

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: P180327

Luminaire Tested: **ICS-E02-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-RW-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5136.1 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 52.1
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

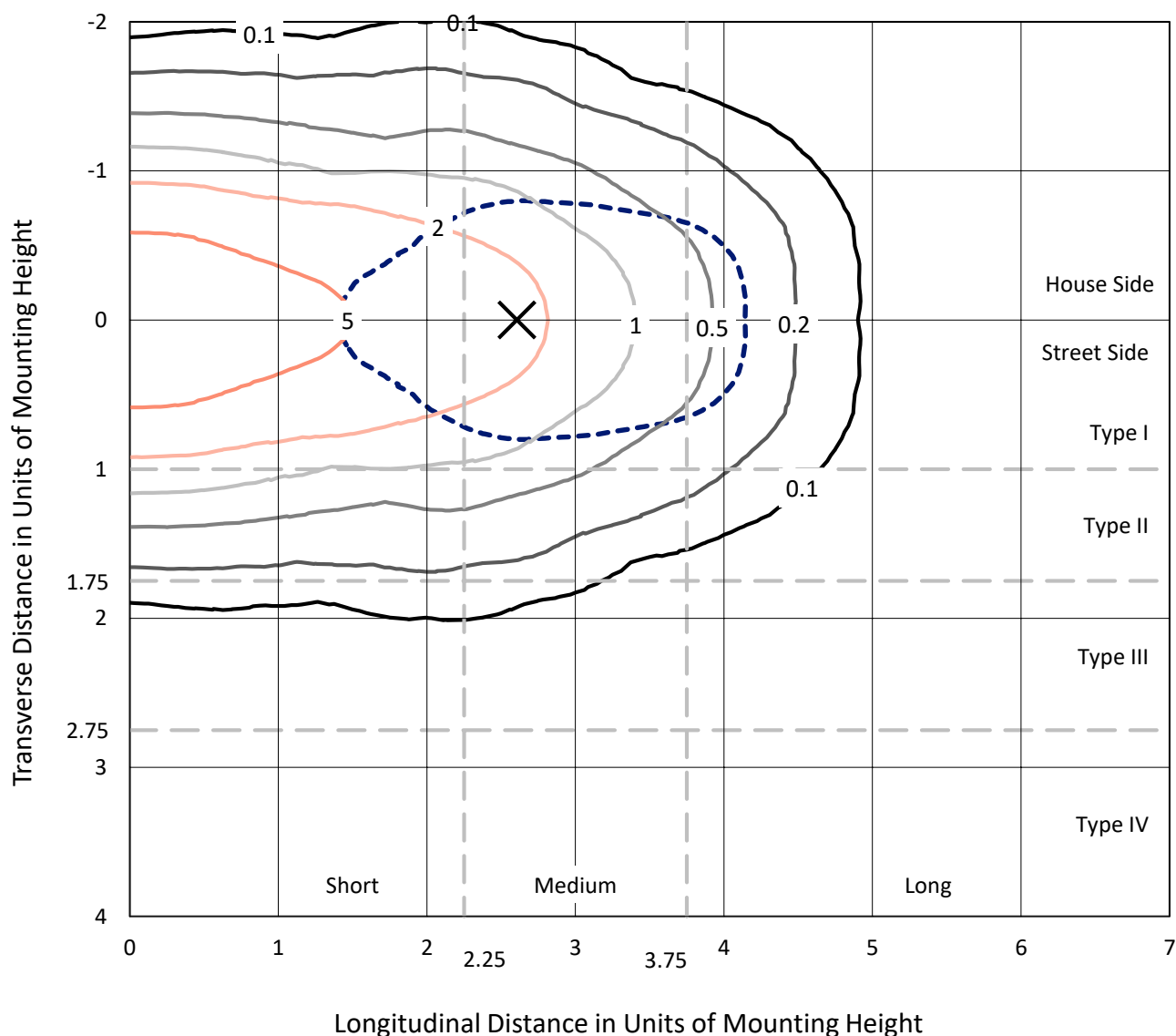


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

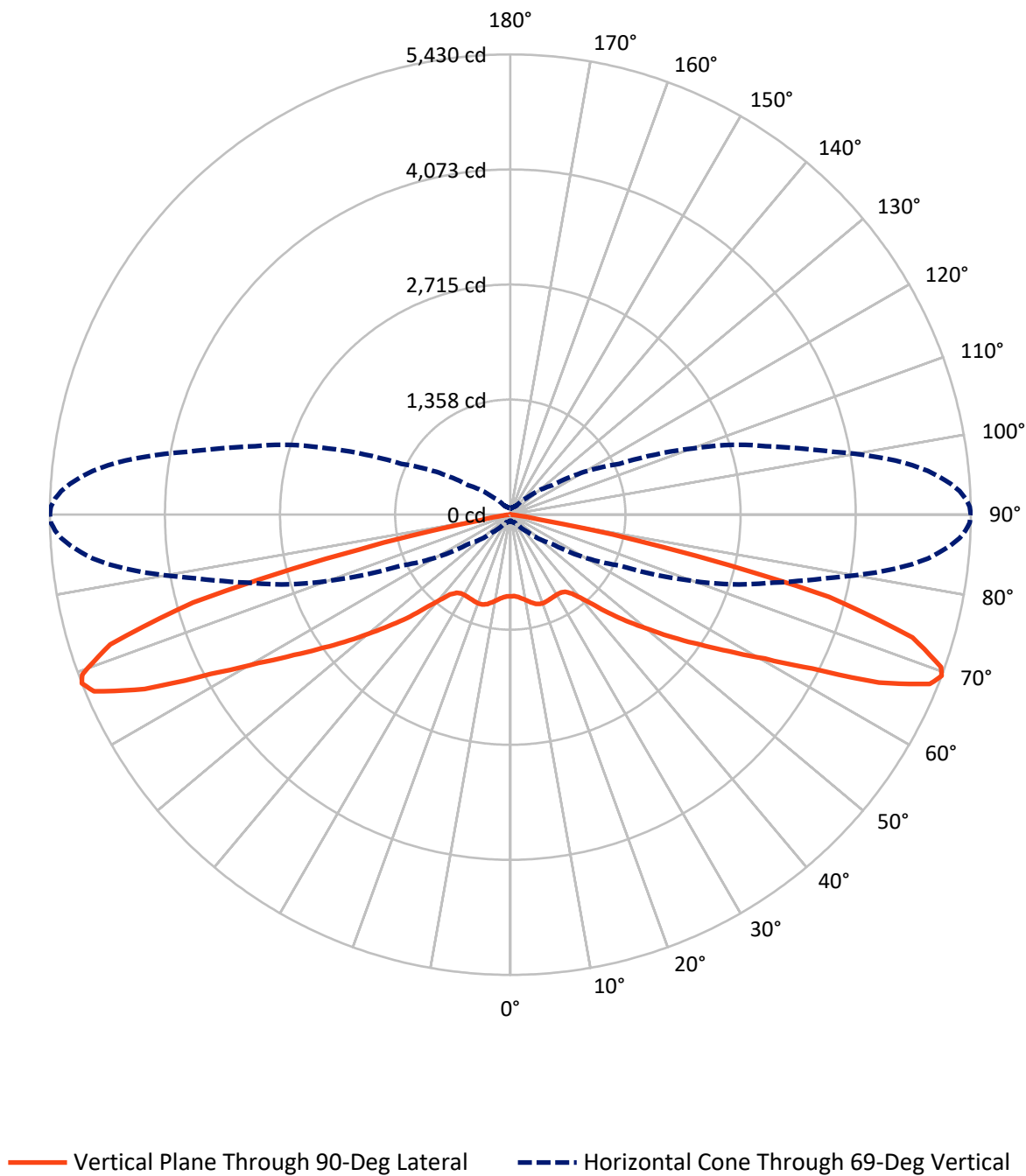


Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



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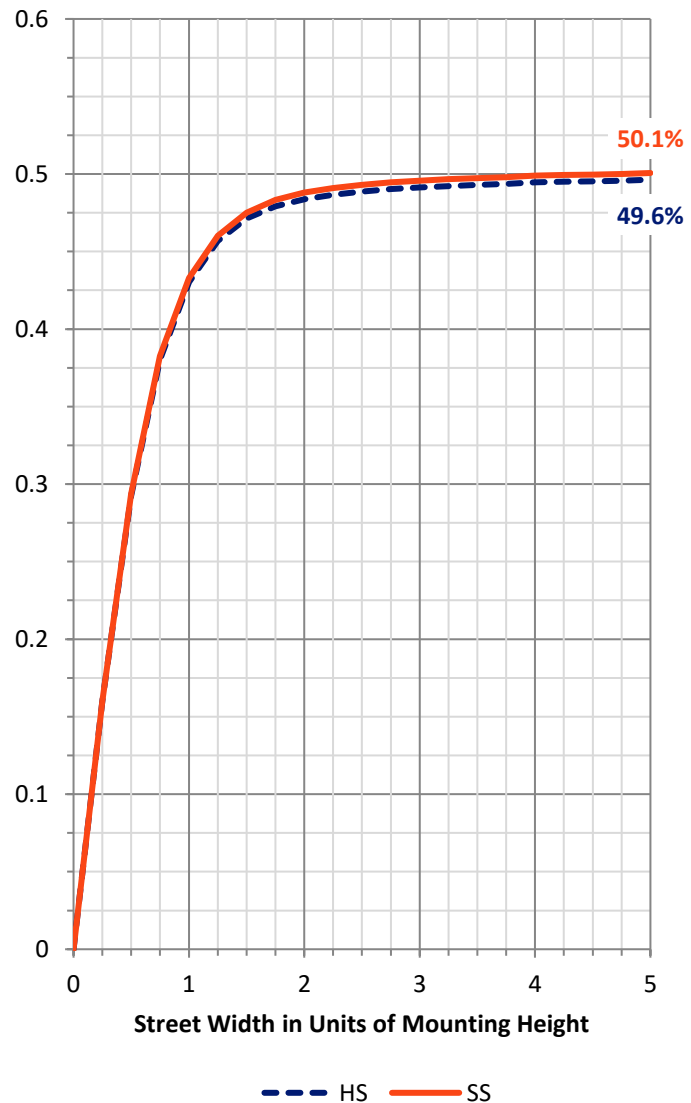
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2568.1	0.0	2568.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2568.1	0.0	2568.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5136.1	0.0	5136.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.8
10°-20°	297.8	5.8
20°-30°	482.4	9.4
30°-40°	601.2	11.7
40°-50°	751.3	14.6
50°-60°	927.7	18.1
60°-70°	1152.8	22.4
70°-80°	765.3	14.9
80°-90°	63.2	1.2
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°	5136.1	100.0
0°-180°	5136.1	100.0

Coefficient of Utilization



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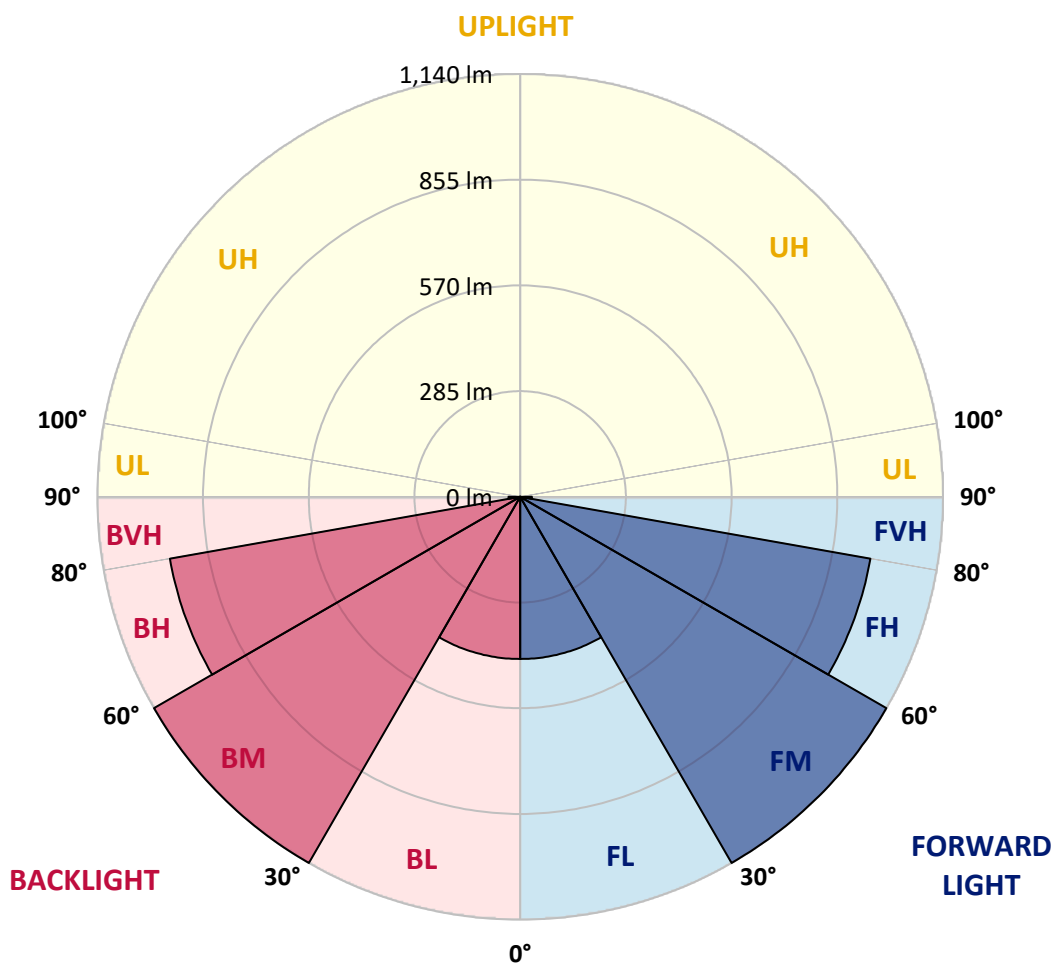
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	437.3	8.5			
FM	(30°-60°)	1140.1	22.2			
FH	(60°-80°)	959.0	18.7			G1/1800
FVH	(80°-90°)	31.6	0.6			G1/100
BL	(0°-30°)	437.3	8.5	B1/500		
BM	(30°-60°)	1140.1	22.2	B2/2500		
BH	(60°-80°)	959.0	18.7	B2/1000		G2/1000
BVH	(80°-90°)	31.6	0.6			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4
2.5°	966.8	967.6	967.0	968.1	967.8	967.8	967.3	966.2	965.5	965.0	965.1
5°	976.0	975.0	976.6	978.2	977.7	978.0	977.7	977.7	977.2	977.1	977.0
7.5°	986.0	985.6	986.8	991.2	991.6	993.4	995.2	996.6	996.9	997.2	996.9
10°	994.4	994.7	997.4	1003.8	1007.0	1012.2	1017.4	1021.6	1023.0	1024.0	1023.9
12.5°	1001.2	1001.6	1005.6	1015.6	1023.4	1033.3	1044.6	1050.8	1053.6	1054.1	1054.6
15°	1001.8	1002.6	1009.8	1025.9	1041.8	1057.9	1071.4	1079.9	1082.1	1083.6	1083.7
17.5°	994.6	995.2	1007.3	1031.1	1057.7	1083.0	1096.9	1100.8	1101.6	1102.1	1101.8
20°	976.1	977.4	994.4	1029.8	1070.3	1103.2	1117.7	1112.5	1109.9	1109.6	1109.3
22.5°	945.9	945.6	967.8	1015.6	1072.8	1119.1	1132.0	1118.3	1110.2	1108.5	1107.4
25°	897.2	900.4	926.4	983.4	1058.8	1122.7	1142.1	1121.3	1109.6	1107.1	1103.9
27.5°	844.2	846.2	873.8	935.0	1026.2	1110.4	1147.0	1127.4	1114.3	1110.7	1107.0
30°	782.7	785.0	814.7	878.5	973.9	1078.5	1145.6	1141.0	1125.8	1121.5	1116.8
32.5°	722.3	725.0	751.7	821.5	918.8	1035.0	1137.4	1160.4	1144.8	1140.0	1135.2
35°	659.8	664.0	696.3	767.0	865.6	986.5	1124.8	1185.4	1176.8	1172.5	1168.3
37.5°	608.0	608.8	640.2	714.4	816.3	940.2	1108.2	1216.9	1223.2	1223.2	1223.8
40°	550.2	555.4	586.6	665.0	771.6	901.0	1092.2	1259.7	1292.4	1298.4	1303.0
42.5°	498.4	499.0	530.8	611.6	723.1	869.5	1083.4	1311.2	1381.2	1394.0	1406.8
45°	443.9	446.1	474.9	553.0	667.2	832.2	1083.2	1370.6	1482.4	1503.9	1523.8
47.5°	392.4	393.2	423.6	496.2	603.1	780.2	1081.2	1434.4	1586.7	1618.4	1644.2
50°	343.1	342.3	372.2	442.0	539.8	711.9	1064.6	1506.8	1699.0	1735.1	1767.0
52.5°	286.6	290.5	321.4	388.3	482.3	642.6	1015.8	1586.0	1815.9	1857.6	1897.7
55°	231.2	233.0	266.1	328.5	424.0	577.9	930.9	1658.9	1929.9	1977.2	2021.8
57.5°	170.5	175.4	204.4	266.1	364.7	523.4	822.9	1696.8	2026.5	2081.0	2134.0
60°	120.3	124.2	149.9	201.6	299.8	466.1	730.0	1675.6	2104.2	2173.9	2237.5
62.5°	93.8	96.7	117.2	151.0	233.8	408.8	663.4	1607.4	2190.5	2281.4	2368.1
65°	82.2	85.0	103.6	120.8	174.6	350.4	627.0	1535.3	2306.1	2440.0	2560.9
67.5°	74.2	77.6	93.7	105.8	142.2	305.8	617.4	1489.9	2362.9	2537.2	2700.2
69°	70.6	74.0	88.5	98.6	132.1	290.0	600.9	1418.3	2286.3	2472.6	2650.7
70°	68.6	71.2	84.7	95.1	128.8	279.0	573.5	1329.0	2181.4	2369.4	2555.6
72.5°	63.6	64.9	76.8	86.8	119.4	225.5	441.2	987.0	1725.9	1909.3	2090.0
75°	56.2	57.8	68.8	78.6	93.2	140.0	279.2	610.5	1162.1	1298.7	1466.3
77.5°	48.5	49.9	59.4	75.1	72.4	87.4	166.9	339.8	659.7	739.1	848.1
80°	39.0	40.6	49.0	74.6	59.7	68.0	120.0	237.6	323.9	347.5	373.7
82.5°	28.5	29.8	38.4	60.3	45.8	51.2	91.5	201.4	231.4	242.2	247.4
85°	14.6	14.8	24.4	36.7	29.0	26.6	51.5	137.8	157.0	159.7	163.7
87.5°	2.4	2.4	5.5	6.3	7.2	4.4	6.5	23.6	27.2	27.1	29.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4	962.4
2.5°	965.5	965.3	965.6	965.7	966.0	965.0	964.8	964.6	964.6	965.1	964.6
5°	977.3	977.2	977.4	977.9	977.7	977.1	977.0	977.2	976.4	976.0	976.6
7.5°	997.4	997.1	996.6	997.5	998.1	998.1	998.7	998.2	998.0	997.8	998.2
10°	1024.8	1024.7	1024.8	1025.7	1026.4	1026.5	1027.2	1026.5	1026.2	1026.8	1026.8
12.5°	1055.7	1055.1	1056.4	1056.9	1057.7	1059.4	1058.5	1059.6	1058.8	1060.2	1060.2
15°	1084.6	1085.0	1086.2	1086.7	1086.9	1088.2	1088.4	1089.2	1088.1	1088.4	1090.6
17.5°	1102.6	1102.4	1103.2	1103.7	1104.4	1105.1	1106.3	1107.0	1106.4	1106.5	1107.6
20°	1108.7	1107.9	1108.1	1108.5	1108.6	1109.3	1110.2	1110.3	1110.3	1110.6	1111.7
22.5°	1105.7	1104.3	1102.9	1103.0	1103.2	1103.0	1103.6	1104.0	1104.6	1105.2	1106.5
25°	1101.6	1098.4	1095.8	1095.6	1094.8	1094.9	1095.2	1095.2	1095.8	1096.6	1097.7
27.5°	1102.0	1097.8	1093.6	1092.2	1090.7	1089.7	1089.3	1088.7	1089.2	1090.0	1091.2
30°	1111.4	1104.8	1098.8	1097.0	1094.8	1093.0	1091.3	1089.5	1088.4	1089.2	1089.8
32.5°	1127.9	1121.4	1115.6	1112.5	1109.5	1106.3	1103.2	1101.3	1098.8	1098.0	1097.8
35°	1163.0	1157.9	1152.5	1149.1	1144.1	1141.5	1137.8	1132.5	1128.7	1128.4	1126.2
37.5°	1222.1	1219.6	1215.8	1212.3	1210.6	1203.8	1199.4	1196.6	1192.3	1195.0	1190.4
40°	1307.1	1311.2	1314.8	1312.7	1313.3	1311.5	1308.9	1311.4	1308.4	1307.6	1308.4
42.5°	1416.0	1430.5	1440.6	1443.7	1451.8	1455.0	1460.9	1470.1	1468.2	1478.6	1480.6
45°	1542.2	1562.9	1583.0	1598.0	1614.3	1632.8	1651.4	1666.0	1677.6	1677.0	1689.6
47.5°	1670.9	1701.5	1728.2	1750.7	1780.1	1807.3	1837.3	1867.4	1889.4	1897.6	1900.3
50°	1801.4	1836.6	1873.2	1906.3	1946.0	1989.5	2036.5	2083.6	2107.2	2126.4	2139.2
52.5°	1938.0	1978.4	2017.4	2064.1	2113.0	2170.5	2229.3	2296.3	2331.9	2368.1	2387.2
55°	2068.0	2113.0	2153.2	2215.8	2275.8	2344.4	2421.2	2505.9	2567.6	2610.0	2647.6
57.5°	2186.0	2234.0	2283.4	2353.9	2430.5	2510.6	2608.0	2710.9	2778.0	2852.0	2918.6
60°	2301.4	2361.7	2418.5	2510.7	2601.8	2701.3	2822.6	2952.8	3056.7	3157.2	3234.0
62.5°	2454.3	2531.8	2602.4	2718.3	2837.3	2960.4	3104.6	3258.6	3409.4	3545.8	3649.2
65°	2680.2	2794.1	2899.6	3046.6	3196.8	3358.8	3530.9	3727.8	3908.6	4089.2	4237.2
67.5°	2851.8	2995.9	3131.5	3309.1	3485.9	3673.7	3881.7	4114.1	4338.0	4541.6	4721.9
69°	2818.1	2971.0	3117.8	3299.2	3483.0	3674.8	3884.6	4131.7	4364.3	4585.5	4778.9
70°	2715.7	2874.9	3027.1	3207.0	3393.2	3585.5	3805.2	4047.8	4286.0	4521.6	4717.0
72.5°	2250.7	2410.5	2558.2	2742.4	2929.8	3131.8	3339.7	3576.2	3830.6	4082.4	4253.6
75°	1613.6	1754.9	1898.1	2053.9	2236.8	2403.2	2593.5	2819.2	3032.9	3228.2	3359.2
77.5°	953.7	1038.4	1140.5	1213.8	1319.9	1411.5	1508.4	1633.7	1699.4	1825.5	1857.8
80°	388.6	386.3	401.4	386.4	389.8	377.5	364.4	362.0	341.5	367.2	348.0
82.5°	246.8	229.6	211.2	185.8	163.5	139.9	118.3	100.3	97.0	97.6	96.4
85°	162.6	155.1	138.6	116.6	95.0	76.2	61.0	48.2	47.7	46.8	46.6
87.5°	29.4	27.3	22.4	19.2	16.2	12.1	8.5	6.3	6.1	6.0	7.1
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):

	84°	85°	86°	87°	88°	89°	90°
0°	962.4	962.4	962.4	962.4	962.4	962.4	962.4
2.5°	964.6	964.6	964.3	964.8	964.6	963.8	962.9
5°	977.2	976.0	976.9	977.7	976.4	976.6	976.1
7.5°	998.2	998.0	998.2	997.4	996.9	997.7	998.5
10°	1027.8	1027.3	1027.1	1027.8	1027.3	1026.8	1027.0
12.5°	1061.0	1061.0	1060.7	1061.0	1060.7	1059.9	1059.4
15°	1090.4	1090.8	1090.9	1090.3	1090.1	1089.8	1090.1
17.5°	1108.4	1108.1	1108.2	1108.1	1107.8	1108.2	1108.7
20°	1113.1	1112.2	1112.2	1112.8	1112.2	1112.8	1113.1
22.5°	1106.8	1106.8	1106.8	1107.0	1107.6	1107.6	1108.1
25°	1098.8	1098.8	1098.8	1099.4	1099.4	1099.6	1099.9
27.5°	1092.5	1092.5	1092.5	1093.1	1093.1	1093.4	1093.9
30°	1090.6	1090.6	1090.4	1090.6	1090.8	1090.9	1091.1
32.5°	1098.0	1097.2	1096.9	1096.4	1095.8	1095.8	1095.5
35°	1124.0	1121.8	1122.1	1120.4	1121.0	1119.6	1118.5
37.5°	1187.3	1185.1	1182.6	1179.4	1177.5	1179.9	1179.9
40°	1305.7	1307.1	1301.1	1299.4	1295.8	1298.3	1301.6
42.5°	1481.6	1483.2	1484.4	1475.3	1475.0	1473.2	1467.7
45°	1690.2	1686.4	1688.0	1683.8	1682.2	1676.2	1683.6
47.5°	1910.8	1913.2	1903.4	1900.0	1905.8	1896.0	1897.3
50°	2146.7	2147.2	2139.8	2138.2	2143.4	2124.8	2133.5
52.5°	2401.0	2402.1	2407.8	2401.0	2403.7	2399.3	2408.1
55°	2671.4	2692.0	2693.9	2701.3	2701.8	2710.9	2701.8
57.5°	2955.6	2978.9	3000.8	3030.6	3037.2	3033.6	3039.4
60°	3297.8	3358.9	3391.8	3438.7	3446.1	3466.4	3448.8
62.5°	3746.1	3841.2	3913.0	3949.2	3971.1	4013.6	3999.6
65°	4373.1	4486.2	4595.3	4647.4	4705.0	4765.2	4776.2
67.5°	4886.6	5012.4	5125.8	5216.0	5286.1	5330.5	5334.1
69°	4950.7	5084.5	5203.9	5304.2	5372.4	5418.0	5430.0
70°	4892.9	5029.6	5156.2	5251.8	5328.0	5374.4	5390.5
72.5°	4433.4	4596.1	4697.5	4795.0	4902.5	4916.4	4960.9
75°	3509.4	3655.4	3754.8	3780.6	3836.8	3907.5	3882.3
77.5°	1830.4	1894.0	1915.2	1870.2	1868.0	1909.4	1827.2
80°	348.6	349.1	343.3	341.2	345.2	341.2	335.4
82.5°	98.4	97.0	96.2	98.4	98.1	97.8	99.7
85°	45.5	44.1	42.0	41.9	43.0	41.4	42.2
87.5°	6.3	5.2	5.2	5.2	5.0	5.0	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)