

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: P181664

Luminaire Tested: **ICM-F05-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181664
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-F05-LED-E1-T4
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11603.6 lumens
Efficiency: N/A
Efficacy: 87.0 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

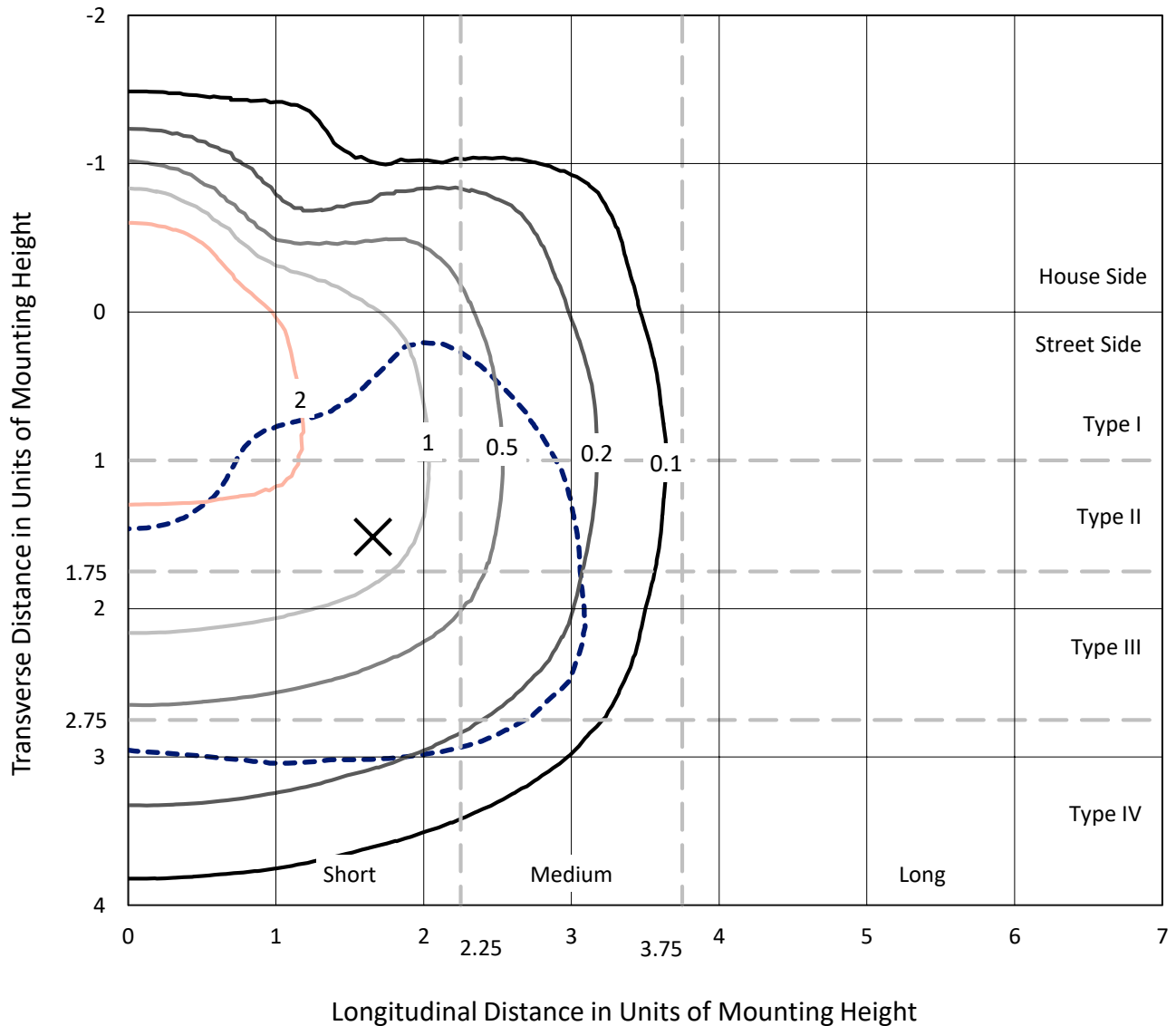
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

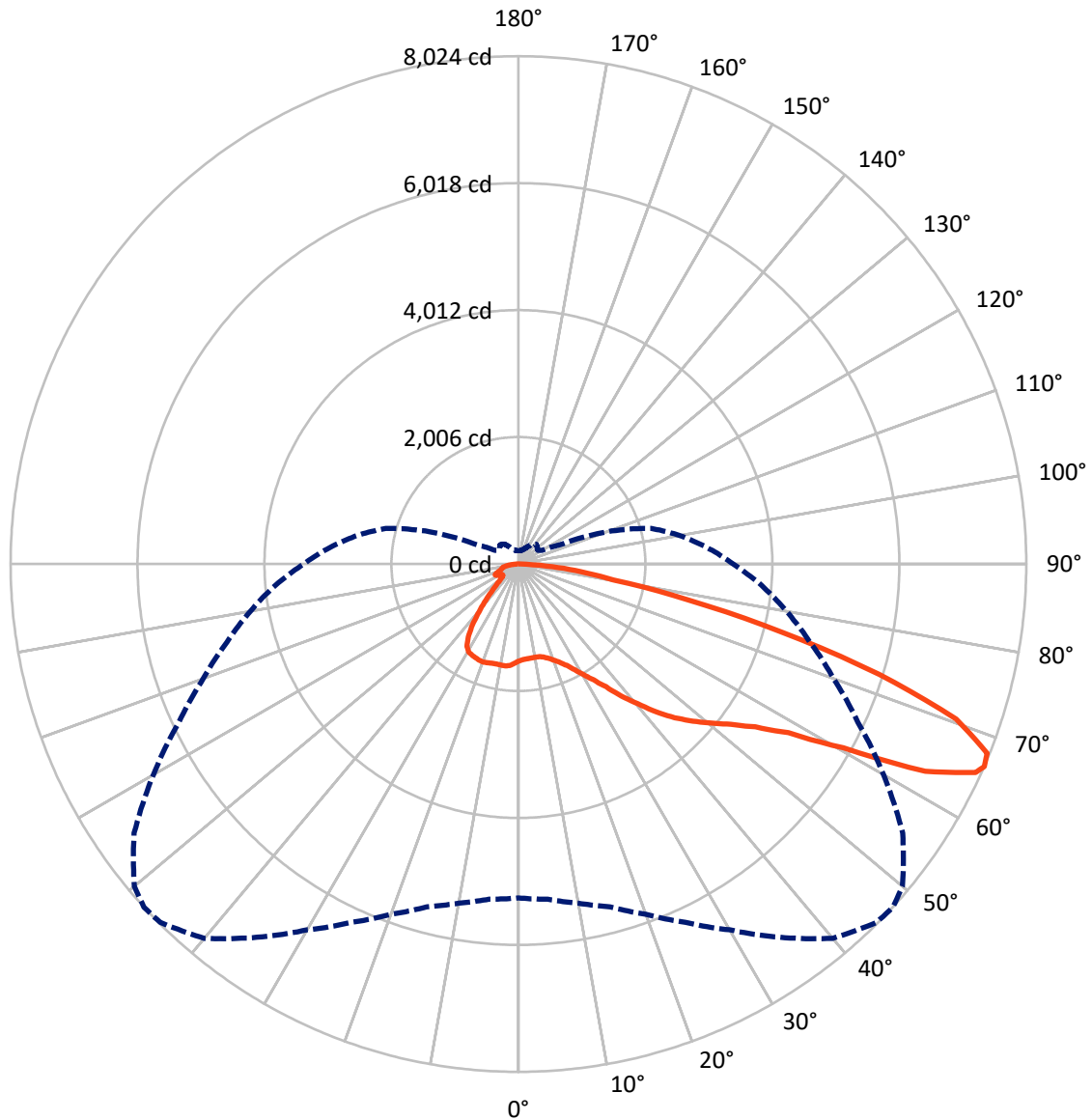
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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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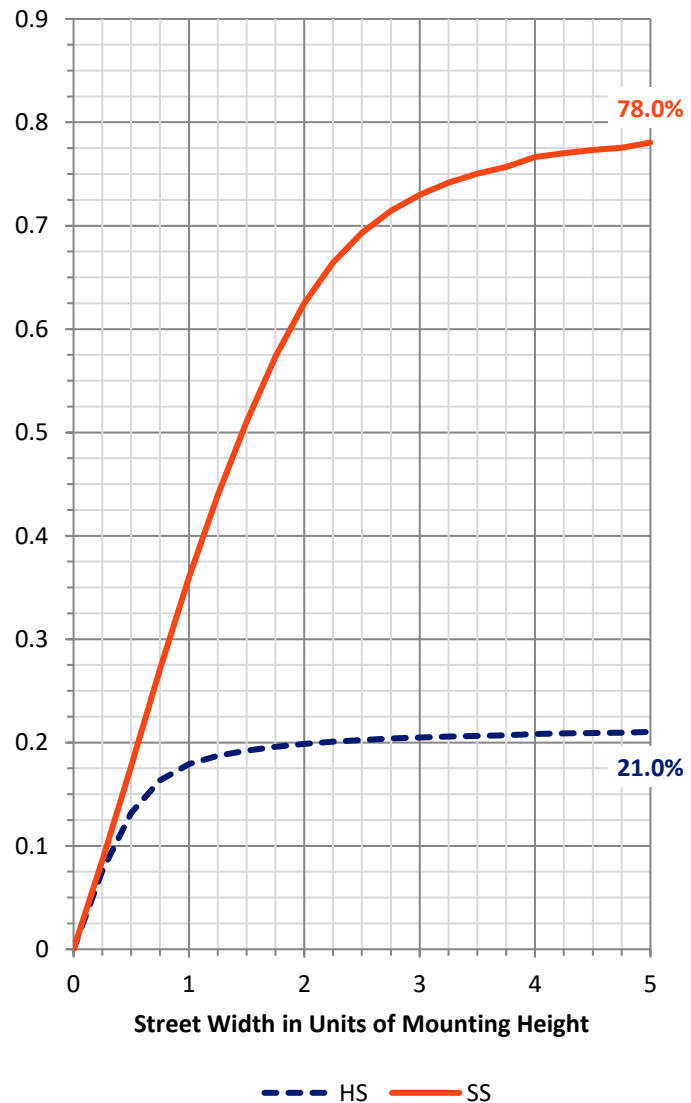
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2475.9	0.0	2475.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9127.7	0.0	9127.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	11603.6	0.0	11603.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.3
10°-20°	450.9	3.9
20°-30°	776.7	6.7
30°-40°	1175.1	10.1
40°-50°	1523.1	13.1
50°-60°	2099.9	18.1
60°-70°	3262.5	28.1
70°-80°	1897.2	16.3
80°-90°	269.8	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°	11603.6	100.0
0°-180°	11603.6	100.0



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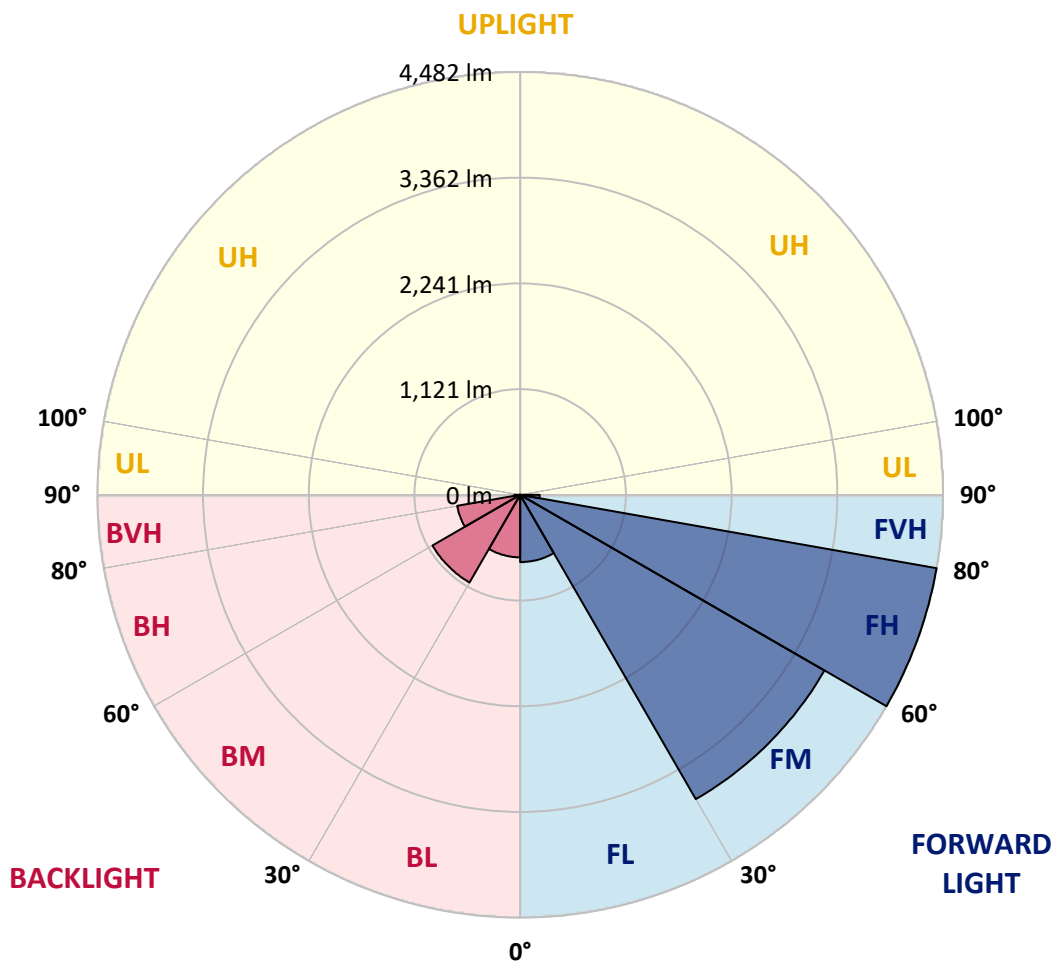
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	713.4	6.1			
FM	(30°-60°)	3724.8	32.1			
FH	(60°-80°)	4482.5	38.6			G2/5000
FVH	(80°-90°)	207.0	1.8			G2/225
BL	(0°-30°)	662.7	5.7	B2/1000		
BM	(30°-60°)	1073.3	9.2	B2/2500		
BH	(60°-80°)	677.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	62.7	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°	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5
2.5°	1501.3	1506.4	1502.6	1503.9	1503.9	1505.1	1505.1	1506.4	1505.1	1509.0	1511.5	1511.5
5°	1474.4	1477.0	1475.7	1478.2	1480.8	1486.0	1484.7	1491.1	1492.4	1496.2	1502.6	1502.6
7.5°	1464.2	1461.6	1462.9	1466.8	1469.3	1471.9	1474.4	1479.5	1483.4	1492.4	1497.5	1497.5
10°	1474.4	1473.1	1474.4	1477.0	1477.0	1478.2	1475.7	1480.8	1483.4	1491.1	1496.2	1496.2
12.5°	1516.7	1516.7	1514.1	1514.1	1511.5	1509.0	1502.6	1498.7	1497.5	1498.7	1501.3	1501.3
15°	1584.5	1582.0	1576.8	1573.0	1567.8	1558.9	1550.0	1542.2	1537.1	1529.5	1526.9	1526.9
17.5°	1651.1	1647.3	1642.1	1636.9	1630.6	1621.6	1607.5	1598.6	1584.5	1575.5	1570.4	1570.4
20°	1727.8	1720.2	1713.8	1707.4	1694.6	1692.0	1678.0	1662.6	1646.0	1625.5	1622.9	1622.9
22.5°	1827.6	1814.9	1807.2	1803.4	1790.5	1786.7	1763.7	1742.0	1721.5	1694.6	1688.2	1688.2
25°	1928.8	1916.0	1912.2	1907.1	1898.1	1892.9	1871.2	1846.9	1820.0	1782.9	1775.2	1775.2
27.5°	2027.4	2028.7	2018.4	2022.2	2019.6	2010.7	1988.9	1964.7	1944.2	1900.7	1891.6	1891.6
30°	2150.2	2142.5	2137.4	2145.1	2136.1	2137.4	2118.2	2105.4	2072.1	2046.5	2028.7	2028.7
32.5°	2278.2	2276.9	2284.6	2289.7	2288.5	2285.9	2270.5	2257.7	2228.3	2191.2	2183.5	2183.5
35°	2453.6	2461.2	2467.6	2490.7	2490.7	2507.3	2491.9	2476.6	2442.1	2397.2	2381.9	2381.9
37.5°	2572.6	2575.2	2600.8	2631.5	2669.9	2705.7	2715.9	2719.7	2705.7	2672.4	2649.4	2649.4
40°	2681.4	2686.5	2727.5	2774.8	2831.1	2901.5	2943.7	2963.0	2966.8	2951.5	2901.5	2901.5
42.5°	2790.2	2797.9	2840.1	2909.2	2987.3	3076.9	3151.1	3198.4	3225.3	3225.3	3195.9	3195.9
45°	2916.9	2927.1	2973.2	3048.7	3139.6	3252.2	3354.6	3445.5	3489.0	3491.6	3463.4	3463.4
47.5°	3066.6	3075.6	3129.3	3206.2	3299.6	3413.5	3542.7	3646.4	3727.0	3732.2	3709.1	3709.1
50°	3259.9	3272.7	3317.5	3386.6	3482.6	3597.8	3727.0	3871.7	3956.1	3976.6	3952.3	3952.3
52.5°	3515.8	3518.4	3555.6	3619.6	3713.0	3823.0	3960.0	4117.4	4228.8	4245.4	4205.7	4205.7
55°	3869.1	3865.2	3889.6	3958.7	4029.1	4114.8	4257.0	4433.5	4557.7	4583.3	4542.4	4542.4
57.5°	4349.0	4345.2	4365.7	4382.4	4514.2	4597.3	4736.9	4905.8	5026.2	5100.4	5030.0	5030.0
60°	5092.7	5088.9	5122.2	5219.4	5318.0	5439.6	5575.2	5777.4	5946.4	5968.1	5899.0	5899.0
62.5°	5631.5	5650.7	5723.7	5837.6	6037.2	6275.3	6523.6	6789.8	7136.7	7246.7	7213.4	7213.4
65°	5443.4	5481.8	5582.9	5755.7	6021.9	6350.8	6739.9	7222.5	7687.0	7946.8	7939.2	7939.2
66°	5274.5	5316.7	5440.8	5607.2	5888.8	6248.4	6673.3	7199.4	7719.0	8005.7	8023.7	8023.7
67.5°	4967.3	5014.6	5136.2	5333.3	5607.2	5989.9	6446.8	7018.9	7606.4	7940.4	7987.8	7987.8
70°	4369.5	4423.3	4511.7	4674.2	4944.2	5286.0	5767.2	6279.1	6894.7	7277.4	7335.0	7335.0
72.5°	3652.8	3700.2	3798.7	3931.8	4153.2	4368.3	4745.8	5123.4	5563.7	6000.1	5957.9	5957.9
75°	2622.5	2643.0	2701.9	2846.4	2965.5	3158.8	3462.1	3771.8	4072.6	4272.3	4300.4	4300.4
77.5°	1363.1	1416.8	1500.0	1660.0	1789.3	1963.4	2160.5	2393.4	2613.5	2796.6	2746.6	2746.6
80°	892.1	915.2	989.4	1071.3	1166.0	1277.3	1409.1	1496.2	1524.4	1512.8	1524.4	1524.4
82.5°	514.5	556.7	655.3	718.1	788.4	826.8	931.7	1031.6	1087.9	1017.5	991.9	991.9
85°	65.3	84.5	266.2	335.4	384.0	441.6	473.6	533.7	497.9	445.4	542.7	542.7
87.5°	14.0	12.8	18.0	38.4	39.7	33.3	62.7	66.5	40.9	20.5	25.6	25.6
90°	0.0	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°	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5
2.5°	1514.1	1515.4	1518.0	1521.8	1524.4	1526.9	1529.5	1533.3	1535.8	1538.4	1543.5
5°	1507.7	1512.8	1518.0	1523.1	1529.5	1539.7	1546.1	1551.3	1556.4	1566.6	1570.4
7.5°	1503.9	1512.8	1520.5	1529.5	1539.7	1548.7	1560.2	1566.6	1574.2	1580.7	1588.4
10°	1501.3	1514.1	1521.8	1534.6	1546.1	1555.1	1567.8	1575.5	1584.5	1592.2	1596.0
12.5°	1506.4	1512.8	1520.5	1533.3	1547.4	1560.2	1574.2	1580.7	1588.4	1594.7	1596.0
15°	1528.2	1528.2	1529.5	1539.7	1553.8	1564.0	1575.5	1582.0	1585.8	1589.6	1589.6
17.5°	1567.8	1558.9	1552.5	1553.8	1562.7	1569.1	1575.5	1575.5	1573.0	1571.7	1569.1
20°	1614.0	1602.4	1589.6	1580.7	1578.1	1573.0	1569.1	1556.4	1546.1	1537.1	1530.7
22.5°	1680.5	1662.6	1644.7	1628.0	1612.7	1593.5	1571.7	1546.1	1521.8	1505.1	1494.9
25°	1762.4	1748.3	1726.6	1700.9	1681.8	1646.0	1617.8	1580.7	1550.0	1528.2	1510.2
27.5°	1878.9	1862.2	1841.8	1818.7	1790.5	1750.9	1716.3	1672.8	1635.7	1603.7	1580.7
30°	2023.5	2001.8	1986.4	1958.2	1939.1	1894.2	1859.6	1806.0	1734.2	1683.1	1651.1
32.5°	2172.0	2147.6	2134.9	2113.1	2091.4	2064.5	2012.0	1928.8	1836.7	1753.4	1698.4
35°	2370.3	2344.8	2321.7	2302.5	2270.5	2220.6	2174.5	2074.7	1948.0	1831.5	1739.4
37.5°	2619.9	2577.7	2520.1	2471.5	2415.2	2343.5	2273.1	2170.7	2026.1	1875.1	1752.2
40°	2886.2	2811.9	2730.0	2639.2	2541.9	2438.2	2357.6	2253.9	2091.4	1912.2	1743.2
42.5°	3163.9	3046.2	2932.2	2804.2	2668.6	2545.7	2440.8	2326.8	2140.0	1922.4	1707.4
45°	3439.1	3307.3	3134.4	2966.8	2795.3	2643.0	2525.2	2397.2	2184.8	1926.2	1660.0
47.5°	3666.9	3531.2	3334.2	3124.2	2920.7	2747.9	2609.7	2471.5	2244.9	1953.1	1648.5
50°	3907.5	3742.4	3523.6	3275.3	3044.9	2851.6	2704.4	2561.0	2329.4	2022.2	1685.6
52.5°	4169.9	3980.5	3724.5	3446.7	3194.6	2978.3	2818.3	2671.2	2436.9	2119.5	1756.0
55°	4489.9	4258.2	3980.5	3666.9	3396.9	3157.5	2980.9	2806.8	2564.9	2234.7	1844.3
57.5°	4978.8	4694.6	4382.4	4025.2	3725.8	3442.9	3231.7	3030.8	2763.3	2406.2	1964.7
60°	5863.2	5559.8	5154.1	4721.5	4369.5	4039.4	3729.6	3480.0	3151.1	2744.1	2230.8
62.5°	7130.3	6727.1	6185.7	5580.3	5119.6	4643.5	4294.1	3922.9	3514.6	3075.6	2544.4
65°	7834.2	7345.3	6620.9	5918.2	5325.6	4808.6	4364.4	3934.3	3481.3	3061.5	2617.4
66°	7921.3	7411.9	6659.3	5919.5	5297.4	4766.4	4299.2	3853.8	3390.4	2989.8	2586.6
67.5°	7885.4	7364.5	6588.9	5808.1	5175.8	4605.1	4122.5	3660.5	3198.4	2824.8	2484.3
70°	7297.9	6803.9	6042.4	5286.0	4685.7	4122.5	3661.8	3207.4	2783.7	2463.8	2212.9
72.5°	6060.3	5637.9	4976.2	4382.4	3911.4	3446.7	3056.4	2622.5	2264.1	2027.4	1878.9
75°	4374.6	4118.7	3515.8	3175.4	2762.0	2453.6	2074.7	1817.4	1560.2	1445.0	1419.4
77.5°	2763.3	2419.0	2036.3	1676.7	1378.4	1143.0	889.5	755.2	629.7	616.9	744.9
80°	1398.9	1259.4	970.1	773.0	650.1	526.0	416.0	314.9	220.2	264.9	317.4
82.5°	916.4	764.1	599.0	492.7	428.7	355.8	276.5	192.0	140.7	158.7	217.6
85°	495.4	422.3	340.5	268.7	217.6	194.5	130.5	92.2	90.9	97.3	124.2
87.5°	35.8	35.8	28.2	25.6	30.7	25.6	23.1	23.1	21.8	23.1	30.7
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°	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5	1529.5
2.5°	1546.1	1550.0	1551.3	1557.6	1561.5	1564.0	1566.6	1566.6	1567.8	1571.7	1573.0
5°	1575.5	1582.0	1589.6	1594.7	1597.3	1604.9	1607.5	1607.5	1610.1	1615.3	1619.1
7.5°	1593.5	1602.4	1610.1	1612.7	1617.8	1620.4	1624.2	1626.7	1626.7	1631.8	1634.4
10°	1599.8	1604.9	1612.7	1612.7	1617.8	1617.8	1621.6	1622.9	1622.9	1628.0	1631.8
12.5°	1599.8	1602.4	1608.8	1608.8	1612.7	1614.0	1619.1	1622.9	1624.2	1630.6	1635.7
15°	1592.2	1594.7	1599.8	1601.1	1610.1	1615.3	1626.7	1634.4	1634.4	1640.8	1643.4
17.5°	1570.4	1576.8	1587.1	1597.3	1614.0	1625.5	1639.5	1646.0	1640.8	1636.9	1633.1
20°	1534.6	1546.1	1570.4	1596.0	1625.5	1640.8	1648.5	1642.1	1624.2	1606.2	1594.7
22.5°	1498.7	1521.8	1562.7	1601.1	1634.4	1644.7	1640.8	1617.8	1588.4	1566.6	1551.3
25°	1515.4	1542.2	1582.0	1616.5	1638.2	1635.7	1620.4	1588.4	1556.4	1528.2	1502.6
27.5°	1584.5	1614.0	1635.7	1647.3	1644.7	1626.7	1602.4	1566.6	1528.2	1491.1	1455.3
30°	1649.8	1665.1	1670.2	1661.3	1640.8	1611.4	1580.7	1539.7	1488.5	1442.4	1401.5
32.5°	1679.2	1663.8	1639.5	1615.3	1582.0	1556.4	1514.1	1469.3	1405.3	1350.2	1309.3
35°	1679.2	1617.8	1556.4	1505.1	1455.3	1423.3	1374.6	1314.4	1255.5	1209.5	1177.5
37.5°	1642.1	1524.4	1423.3	1340.0	1277.3	1242.8	1169.8	1116.1	1066.1	1050.8	1030.3
40°	1574.2	1400.2	1254.3	1145.5	1066.1	1015.0	942.0	904.8	885.7	878.1	874.1
42.5°	1483.4	1262.0	1067.4	933.0	847.3	789.7	741.0	718.1	716.7	715.4	715.4
45°	1386.1	1113.5	885.7	725.7	650.1	599.0	575.9	567.0	574.7	573.4	574.7
47.5°	1326.0	1000.8	719.3	549.1	491.4	458.2	446.7	450.5	456.9	454.3	454.3
50°	1318.3	943.3	607.9	427.4	384.0	367.4	364.7	364.7	368.7	366.0	364.7
52.5°	1346.4	934.3	550.3	367.4	332.7	318.7	316.1	314.9	313.6	305.9	299.5
55°	1395.1	954.8	533.7	352.0	316.1	300.7	296.9	294.4	289.2	279.0	267.5
57.5°	1492.4	1018.8	549.1	359.6	321.2	308.5	304.7	304.7	294.4	277.8	261.1
60°	1726.6	1181.3	611.8	389.1	345.6	332.7	335.4	334.0	318.7	294.4	268.7
62.5°	2028.7	1393.8	693.7	430.0	376.3	373.8	386.5	384.0	358.3	321.2	284.1
65°	2168.1	1493.6	716.7	439.0	382.7	394.2	419.8	417.2	385.2	334.0	286.7
66°	2170.7	1493.6	706.5	431.4	373.8	387.8	413.4	412.1	380.1	328.9	281.6
67.5°	2118.2	1452.7	677.0	416.0	355.8	366.0	389.1	387.8	358.3	316.1	271.4
70°	1921.1	1300.4	601.6	389.1	331.5	326.3	334.0	328.9	309.8	280.3	249.6
72.5°	1646.0	1091.7	524.7	368.7	314.9	294.4	289.2	285.4	270.0	253.4	234.2
75°	1296.6	863.9	460.7	353.2	299.5	272.7	263.6	258.5	248.3	236.7	221.4
77.5°	799.9	618.1	401.9	332.7	288.0	261.1	254.7	247.0	231.6	217.6	206.0
80°	357.1	382.7	330.2	290.5	257.3	232.9	222.7	211.2	195.8	186.9	180.5
82.5°	238.0	247.0	239.4	217.6	194.5	175.3	160.0	160.0	157.4	149.8	147.2
85°	152.3	153.6	148.5	134.4	125.4	114.0	107.5	108.7	114.0	112.7	111.3
87.5°	34.5	34.5	40.9	38.4	44.8	47.3	51.2	55.1	62.7	62.7	66.5
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):

	160°	165°	170°	175°	180°
0°	1529.5	1529.5	1529.5	1529.5	1529.5
2.5°	1574.2	1576.8	1579.4	1575.5	1576.8
5°	1619.1	1617.8	1624.2	1620.4	1622.9
7.5°	1633.1	1634.4	1639.5	1639.5	1640.8
10°	1634.4	1636.9	1643.4	1647.3	1649.8
12.5°	1640.8	1646.0	1656.2	1658.7	1658.7
15°	1646.0	1648.5	1654.9	1657.5	1660.0
17.5°	1628.0	1622.9	1625.5	1626.7	1625.5
20°	1583.3	1578.1	1576.8	1571.7	1574.2
22.5°	1534.6	1520.5	1511.5	1501.3	1501.3
25°	1475.7	1454.0	1436.0	1418.1	1422.0
27.5°	1420.7	1392.6	1374.6	1363.1	1360.6
30°	1366.9	1337.5	1320.8	1306.8	1306.8
32.5°	1277.3	1256.8	1235.1	1226.1	1224.8
35°	1153.2	1140.4	1122.4	1118.6	1112.2
37.5°	1013.7	1009.9	994.5	993.2	986.8
40°	867.7	870.3	865.2	862.6	858.8
42.5°	721.9	734.7	732.1	730.8	728.3
45°	582.3	591.4	592.6	596.5	602.8
47.5°	458.2	460.7	463.4	462.0	463.4
50°	358.3	352.0	350.7	346.9	350.7
52.5°	289.2	279.0	273.9	268.7	266.2
55°	254.7	244.5	239.4	236.7	234.2
57.5°	245.8	235.5	227.8	222.7	221.4
60°	248.3	232.9	222.7	216.3	215.0
62.5°	254.7	234.2	220.2	213.8	212.5
65°	253.4	231.6	218.9	211.2	209.9
66°	249.6	229.1	216.3	209.9	208.7
67.5°	243.2	225.3	213.8	208.7	206.0
70°	231.6	220.2	211.2	204.7	202.2
72.5°	221.4	212.5	204.7	198.4	197.1
75°	209.9	202.2	194.5	189.4	188.2
77.5°	195.8	188.2	183.1	179.2	177.9
80°	172.7	167.6	162.5	157.4	157.4
82.5°	143.3	139.5	134.4	130.5	129.3
85°	110.0	110.0	106.2	102.4	101.1
87.5°	65.3	64.0	64.0	60.2	60.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)