

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: P181657

Luminaire Tested: **ICM-E05-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181657
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
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-T4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11863.2 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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

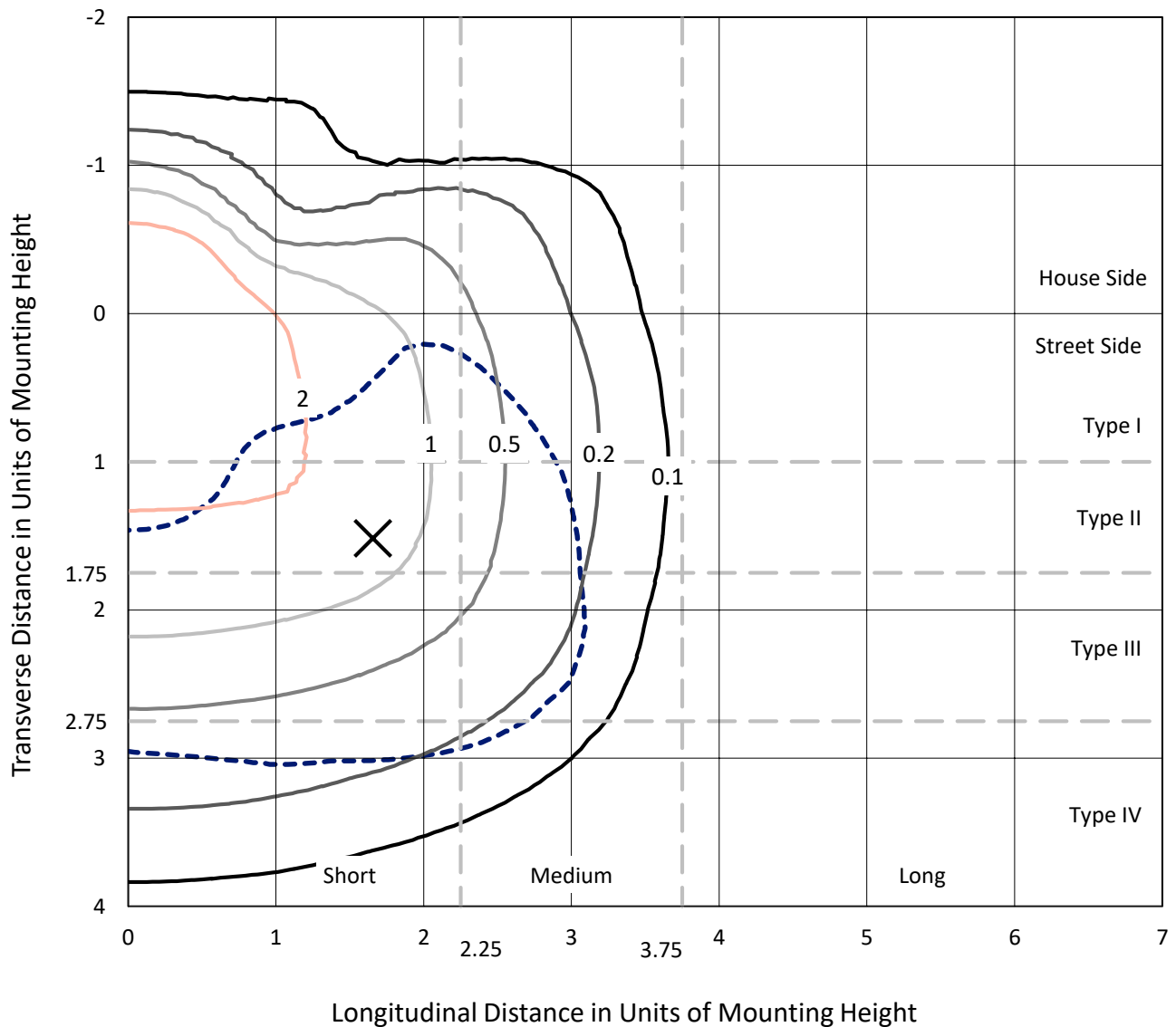


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

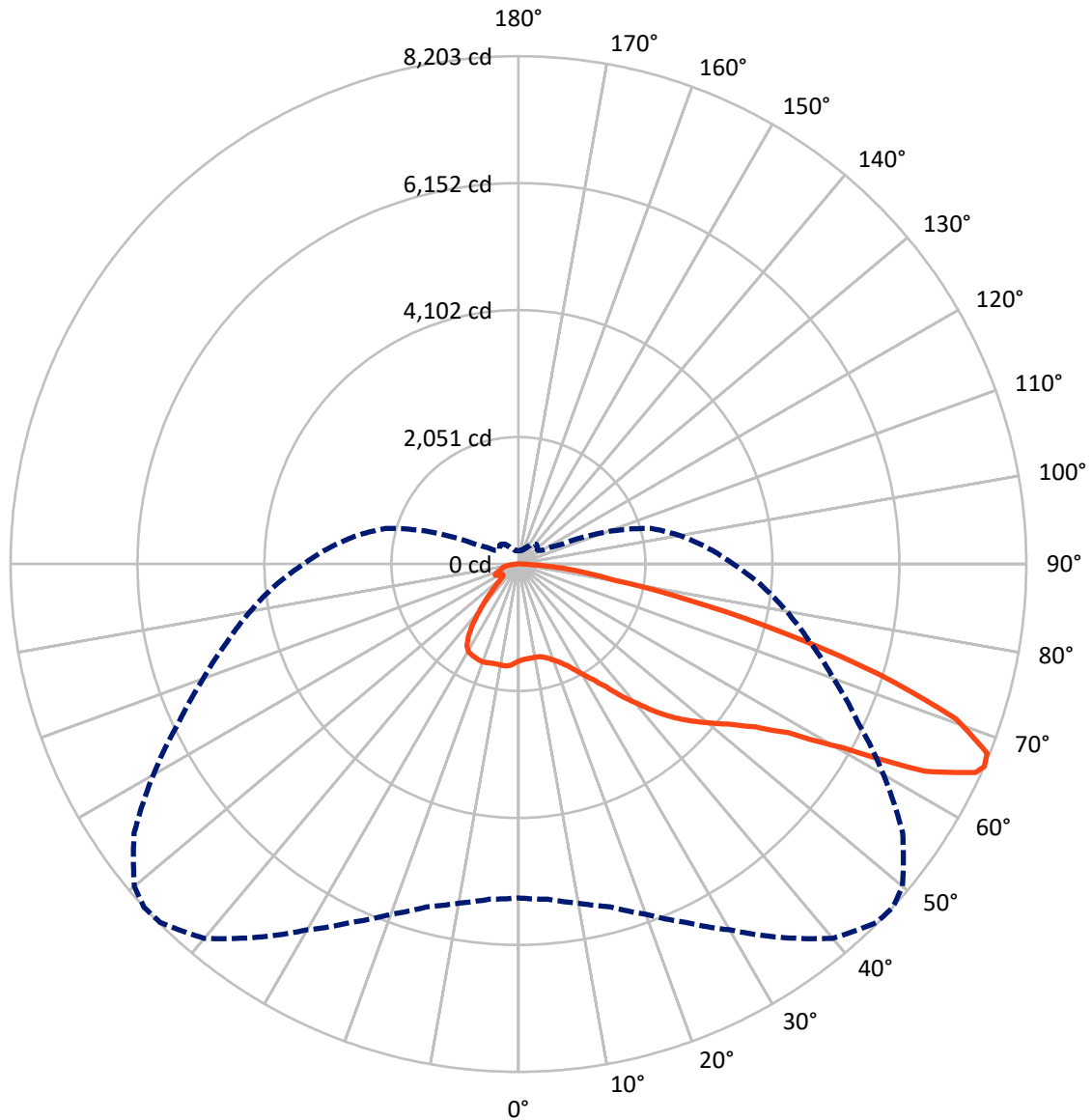


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2531.3	0.0	2531.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9331.9	0.0	9331.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	11863.2	0.0	11863.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	1.3
10°-20°	461.0	3.9
20°-30°	794.1	6.7
30°-40°	1201.4	10.1
40°-50°	1557.2	13.1
50°-60°	2146.8	18.1
60°-70°	3335.5	28.1
70°-80°	1939.6	16.3
80°-90°	275.8	2.3
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°	11863.2	100.0
0°-180°	11863.2	100.0



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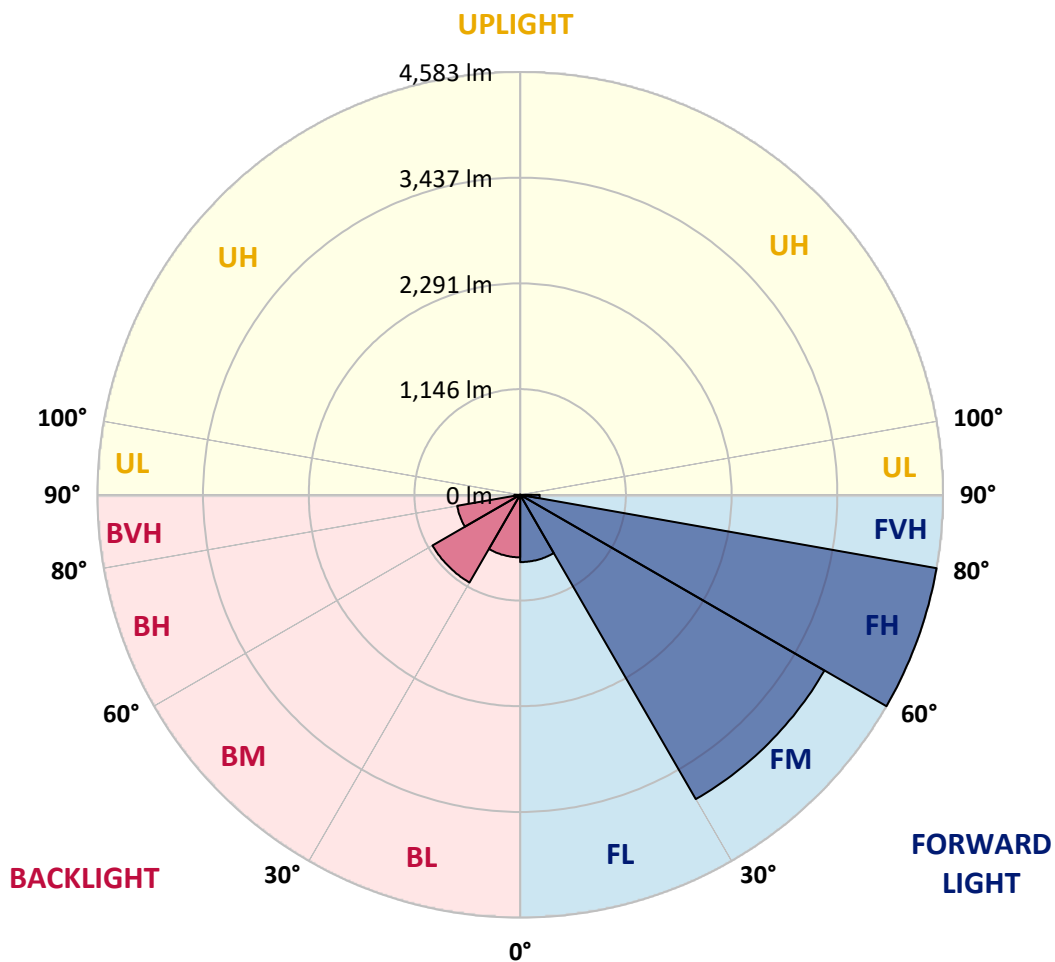
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	729.4	6.1			
FM (30°-60°)	3808.1	32.1			
FH (60°-80°)	4582.8	38.6			G2/5000
FVH (80°-90°)	211.7	1.8			G2/225
BL (0°-30°)	677.6	5.7	B2/1000		
BM (30°-60°)	1097.3	9.2	B2/2500		
BH (60°-80°)	692.3	5.8	B2/1000		G2/1000
BVH (80°-90°)	64.1	0.5			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°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1534.9	1540.1	1536.2	1537.5	1537.5	1538.8	1538.8	1540.1	1538.8	1542.7	1545.4
5°	1507.5	1510.1	1508.8	1511.4	1514.0	1519.2	1517.9	1524.4	1525.8	1529.7	1536.2
7.5°	1496.9	1494.3	1495.6	1499.5	1502.1	1504.8	1507.5	1512.7	1516.6	1525.8	1531.0
10°	1507.5	1506.1	1507.5	1510.1	1510.1	1511.4	1508.8	1514.0	1516.6	1524.4	1529.7
12.5°	1550.6	1550.6	1548.0	1548.0	1545.4	1542.7	1536.2	1532.3	1531.0	1532.3	1534.9
15°	1619.9	1617.3	1612.1	1608.2	1602.9	1593.8	1584.7	1576.8	1571.5	1563.6	1561.0
17.5°	1688.0	1684.1	1678.8	1673.6	1667.1	1657.9	1643.5	1634.3	1619.9	1610.8	1605.6
20°	1766.5	1758.6	1752.1	1745.6	1732.5	1729.9	1715.5	1699.7	1682.8	1661.8	1659.2
22.5°	1868.6	1855.5	1847.6	1843.7	1830.6	1826.7	1803.2	1780.9	1759.9	1732.5	1726.0
25°	1971.9	1958.9	1954.9	1949.7	1940.6	1935.3	1913.0	1888.2	1860.8	1822.8	1814.9
27.5°	2072.7	2074.0	2063.5	2067.5	2064.8	2055.6	2033.4	2008.6	1987.6	1943.2	1934.0
30°	2198.3	2190.4	2185.2	2193.0	2183.9	2185.2	2165.6	2152.5	2118.5	2092.3	2074.0
32.5°	2329.1	2327.8	2335.7	2340.9	2339.6	2337.0	2321.3	2308.2	2278.2	2240.2	2232.3
35°	2508.5	2516.3	2522.8	2546.3	2546.3	2563.4	2547.7	2532.0	2496.7	2450.9	2435.2
37.5°	2630.2	2632.8	2658.9	2690.3	2729.6	2766.2	2776.7	2780.6	2766.2	2732.2	2708.7
40°	2741.3	2746.6	2788.5	2836.9	2894.4	2966.4	3009.6	3029.2	3033.1	3017.4	2966.4
42.5°	2852.6	2860.4	2903.6	2974.3	3054.1	3145.7	3221.6	3270.0	3297.5	3297.5	3267.4
45°	2982.2	2992.6	3039.7	3116.9	3209.8	3325.0	3429.6	3522.5	3567.0	3569.6	3540.9
47.5°	3135.2	3144.4	3199.4	3277.9	3373.3	3489.8	3622.0	3728.0	3810.4	3815.7	3792.1
50°	3332.8	3345.9	3391.6	3462.3	3560.5	3678.3	3810.4	3958.3	4044.7	4065.6	4040.7
52.5°	3594.5	3597.1	3635.1	3700.5	3796.0	3908.6	4048.6	4209.5	4323.4	4340.4	4299.8
55°	3955.7	3951.7	3976.6	4047.3	4119.2	4206.9	4352.1	4532.7	4659.7	4685.8	4643.9
57.5°	4446.4	4442.4	4463.4	4480.4	4615.2	4700.2	4842.8	5015.6	5138.5	5214.5	5142.5
60°	5206.6	5202.6	5236.7	5336.1	5436.9	5561.2	5699.9	5906.6	6079.4	6101.6	6031.0
62.5°	5757.5	5777.2	5851.7	5968.1	6172.3	6415.7	6669.5	6941.7	7296.3	7408.9	7374.8
65°	5565.2	5604.4	5707.8	5884.4	6156.6	6492.9	6890.6	7384.0	7858.9	8124.6	8116.8
66°	5392.4	5435.6	5562.5	5732.6	6020.5	6388.2	6822.6	7360.4	7891.7	8184.8	8203.1
67.5°	5078.4	5126.8	5251.1	5452.6	5732.6	6123.9	6591.0	7176.0	7776.5	8118.1	8166.5
70°	4467.3	4522.3	4612.5	4778.7	5054.8	5404.2	5896.2	6419.6	7049.0	7440.2	7499.1
72.5°	3734.5	3782.9	3883.7	4019.7	4246.2	4466.0	4852.0	5238.0	5688.1	6134.4	6091.2
75°	2681.1	2702.1	2762.2	2910.2	3031.8	3229.4	3539.6	3856.2	4163.7	4367.8	4396.6
77.5°	1393.6	1448.6	1533.6	1697.1	1829.3	2007.3	2208.8	2446.9	2672.0	2859.1	2808.1
80°	912.0	935.6	1011.4	1095.3	1192.1	1305.9	1440.7	1529.7	1558.4	1546.7	1558.4
82.5°	526.0	569.2	670.0	734.1	806.1	845.3	952.6	1054.7	1112.3	1040.3	1014.1
85°	66.7	86.3	272.2	342.8	392.6	451.4	484.2	545.7	509.0	455.4	554.8
87.5°	14.4	13.1	18.3	39.3	40.6	34.0	64.1	68.0	41.9	20.9	26.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1548.0	1549.3	1551.9	1555.8	1558.4	1561.0	1563.6	1567.6	1570.2	1572.8	1578.1
5°	1541.4	1546.7	1551.9	1557.1	1563.6	1574.1	1580.7	1586.0	1591.2	1601.6	1605.6
7.5°	1537.5	1546.7	1554.5	1563.6	1574.1	1583.3	1595.1	1601.6	1609.5	1616.0	1623.9
10°	1534.9	1548.0	1555.8	1568.9	1580.7	1589.9	1602.9	1610.8	1619.9	1627.8	1631.7
12.5°	1540.1	1546.7	1554.5	1567.6	1582.0	1595.1	1609.5	1616.0	1623.9	1630.4	1631.7
15°	1562.3	1562.3	1563.6	1574.1	1588.6	1599.0	1610.8	1617.3	1621.2	1625.2	1625.2
17.5°	1602.9	1593.8	1587.3	1588.6	1597.7	1604.3	1610.8	1610.8	1608.2	1606.9	1604.3
20°	1650.1	1638.2	1625.2	1616.0	1613.4	1608.2	1604.3	1591.2	1580.7	1571.5	1565.0
22.5°	1718.1	1699.7	1681.4	1664.5	1648.8	1629.1	1606.9	1580.7	1555.8	1538.8	1528.4
25°	1801.9	1787.5	1765.2	1739.0	1719.4	1682.8	1654.0	1616.0	1584.7	1562.3	1544.0
27.5°	1920.9	1903.9	1883.0	1859.5	1830.6	1790.1	1754.7	1710.2	1672.3	1639.5	1616.0
30°	2068.8	2046.5	2030.8	2002.1	1982.4	1936.6	1901.3	1846.3	1773.0	1720.7	1688.0
32.5°	2220.6	2195.7	2182.6	2160.4	2138.2	2110.6	2057.0	1971.9	1877.7	1792.7	1736.4
35°	2423.4	2397.2	2373.7	2354.1	2321.3	2270.2	2223.2	2121.1	1991.5	1872.5	1778.2
37.5°	2678.5	2635.4	2576.5	2526.7	2469.2	2395.9	2323.9	2219.3	2071.4	1916.9	1791.4
40°	2950.7	2874.8	2791.1	2698.2	2598.7	2492.8	2410.3	2304.3	2138.2	1954.9	1782.2
42.5°	3234.6	3114.3	2997.8	2867.0	2728.3	2602.6	2495.4	2378.9	2187.8	1965.4	1745.6
45°	3516.0	3381.2	3204.6	3033.1	2857.8	2702.1	2581.7	2450.9	2233.7	1969.3	1697.1
47.5°	3749.0	3610.3	3408.7	3194.1	2986.1	2809.4	2668.1	2526.7	2295.2	1996.8	1685.4
50°	3994.9	3826.1	3602.3	3348.5	3112.9	2915.4	2764.9	2618.3	2381.5	2067.5	1723.4
52.5°	4263.2	4069.5	3807.8	3523.8	3266.1	3044.9	2881.3	2730.9	2491.5	2166.9	1795.3
55°	4590.3	4353.4	4069.5	3749.0	3472.9	3228.1	3047.6	2869.6	2622.2	2284.7	1885.6
57.5°	5090.2	4799.7	4480.4	4115.3	3809.1	3519.9	3304.0	3098.6	2825.1	2460.0	2008.6
60°	5994.4	5684.2	5269.4	4827.1	4467.3	4129.7	3813.0	3557.9	3221.6	2805.5	2280.8
62.5°	7289.8	6877.6	6324.0	5705.2	5234.1	4747.3	4390.1	4010.6	3593.2	3144.4	2601.3
65°	8009.4	7509.6	6769.0	6050.6	5444.8	4916.1	4462.1	4022.4	3559.2	3130.0	2675.9
66°	8098.5	7577.6	6808.2	6051.9	5415.9	4873.0	4395.3	3939.9	3466.3	3056.7	2644.5
67.5°	8061.8	7529.3	6736.2	5938.1	5291.7	4708.0	4214.7	3742.3	3270.0	2887.9	2539.8
70°	7461.2	6956.1	6177.5	5404.2	4790.5	4214.7	3743.7	3279.2	2846.1	2518.9	2262.4
72.5°	6195.9	5764.0	5087.6	4480.4	3998.8	3523.8	3124.8	2681.1	2314.8	2072.7	1920.9
75°	4472.5	4210.8	3594.5	3246.4	2823.8	2508.5	2121.1	1858.1	1595.1	1477.3	1451.2
77.5°	2825.1	2473.1	2081.9	1714.2	1409.3	1168.5	909.4	772.0	643.8	630.7	761.6
80°	1430.2	1287.5	991.8	790.3	664.7	537.8	425.3	321.9	225.0	270.9	324.5
82.5°	936.9	781.2	612.4	503.8	438.3	363.7	282.6	196.3	143.9	162.2	222.4
85°	506.4	431.8	348.1	274.8	222.4	198.9	133.5	94.2	92.9	99.4	126.9
87.5°	36.7	36.7	28.7	26.1	31.4	26.1	23.5	23.5	22.2	23.5	31.4
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1580.7	1584.7	1586.0	1592.5	1596.4	1599.0	1601.6	1601.6	1602.9	1606.9	1608.2
5°	1610.8	1617.3	1625.2	1630.4	1633.0	1640.8	1643.5	1643.5	1646.1	1651.4	1655.3
7.5°	1629.1	1638.2	1646.1	1648.8	1654.0	1656.6	1660.5	1663.2	1663.2	1668.4	1671.0
10°	1635.6	1640.8	1648.8	1648.8	1654.0	1654.0	1657.9	1659.2	1659.2	1664.5	1668.4
12.5°	1635.6	1638.2	1644.8	1644.8	1648.8	1650.1	1655.3	1659.2	1660.5	1667.1	1672.3
15°	1627.8	1630.4	1635.6	1636.9	1646.1	1651.4	1663.2	1671.0	1671.0	1677.5	1680.1
17.5°	1605.6	1612.1	1622.5	1633.0	1650.1	1661.8	1676.2	1682.8	1677.5	1673.6	1669.7
20°	1568.9	1580.7	1605.6	1631.7	1661.8	1677.5	1685.4	1678.8	1660.5	1642.1	1630.4
22.5°	1532.3	1555.8	1597.7	1636.9	1671.0	1681.4	1677.5	1654.0	1623.9	1601.6	1586.0
25°	1549.3	1576.8	1617.3	1652.7	1674.9	1672.3	1656.6	1623.9	1591.2	1562.3	1536.2
27.5°	1619.9	1650.1	1672.3	1684.1	1681.4	1663.2	1638.2	1601.6	1562.3	1524.4	1487.8
30°	1686.7	1702.4	1707.6	1698.4	1677.5	1647.5	1616.0	1574.1	1521.8	1474.7	1432.8
32.5°	1716.8	1701.0	1676.2	1651.4	1617.3	1591.2	1548.0	1502.1	1436.8	1380.5	1338.6
35°	1716.8	1654.0	1591.2	1538.8	1487.8	1455.1	1405.3	1343.8	1283.6	1236.6	1203.8
37.5°	1678.8	1558.4	1455.1	1370.1	1305.9	1270.6	1196.0	1141.0	1090.0	1074.3	1053.4
40°	1609.5	1431.5	1282.3	1171.2	1090.0	1037.7	963.1	925.1	905.5	897.7	893.7
42.5°	1516.6	1290.2	1091.3	953.9	866.2	807.4	757.7	734.1	732.7	731.4	731.4
45°	1417.1	1138.4	905.5	742.0	664.7	612.4	588.8	579.6	587.5	586.2	587.5
47.5°	1355.6	1023.3	735.4	561.4	502.5	468.5	456.7	460.6	467.2	464.6	464.6
50°	1347.8	964.4	621.6	437.0	392.6	375.5	372.9	372.9	376.8	374.2	372.9
52.5°	1376.6	955.3	562.7	375.5	340.2	325.9	323.2	321.9	320.6	312.7	306.2
55°	1426.3	976.2	545.7	359.8	323.2	307.5	303.5	300.9	295.7	285.3	273.5
57.5°	1525.8	1041.6	561.4	367.7	328.5	315.4	311.4	311.4	300.9	283.9	267.0
60°	1765.2	1207.7	625.5	397.8	353.3	340.2	342.8	341.5	325.9	300.9	274.8
62.5°	2074.0	1424.9	709.2	439.6	384.7	382.0	395.2	392.6	366.4	328.5	290.5
65°	2216.7	1527.1	732.7	448.8	391.3	403.0	429.2	426.6	393.9	341.5	293.1
66°	2219.3	1527.1	722.3	440.9	382.0	396.5	422.6	421.3	388.7	336.3	287.9
67.5°	2165.6	1485.1	692.2	425.3	363.7	374.2	397.8	396.5	366.4	323.2	277.4
70°	1964.1	1329.5	615.0	397.8	338.9	333.7	341.5	336.3	316.7	286.6	255.2
72.5°	1682.8	1116.2	536.5	376.8	321.9	300.9	295.7	291.8	276.1	259.1	239.4
75°	1325.5	883.3	471.1	361.1	306.2	278.7	269.6	264.3	253.9	242.0	226.4
77.5°	817.9	632.0	410.9	340.2	294.4	267.0	260.4	252.6	236.8	222.4	210.7
80°	365.1	391.3	337.6	297.0	263.0	238.1	227.7	215.9	200.2	191.1	184.5
82.5°	243.4	252.6	244.7	222.4	198.9	179.3	163.5	163.5	160.9	153.1	150.5
85°	155.7	157.0	151.8	137.4	128.3	116.5	110.0	111.3	116.5	115.2	113.9
87.5°	35.3	35.3	41.9	39.3	45.8	48.4	52.4	56.3	64.1	64.1	68.0
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°	1563.6	1563.6	1563.6	1563.6	1563.6
2.5°	1609.5	1612.1	1614.7	1610.8	1612.1
5°	1655.3	1654.0	1660.5	1656.6	1659.2
7.5°	1669.7	1671.0	1676.2	1676.2	1677.5
10°	1671.0	1673.6	1680.1	1684.1	1686.7
12.5°	1677.5	1682.8	1693.2	1695.8	1695.8
15°	1682.8	1685.4	1691.9	1694.5	1697.1
17.5°	1664.5	1659.2	1661.8	1663.2	1661.8
20°	1618.6	1613.4	1612.1	1606.9	1609.5
22.5°	1568.9	1554.5	1545.4	1534.9	1534.9
25°	1508.8	1486.5	1468.2	1449.9	1453.8
27.5°	1452.5	1423.6	1405.3	1393.6	1391.0
30°	1397.5	1367.5	1350.4	1336.0	1336.0
32.5°	1305.9	1284.9	1262.7	1253.6	1252.3
35°	1179.0	1165.9	1147.5	1143.6	1137.1
37.5°	1036.4	1032.4	1016.8	1015.4	1008.8
40°	887.2	889.8	884.6	882.0	878.1
42.5°	738.1	751.1	748.5	747.2	744.6
45°	595.4	604.6	605.9	609.8	616.3
47.5°	468.5	471.1	473.7	472.4	473.7
50°	366.4	359.8	358.5	354.6	358.5
52.5°	295.7	285.3	280.0	274.8	272.2
55°	260.4	250.0	244.7	242.0	239.4
57.5°	251.3	240.7	232.9	227.7	226.4
60°	253.9	238.1	227.7	221.1	219.8
62.5°	260.4	239.4	225.0	218.5	217.2
65°	259.1	236.8	223.7	215.9	214.6
66°	255.2	234.2	221.1	214.6	213.3
67.5°	248.7	230.3	218.5	213.3	210.7
70°	236.8	225.0	215.9	209.4	206.8
72.5°	226.4	217.2	209.4	202.8	201.5
75°	214.6	206.8	198.9	193.7	192.4
77.5°	200.2	192.4	187.2	183.2	181.9
80°	176.7	171.4	166.1	160.9	160.9
82.5°	146.5	142.6	137.4	133.5	132.2
85°	112.6	112.6	108.7	104.7	103.3
87.5°	66.7	65.4	65.4	61.5	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)