

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: P181648

Luminaire Tested: **ICM-E04-LED-E1-T4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181648
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-E04-LED-E1-T4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10270.5 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 97.2
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

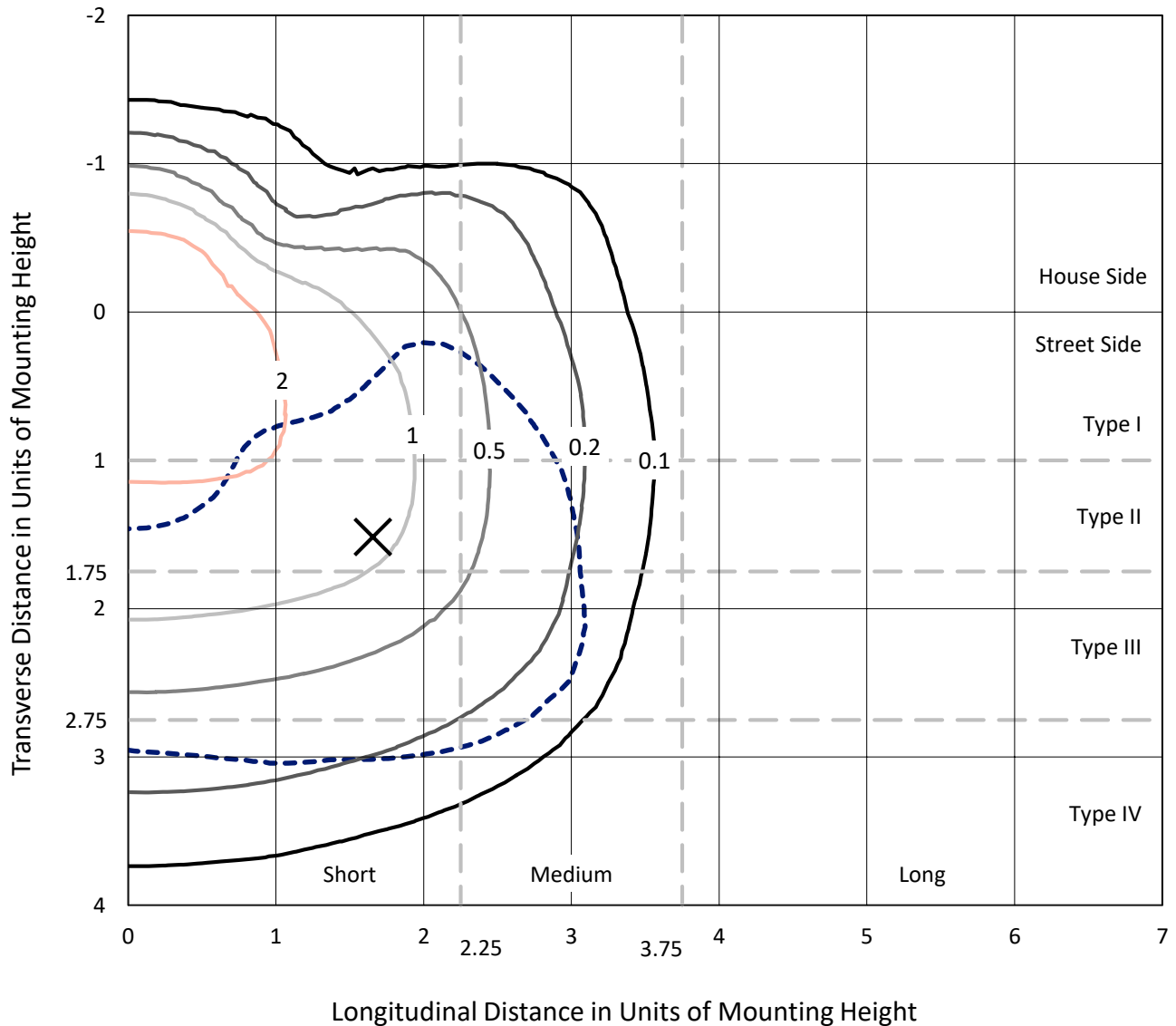


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

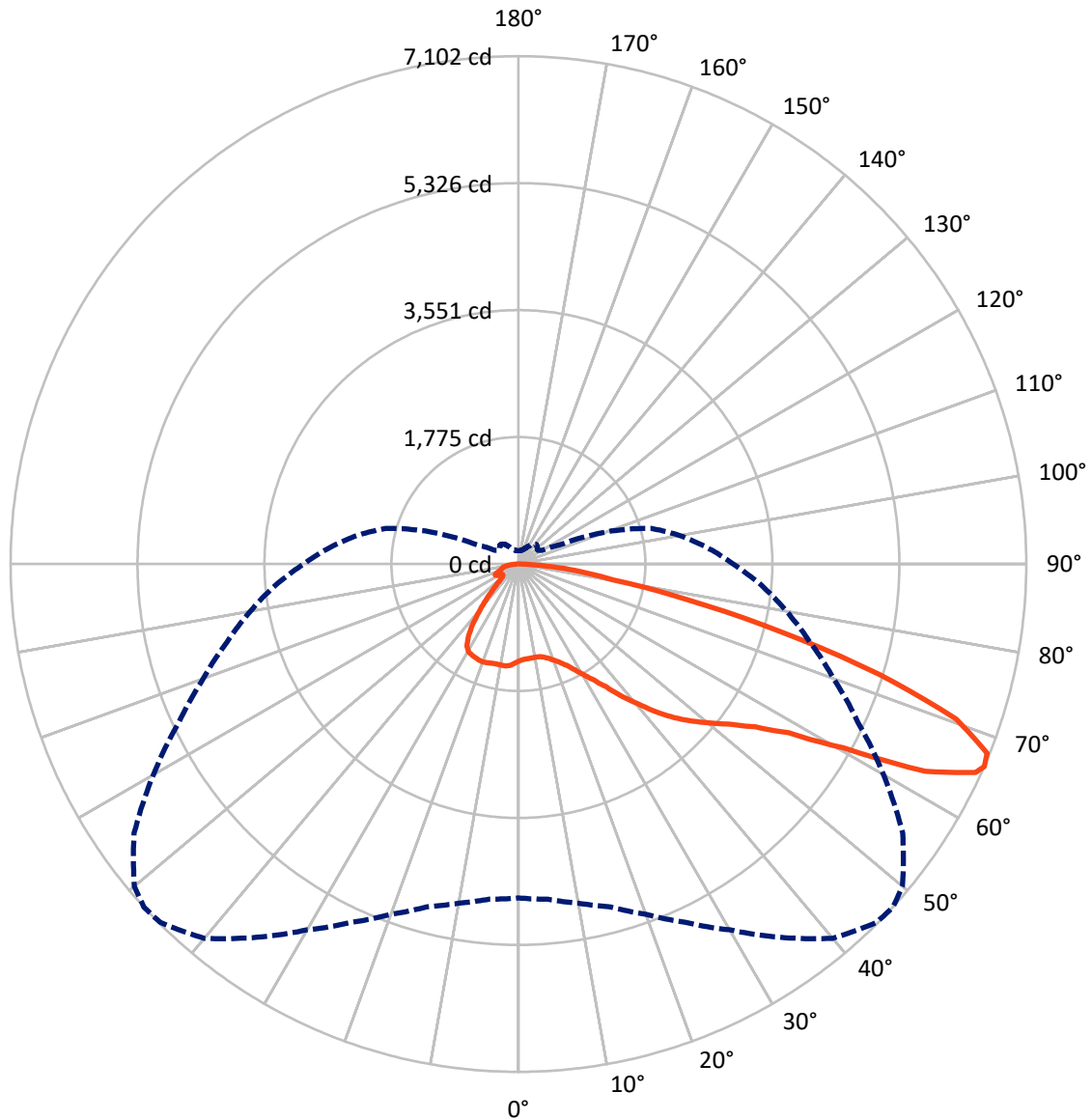


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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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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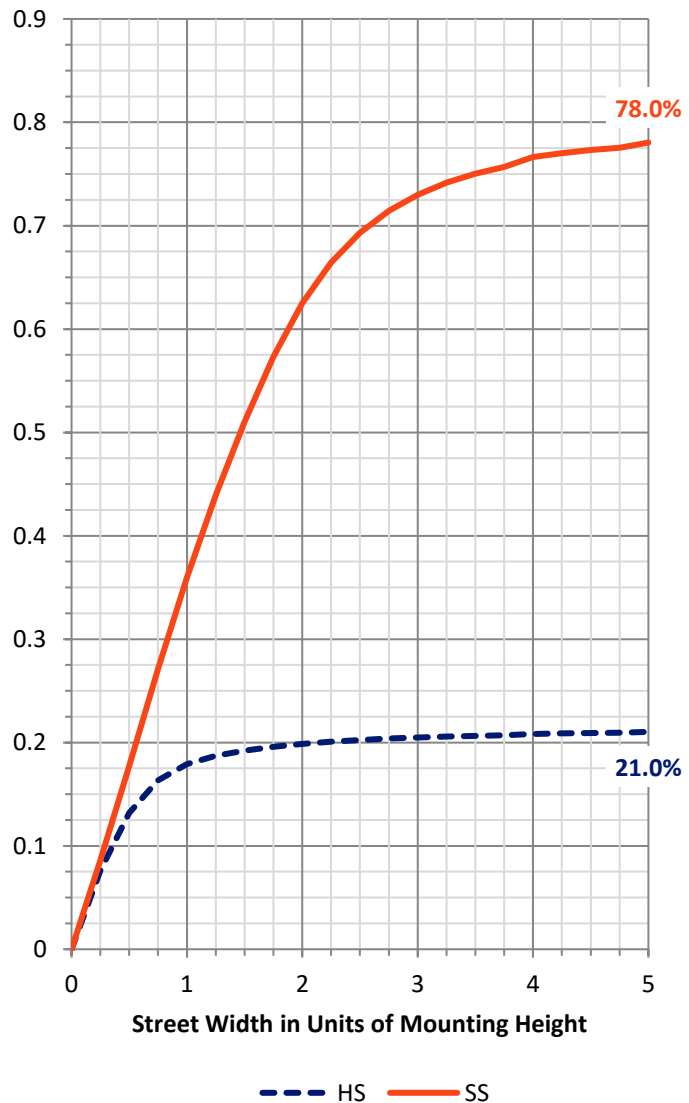
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2191.5	0.0	2191.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	8079.0	0.0	8079.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	10270.5	0.0	10270.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.3
10°-20°	399.1	3.9
20°-30°	687.5	6.7
30°-40°	1040.1	10.1
40°-50°	1348.1	13.1
50°-60°	1858.6	18.1
60°-70°	2887.7	28.1
70°-80°	1679.2	16.3
80°-90°	238.8	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°	10270.5	100.0
0°-180°	10270.5	100.0

Coefficient of Utilization



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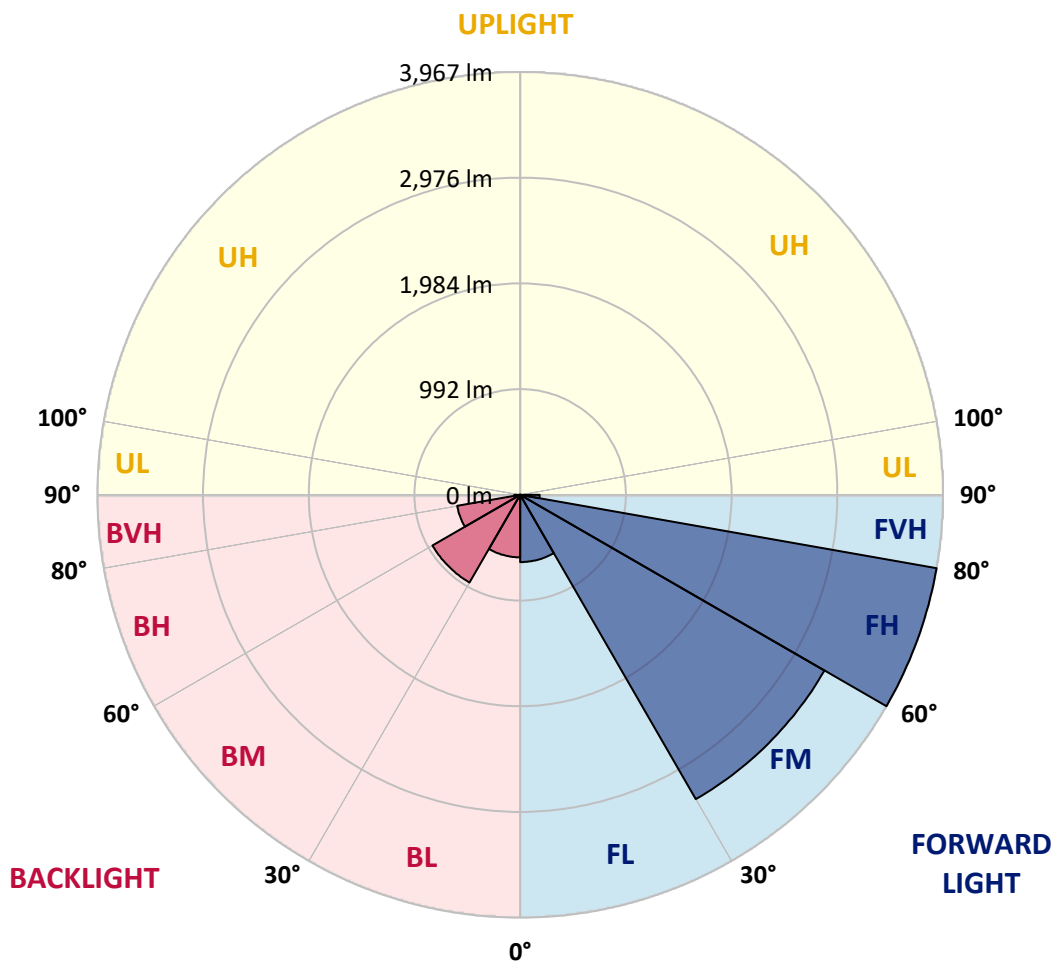
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	631.4	6.1			
FM	(30°-60°)	3296.8	32.1			
FH	(60°-80°)	3967.5	38.6			G2/5000
FVH	(80°-90°)	183.3	1.8			G2/225
BL	(0°-30°)	586.6	5.7	B2/1000		
BM	(30°-60°)	950.0	9.2	B1/1000		
BH	(60°-80°)	599.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	55.5	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°	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1328.8	1333.4	1330.0	1331.1	1331.1	1332.2	1332.2	1333.4	1332.2	1335.6	1337.9	1337.9
5°	1305.0	1307.3	1306.1	1308.5	1310.7	1315.3	1314.1	1319.7	1320.9	1324.3	1330.0	1330.0
7.5°	1296.0	1293.7	1294.8	1298.2	1300.5	1302.8	1305.0	1309.6	1312.9	1320.9	1325.4	1325.4
10°	1305.0	1303.9	1305.0	1307.3	1307.3	1308.5	1306.1	1310.7	1312.9	1319.7	1324.3	1324.3
12.5°	1342.4	1342.4	1340.2	1340.2	1337.9	1335.6	1330.0	1326.5	1325.4	1326.5	1328.8	1328.8
15°	1402.4	1400.2	1395.6	1392.3	1387.7	1379.8	1371.9	1365.0	1360.6	1353.8	1351.5	1351.5
17.5°	1461.4	1458.0	1453.4	1448.9	1443.3	1435.4	1422.9	1414.9	1402.4	1394.5	1390.0	1390.0
20°	1529.3	1522.5	1516.8	1511.2	1499.9	1497.6	1485.1	1471.5	1456.8	1438.7	1436.5	1436.5
22.5°	1617.7	1606.3	1599.5	1596.2	1584.8	1581.4	1561.0	1541.8	1523.6	1499.9	1494.2	1494.2
25°	1707.2	1695.8	1692.5	1687.9	1680.0	1675.5	1656.2	1634.7	1610.9	1578.1	1571.3	1571.3
27.5°	1794.4	1795.5	1786.5	1789.9	1787.6	1779.7	1760.5	1738.9	1720.8	1682.2	1674.3	1674.3
30°	1903.2	1896.4	1891.8	1898.6	1890.7	1891.8	1874.9	1863.5	1834.1	1811.5	1795.5	1795.5
32.5°	2016.5	2015.4	2022.2	2026.6	2025.5	2023.3	2009.7	1998.3	1972.3	1939.5	1932.7	1932.7
35°	2171.6	2178.4	2184.1	2204.5	2204.5	2219.3	2205.7	2192.0	2161.5	2121.8	2108.2	2108.2
37.5°	2277.0	2279.3	2302.0	2329.1	2363.1	2394.8	2403.9	2407.3	2394.8	2365.4	2344.9	2344.9
40°	2373.3	2377.9	2414.1	2456.0	2505.9	2568.2	2605.5	2622.5	2626.0	2612.3	2568.2	2568.2
42.5°	2469.6	2476.4	2513.8	2575.0	2644.0	2723.4	2789.0	2831.0	2854.8	2854.8	2828.7	2828.7
45°	2581.8	2590.8	2631.6	2698.4	2778.9	2878.5	2969.2	3049.6	3088.1	3090.4	3065.5	3065.5
47.5°	2714.2	2722.2	2769.8	2837.8	2920.5	3021.3	3135.7	3227.5	3298.8	3303.4	3283.0	3283.0
50°	2885.3	2896.7	2936.3	2997.5	3082.4	3184.4	3298.8	3426.8	3501.6	3519.7	3498.3	3498.3
52.5°	3111.9	3114.2	3147.0	3203.6	3286.3	3383.8	3505.0	3644.4	3742.9	3757.6	3722.5	3722.5
55°	3424.6	3421.2	3442.7	3503.9	3566.2	3642.1	3767.8	3924.2	4034.1	4056.7	4020.5	4020.5
57.5°	3849.4	3846.0	3864.1	3878.8	3995.6	4069.1	4192.7	4342.2	4448.7	4514.4	4452.1	4452.1
60°	4507.6	4504.2	4533.6	4619.7	4707.0	4814.6	4934.6	5113.7	5263.2	5282.5	5221.2	5221.2
62.5°	4984.5	5001.5	5066.1	5166.9	5343.7	5554.4	5774.1	6009.7	6316.8	6414.2	6384.7	6384.7
65°	4818.0	4851.9	4941.4	5094.4	5330.1	5621.2	5965.5	6392.6	6803.9	7033.8	7027.0	7027.0
66°	4668.5	4705.8	4815.8	4963.0	5212.2	5530.5	5906.6	6372.2	6832.2	7085.9	7101.8	7101.8
67.5°	4396.6	4438.4	4546.1	4720.6	4963.0	5301.7	5706.2	6212.5	6732.5	7028.1	7070.1	7070.1
70°	3867.6	3915.1	3993.2	4137.1	4376.2	4678.6	5104.6	5557.7	6102.6	6441.3	6492.3	6492.3
72.5°	3233.1	3275.1	3362.3	3480.1	3676.1	3866.4	4200.6	4534.8	4924.5	5310.7	5273.4	5273.4
75°	2321.2	2339.4	2391.5	2519.5	2624.8	2795.8	3064.4	3338.5	3604.7	3781.4	3806.3	3806.3
77.5°	1206.5	1254.1	1327.7	1469.3	1583.7	1737.8	1912.2	2118.4	2313.2	2475.3	2431.1	2431.1
80°	789.6	810.0	875.7	948.2	1032.0	1130.6	1247.3	1324.3	1349.2	1339.0	1349.2	1349.2
82.5°	455.4	492.7	580.0	635.5	697.9	731.8	824.7	913.0	962.9	900.7	878.0	878.0
85°	57.8	74.8	235.6	296.8	339.8	390.8	419.2	472.4	440.7	394.2	480.3	480.3
87.5°	12.5	11.3	15.8	34.0	35.2	29.5	55.5	58.9	36.3	18.1	22.7	22.7
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°	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1340.2	1341.3	1343.5	1347.0	1349.2	1351.5	1353.8	1357.1	1359.5	1361.7	1366.2
5°	1334.5	1339.0	1343.5	1348.1	1353.8	1362.8	1368.5	1373.0	1377.5	1386.6	1390.0
7.5°	1331.1	1339.0	1345.8	1353.8	1362.8	1370.7	1380.9	1386.6	1393.4	1399.1	1405.9
10°	1328.8	1340.2	1347.0	1358.2	1368.5	1376.4	1387.7	1394.5	1402.4	1409.2	1412.7
12.5°	1333.4	1339.0	1345.8	1357.1	1369.6	1380.9	1393.4	1399.1	1405.9	1411.5	1412.7
15°	1352.7	1352.7	1353.8	1362.8	1375.3	1384.4	1394.5	1400.2	1403.6	1407.0	1407.0
17.5°	1387.7	1379.8	1374.1	1375.3	1383.2	1388.8	1394.5	1394.5	1392.3	1391.2	1388.8
20°	1428.5	1418.3	1407.0	1399.1	1396.8	1392.3	1388.8	1377.5	1368.5	1360.6	1354.9
22.5°	1487.5	1471.5	1455.7	1440.9	1427.4	1410.4	1391.2	1368.5	1347.0	1332.2	1323.2
25°	1559.9	1547.5	1528.2	1505.6	1488.6	1456.8	1431.9	1399.1	1371.9	1352.7	1336.8
27.5°	1663.0	1648.3	1630.1	1609.8	1584.8	1549.8	1519.2	1480.7	1447.7	1419.5	1399.1
30°	1791.0	1771.7	1758.2	1733.2	1716.3	1676.6	1646.1	1598.4	1535.0	1489.7	1461.4
32.5°	1922.4	1900.9	1889.6	1870.3	1851.1	1827.3	1780.8	1707.2	1625.6	1552.0	1503.3
35°	2098.1	2075.4	2055.0	2038.0	2009.7	1965.5	1924.7	1836.4	1724.2	1621.1	1539.5
37.5°	2318.9	2281.6	2230.5	2187.5	2137.7	2074.2	2011.9	1921.3	1793.3	1659.6	1550.9
40°	2554.5	2488.9	2416.4	2335.9	2249.9	2158.1	2086.7	1994.9	1851.1	1692.5	1542.9
42.5°	2800.4	2696.2	2595.4	2482.1	2362.0	2253.2	2160.3	2059.5	1894.2	1701.5	1511.2
45°	3043.9	2927.3	2774.3	2626.0	2474.2	2339.4	2235.1	2121.8	1933.8	1704.9	1469.3
47.5°	3245.6	3125.5	2951.1	2765.3	2585.1	2432.2	2309.9	2187.5	1987.0	1728.8	1459.1
50°	3458.5	3312.4	3118.7	2899.0	2695.0	2524.0	2393.7	2266.8	2061.8	1789.9	1491.9
52.5°	3690.8	3523.2	3296.6	3050.7	2827.6	2636.1	2494.5	2364.2	2156.9	1876.0	1554.2
55°	3974.0	3769.0	3523.2	3245.6	3006.5	2794.7	2638.4	2484.3	2270.2	1978.0	1632.5
57.5°	4406.7	4155.3	3878.8	3562.8	3297.7	3047.4	2860.4	2682.6	2445.8	2129.8	1738.9
60°	5189.5	4921.1	4562.0	4179.1	3867.6	3575.3	3301.1	3080.2	2789.0	2428.9	1974.5
62.5°	6311.1	5954.3	5475.0	4939.2	4531.4	4110.0	3800.7	3472.2	3110.8	2722.2	2252.1
65°	6934.2	6501.4	5860.2	5238.3	4713.8	4256.1	3863.0	3482.3	3081.3	2709.8	2316.7
66°	7011.2	6560.3	5894.2	5239.4	4688.9	4218.7	3805.2	3411.0	3000.9	2646.3	2289.5
67.5°	6979.5	6518.4	5831.8	5140.9	4581.2	4075.9	3648.9	3239.9	2831.0	2500.2	2198.9
70°	6459.5	6022.2	5348.1	4678.6	4147.4	3648.9	3241.0	2838.9	2463.9	2180.8	1958.7
72.5°	5364.0	4990.2	4404.5	3878.8	3462.0	3050.7	2705.2	2321.2	2004.0	1794.4	1663.0
75°	3872.0	3645.5	3111.9	2810.6	2444.7	2171.6	1836.4	1608.7	1380.9	1279.0	1256.3
77.5°	2445.8	2141.0	1802.3	1484.0	1220.1	1011.6	787.4	668.4	557.4	546.0	659.4
80°	1238.2	1114.7	858.7	684.3	575.4	465.6	368.2	278.7	194.9	234.5	280.9
82.5°	811.1	676.3	530.1	436.2	379.5	314.9	244.7	170.0	124.7	140.5	192.6
85°	438.4	373.9	301.3	237.9	192.6	172.2	115.5	81.6	80.5	86.1	109.9
87.5°	31.7	31.7	24.9	22.7	27.2	22.7	20.4	20.4	19.3	20.4	27.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1368.5	1371.9	1373.0	1378.7	1382.1	1384.4	1386.6	1386.6	1387.7	1391.2	1392.3
5°	1394.5	1400.2	1407.0	1411.5	1413.8	1420.6	1422.9	1422.9	1425.1	1429.7	1433.0
7.5°	1410.4	1418.3	1425.1	1427.4	1431.9	1434.1	1437.6	1439.8	1439.8	1444.4	1446.6
10°	1416.1	1420.6	1427.4	1427.4	1431.9	1431.9	1435.4	1436.5	1436.5	1440.9	1444.4
12.5°	1416.1	1418.3	1424.0	1424.0	1427.4	1428.5	1433.0	1436.5	1437.6	1443.3	1447.7
15°	1409.2	1411.5	1416.1	1417.2	1425.1	1429.7	1439.8	1446.6	1446.6	1452.3	1454.6
17.5°	1390.0	1395.6	1404.8	1413.8	1428.5	1438.7	1451.2	1456.8	1452.3	1448.9	1445.5
20°	1358.2	1368.5	1390.0	1412.7	1438.7	1452.3	1459.1	1453.4	1437.6	1421.7	1411.5
22.5°	1326.5	1347.0	1383.2	1417.2	1446.6	1455.7	1452.3	1431.9	1405.9	1386.6	1373.0
25°	1341.3	1365.0	1400.2	1430.8	1450.1	1447.7	1434.1	1405.9	1377.5	1352.7	1330.0
27.5°	1402.4	1428.5	1447.7	1458.0	1455.7	1439.8	1418.3	1386.6	1352.7	1319.7	1288.0
30°	1460.2	1473.9	1478.3	1470.4	1452.3	1426.2	1399.1	1362.8	1317.5	1276.8	1240.5
32.5°	1486.3	1472.7	1451.2	1429.7	1400.2	1377.5	1340.2	1300.5	1243.8	1195.2	1158.9
35°	1486.3	1431.9	1377.5	1332.2	1288.0	1259.7	1216.7	1163.4	1111.4	1070.5	1042.2
37.5°	1453.4	1349.2	1259.7	1186.1	1130.6	1100.0	1035.4	987.8	943.6	930.1	911.9
40°	1393.4	1239.4	1110.1	1013.9	943.6	898.3	833.8	800.9	783.9	777.1	773.8
42.5°	1312.9	1117.0	944.7	825.9	750.0	699.0	655.9	635.5	634.4	633.3	633.3
45°	1226.9	985.6	783.9	642.3	575.4	530.1	509.8	501.9	508.7	507.5	508.7
47.5°	1173.6	885.9	636.7	486.0	435.0	405.6	395.4	398.8	404.5	402.1	402.1
50°	1166.8	834.9	538.1	378.3	339.8	325.1	322.9	322.9	326.2	324.0	322.9
52.5°	1191.7	827.0	487.2	325.1	294.5	282.0	279.8	278.7	277.6	270.8	265.1
55°	1234.8	845.1	472.4	311.5	279.8	266.2	262.8	260.6	256.0	247.0	236.7
57.5°	1320.9	901.8	486.0	318.3	284.4	273.0	269.6	269.6	260.6	245.9	231.1
60°	1528.2	1045.6	541.5	344.4	305.9	294.5	296.8	295.6	282.0	260.6	237.9
62.5°	1795.5	1233.7	614.0	380.7	333.0	330.8	342.1	339.8	317.2	284.4	251.5
65°	1919.1	1322.1	634.4	388.6	338.7	348.9	371.5	369.3	341.0	295.6	253.8
66°	1921.3	1322.1	625.3	381.8	330.8	343.3	365.9	364.7	336.5	291.2	249.2
67.5°	1874.9	1285.8	599.3	368.2	314.9	324.0	344.4	343.3	317.2	279.8	240.2
70°	1700.4	1151.0	532.5	344.4	293.4	288.8	295.6	291.2	274.1	248.1	220.9
72.5°	1456.8	966.3	464.5	326.2	278.7	260.6	256.0	252.7	239.1	224.3	207.4
75°	1147.5	764.7	407.8	312.7	265.1	241.3	233.4	228.8	219.8	209.6	196.0
77.5°	708.0	547.2	355.7	294.5	254.9	231.1	225.4	218.6	205.0	192.6	182.4
80°	316.1	338.7	292.3	257.1	227.7	206.1	197.1	186.9	173.3	165.4	159.7
82.5°	210.7	218.6	211.8	192.6	172.2	155.2	141.6	141.6	139.3	132.6	130.2
85°	134.8	135.9	131.4	119.0	111.0	100.8	95.2	96.3	100.8	99.7	98.5
87.5°	30.6	30.6	36.3	34.0	39.6	42.0	45.3	48.7	55.5	55.5	58.9
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):

	160°	165°	170°	175°	180°
0°	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1393.4	1395.6	1398.0	1394.5	1395.6
5°	1433.0	1431.9	1437.6	1434.1	1436.5
7.5°	1445.5	1446.6	1451.2	1451.2	1452.3
10°	1446.6	1448.9	1454.6	1458.0	1460.2
12.5°	1452.3	1456.8	1465.9	1468.2	1468.2
15°	1456.8	1459.1	1464.8	1467.1	1469.3
17.5°	1440.9	1436.5	1438.7	1439.8	1438.7
20°	1401.3	1396.8	1395.6	1391.2	1393.4
22.5°	1358.2	1345.8	1337.9	1328.8	1328.8
25°	1306.1	1286.9	1271.1	1255.2	1258.6
27.5°	1257.5	1232.6	1216.7	1206.5	1204.2
30°	1209.9	1183.8	1169.1	1156.7	1156.7
32.5°	1130.6	1112.5	1093.2	1085.3	1084.1
35°	1020.7	1009.4	993.5	990.1	984.5
37.5°	897.2	893.8	880.2	879.1	873.4
40°	768.1	770.3	765.8	763.5	760.1
42.5°	638.9	650.2	648.0	646.9	644.6
45°	515.4	523.4	524.5	527.9	533.6
47.5°	405.6	407.8	410.0	408.9	410.0
50°	317.2	311.5	310.4	307.0	310.4
52.5°	256.0	247.0	242.4	237.9	235.6
55°	225.4	216.4	211.8	209.6	207.4
57.5°	217.5	208.5	201.7	197.1	196.0
60°	219.8	206.1	197.1	191.4	190.3
62.5°	225.4	207.4	194.9	189.2	188.1
65°	224.3	205.0	193.7	186.9	185.8
66°	220.9	202.8	191.4	185.8	184.7
67.5°	215.3	199.4	189.2	184.7	182.4
70°	205.0	194.9	186.9	181.2	179.0
72.5°	196.0	188.1	181.2	175.6	174.4
75°	185.8	179.0	172.2	167.6	166.5
77.5°	173.3	166.5	162.0	158.6	157.5
80°	152.9	148.4	143.9	139.3	139.3
82.5°	126.9	123.4	119.0	115.5	114.4
85°	97.4	97.4	94.0	90.6	89.5
87.5°	57.8	56.7	56.7	53.2	53.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)