

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: P180537

Luminaire Tested: **ICS-E03-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180537
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E03-LED-E1-SL2-7030
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7534.4 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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

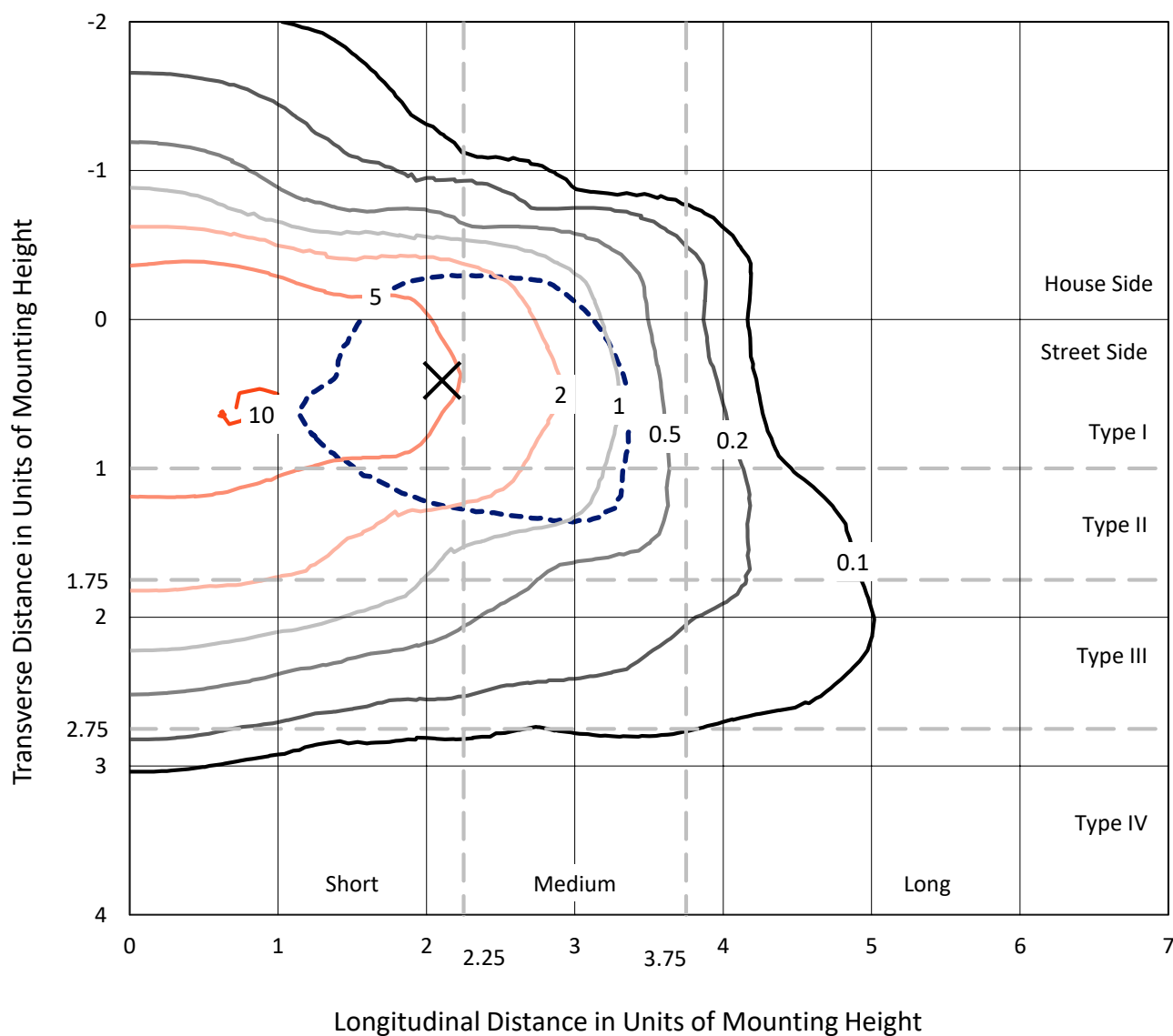


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

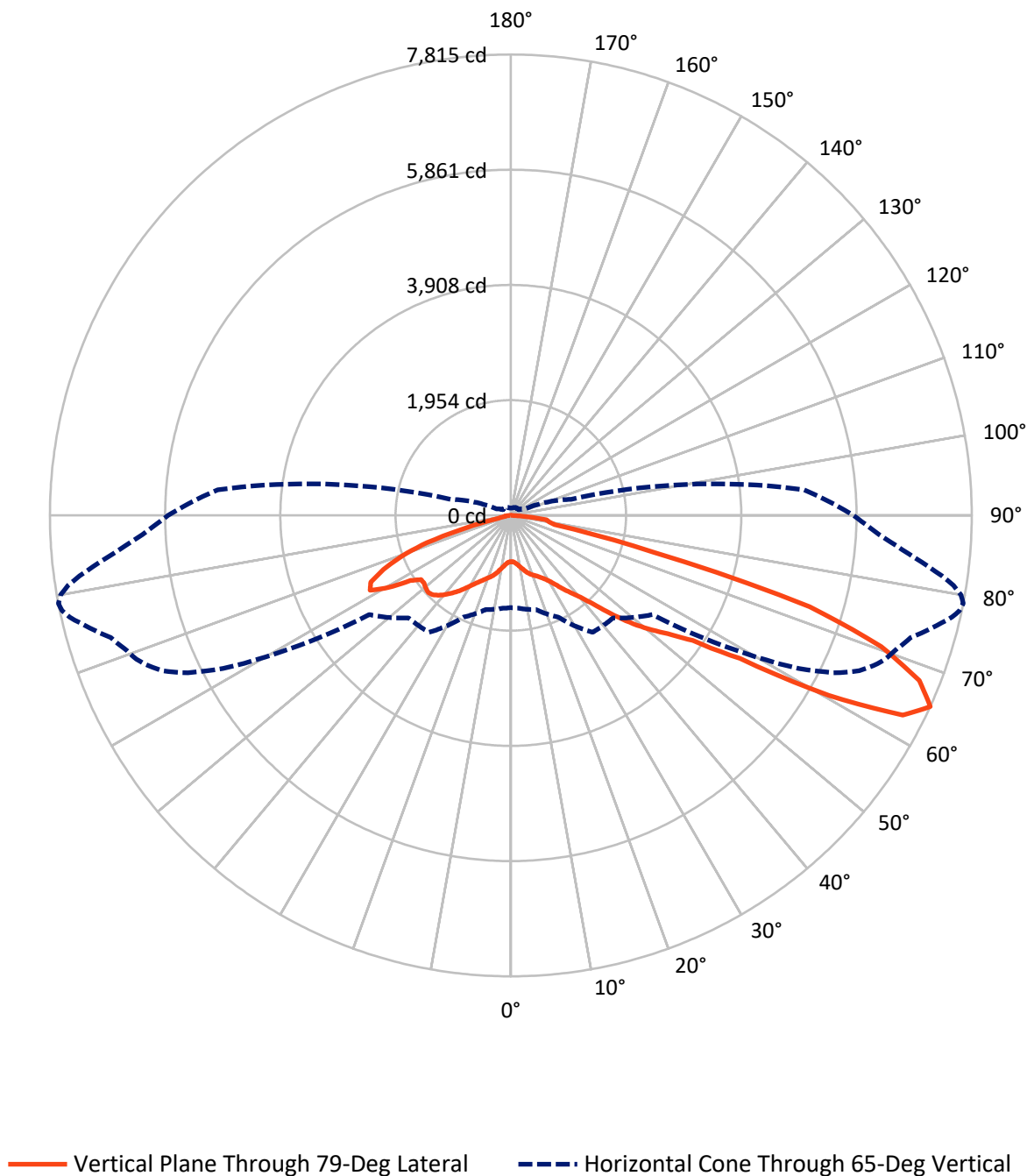


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1781.1	0.0	1781.1
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	5753.3	0.0	5753.3
	% Fixture	76.4	0.0	76.4
Total	Lumens	7534.4	0.0	7534.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.0
10°-20°	254.9	3.4
20°-30°	440.3	5.8
30°-40°	728.8	9.7
40°-50°	1236.0	16.4
50°-60°	1642.3	21.8
60°-70°	2121.4	28.2
70°-80°	889.7	11.8
80°-90°	142.9	1.9
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°	7534.4	100.0
0°-180°	7534.4	100.0

Coefficient of Utilization



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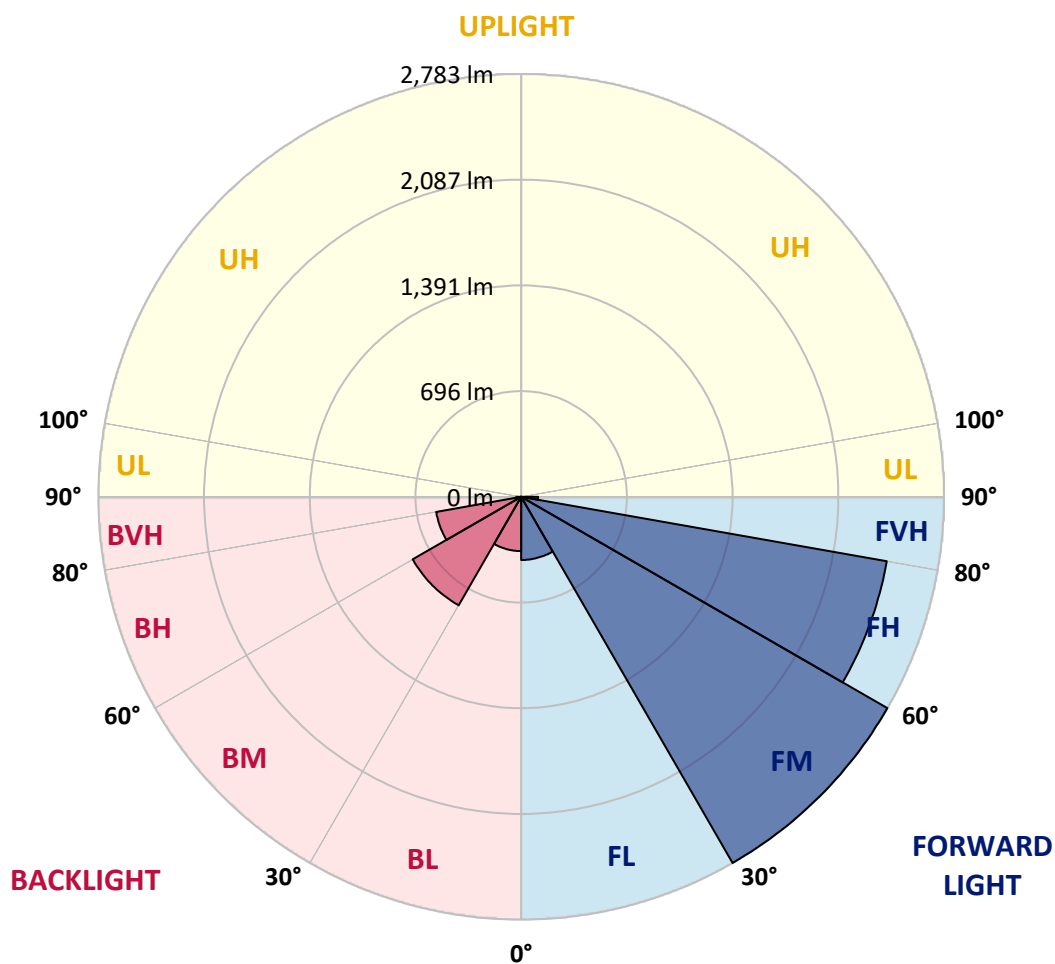
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.7	5.5			
FM	(30°-60°)	2782.7	36.9			
FH	(60°-80°)	2443.1	32.4			G2/5000
FVH	(80°-90°)	111.8	1.5			G2/225
BL	(0°-30°)	357.4	4.7	B1/500		
BM	(30°-60°)	824.5	10.9	B1/1000		
BH	(60°-80°)	568.1	7.5	B2/1000		G2/1000
BVH	(80°-90°)	31.2	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°	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2
2.5°	781.8	784.2	782.6	784.2	785.9	786.7	788.4	787.5	787.5	788.4	786.7
5°	781.8	781.8	784.2	788.4	790.0	794.9	800.7	799.9	800.7	799.9	801.5
7.5°	798.2	797.4	799.9	804.8	806.4	813.8	823.7	825.3	827.0	827.0	829.5
10°	827.0	826.2	828.6	831.1	833.6	839.3	853.3	859.1	859.9	860.7	864.0
12.5°	863.2	862.3	859.1	859.1	858.2	868.9	887.8	898.5	900.2	903.4	905.9
15°	888.6	886.2	881.2	878.0	882.1	899.3	927.3	939.6	941.3	943.7	950.3
17.5°	913.3	910.8	900.2	891.9	897.7	925.6	963.5	976.6	979.9	982.4	989.8
20°	947.8	946.2	930.6	910.8	909.2	945.4	991.4	1008.7	1011.1	1014.4	1021.8
22.5°	1000.4	993.0	975.0	938.0	919.9	956.9	1011.1	1035.0	1038.3	1041.6	1051.4
25°	1066.2	1062.9	1031.7	975.0	937.1	968.4	1032.5	1062.1	1067.0	1071.1	1084.3
27.5°	1134.4	1129.5	1095.8	1021.8	967.6	991.4	1066.2	1099.9	1106.5	1113.1	1125.4
30°	1195.3	1193.6	1165.7	1085.1	1016.9	1035.0	1120.5	1161.6	1169.0	1177.2	1188.7
32.5°	1338.3	1339.1	1310.4	1228.2	1136.1	1113.9	1198.6	1260.2	1263.5	1273.4	1293.9
35°	1612.1	1615.3	1604.7	1539.7	1436.1	1344.9	1353.1	1413.9	1417.2	1425.5	1445.2
37.5°	1795.4	1802.0	1834.8	1855.4	1802.8	1760.9	1656.5	1632.6	1635.1	1630.1	1626.0
40°	1896.5	1906.4	1992.7	2099.5	2157.1	2157.9	2112.7	2007.5	1967.2	1955.7	1906.4
42.5°	1954.0	1970.5	2093.0	2275.5	2440.7	2554.1	2582.1	2465.4	2435.8	2383.2	2288.6
45°	1991.9	2011.6	2156.3	2406.2	2649.5	2842.7	2988.2	2936.4	2916.7	2884.6	2797.5
47.5°	1985.3	2000.9	2151.3	2450.6	2758.8	3033.4	3291.5	3345.0	3321.1	3312.9	3253.7
50°	1865.3	1879.2	2032.1	2340.4	2698.8	3105.7	3483.9	3635.1	3635.1	3650.8	3632.7
52.5°	1737.0	1748.5	1887.4	2164.5	2504.8	3035.0	3590.8	3841.5	3874.4	3901.5	3944.2
55°	1688.5	1702.5	1807.7	2044.5	2339.6	2832.8	3626.9	3996.0	4056.9	4102.9	4199.9
57.5°	1711.5	1725.5	1800.3	1979.5	2242.6	2626.5	3628.6	4204.0	4321.6	4416.1	4612.6
60°	1811.0	1824.2	1886.6	2039.5	2217.1	2507.3	3558.7	4535.3	4722.7	4900.3	5227.5
62.5°	1765.0	1781.4	1872.7	2139.0	2407.0	2416.9	3306.3	4791.8	5093.5	5355.7	5876.1
65°	1563.6	1580.8	1652.3	1901.4	2418.5	2456.3	2932.3	4796.7	5171.6	5525.9	6087.4
67.5°	1187.1	1193.6	1250.4	1450.1	1934.3	2499.9	2547.6	4228.7	4585.5	4980.9	5560.4
70°	606.7	618.2	634.6	800.7	1245.4	2065.8	2189.1	3116.4	3571.0	3979.6	4675.9
72.5°	210.4	214.6	231.0	305.8	606.7	1355.6	1916.2	2135.7	2410.3	2792.5	3599.0
75°	126.6	126.6	132.4	154.5	277.0	706.1	1705.0	1744.4	1781.4	1909.6	2437.4
77.5°	100.3	101.9	101.9	106.0	153.7	362.5	1294.7	1621.9	1626.9	1639.2	1728.0
80°	71.5	74.8	81.4	84.7	99.5	198.9	726.7	1423.8	1520.8	1567.7	1632.6
82.5°	53.4	56.7	69.1	73.2	77.3	111.0	326.4	982.4	1159.1	1252.8	1481.4
85°	23.8	28.0	46.9	51.8	54.3	59.2	152.9	279.5	321.4	360.9	476.0
87.5°	4.1	4.1	7.4	10.7	15.6	14.8	33.7	47.7	48.5	56.7	63.3
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°	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2
2.5°	786.7	786.7	786.7	785.9	786.7	786.7	786.7	786.7	787.5	787.5	787.5
5°	804.0	802.3	803.2	803.2	803.2	802.3	804.0	803.2	804.0	806.4	805.6
7.5°	829.5	831.1	831.9	832.7	832.7	832.7	833.6	835.2	835.2	837.7	836.9
10°	867.3	866.5	867.3	869.7	872.2	873.0	875.5	874.7	876.3	879.6	882.9
12.5°	907.6	909.2	911.7	914.1	918.2	919.1	921.5	922.4	927.3	927.3	930.6
15°	952.8	953.6	958.5	959.3	964.3	965.9	970.0	971.7	977.4	978.3	981.5
17.5°	993.9	995.5	998.0	1000.4	1006.2	1008.7	1012.0	1015.2	1020.2	1021.8	1027.6
20°	1026.8	1030.0	1030.9	1035.8	1040.7	1044.0	1047.3	1050.6	1055.5	1058.0	1063.7
22.5°	1056.3	1059.6	1062.1	1066.2	1069.5	1074.4	1076.1	1081.8	1086.8	1090.9	1095.8
25°	1088.4	1093.3	1095.8	1103.2	1105.7	1110.6	1114.7	1120.5	1127.0	1132.0	1138.6
27.5°	1133.6	1141.0	1144.3	1152.5	1158.3	1160.7	1167.3	1175.5	1181.3	1187.1	1193.6
30°	1196.1	1210.1	1212.5	1218.3	1229.0	1230.6	1238.8	1245.4	1254.5	1260.2	1266.0
32.5°	1293.1	1310.4	1312.0	1318.6	1327.6	1330.9	1337.5	1344.9	1358.9	1361.3	1370.4
35°	1441.9	1449.3	1455.9	1458.3	1465.7	1469.8	1474.8	1483.0	1497.0	1495.3	1505.2
37.5°	1620.3	1622.7	1623.6	1615.3	1617.0	1609.6	1618.6	1620.3	1625.2	1629.3	1639.2
40°	1875.1	1849.6	1846.3	1826.6	1806.9	1796.2	1792.1	1775.6	1779.8	1781.4	1789.6
42.5°	2247.5	2198.2	2157.1	2129.1	2080.6	2056.8	2024.7	1999.2	1979.5	1986.9	1990.2
45°	2719.4	2648.7	2582.9	2497.4	2434.1	2388.9	2332.2	2281.2	2258.2	2247.5	2260.7
47.5°	3190.4	3127.9	3050.7	2962.7	2862.4	2787.6	2693.1	2610.0	2552.5	2531.1	2542.6
50°	3597.3	3539.8	3481.4	3429.6	3312.9	3231.5	3102.5	2994.8	2904.3	2858.3	2846.0
52.5°	3935.2	3904.8	3873.5	3830.0	3736.3	3654.9	3552.1	3446.1	3326.1	3232.3	3200.3
55°	4236.9	4255.0	4239.4	4240.2	4203.2	4151.4	4064.3	3985.3	3901.5	3795.5	3751.1
57.5°	4676.7	4783.6	4804.9	4858.4	4884.7	4912.6	4937.3	4890.4	4869.1	4790.1	4791.0
60°	5369.7	5525.9	5661.5	5784.8	5885.9	5984.6	6088.2	6134.2	6185.2	6209.0	6290.4
62.5°	6107.1	6255.9	6458.1	6623.3	6716.2	6844.5	6957.1	7030.3	7119.9	7215.2	7339.4
65°	6289.6	6468.8	6596.2	6706.4	6798.4	6866.7	6928.3	7015.5	7090.3	7241.5	7387.9
67.5°	5821.8	5964.9	6081.6	6190.1	6261.6	6319.2	6374.3	6431.8	6560.0	6697.3	6844.5
70°	4997.3	5169.9	5363.1	5503.7	5539.0	5588.4	5641.0	5715.8	5779.9	5923.8	6035.6
72.5°	4014.9	4263.2	4426.8	4621.6	4663.5	4738.4	4767.9	4826.3	4837.8	4915.9	4945.5
75°	2798.3	3082.7	3247.1	3390.2	3418.1	3377.0	3393.5	3187.1	3134.5	3091.8	3057.2
77.5°	1847.2	1923.6	1949.9	1926.9	1816.8	1730.4	1638.4	1547.9	1557.8	1484.6	1356.4
80°	1642.5	1659.7	1635.9	1612.9	1549.6	1459.2	1376.1	1291.5	1249.5	1205.1	1139.4
82.5°	1598.1	1664.7	1672.1	1644.1	1594.0	1495.3	1395.0	1269.3	1162.4	1063.7	963.5
85°	534.3	650.2	702.0	750.5	765.3	782.6	723.4	642.9	545.8	480.9	376.5
87.5°	68.2	84.7	97.8	83.9	97.8	115.1	83.0	92.9	93.7	58.4	43.6
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°	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2
2.5°	788.4	787.5	787.5	787.5	786.7	787.5	787.5	787.5	787.5	787.5	786.7
5°	806.4	806.4	808.9	809.7	808.1	807.3	808.1	808.9	808.9	808.1	808.9
7.5°	840.1	841.0	842.6	845.1	843.4	844.3	845.1	844.3	846.7	847.5	846.7
10°	882.9	884.5	888.6	889.5	888.6	891.9	892.8	891.1	892.8	892.8	896.0
12.5°	932.2	933.9	938.8	940.4	942.1	942.9	945.4	946.2	948.7	950.3	952.8
15°	985.6	987.3	990.6	996.3	998.0	999.6	1001.3	1006.2	1007.0	1010.3	1012.8
17.5°	1030.9	1033.3	1038.3	1042.4	1044.8	1048.9	1050.6	1056.3	1058.0	1062.9	1067.0
20°	1067.0	1071.1	1075.3	1080.2	1084.3	1089.2	1090.9	1096.6	1099.9	1102.4	1107.3
22.5°	1099.9	1104.8	1110.6	1116.4	1119.6	1126.2	1128.7	1131.2	1138.6	1141.8	1146.8
25°	1142.7	1147.6	1154.2	1161.6	1164.9	1173.1	1175.5	1179.7	1187.9	1191.2	1198.6
27.5°	1201.0	1207.6	1212.5	1219.9	1224.0	1229.8	1235.6	1240.5	1247.9	1252.8	1261.0
30°	1274.2	1279.1	1287.3	1293.1	1299.7	1307.9	1314.5	1319.4	1323.5	1330.9	1340.0
32.5°	1381.9	1382.7	1385.2	1399.1	1405.7	1412.3	1421.3	1425.5	1432.0	1439.4	1449.3
35°	1515.9	1523.3	1529.0	1535.6	1543.0	1550.4	1553.7	1566.0	1571.8	1581.6	1591.5
37.5°	1649.1	1649.9	1663.0	1667.1	1673.7	1681.1	1692.6	1705.0	1719.7	1729.6	1745.2
40°	1792.1	1798.7	1815.1	1823.3	1831.5	1849.6	1858.7	1878.4	1903.1	1917.0	1943.3
42.5°	1999.2	2009.1	2038.7	2051.9	2071.6	2101.2	2120.1	2147.2	2157.1	2190.8	2203.1
45°	2270.5	2300.9	2343.7	2371.6	2407.0	2439.1	2455.5	2467.8	2482.6	2508.9	2505.6
47.5°	2564.0	2603.5	2651.1	2708.7	2731.7	2769.5	2790.9	2814.7	2801.6	2795.0	2788.4
50°	2864.9	2910.9	2974.2	3026.0	3061.4	3084.4	3102.5	3099.2	3071.2	3056.4	3015.3
52.5°	3199.5	3226.6	3286.6	3331.0	3352.4	3357.3	3353.2	3328.5	3302.2	3255.4	3206.9
55°	3712.4	3700.1	3723.9	3744.5	3737.9	3760.9	3701.7	3678.7	3613.8	3552.9	3488.0
57.5°	4754.8	4771.2	4638.1	4578.1	4567.4	4588.7	4484.3	4471.2	4314.2	4294.4	4185.1
60°	6278.9	6359.5	6255.1	6196.7	6038.9	5987.1	5870.3	5821.8	5671.4	5549.7	5396.0
62.5°	7424.8	7498.0	7541.6	7458.6	7366.5	7230.8	7054.1	6858.4	6699.0	6512.4	6349.6
65°	7528.4	7676.4	7776.7	7815.3	7750.4	7601.6	7383.7	7137.1	6893.0	6658.7	6453.2
67.5°	7044.2	7176.6	7332.0	7470.9	7479.1	7382.1	7196.3	6945.6	6663.6	6374.3	6133.4
70°	6212.3	6378.4	6514.0	6660.3	6762.3	6706.4	6613.5	6383.3	6090.6	5865.4	5588.4
72.5°	5052.4	5122.3	5155.1	5299.0	5300.6	5198.7	5132.9	5005.5	4769.6	4610.1	4398.8
75°	2950.4	2796.6	2633.1	2490.8	2374.9	2326.4	2111.1	2074.9	1930.2	1840.6	1709.1
77.5°	1216.6	1079.4	902.6	755.5	610.0	544.2	448.8	406.9	352.7	328.8	313.2
80°	1043.2	913.3	780.1	652.7	539.3	425.8	331.3	257.3	202.2	171.8	159.5
82.5°	851.7	773.6	680.7	611.6	522.8	438.2	369.9	286.9	214.6	157.8	120.8
85°	307.5	252.4	203.0	186.6	148.8	122.5	102.8	88.0	72.3	57.5	51.0
87.5°	34.5	32.9	18.9	18.1	20.6	14.8	17.3	15.6	13.2	11.5	12.3
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°	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2	784.2
2.5°	786.7	786.7	787.5	787.5	788.4	789.2	790.8	790.0	790.0	790.8	790.8
5°	808.9	811.4	810.6	810.6	810.6	811.4	812.2	808.9	805.6	802.3	800.7
7.5°	847.5	849.2	850.8	849.2	850.8	850.0	848.4	839.3	828.6	815.5	806.4
10°	897.7	897.7	899.3	898.5	901.8	899.3	894.4	873.8	850.8	822.9	802.3
12.5°	951.9	957.7	955.2	956.1	962.6	956.1	944.5	914.1	873.0	827.8	791.6
15°	1016.1	1018.5	1020.2	1017.7	1021.8	1016.1	995.5	947.0	887.0	823.7	770.3
17.5°	1068.7	1069.5	1070.3	1072.0	1077.7	1071.1	1035.8	970.0	890.3	804.8	734.1
20°	1109.8	1113.9	1117.2	1117.2	1125.4	1115.5	1068.7	981.5	879.6	773.6	688.1
22.5°	1152.5	1155.8	1159.9	1160.7	1171.4	1161.6	1095.8	979.1	851.7	729.2	634.6
25°	1205.1	1208.4	1211.7	1215.8	1230.6	1216.6	1122.9	969.2	813.0	676.6	577.1
27.5°	1266.0	1273.4	1275.8	1282.4	1299.7	1278.3	1146.0	954.4	770.3	615.7	516.3
30°	1347.4	1356.4	1359.7	1368.7	1392.6	1345.7	1159.1	928.9	716.0	554.1	451.3
32.5°	1456.7	1469.0	1478.9	1488.8	1515.9	1413.1	1160.7	891.9	652.7	485.0	388.8
35°	1599.7	1618.6	1626.0	1632.6	1658.1	1486.3	1153.4	836.9	575.4	414.3	339.5
37.5°	1760.0	1778.9	1783.9	1787.2	1792.1	1548.8	1135.3	753.0	488.3	352.7	300.1
40°	1957.3	1973.8	1980.3	1975.4	1949.1	1597.3	1095.0	655.2	403.6	310.7	275.4
42.5°	2198.2	2222.9	2225.3	2203.1	2116.0	1624.4	1014.4	540.1	337.0	280.3	256.5
45°	2496.6	2495.0	2481.0	2465.4	2297.7	1613.7	901.8	439.8	295.1	256.5	239.2
47.5°	2764.6	2736.6	2715.3	2669.2	2458.0	1551.2	756.3	364.2	269.6	238.4	224.4
50°	2984.1	2933.1	2887.9	2837.8	2577.2	1440.2	611.6	309.1	245.8	222.8	210.4
52.5°	3157.5	3095.9	3043.3	2993.9	2692.2	1316.9	501.5	268.8	222.8	207.2	194.8
55°	3428.8	3367.2	3283.3	3229.1	2868.2	1203.5	429.9	236.8	200.6	190.7	178.4
57.5°	4115.2	4061.0	3960.7	3820.1	3320.3	1160.7	389.7	212.1	182.5	176.7	166.9
60°	5313.8	5225.8	5095.1	4952.1	4239.4	1189.5	357.6	194.8	170.2	165.2	157.8
62.5°	6218.1	6063.5	5915.5	5783.2	4974.3	1188.7	315.7	181.7	161.1	158.7	151.3
65°	6255.1	6098.0	5949.2	5810.3	4990.7	1058.0	266.3	170.2	159.5	158.7	146.3
67.5°	5922.9	5752.8	5608.9	5433.8	4620.0	827.0	213.7	162.8	166.1	164.4	144.7
70°	5380.4	5158.4	5040.0	4867.4	4065.9	578.7	175.9	165.2	180.0	175.1	147.1
72.5°	4222.9	4055.2	3875.2	3755.2	3183.0	365.8	148.0	166.9	185.8	177.6	153.7
75°	1571.8	1617.0	1543.0	1516.7	1617.0	214.6	131.5	155.4	166.1	153.7	139.8
77.5°	317.3	303.3	287.7	284.4	367.5	132.4	120.8	134.8	127.4	112.6	113.4
80°	152.1	148.0	143.0	142.2	136.5	110.2	111.8	115.1	96.2	87.1	92.9
82.5°	101.1	95.4	93.7	90.4	92.1	98.6	106.0	98.6	74.0	69.1	83.9
85°	46.9	45.2	44.4	44.4	49.3	88.8	88.0	72.3	51.0	49.3	83.9
87.5°	11.5	11.5	12.3	11.5	13.2	26.3	23.0	22.2	18.9	21.4	39.5
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):

	165°	175°	180°
0°	784.2	784.2	784.2
2.5°	790.0	790.8	790.0
5°	797.4	797.4	797.4
7.5°	797.4	794.9	794.1
10°	785.9	778.5	778.5
12.5°	766.2	753.8	752.2
15°	729.2	712.7	710.3
17.5°	682.3	660.1	656.0
20°	629.7	601.7	596.8
22.5°	572.2	540.1	537.6
25°	515.4	482.5	476.0
27.5°	452.1	420.1	416.8
30°	388.8	360.9	359.2
32.5°	335.4	318.1	314.8
35°	297.6	287.7	283.6
37.5°	272.9	265.5	264.7
40°	254.0	247.4	246.6
42.5°	238.4	232.6	231.8
45°	222.8	217.8	216.2
47.5°	207.2	202.2	201.4
50°	193.2	186.6	185.8
52.5°	180.0	173.5	171.8
55°	167.7	161.1	161.1
57.5°	157.0	150.4	149.6
60°	147.1	140.6	139.8
62.5°	139.8	131.5	130.7
65°	134.0	125.8	124.1
67.5°	130.7	120.8	118.4
70°	136.5	118.4	114.3
72.5°	137.3	115.9	110.2
75°	132.4	109.3	105.2
77.5°	115.9	97.8	93.7
80°	100.3	75.6	69.9
82.5°	95.4	61.7	53.4
85°	74.0	40.3	37.8
87.5°	41.9	22.2	18.1
90°	0.0	0.0	0.0

(END OF REPORT)