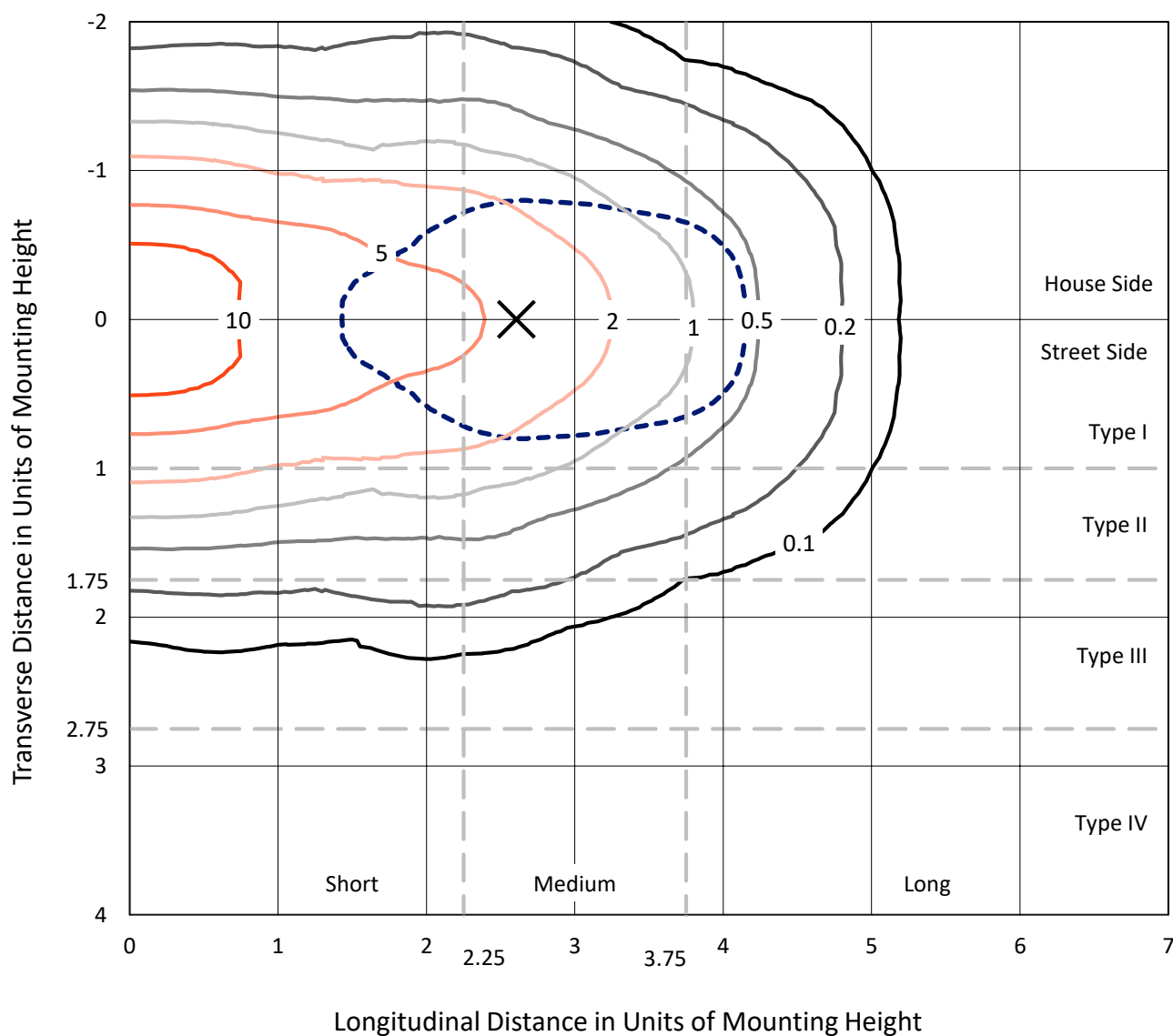


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

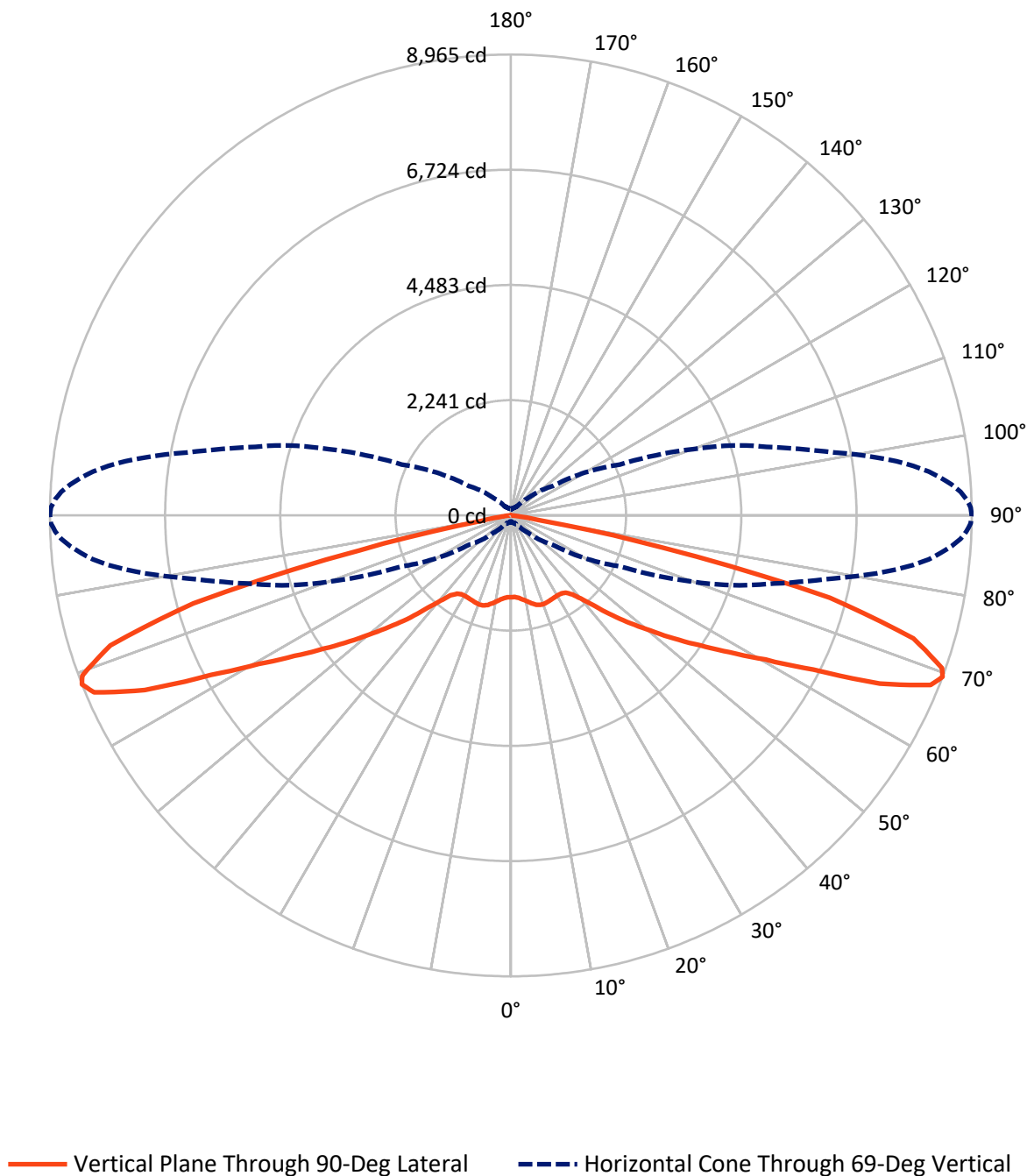


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4240.0	0.0	4240.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4240.0	0.0	4240.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8480.0	0.0	8480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.8	1.8
10°-20°	491.7	5.8
20°-30°	796.5	9.4
30°-40°	992.7	11.7
40°-50°	1240.5	14.6
50°-60°	1531.7	18.1
60°-70°	1903.2	22.4
70°-80°	1263.5	14.9
80°-90°	104.3	1.2
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°	8480.0	100.0
0°-180°	8480.0	100.0

Coefficient of Utilization



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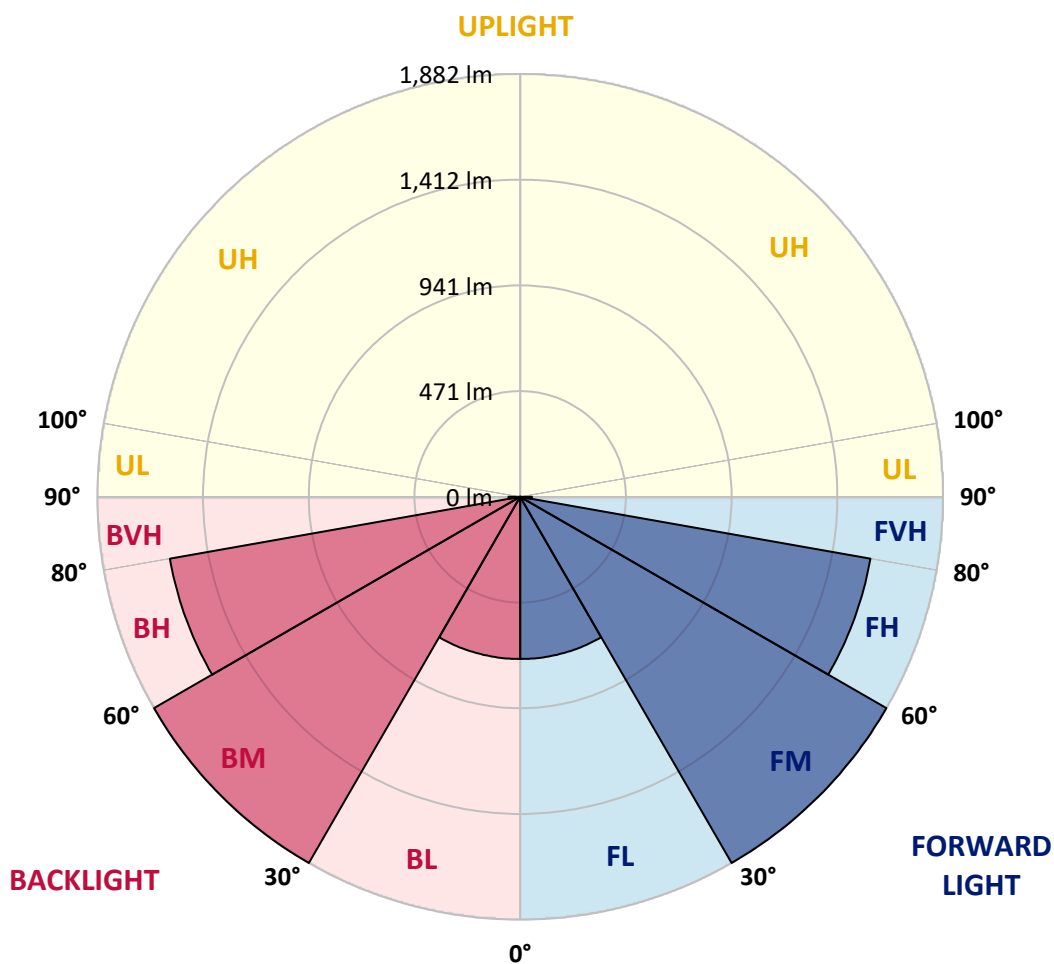
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.0	8.5			
FM	(30°-60°)	1882.4	22.2			
FH	(60°-80°)	1583.4	18.7			G1/1800
FVH	(80°-90°)	52.2	0.6			G1/100
BL	(0°-30°)	722.0	8.5	B2/1000		
BM	(30°-60°)	1882.4	22.2	B2/2500		
BH	(60°-80°)	1583.4	18.7	B3/2500		G3/2500
BVH	(80°-90°)	52.2	0.6			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°	70°	71°	72°
0°	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9
2.5°	1596.2	1597.5	1596.6	1598.4	1597.9	1598.0	1597.0	1595.2	1594.1	1593.4	1593.5
5°	1611.5	1609.7	1612.4	1615.1	1614.2	1614.7	1614.2	1614.2	1613.3	1613.2	1613.2
7.5°	1627.8	1627.4	1629.2	1636.4	1637.3	1640.0	1643.2	1645.4	1645.9	1646.4	1645.9
10°	1641.8	1642.2	1646.8	1657.2	1662.6	1671.2	1679.8	1686.6	1689.1	1690.7	1690.5
12.5°	1653.2	1653.6	1660.4	1676.6	1689.8	1706.0	1724.6	1735.0	1739.6	1740.4	1741.2
15°	1654.0	1655.4	1667.2	1693.8	1720.1	1746.8	1769.0	1783.0	1786.6	1789.1	1789.2
17.5°	1642.3	1643.2	1663.1	1702.4	1746.3	1788.0	1811.0	1817.4	1818.7	1819.6	1819.2
20°	1611.5	1613.8	1641.8	1700.2	1767.2	1821.4	1845.4	1836.8	1832.6	1832.1	1831.6
22.5°	1561.8	1561.3	1598.0	1676.7	1771.2	1847.7	1869.0	1846.4	1833.0	1830.2	1828.4
25°	1481.2	1486.6	1529.6	1623.7	1748.2	1853.6	1885.7	1851.3	1832.1	1827.8	1822.6
27.5°	1393.9	1397.0	1442.8	1543.6	1694.3	1833.2	1893.8	1861.2	1839.8	1833.8	1827.8
30°	1292.2	1296.2	1345.0	1450.5	1607.9	1780.8	1891.6	1883.8	1858.8	1851.6	1844.0
32.5°	1192.6	1197.1	1241.0	1356.4	1517.0	1708.8	1878.0	1916.0	1890.2	1882.2	1874.3
35°	1089.4	1096.2	1149.6	1266.3	1429.2	1628.7	1857.2	1957.2	1943.0	1935.9	1928.9
37.5°	1004.0	1005.3	1056.8	1179.4	1347.8	1552.2	1829.6	2009.2	2019.6	2019.6	2020.5
40°	908.4	917.0	968.6	1098.0	1274.0	1487.6	1803.4	2079.8	2133.9	2143.8	2151.4
42.5°	823.0	823.8	876.3	1009.8	1194.0	1435.6	1788.8	2164.8	2280.4	2301.5	2322.7
45°	732.9	736.5	784.0	913.0	1101.6	1374.0	1788.4	2263.0	2447.6	2483.1	2515.8
47.5°	647.8	649.2	699.4	819.3	995.8	1288.0	1785.2	2368.4	2619.8	2672.0	2714.8
50°	566.4	565.0	614.4	729.8	891.3	1175.4	1757.6	2487.8	2805.2	2864.7	2917.4
52.5°	473.2	479.6	530.7	641.1	796.2	1060.9	1677.1	2618.6	2998.2	3067.0	3133.2
55°	381.8	384.6	439.3	542.4	699.9	954.2	1536.9	2739.0	3186.4	3264.5	3338.0
57.5°	281.4	289.6	337.5	439.3	602.2	864.2	1358.6	2801.4	3345.9	3435.9	3523.3
60°	198.6	205.0	247.5	333.0	495.0	769.6	1205.2	2766.6	3474.1	3589.2	3694.2
62.5°	154.8	159.7	193.6	249.3	385.9	675.0	1095.3	2653.9	3616.7	3766.7	3909.9
65°	135.7	140.2	171.0	199.5	288.2	578.6	1035.2	2534.9	3807.6	4028.5	4228.2
67.5°	122.6	128.0	154.7	174.6	234.8	504.9	1019.3	2459.8	3901.2	4189.0	4458.2
69°	116.7	122.2	146.1	162.9	218.0	478.6	992.2	2341.8	3774.8	4082.4	4376.4
70°	113.1	117.6	139.8	157.0	212.6	460.6	946.9	2194.2	3601.5	3912.0	4219.3
72.5°	105.0	107.2	126.7	143.4	197.2	372.4	728.4	1629.6	2849.6	3152.4	3450.6
75°	92.8	95.4	113.6	129.9	153.9	231.2	461.0	1008.0	1918.7	2144.3	2421.0
77.5°	80.0	82.4	98.2	124.0	119.4	144.3	275.6	561.0	1089.2	1220.3	1400.2
80°	64.2	66.9	81.0	123.0	98.6	112.2	198.1	392.2	534.8	573.9	617.1
82.5°	47.1	49.3	63.4	99.6	75.6	84.6	151.1	332.5	382.1	399.8	408.4
85°	24.0	24.4	40.2	60.6	48.0	43.9	85.0	227.6	259.2	263.7	270.4
87.5°	4.0	4.0	9.0	10.4	11.8	7.2	10.8	38.9	45.0	44.7	48.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9
2.5°	1594.1	1593.8	1594.4	1594.4	1595.0	1593.3	1592.9	1592.5	1592.5	1593.4	1592.5
5°	1613.5	1613.4	1613.8	1614.5	1614.3	1613.3	1613.1	1613.4	1612.0	1611.6	1612.4
7.5°	1646.8	1646.4	1645.4	1646.9	1647.9	1648.0	1649.0	1648.2	1647.8	1647.3	1648.2
10°	1692.1	1691.8	1692.0	1693.6	1694.7	1694.8	1696.0	1694.8	1694.3	1695.2	1695.2
12.5°	1742.9	1741.9	1744.0	1745.0	1746.3	1749.0	1747.7	1749.5	1748.2	1750.4	1750.4
15°	1790.8	1791.4	1793.4	1794.2	1794.6	1796.8	1797.1	1798.4	1796.6	1797.0	1800.6
17.5°	1820.5	1820.1	1821.4	1822.2	1823.4	1824.5	1826.6	1827.8	1826.9	1826.9	1828.7
20°	1830.6	1829.2	1829.6	1830.2	1830.4	1831.5	1833.0	1833.2	1833.2	1833.6	1835.5
22.5°	1825.6	1823.3	1821.0	1821.2	1821.4	1821.1	1822.2	1822.8	1823.7	1824.6	1826.8
25°	1818.8	1813.5	1809.2	1808.8	1807.6	1807.7	1808.2	1808.3	1809.2	1810.6	1812.4
27.5°	1819.5	1812.5	1805.6	1803.2	1800.8	1799.2	1798.6	1797.4	1798.4	1799.8	1801.5
30°	1834.9	1824.1	1814.2	1811.2	1807.6	1804.6	1801.9	1798.8	1797.0	1798.4	1799.3
32.5°	1862.3	1851.6	1841.8	1836.8	1831.8	1826.4	1821.4	1818.3	1814.2	1812.8	1812.4
35°	1920.1	1911.7	1902.9	1897.3	1889.0	1884.7	1878.6	1869.9	1863.5	1863.1	1859.4
37.5°	2017.8	2013.7	2007.4	2001.5	1998.8	1987.5	1980.2	1975.7	1968.5	1973.0	1965.3
40°	2158.1	2164.9	2170.8	2167.3	2168.4	2165.4	2161.0	2165.3	2160.3	2159.0	2160.3
42.5°	2337.9	2361.7	2378.4	2383.6	2397.0	2402.3	2412.0	2427.2	2424.0	2441.2	2444.4
45°	2546.3	2580.4	2613.6	2638.4	2665.3	2695.9	2726.5	2750.8	2769.7	2768.8	2789.6
47.5°	2758.9	2809.3	2853.4	2890.6	2939.1	2984.0	3033.4	3083.2	3119.4	3133.0	3137.5
50°	2974.2	3032.3	3092.7	3147.4	3212.9	3284.8	3362.5	3440.2	3479.1	3510.8	3532.0
52.5°	3199.8	3266.4	3330.7	3407.9	3488.7	3583.5	3680.6	3791.3	3850.1	3909.8	3941.5
55°	3414.3	3488.8	3555.1	3658.3	3757.5	3870.7	3997.5	4137.4	4239.2	4309.4	4371.3
57.5°	3609.3	3688.5	3770.0	3886.5	4012.9	4145.1	4305.9	4475.8	4586.6	4708.8	4818.7
60°	3799.7	3899.3	3993.0	4145.2	4295.6	4460.1	4660.2	4875.3	5046.8	5212.8	5339.5
62.5°	4052.2	4180.1	4296.6	4488.1	4684.6	4887.8	5125.8	5380.2	5629.0	5854.3	6024.9
65°	4425.2	4613.1	4787.5	5030.1	5278.1	5545.6	5829.8	6154.7	6453.3	6751.4	6995.8
67.5°	4708.4	4946.3	5170.2	5463.5	5755.4	6065.4	6408.9	6792.6	7162.2	7498.4	7796.2
69°	4652.8	4905.2	5147.6	5447.1	5750.5	6067.1	6413.6	6821.6	7205.7	7570.8	7890.2
70°	4483.7	4746.7	4997.9	5294.9	5602.4	5919.8	6282.5	6683.2	7076.3	7465.4	7788.0
72.5°	3715.9	3979.8	4223.8	4527.9	4837.3	5170.7	5514.1	5904.6	6324.4	6740.2	7023.0
75°	2664.2	2897.5	3134.0	3391.1	3693.0	3967.8	4282.0	4654.5	5007.4	5330.0	5546.2
77.5°	1574.7	1714.3	1883.0	2003.9	2179.2	2330.5	2490.4	2697.3	2805.9	3014.0	3067.4
80°	641.6	637.7	662.8	638.0	643.6	623.2	601.6	597.7	563.8	606.2	574.6
82.5°	407.6	379.1	348.8	306.8	269.8	231.0	195.4	165.6	160.2	161.0	159.2
85°	268.4	256.1	228.9	192.4	156.9	125.9	100.7	79.6	78.8	77.4	76.9
87.5°	48.6	45.1	37.1	31.7	26.7	19.9	14.0	10.4	10.0	10.0	11.8
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9	1588.9
2.5°	1592.5	1592.5	1592.1	1593.0	1592.5	1591.1	1589.8
5°	1613.4	1611.5	1612.8	1614.2	1612.0	1612.4	1611.5
7.5°	1648.2	1647.7	1648.2	1646.8	1645.9	1647.2	1648.6
10°	1697.0	1696.1	1695.6	1697.0	1696.2	1695.2	1695.7
12.5°	1751.8	1751.8	1751.3	1751.8	1751.3	1750.0	1749.1
15°	1800.2	1801.0	1801.1	1800.2	1799.7	1799.2	1799.7
17.5°	1830.0	1829.6	1829.6	1829.6	1829.2	1829.6	1830.5
20°	1837.8	1836.4	1836.4	1837.2	1836.4	1837.2	1837.7
22.5°	1827.3	1827.3	1827.3	1827.8	1828.7	1828.7	1829.6
25°	1814.2	1814.2	1814.2	1815.1	1815.2	1815.6	1816.0
27.5°	1803.8	1803.8	1803.8	1804.7	1804.7	1805.2	1806.1
30°	1800.6	1800.6	1800.2	1800.6	1801.1	1801.1	1801.5
32.5°	1812.8	1811.4	1811.0	1810.2	1809.2	1809.2	1808.8
35°	1855.8	1852.2	1852.6	1850.0	1850.8	1848.6	1846.8
37.5°	1960.4	1956.8	1952.6	1947.2	1944.0	1948.1	1948.1
40°	2155.8	2158.0	2148.1	2145.4	2139.5	2143.6	2149.0
42.5°	2446.2	2449.0	2450.8	2435.9	2435.4	2432.2	2423.2
45°	2790.5	2784.2	2787.0	2780.2	2777.4	2767.4	2779.7
47.5°	3154.8	3158.8	3142.5	3137.1	3146.6	3130.3	3132.6
50°	3544.2	3545.2	3533.0	3530.2	3538.8	3508.0	3522.5
52.5°	3964.1	3966.0	3975.4	3964.1	3968.6	3961.4	3975.9
55°	4410.6	4444.6	4447.8	4460.0	4460.8	4475.8	4460.9
57.5°	4879.8	4918.2	4954.5	5003.8	5014.6	5008.8	5018.3
60°	5444.8	5545.8	5600.0	5677.4	5689.6	5723.1	5694.2
62.5°	6185.0	6342.0	6460.6	6520.3	6556.4	6626.6	6603.5
65°	7220.2	7407.0	7587.1	7673.0	7768.0	7867.6	7885.7
67.5°	8068.0	8275.6	8463.0	8611.8	8727.7	8801.0	8806.8
69°	8173.8	8394.7	8591.9	8757.5	8870.2	8945.3	8965.2
70°	8078.4	8304.2	8513.2	8671.1	8796.8	8873.4	8900.0
72.5°	7319.7	7588.4	7755.8	7916.9	8094.2	8117.4	8190.6
75°	5794.2	6035.2	6199.5	6242.0	6334.8	6451.5	6409.9
77.5°	3022.2	3127.2	3162.0	3087.8	3084.1	3152.5	3016.7
80°	575.4	576.4	566.9	563.3	570.0	563.2	553.8
82.5°	162.4	160.2	158.8	162.4	162.0	161.5	164.7
85°	75.1	72.8	69.2	69.2	71.0	68.4	69.7
87.5°	10.4	8.6	8.6	8.6	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)