

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: P181304

Luminaire Tested: **ICS-F03-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181304
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F03-LED-E1-T2
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6829.4 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

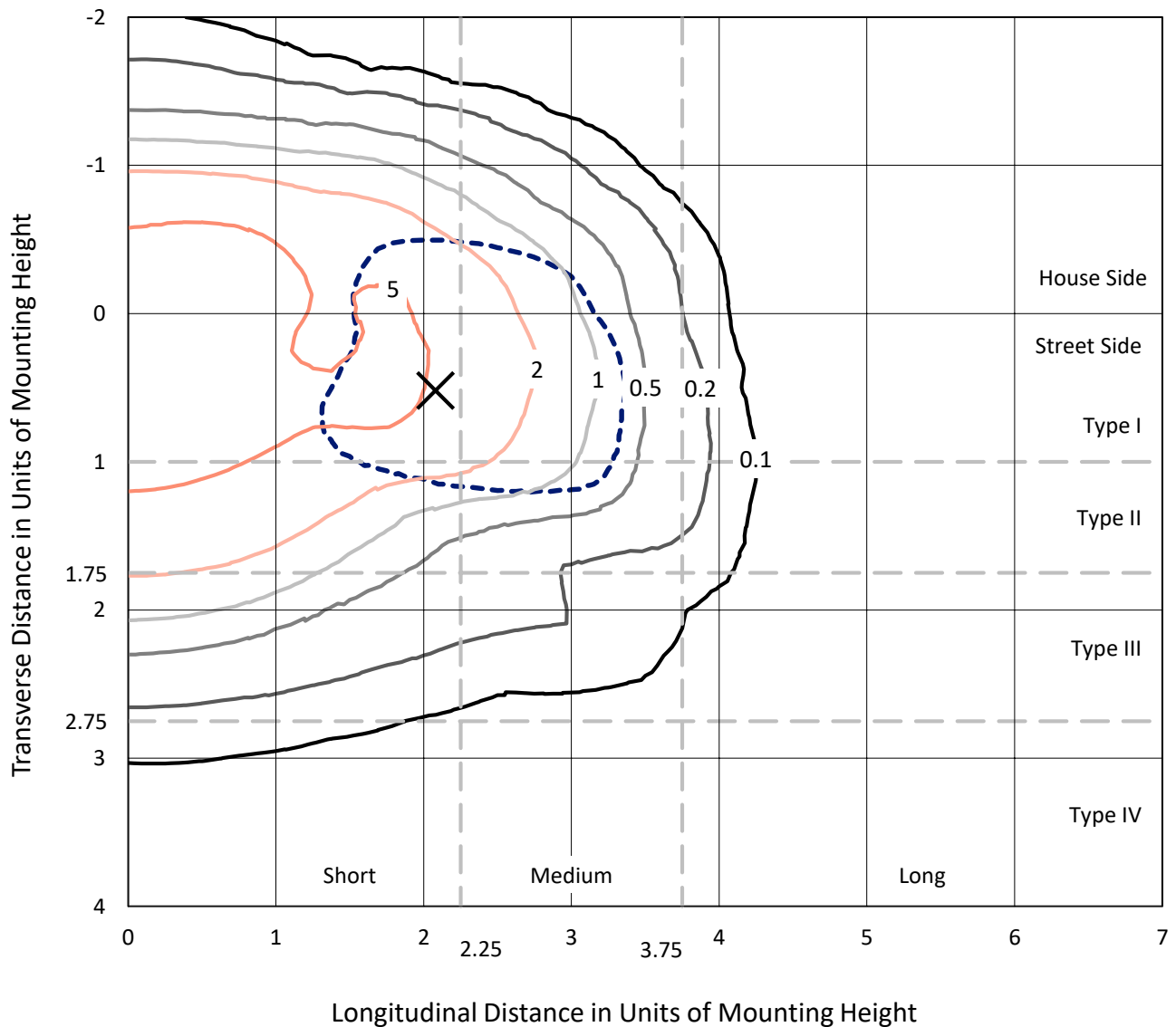
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

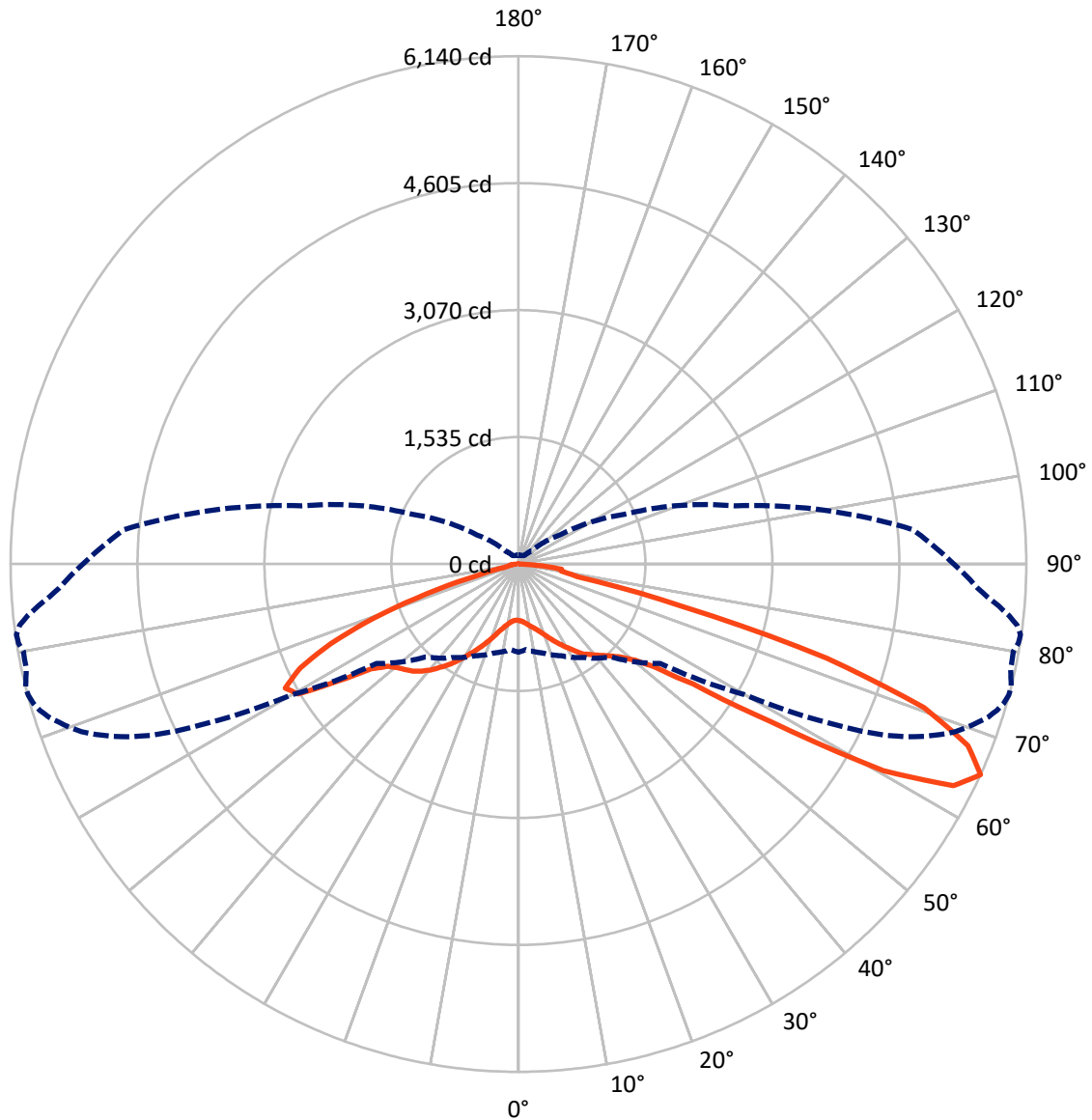
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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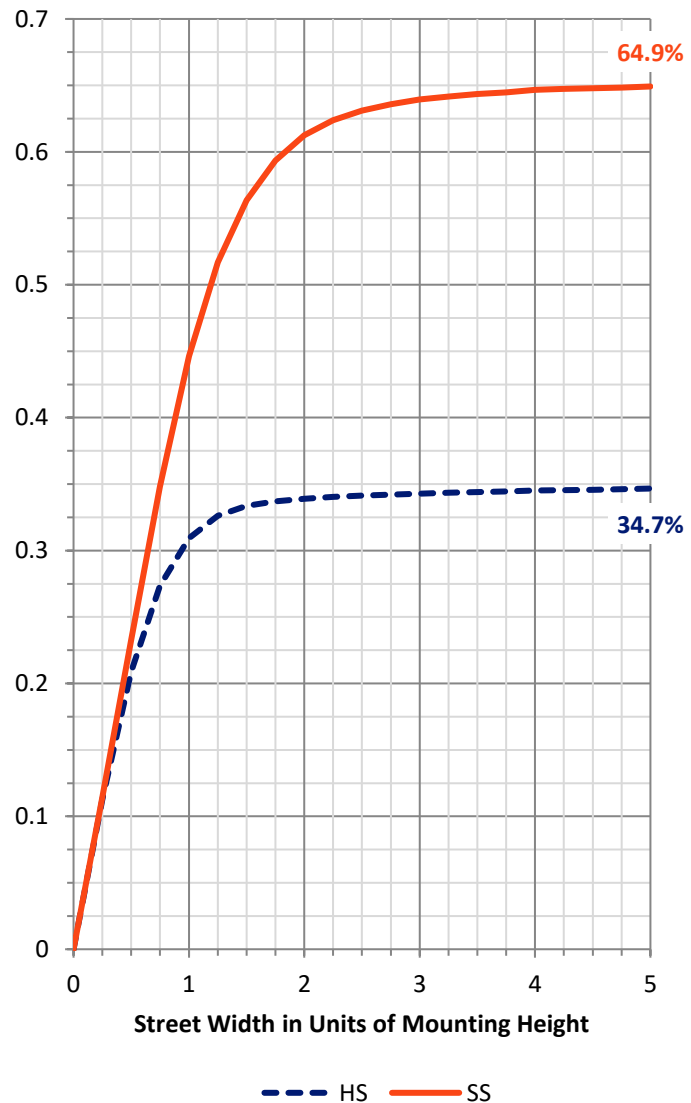
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2391.5	0.0	2391.5
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4437.9	0.0	4437.9
	% Fixture	65.0	0.0	65.0
Total	Lumens	6829.4	0.0	6829.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.0
10°-20°	234.9	3.4
20°-30°	461.4	6.8
30°-40°	766.7	11.2
40°-50°	1126.5	16.5
50°-60°	1559.7	22.8
60°-70°	1861.6	27.3
70°-80°	658.4	9.6
80°-90°	92.0	1.3
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°	6829.4	100.0
0°-180°	6829.4	100.0

Coefficient of Utilization



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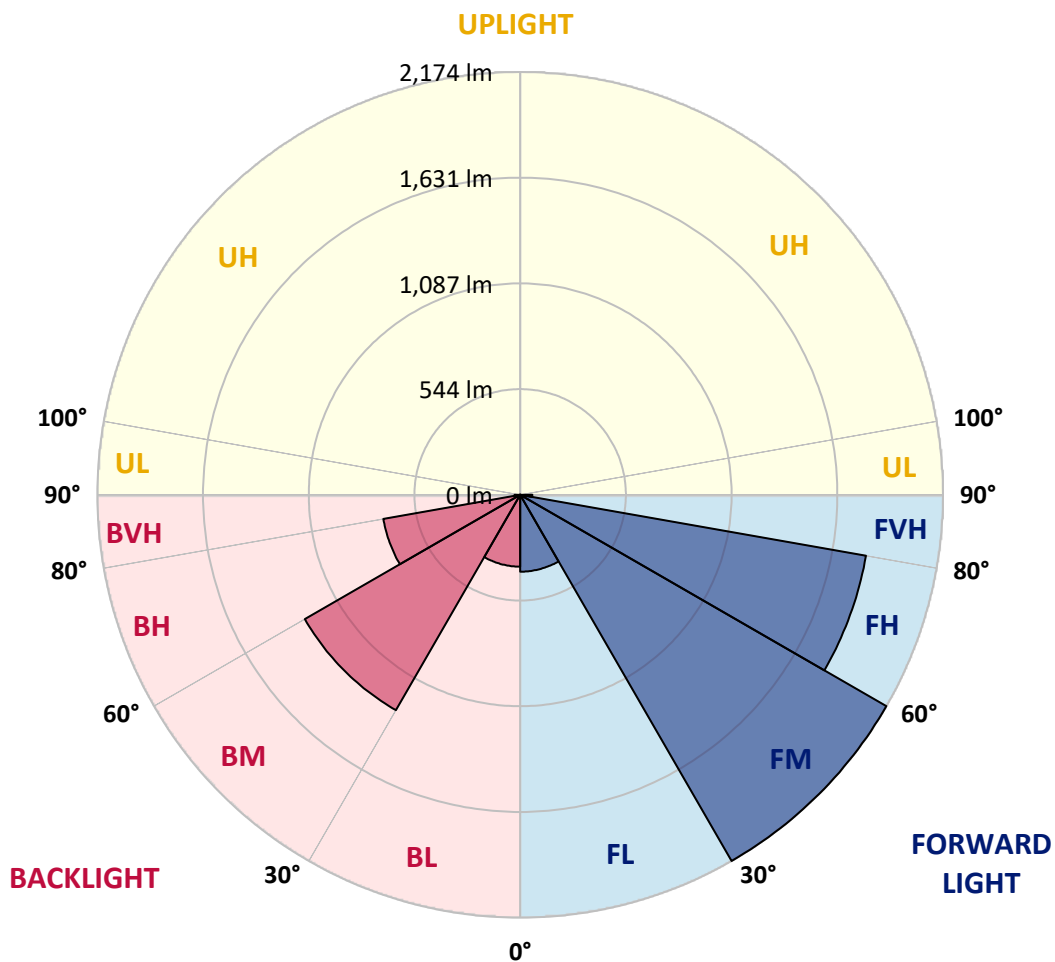
CATALOG NUMBER: ICS-F03-LED-E1-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.2	5.8			
FM (30°-60°)	2174.3	31.8			
FH (60°-80°)	1805.6	26.4			G2/5000
FVH (80°-90°)	62.9	0.9			G1/100
BL (0°-30°)	369.5	5.4	B1/500		
BM (30°-60°)	1278.6	18.7	B2/2500		
BH (60°-80°)	714.3	10.5	B2/1000		G2/1000
BVH (80°-90°)	29.1	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8
2.5°	712.5	713.3	711.8	711.1	708.8	705.1	702.1	699.2	699.2	699.2	696.9
5°	743.8	745.2	742.3	740.0	733.4	729.6	724.4	720.7	719.2	718.5	716.3
7.5°	783.1	780.9	776.4	775.0	769.8	761.6	751.9	744.5	744.5	743.8	744.5
10°	822.5	816.6	814.3	812.1	803.9	793.5	782.4	774.2	773.5	772.7	770.5
12.5°	861.9	859.7	857.4	849.3	841.1	824.7	812.1	803.9	803.2	803.9	801.0
15°	913.9	908.7	906.5	892.4	874.5	856.7	841.1	833.7	831.4	832.2	829.9
17.5°	954.0	954.0	948.8	933.2	910.2	885.7	869.3	864.9	864.1	864.1	864.9
20°	986.0	985.2	980.0	967.4	939.9	915.4	907.2	905.7	905.0	905.0	907.2
22.5°	1003.8	1002.3	1000.1	986.0	964.4	948.1	948.8	953.3	954.8	956.3	959.2
25°	1012.7	1010.5	1009.8	1000.1	984.5	982.3	995.6	1007.5	1010.5	1013.5	1017.2
27.5°	1027.6	1023.9	1025.4	1021.6	1017.9	1024.6	1052.1	1064.7	1067.0	1070.7	1072.9
30°	1068.5	1067.0	1072.9	1074.4	1077.4	1087.0	1112.3	1124.2	1129.4	1129.4	1139.8
32.5°	1146.5	1147.2	1148.7	1164.3	1169.5	1176.2	1189.6	1199.2	1200.0	1200.7	1210.4
35°	1251.2	1255.7	1268.3	1281.7	1294.3	1293.6	1285.4	1290.6	1286.9	1291.4	1292.1
37.5°	1383.5	1377.5	1396.1	1426.6	1445.9	1440.7	1404.3	1380.5	1387.2	1384.2	1382.0
40°	1485.3	1492.0	1527.6	1567.8	1582.6	1599.0	1551.4	1510.5	1504.6	1493.5	1486.8
42.5°	1625.7	1626.5	1655.4	1685.2	1728.2	1763.9	1733.4	1674.8	1656.9	1643.5	1614.6
45°	1755.7	1753.5	1777.3	1813.7	1865.0	1916.2	1927.4	1863.5	1856.8	1833.0	1795.1
47.5°	1842.7	1839.7	1856.0	1903.6	1986.8	2070.8	2116.8	2097.5	2084.9	2075.2	2015.8
50°	1901.4	1895.4	1914.0	1964.5	2057.4	2186.7	2307.1	2323.4	2318.2	2318.2	2280.3
52.5°	1945.2	1945.2	1958.6	1999.4	2093.8	2255.0	2470.5	2553.0	2559.7	2567.1	2564.9
55°	1920.7	1924.4	1957.8	2017.3	2116.8	2302.6	2605.7	2786.3	2823.4	2854.7	2890.3
57.5°	1836.7	1849.4	1893.9	1991.3	2122.8	2338.3	2755.8	3113.2	3218.0	3308.6	3449.8
60°	1714.1	1730.5	1795.1	1919.2	2078.9	2280.3	2808.6	3389.6	3556.1	3753.7	4122.2
62.5°	1503.9	1520.2	1583.4	1707.4	1844.2	2058.1	2590.1	3430.5	3696.5	3976.6	4533.9
65°	1065.5	1039.5	1112.3	1223.7	1380.5	1587.8	2093.1	3156.3	3539.0	3918.6	4606.7
67.5°	593.7	591.4	636.0	719.2	869.3	1092.2	1442.2	2420.7	2772.9	3203.1	4047.9
70°	409.4	413.9	442.1	532.0	656.1	848.5	1027.6	1520.2	1773.6	2065.6	2896.3
72.5°	287.5	297.2	312.8	366.3	493.4	714.8	1049.9	908.7	1035.0	1234.1	1741.6
75°	168.7	175.4	186.5	212.5	280.9	477.8	1087.0	798.7	798.7	845.5	1053.6
77.5°	104.0	104.0	110.7	121.1	149.3	234.0	774.2	897.6	872.3	845.5	847.8
80°	53.5	57.2	66.9	72.1	83.2	107.0	347.7	837.4	918.4	972.6	934.7
82.5°	24.5	27.5	40.9	43.8	48.3	56.5	119.6	476.3	638.2	840.3	1049.9
85°	12.6	12.6	21.5	26.7	29.0	26.0	43.8	192.4	291.3	444.3	695.5
87.5°	2.2	2.2	3.7	4.5	6.7	5.9	7.4	11.1	18.6	20.1	20.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8
2.5°	696.2	696.9	696.2	695.5	694.0	694.0	694.0	693.2	693.2	693.2	692.5
5°	716.3	713.3	714.0	712.5	711.8	711.1	711.8	710.3	708.8	709.6	708.8
7.5°	741.5	740.0	737.1	737.1	736.3	734.8	734.8	732.6	731.9	730.4	729.6
10°	769.8	766.0	767.5	766.0	766.8	763.8	762.3	760.8	759.4	759.4	760.1
12.5°	798.7	798.0	795.8	794.3	794.3	792.1	792.8	792.1	789.8	789.1	786.9
15°	828.5	828.5	826.2	827.0	826.2	824.7	823.3	823.3	821.8	820.3	821.0
17.5°	863.4	863.4	863.4	863.4	864.1	861.9	862.6	861.2	859.7	862.6	862.6
20°	908.7	911.7	911.7	910.9	914.6	912.4	911.7	915.4	911.7	916.9	916.1
22.5°	960.7	963.7	963.7	966.7	967.4	969.6	971.1	969.6	972.6	975.6	975.6
25°	1018.7	1021.6	1023.9	1028.3	1030.6	1029.1	1029.8	1033.5	1035.0	1038.0	1041.0
27.5°	1079.6	1080.3	1083.3	1088.5	1092.2	1093.7	1094.5	1100.4	1101.1	1102.6	1105.6
30°	1139.0	1146.5	1145.0	1151.7	1153.9	1156.1	1160.6	1162.8	1168.0	1171.0	1171.0
32.5°	1208.9	1207.4	1213.3	1218.5	1222.3	1226.0	1229.7	1232.7	1235.6	1237.1	1244.5
35°	1295.8	1298.8	1298.8	1299.5	1308.4	1309.2	1312.2	1318.8	1321.1	1325.5	1328.5
37.5°	1382.0	1376.8	1376.1	1376.1	1373.1	1375.3	1376.1	1376.8	1379.8	1380.5	1383.5
40°	1478.6	1471.9	1466.0	1462.2	1456.3	1448.1	1446.6	1442.9	1445.2	1444.4	1445.2
42.5°	1610.9	1592.3	1578.2	1567.8	1555.9	1547.0	1540.3	1530.6	1523.9	1515.7	1514.3
45°	1779.5	1744.6	1720.8	1703.7	1686.6	1662.1	1648.0	1633.1	1619.8	1606.4	1595.2
47.5°	2000.9	1963.8	1925.9	1894.7	1867.9	1828.6	1788.4	1766.1	1740.1	1717.1	1700.8
50°	2261.7	2217.2	2199.3	2155.5	2122.0	2062.6	2012.8	1976.4	1924.4	1889.5	1859.0
52.5°	2528.5	2517.3	2507.7	2470.5	2431.1	2397.0	2353.1	2289.2	2236.5	2196.3	2133.9
55°	2891.8	2897.0	2893.3	2873.2	2859.1	2826.4	2808.6	2752.9	2729.1	2671.1	2605.7
57.5°	3503.3	3544.9	3597.7	3618.5	3646.7	3620.0	3651.2	3689.1	3594.7	3627.4	3568.7
60°	4284.2	4475.2	4588.8	4728.5	4819.9	4947.7	4970.8	5004.2	4994.5	5013.1	5051.0
62.5°	4761.2	4987.8	5205.5	5363.8	5533.2	5626.8	5739.8	5818.5	5900.3	5955.2	5939.6
65°	4901.7	5135.0	5332.6	5505.7	5657.3	5771.7	5876.5	5975.3	6050.4	6103.1	6134.3
67.5°	4386.0	4690.6	4898.7	5101.5	5296.9	5417.3	5505.0	5600.8	5710.8	5802.2	5820.0
70°	3300.5	3757.4	4052.4	4295.4	4524.9	4686.9	4809.5	4898.7	4984.1	5049.5	5120.8
72.5°	2064.1	2463.8	2801.2	3116.2	3359.9	3582.8	3686.1	3883.7	3857.7	3907.5	3961.0
75°	1237.1	1431.8	1617.5	1839.7	1967.5	2153.3	2186.7	2219.4	2202.3	2146.6	2188.2
77.5°	859.7	891.6	890.1	877.5	864.1	831.4	789.1	766.0	750.4	728.2	737.1
80°	864.9	795.8	690.3	580.3	479.2	412.4	385.6	385.6	413.1	452.5	491.9
82.5°	1033.5	960.0	856.0	716.3	567.7	462.2	391.6	363.3	368.5	408.7	459.2
85°	696.9	713.3	625.6	572.1	453.2	352.9	295.7	240.0	212.5	219.2	248.2
87.5°	25.3	30.5	11.1	14.9	10.4	8.9	8.9	9.7	6.7	8.2	7.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8
2.5°	691.7	691.0	691.0	689.5	689.5	688.8	688.8	688.0	687.3	687.3	686.5
5°	708.1	707.3	705.9	705.1	703.6	703.6	702.9	701.4	701.4	699.9	699.2
7.5°	731.1	729.6	728.2	727.4	726.7	724.4	724.4	723.0	723.0	721.5	720.7
10°	758.6	757.1	755.6	756.4	754.2	753.4	751.9	751.9	749.7	749.0	749.0
12.5°	788.3	787.6	787.6	785.4	784.6	783.9	780.9	780.9	780.9	779.4	780.2
15°	820.3	821.0	818.8	821.0	820.3	818.1	818.1	818.1	815.1	818.8	815.8
17.5°	863.4	865.6	864.1	864.9	863.4	863.4	864.1	863.4	864.9	864.9	869.3
20°	916.9	917.6	921.3	919.8	919.8	919.1	920.6	921.3	924.3	922.8	925.8
22.5°	975.6	979.3	980.0	983.0	983.0	982.3	983.7	986.7	988.2	990.4	989.7
25°	1042.4	1044.7	1047.6	1043.9	1049.9	1049.9	1051.4	1055.1	1055.8	1055.8	1061.0
27.5°	1104.9	1110.8	1111.5	1115.3	1113.0	1114.5	1119.7	1121.9	1124.9	1124.9	1126.4
30°	1175.4	1177.7	1179.2	1183.6	1182.9	1183.6	1184.4	1188.1	1188.1	1191.8	1195.5
32.5°	1248.3	1249.7	1251.2	1255.7	1257.2	1260.1	1258.7	1261.6	1265.4	1266.1	1268.3
35°	1335.2	1336.7	1338.2	1344.9	1345.6	1350.8	1352.3	1350.8	1356.7	1353.0	1356.7
37.5°	1385.7	1392.4	1393.9	1398.4	1396.9	1400.6	1402.8	1405.8	1407.3	1410.2	1416.2
40°	1447.4	1449.6	1454.1	1456.3	1459.3	1460.0	1463.0	1465.2	1467.5	1474.1	1480.8
42.5°	1510.5	1513.5	1515.7	1518.7	1522.4	1525.4	1527.6	1534.3	1535.8	1540.3	1552.9
45°	1587.1	1585.6	1586.3	1587.1	1588.6	1592.3	1599.0	1605.7	1610.1	1620.5	1630.9
47.5°	1682.2	1672.5	1668.8	1662.9	1664.3	1672.5	1674.0	1685.2	1694.1	1703.7	1716.4
50°	1826.3	1800.3	1784.7	1769.1	1767.6	1772.1	1778.0	1789.9	1800.3	1813.0	1830.8
52.5°	2068.5	2018.8	1987.6	1944.5	1932.6	1930.3	1925.9	1932.6	1935.5	1952.6	1986.1
55°	2558.9	2466.8	2407.4	2340.5	2278.1	2259.5	2223.8	2231.3	2223.8	2234.2	2284.0
57.5°	3582.8	3509.2	3451.3	3365.8	3258.9	3145.2	3116.9	3000.3	3023.3	3090.2	3047.1
60°	5069.6	5042.8	5001.2	4960.4	4814.0	4731.5	4597.0	4582.2	4487.8	4488.5	4426.9
62.5°	5901.8	5935.9	5910.7	5898.8	5890.6	5864.6	5797.7	5717.5	5597.1	5510.2	5382.4
65°	6139.5	6110.5	6083.0	6079.3	6077.1	6119.5	6129.1	6072.6	5963.4	5828.2	5681.1
67.5°	5862.4	5846.0	5847.5	5816.3	5835.6	5909.2	5960.4	5944.8	5844.5	5681.1	5493.8
70°	5202.6	5170.6	5203.3	5244.2	5273.2	5315.5	5366.8	5379.4	5288.0	5120.1	4929.1
72.5°	3895.6	3900.8	3932.0	3943.2	4059.8	4047.9	4094.0	3943.9	3877.8	3718.0	3620.0
75°	2050.0	2016.5	2103.5	1919.2	1843.4	1896.2	1748.3	1606.4	1636.1	1660.6	1483.8
77.5°	724.4	677.6	598.1	566.2	471.1	399.0	326.2	294.2	277.1	268.2	257.1
80°	520.1	535.0	518.6	480.0	407.9	326.9	257.8	203.6	174.6	159.0	148.6
82.5°	526.1	584.8	610.8	599.6	534.2	404.2	266.7	170.1	126.3	105.5	98.1
85°	282.3	309.1	297.2	250.4	225.1	134.5	92.1	61.7	52.0	47.6	43.8
87.5°	11.1	8.9	7.4	7.4	8.2	8.9	7.4	8.2	7.4	7.4	7.4
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8	682.8
2.5°	685.1	685.1	685.1	684.3	682.8	679.1	675.4	672.4	670.2	668.0	665.0
5°	698.4	696.9	696.9	696.9	691.0	685.1	679.9	674.7	670.2	666.5	663.5
7.5°	720.7	720.0	717.0	716.3	711.8	702.1	696.2	687.3	682.1	676.9	675.4
10°	747.5	746.7	746.0	745.2	739.3	729.6	722.2	714.0	706.6	699.2	691.7
12.5°	778.7	777.9	777.2	775.0	772.7	767.5	759.4	750.4	741.5	725.9	717.8
15°	817.3	818.8	817.3	816.6	815.1	815.8	810.6	798.0	783.9	763.8	746.7
17.5°	868.6	867.1	866.4	869.3	868.6	872.3	870.8	854.5	832.9	801.0	771.2
20°	925.1	925.1	928.0	930.3	936.9	946.6	942.1	922.1	882.7	838.1	799.5
22.5°	992.7	994.2	997.1	995.6	1006.0	1021.6	1023.1	994.9	943.6	882.0	827.7
25°	1063.3	1064.7	1061.8	1066.2	1083.3	1105.6	1110.1	1069.9	1002.3	922.1	851.5
27.5°	1130.1	1131.6	1131.6	1137.6	1153.9	1191.8	1196.3	1151.7	1061.8	957.0	868.6
30°	1195.5	1201.5	1202.9	1204.4	1228.9	1281.7	1291.4	1226.7	1113.8	983.0	880.5
32.5°	1278.0	1280.2	1283.2	1286.9	1315.1	1379.8	1379.8	1291.4	1147.2	999.4	882.7
35°	1366.4	1367.1	1373.8	1374.6	1414.7	1479.3	1466.7	1344.9	1171.0	995.6	866.4
37.5°	1419.9	1422.9	1429.6	1438.5	1480.8	1572.2	1543.2	1390.9	1175.4	971.1	829.2
40°	1486.0	1492.0	1498.7	1507.6	1570.7	1666.6	1607.9	1419.9	1156.9	922.8	773.5
42.5°	1557.4	1565.5	1575.9	1592.3	1667.3	1749.8	1656.9	1424.4	1114.5	868.6	707.3
45°	1637.6	1652.5	1664.3	1683.7	1768.4	1821.9	1686.6	1398.4	1061.0	797.3	636.8
47.5°	1730.5	1742.4	1763.2	1784.0	1868.7	1870.9	1689.6	1347.8	988.2	725.9	561.7
50°	1844.9	1852.3	1883.5	1896.2	1975.7	1922.2	1668.1	1279.5	911.7	645.7	478.5
52.5°	1997.2	2007.6	2047.7	2067.1	2123.5	1992.0	1637.6	1205.2	824.0	555.8	393.1
55°	2298.1	2343.5	2371.7	2405.1	2441.5	2150.3	1624.2	1125.7	725.2	451.8	311.3
57.5°	3142.9	3128.1	3190.5	3266.3	3265.5	2512.1	1704.5	1057.3	608.5	345.5	239.3
60°	4401.6	4415.7	4383.8	4429.1	4285.0	2960.9	1814.4	985.2	477.0	257.1	182.8
62.5°	5337.1	5255.3	5210.0	5156.5	4839.2	3009.9	1734.2	837.4	347.0	180.6	140.4
65°	5558.5	5462.6	5365.3	5263.5	4785.0	2713.5	1422.9	614.5	224.4	124.1	111.5
67.5°	5340.0	5186.2	5062.1	4957.4	4384.5	2249.1	1040.2	377.5	128.5	100.3	95.1
70°	4773.9	4603.7	4403.1	4285.7	3692.0	1657.7	666.5	203.6	98.8	89.2	86.9
72.5°	3494.4	3354.7	3135.5	3001.0	2651.1	1007.5	372.2	114.4	92.1	85.4	82.5
75°	1361.2	1288.4	1197.0	1204.4	1075.1	445.8	168.7	98.8	89.9	84.0	81.0
77.5°	234.0	228.1	211.0	211.0	240.0	162.7	112.2	99.6	89.2	82.5	77.3
80°	140.4	137.5	130.8	129.3	124.8	114.4	107.7	101.0	87.7	78.0	71.3
82.5°	92.1	88.4	86.2	85.4	92.9	100.3	101.0	100.3	83.2	67.6	58.0
85°	39.4	39.4	39.4	40.1	53.5	81.0	83.2	89.2	68.4	52.8	41.6
87.5°	6.7	8.2	8.2	8.9	9.7	17.8	22.3	29.0	23.0	22.3	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181304

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CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	682.8	682.8	682.8
2.5°	664.3	662.8	662.8
5°	662.0	660.5	661.3
7.5°	670.9	668.0	668.7
10°	687.3	684.3	682.8
12.5°	708.1	704.4	704.4
15°	729.6	720.7	720.0
17.5°	747.5	736.3	734.8
20°	767.5	752.7	750.4
22.5°	786.1	766.0	763.1
25°	799.5	775.0	771.2
27.5°	805.4	776.4	773.5
30°	809.9	777.2	772.7
32.5°	805.4	770.5	766.8
35°	780.9	743.0	740.8
37.5°	738.6	696.2	693.2
40°	682.8	638.2	630.8
42.5°	611.5	569.9	561.7
45°	542.4	494.8	491.1
47.5°	468.1	422.8	425.0
50°	390.1	349.2	348.5
52.5°	315.8	280.1	277.9
55°	248.9	223.6	221.4
57.5°	196.9	183.5	181.3
60°	160.5	153.8	151.6
62.5°	129.3	127.1	126.3
65°	107.7	107.7	107.7
67.5°	93.6	94.4	94.4
70°	86.2	86.9	86.2
72.5°	83.2	85.4	85.4
75°	81.0	82.5	79.5
77.5°	79.5	80.2	75.0
80°	78.8	78.0	68.4
82.5°	68.4	66.1	58.0
85°	62.4	47.6	40.1
87.5°	31.9	22.3	17.1
90°	0.0	0.0	0.0

(END OF REPORT)