

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: P181459

Luminaire Tested: **ICM-E05-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181459
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-T3
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14343.9 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

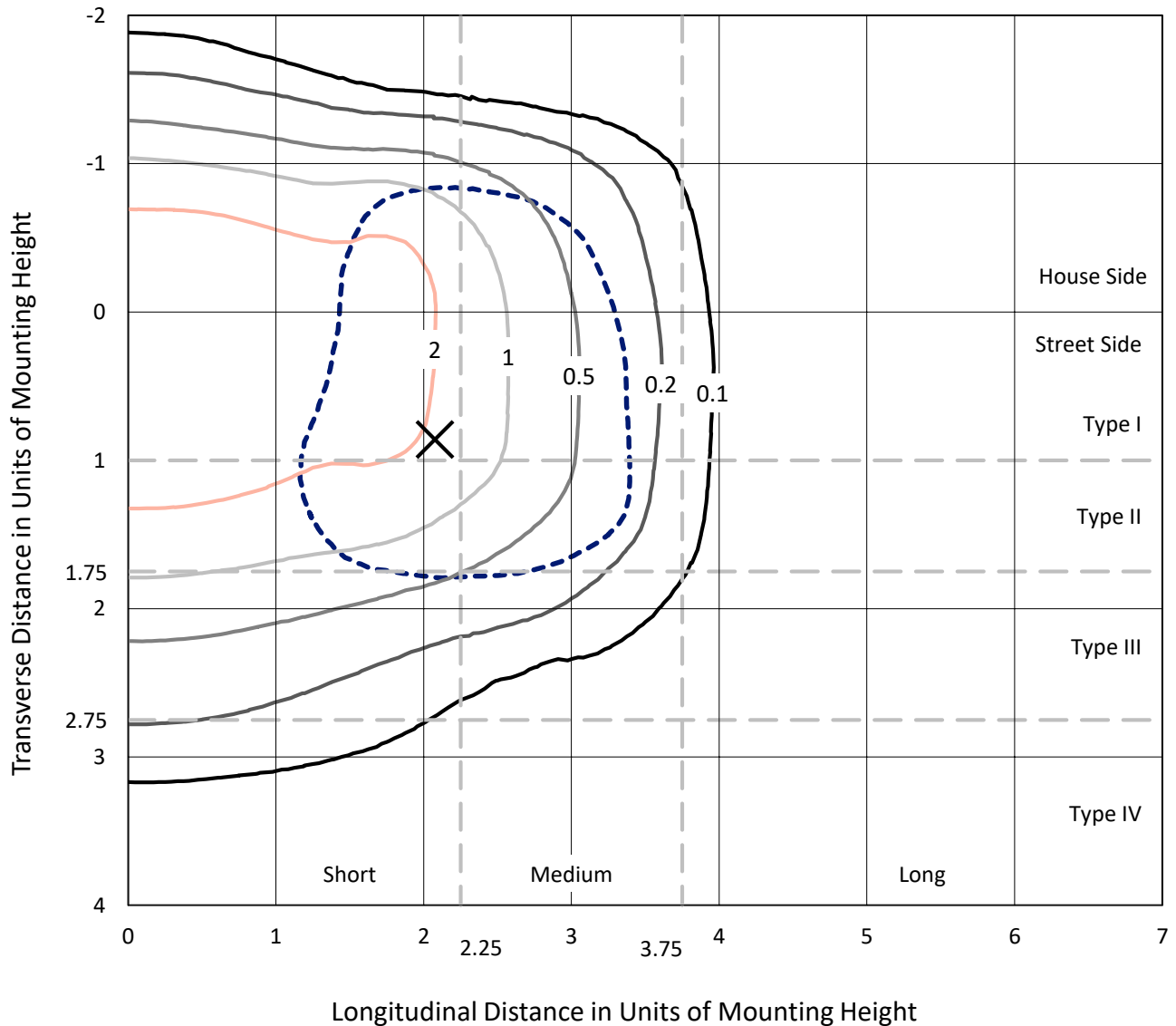
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

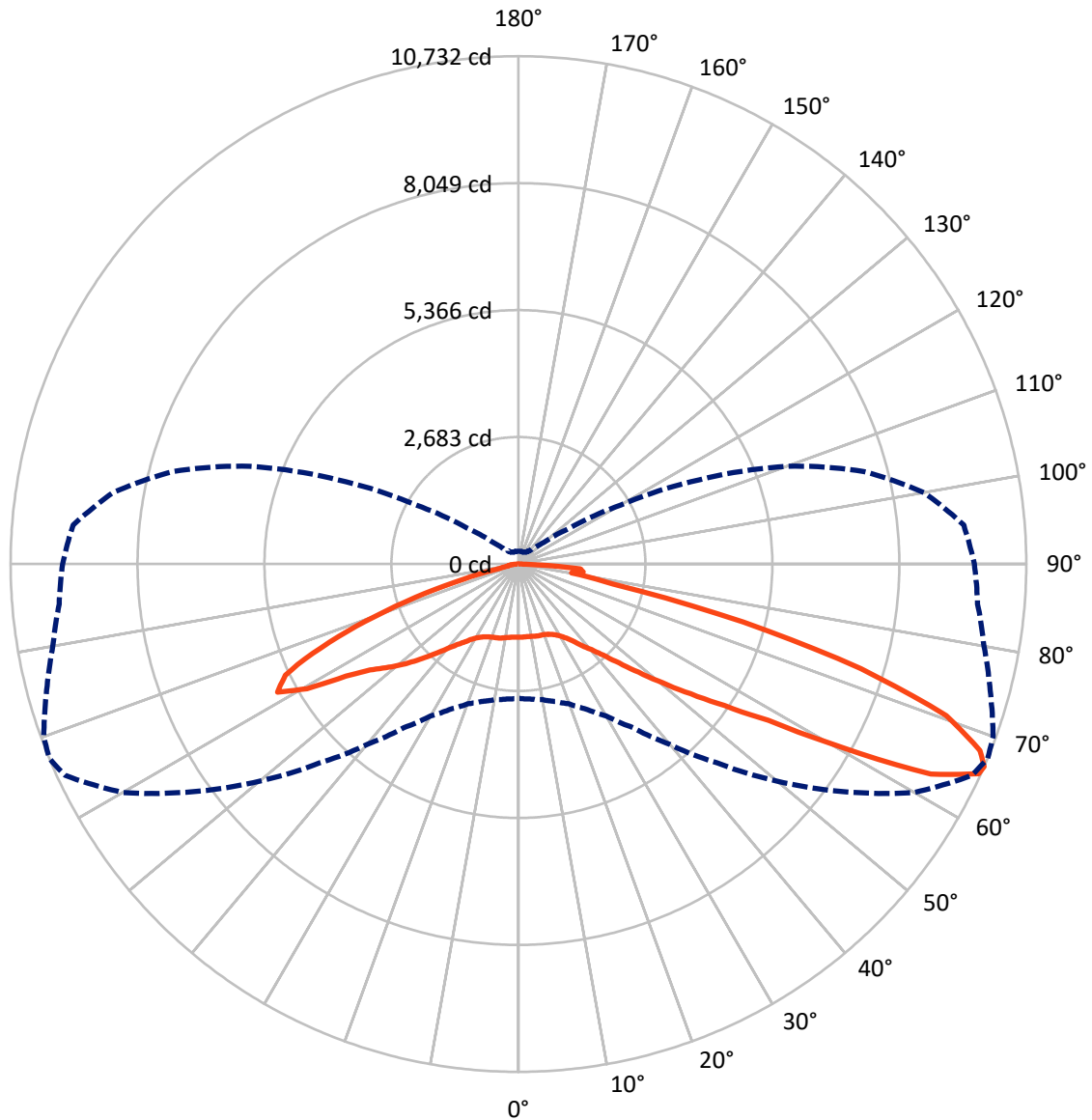
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4953.4	0.0	4953.4
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	9390.5	0.0	9390.5
	% Fixture	65.5	0.0	65.5
Total	Lumens	14343.9	0.0	14343.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.0
10°-20°	436.9	3.0
20°-30°	750.9	5.2
30°-40°	1219.3	8.5
40°-50°	2035.7	14.2
50°-60°	3205.4	22.3
60°-70°	4370.9	30.5
70°-80°	1892.1	13.2
80°-90°	284.5	2.0
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°	14343.9	100.0
0°-180°	14343.9	100.0



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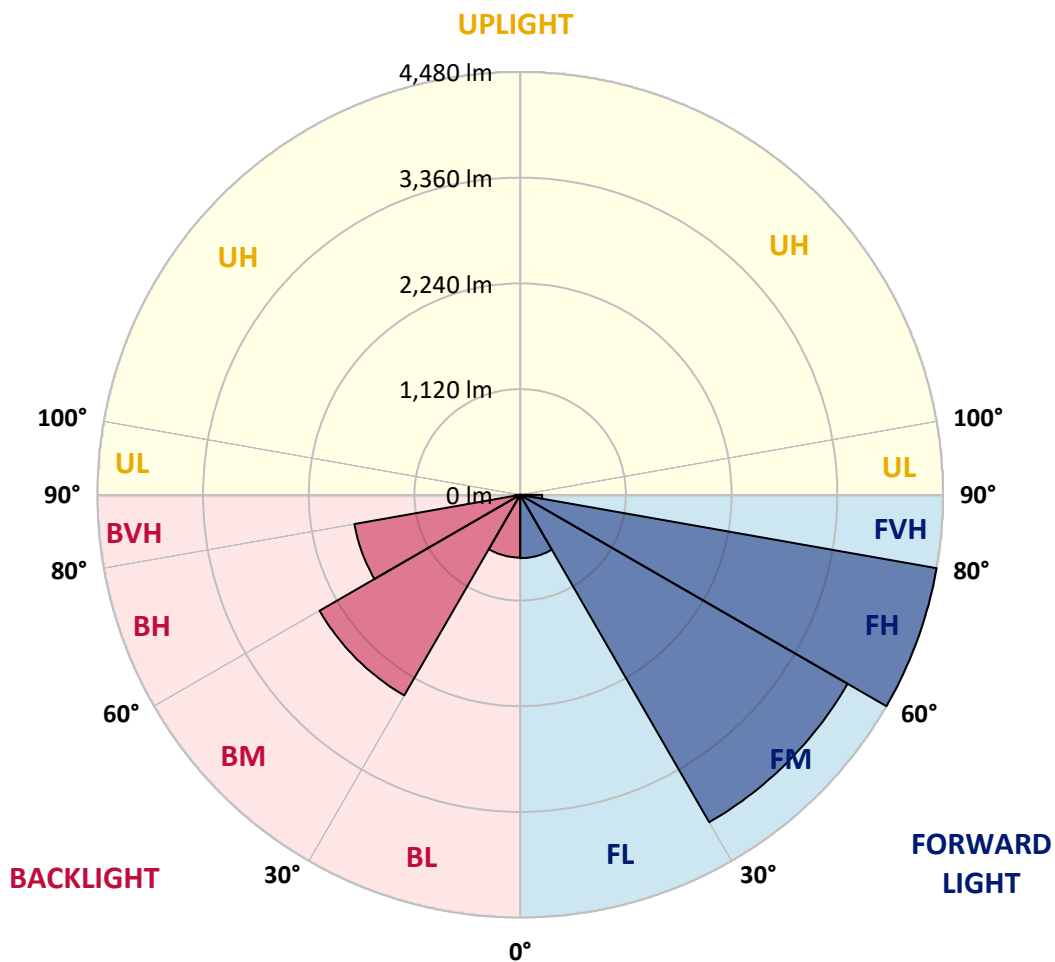
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	671.0	4.7			
FM	(30°-60°)	4005.8	27.9			
FH	(60°-80°)	4480.1	31.2			G2/5000
FVH	(80°-90°)	233.6	1.6			G3/500
BL	(0°-30°)	664.9	4.6	B2/1000		
BM	(30°-60°)	2454.6	17.1	B2/2500		
BH	(60°-80°)	1783.0	12.4	B3/2500		G3/2500
BVH	(80°-90°)	50.9	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8
2.5°	1551.9	1558.1	1551.9	1553.5	1555.1	1553.5	1551.9	1551.9	1547.3	1550.4	1553.5
5°	1545.8	1550.4	1548.8	1550.4	1551.9	1550.4	1548.8	1550.4	1547.3	1548.8	1553.5
7.5°	1538.0	1536.5	1538.0	1541.1	1544.2	1544.2	1544.2	1545.8	1544.2	1544.2	1548.8
10°	1514.7	1516.3	1519.4	1524.0	1525.6	1530.2	1530.2	1534.9	1536.5	1539.5	1545.8
12.5°	1485.3	1486.8	1490.0	1493.0	1500.8	1508.6	1508.6	1519.4	1524.0	1531.8	1542.6
15°	1463.5	1465.1	1468.2	1471.4	1477.5	1485.3	1490.0	1502.3	1510.1	1524.0	1539.5
17.5°	1476.0	1474.4	1477.5	1479.1	1479.1	1485.3	1485.3	1494.6	1503.9	1516.3	1536.5
20°	1511.6	1511.6	1514.7	1514.7	1513.2	1516.3	1510.1	1510.1	1511.6	1517.9	1531.8
22.5°	1547.3	1545.8	1551.9	1555.1	1556.6	1561.2	1555.1	1553.5	1545.8	1541.1	1545.8
25°	1581.4	1579.8	1587.6	1592.3	1600.0	1604.7	1604.7	1604.7	1598.4	1590.7	1586.1
27.5°	1634.1	1634.1	1641.9	1646.5	1652.8	1662.1	1666.7	1666.7	1668.2	1657.4	1649.6
30°	1722.5	1724.0	1725.6	1731.8	1738.0	1741.1	1747.3	1751.9	1756.6	1750.4	1738.0
32.5°	1827.9	1818.6	1818.6	1827.9	1835.6	1844.9	1848.1	1854.2	1863.5	1858.9	1857.4
35°	1953.5	1950.4	1947.3	1950.4	1959.7	1970.5	1983.0	1993.8	1987.6	1996.9	1992.3
37.5°	2139.5	2142.6	2144.2	2144.2	2142.6	2145.8	2151.9	2162.8	2159.7	2162.8	2169.0
40°	2446.5	2435.6	2424.9	2426.3	2410.9	2414.0	2389.1	2400.0	2401.6	2390.7	2395.4
42.5°	2753.5	2759.7	2764.4	2776.8	2765.9	2759.7	2736.5	2736.5	2724.0	2713.2	2710.1
45°	3085.3	3097.7	3099.3	3124.0	3114.7	3134.9	3151.9	3147.3	3127.2	3125.6	3103.9
47.5°	3350.4	3370.5	3392.3	3421.7	3445.0	3490.0	3542.6	3569.0	3584.5	3597.0	3572.1
50°	3548.9	3558.2	3614.0	3660.5	3711.7	3786.1	3858.9	3953.5	4029.5	4065.1	4099.3
52.5°	3655.8	3679.1	3739.6	3812.4	3902.3	4014.0	4131.8	4282.2	4412.4	4499.3	4576.8
55°	3679.1	3702.3	3770.5	3863.6	3986.1	4136.5	4305.4	4510.1	4705.4	4872.9	5035.7
57.5°	3614.0	3640.3	3713.2	3820.2	3964.4	4147.3	4359.7	4627.9	4897.7	5169.1	5409.3
60°	3494.6	3527.2	3593.8	3699.3	3858.9	4065.1	4319.4	4655.8	5034.2	5449.6	5910.1
62.5°	3297.7	3331.8	3393.8	3510.1	3674.4	3902.3	4197.0	4615.6	5150.5	5804.7	6621.7
65°	2981.4	2996.9	3072.9	3190.7	3336.5	3587.6	3911.7	4417.1	5113.2	6023.3	7148.9
66°	2838.8	2865.1	2911.6	3006.3	3145.8	3381.4	3707.0	4220.2	4972.1	5947.3	7134.9
67.5°	2615.6	2635.6	2666.7	2730.2	2815.6	2989.1	3297.7	3783.0	4541.1	5562.8	6838.8
70°	2114.7	2124.0	2165.9	2187.6	2217.0	2274.4	2386.1	2665.1	3255.8	4215.6	5519.4
72.5°	1441.9	1468.2	1513.2	1575.2	1655.8	1733.3	1786.1	1821.7	1948.8	2514.7	3677.5
75°	1057.4	1085.3	1142.6	1224.8	1365.9	1527.2	1694.6	1772.1	1719.4	1646.5	2048.1
77.5°	614.0	651.2	699.3	778.3	908.6	1122.5	1409.3	1663.5	1835.6	1846.5	1753.5
80°	258.9	263.5	293.0	333.3	414.0	564.4	787.6	1153.5	1534.9	1792.3	1852.8
82.5°	58.9	72.8	93.0	110.0	134.9	186.0	276.0	458.9	829.5	1300.8	1696.1
85°	21.7	21.7	29.5	43.4	49.6	55.8	72.8	116.3	198.4	365.9	762.8
87.5°	0.0	1.6	3.1	3.1	6.2	7.7	12.4	17.0	15.5	14.0	46.5
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8
2.5°	1550.4	1548.8	1545.8	1545.8	1545.8	1545.8	1542.6	1544.2	1541.1	1542.6	1542.6
5°	1548.8	1548.8	1547.3	1544.2	1545.8	1545.8	1547.3	1544.2	1544.2	1545.8	1544.2
7.5°	1548.8	1547.3	1547.3	1547.3	1548.8	1547.3	1548.8	1548.8	1548.8	1550.4	1550.4
10°	1548.8	1548.8	1551.9	1553.5	1553.5	1555.1	1559.7	1559.7	1561.2	1562.8	1565.9
12.5°	1550.4	1556.6	1561.2	1565.9	1567.5	1570.5	1578.3	1578.3	1581.4	1586.1	1587.6
15°	1551.9	1561.2	1570.5	1573.7	1576.8	1583.0	1590.7	1593.8	1598.4	1603.1	1606.2
17.5°	1550.4	1562.8	1573.7	1578.3	1583.0	1590.7	1600.0	1603.1	1609.3	1615.5	1621.7
20°	1548.8	1565.9	1583.0	1589.1	1595.4	1606.2	1618.6	1626.3	1632.6	1641.9	1648.1
22.5°	1558.1	1578.3	1601.6	1610.9	1621.7	1635.6	1652.8	1662.1	1669.8	1679.1	1683.7
25°	1587.6	1603.1	1631.0	1646.5	1660.5	1683.7	1707.0	1717.9	1727.2	1734.9	1736.5
27.5°	1637.2	1641.9	1676.0	1696.1	1716.3	1753.5	1781.4	1789.1	1806.2	1812.4	1810.9
30°	1717.9	1710.1	1738.0	1769.0	1798.4	1849.6	1883.7	1903.9	1919.4	1919.4	1907.0
32.5°	1834.2	1821.7	1829.5	1865.1	1899.3	1973.7	2014.0	2040.3	2051.2	2048.1	2021.7
35°	1986.1	1978.3	1973.7	2001.6	2055.8	2142.6	2195.4	2209.3	2226.3	2223.3	2189.1
37.5°	2165.9	2159.7	2159.7	2192.3	2244.9	2373.7	2431.0	2440.3	2438.8	2414.0	2350.4
40°	2378.3	2375.2	2361.2	2379.8	2424.9	2592.3	2669.8	2682.2	2665.1	2624.9	2550.4
42.5°	2683.7	2665.1	2621.7	2632.6	2666.7	2829.5	2930.3	2964.4	2947.3	2907.0	2786.1
45°	3082.2	3062.1	2989.1	2979.8	2998.4	3141.1	3271.4	3279.1	3276.0	3224.9	3082.2
47.5°	3550.4	3519.4	3441.9	3417.0	3410.9	3542.6	3668.2	3680.7	3672.9	3597.0	3406.3
50°	4057.4	4012.4	3961.2	3944.2	3919.4	4014.0	4141.1	4142.6	4111.7	4006.3	3827.9
52.5°	4598.4	4583.0	4573.7	4556.6	4545.8	4627.9	4705.4	4658.9	4612.4	4502.4	4347.3
55°	5144.2	5207.8	5272.9	5279.1	5297.7	5386.1	5384.5	5257.4	5223.3	5162.8	5009.3
57.5°	5724.0	5959.8	6164.4	6227.9	6290.0	6454.3	6438.8	6313.2	6269.8	6195.4	6068.2
60°	6513.2	7148.9	7739.6	7880.7	7978.4	8175.2	8156.6	7962.8	8052.8	8046.6	7882.2
62.5°	7618.7	8676.1	9561.3	9778.4	9846.6	9868.2	9750.5	9541.2	9629.5	9728.7	9223.3
65°	8367.5	9610.9	10519.4	10686.9	10696.2	10437.3	10175.2	9928.7	9907.0	9821.7	9099.3
66°	8384.5	9657.5	10569.1	10731.9	10674.5	10321.0	9989.2	9741.2	9634.2	9446.6	8697.7
67.5°	8083.8	9367.5	10348.9	10521.0	10395.4	9894.7	9437.3	9117.9	8908.6	8604.7	7944.2
70°	6789.2	8062.1	9271.4	9592.3	9632.6	8885.4	8251.2	7876.0	7593.8	7176.8	6607.8
72.5°	5048.1	6198.5	7265.2	7572.1	7728.7	7131.9	6597.0	6311.7	5925.6	5486.8	5082.2
75°	3164.4	3976.8	4691.5	4907.0	4759.8	4297.7	3976.8	3857.4	3477.5	3215.6	3031.0
77.5°	1809.3	2063.5	2120.9	2038.8	1865.1	1427.9	1015.5	751.9	652.7	722.5	796.9
80°	1765.9	1618.6	1290.0	1134.9	1027.9	707.0	415.5	285.3	237.2	243.4	263.5
82.5°	1913.2	2052.8	1690.0	1378.3	1156.6	781.4	431.0	229.5	155.1	183.0	206.2
85°	1243.4	1730.2	1558.1	1313.2	1063.5	668.2	355.1	119.3	79.1	103.9	142.6
87.5°	125.6	138.0	117.9	159.7	119.3	55.8	27.9	17.0	15.5	18.6	27.9
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8	1545.8
2.5°	1544.2	1544.2	1545.8	1547.3	1548.8	1550.4	1550.4	1550.4	1550.4	1553.5	1551.9
5°	1547.3	1550.4	1553.5	1555.1	1558.1	1558.1	1562.8	1561.2	1561.2	1565.9	1567.5
7.5°	1553.5	1558.1	1564.4	1562.8	1569.0	1567.5	1570.5	1570.5	1565.9	1567.5	1564.4
10°	1567.5	1573.7	1576.8	1572.1	1573.7	1567.5	1565.9	1558.1	1548.8	1544.2	1538.0
12.5°	1590.7	1596.9	1596.9	1589.1	1579.8	1565.9	1555.1	1538.0	1524.0	1516.3	1508.6
15°	1610.9	1617.0	1615.5	1603.1	1589.1	1567.5	1551.9	1531.8	1511.6	1499.3	1491.5
17.5°	1626.3	1629.5	1624.8	1607.7	1592.3	1572.1	1556.6	1534.9	1511.6	1496.1	1482.1
20°	1649.6	1646.5	1635.6	1614.0	1596.9	1578.3	1565.9	1547.3	1520.9	1500.8	1480.7
22.5°	1683.7	1671.4	1651.2	1627.9	1610.9	1593.8	1581.4	1561.2	1534.9	1510.1	1486.8
25°	1728.7	1703.9	1676.0	1651.2	1635.6	1617.0	1603.1	1581.4	1553.5	1525.6	1497.7
27.5°	1793.8	1750.4	1714.7	1693.0	1676.0	1652.8	1635.6	1607.7	1578.3	1545.8	1514.7
30°	1866.7	1807.7	1773.7	1756.6	1738.0	1713.2	1686.8	1651.2	1617.0	1581.4	1544.2
32.5°	1961.2	1890.0	1857.4	1840.3	1815.5	1784.5	1753.5	1713.2	1665.1	1618.6	1573.7
35°	2085.3	2012.4	1978.3	1951.9	1917.9	1877.5	1832.6	1778.3	1713.2	1651.2	1593.8
37.5°	2218.6	2139.5	2107.0	2079.1	2027.9	1975.2	1911.6	1832.6	1744.2	1662.1	1590.7
40°	2387.6	2314.7	2272.9	2224.9	2164.4	2072.8	1973.7	1858.9	1745.8	1644.9	1561.2
42.5°	2601.6	2528.7	2466.7	2390.7	2285.3	2144.2	2003.1	1854.2	1717.9	1603.1	1513.2
45°	2885.3	2796.9	2690.0	2556.6	2386.1	2189.1	2004.7	1824.8	1665.1	1538.0	1441.9
47.5°	3232.6	3097.7	2922.5	2697.7	2452.8	2201.6	1979.8	1765.9	1583.0	1444.9	1338.0
50°	3645.0	3432.6	3144.2	2814.0	2486.8	2183.0	1917.9	1677.5	1466.7	1319.4	1192.3
52.5°	4116.3	3769.0	3344.2	2897.7	2485.3	2120.9	1812.4	1544.2	1314.7	1150.4	1029.5
55°	4669.8	4153.5	3550.4	2959.7	2441.9	2006.2	1651.2	1356.6	1127.2	975.2	863.5
57.5°	5480.7	4776.8	3910.1	3055.8	2355.1	1829.5	1432.6	1131.8	930.2	786.1	691.4
60°	6962.8	5817.1	4558.2	3249.6	2221.7	1570.5	1176.8	891.4	722.5	606.2	542.6
62.5°	8079.1	6621.7	4908.6	3206.3	1953.5	1251.2	872.8	649.6	531.8	452.7	412.4
65°	7919.4	6372.1	4534.9	2761.2	1531.8	882.1	579.8	441.9	365.9	328.7	305.4
66°	7558.2	6046.5	4210.9	2485.3	1324.0	733.3	477.5	370.5	314.7	288.4	272.8
67.5°	6872.9	5441.9	3631.0	2037.2	1017.0	531.8	359.7	293.0	255.8	244.9	234.1
70°	5713.2	4339.6	2548.9	1186.1	519.4	296.1	227.9	204.7	195.4	193.8	190.7
72.5°	4378.4	3071.4	1500.8	561.2	269.8	196.9	176.7	169.0	165.9	165.9	167.4
75°	2683.7	1725.6	663.5	274.4	189.1	165.9	156.6	153.5	151.9	153.5	151.9
77.5°	896.1	548.8	283.7	207.7	172.1	153.5	147.3	144.2	144.2	144.2	144.2
80°	274.4	238.8	217.0	192.3	162.8	145.8	136.5	134.9	136.5	138.0	133.3
82.5°	206.2	195.4	183.0	170.5	147.3	130.2	127.2	127.2	127.2	122.5	116.3
85°	151.9	150.4	124.0	116.3	108.6	108.6	108.6	108.6	103.9	96.1	90.0
87.5°	27.9	26.3	27.9	29.5	43.4	46.5	46.5	49.6	54.2	51.2	51.2
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):

	160°	165°	170°	175°	180°
0°	1545.8	1545.8	1545.8	1545.8	1545.8
2.5°	1551.9	1550.4	1555.1	1551.9	1553.5
5°	1565.9	1564.4	1567.5	1564.4	1569.0
7.5°	1561.2	1558.1	1556.6	1558.1	1559.7
10°	1528.7	1525.6	1524.0	1522.5	1524.0
12.5°	1500.8	1494.6	1494.6	1491.5	1493.0
15°	1480.7	1476.0	1474.4	1471.4	1472.8
17.5°	1471.4	1463.5	1460.5	1457.4	1457.4
20°	1465.1	1455.8	1451.2	1448.1	1446.5
22.5°	1465.1	1451.2	1444.9	1441.9	1440.3
25°	1471.4	1454.2	1444.9	1440.3	1438.8
27.5°	1483.7	1462.1	1451.2	1444.9	1444.9
30°	1505.4	1477.5	1462.1	1454.2	1452.8
32.5°	1527.2	1490.0	1468.2	1458.9	1455.8
35°	1538.0	1490.0	1463.5	1448.1	1444.9
37.5°	1525.6	1469.8	1437.2	1414.0	1409.3
40°	1486.8	1427.9	1392.3	1370.5	1367.5
42.5°	1435.6	1378.3	1336.5	1320.9	1316.3
45°	1365.9	1297.7	1255.8	1234.1	1235.6
47.5°	1246.5	1176.8	1139.5	1119.4	1122.5
50°	1105.4	1037.2	1004.7	983.0	987.6
52.5°	950.4	888.4	857.4	846.5	843.4
55°	787.6	739.5	717.9	705.4	700.7
57.5°	638.8	604.7	589.1	573.7	575.2
60°	503.9	486.8	482.1	465.1	463.5
62.5°	396.9	386.0	381.4	369.0	370.5
65°	300.7	297.7	300.7	293.0	296.1
66°	271.4	272.8	272.8	268.2	271.4
67.5°	234.1	237.2	241.9	237.2	240.3
70°	193.8	196.9	200.0	200.0	200.0
72.5°	169.0	172.1	173.7	173.7	173.7
75°	155.1	156.6	158.1	155.1	155.1
77.5°	145.8	145.8	142.6	141.1	139.5
80°	131.8	130.2	125.6	122.5	122.5
82.5°	110.0	107.0	103.9	99.3	99.3
85°	83.7	80.7	77.5	71.3	68.2
87.5°	43.4	44.9	43.4	35.6	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)