

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: P156477

Luminaire Tested: **VXS-F03-LED-E1-T4-7060**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156477
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: VXS-F03-LED-E1-T4-7060
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7679.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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

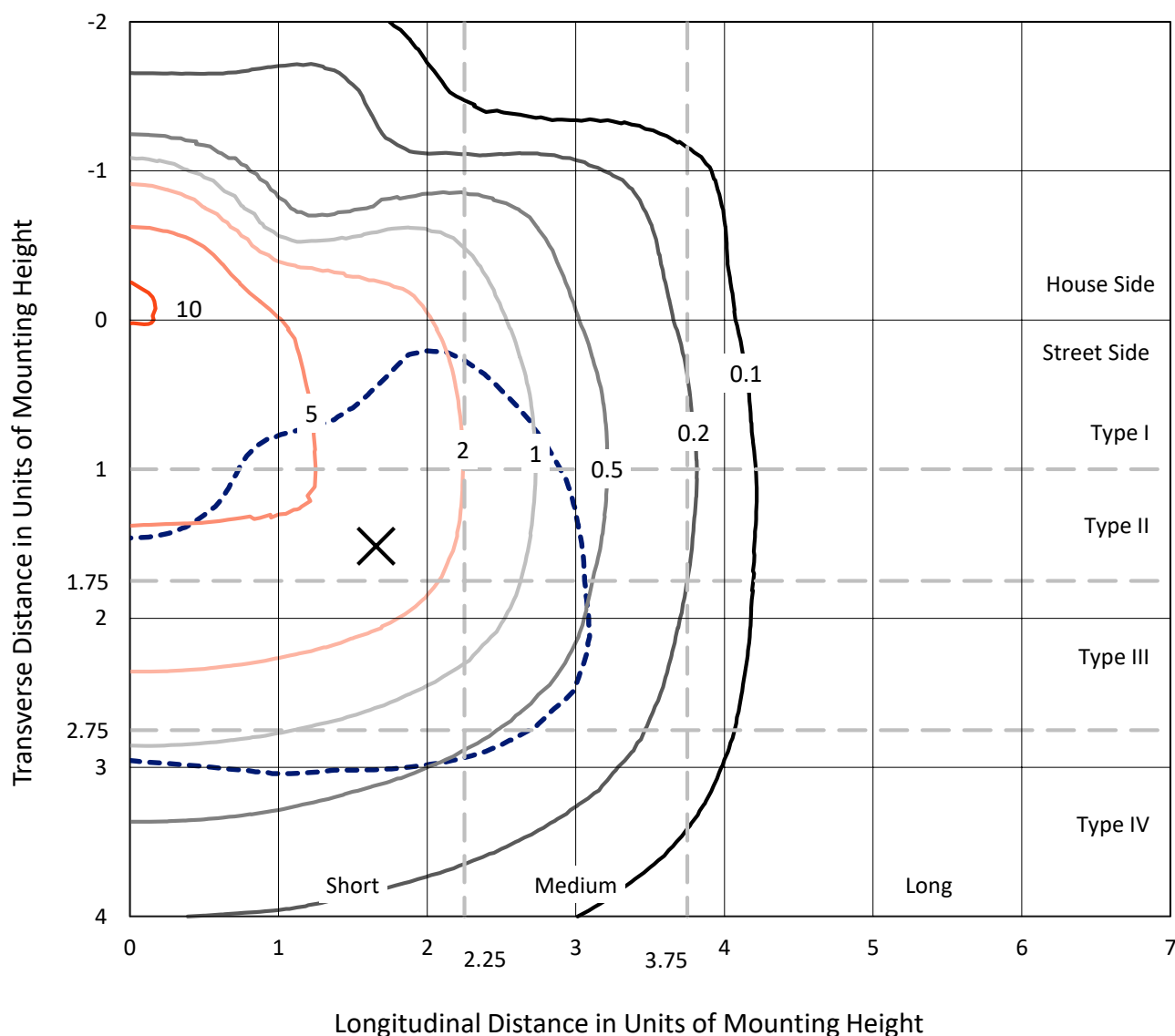


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

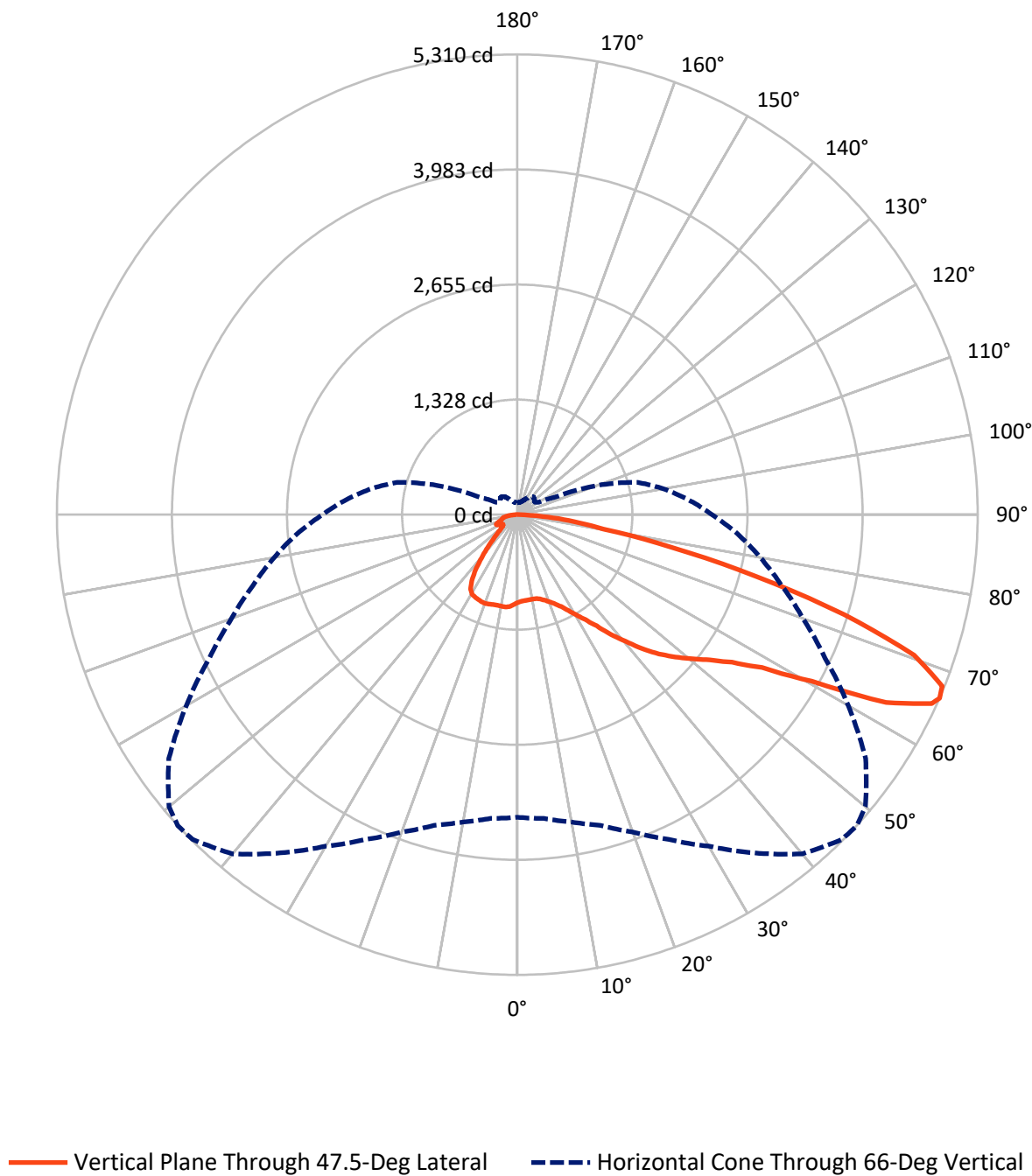


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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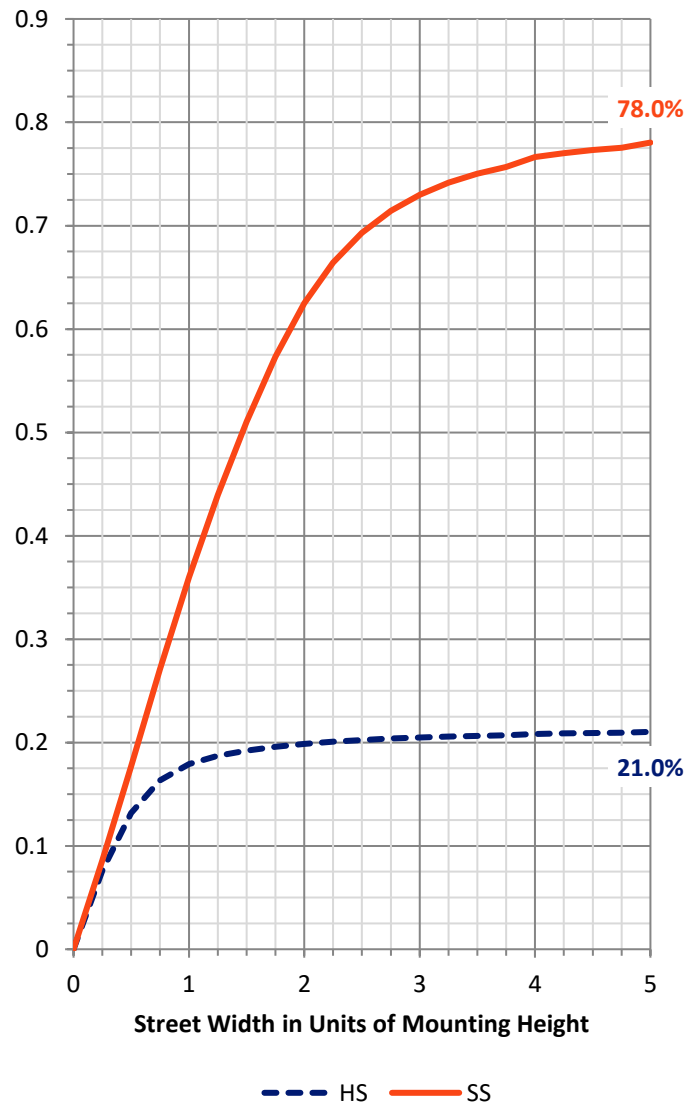
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1638.7	0.0	1638.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6041.0	0.0	6041.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	7679.7	0.0	7679.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.3
10°-20°	298.4	3.9
20°-30°	514.0	6.7
30°-40°	777.7	10.1
40°-50°	1008.0	13.1
50°-60°	1389.8	18.1
60°-70°	2159.2	28.1
70°-80°	1255.6	16.3
80°-90°	178.5	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°	7679.7	100.0
0°-180°	7679.7	100.0

Coefficient of Utilization



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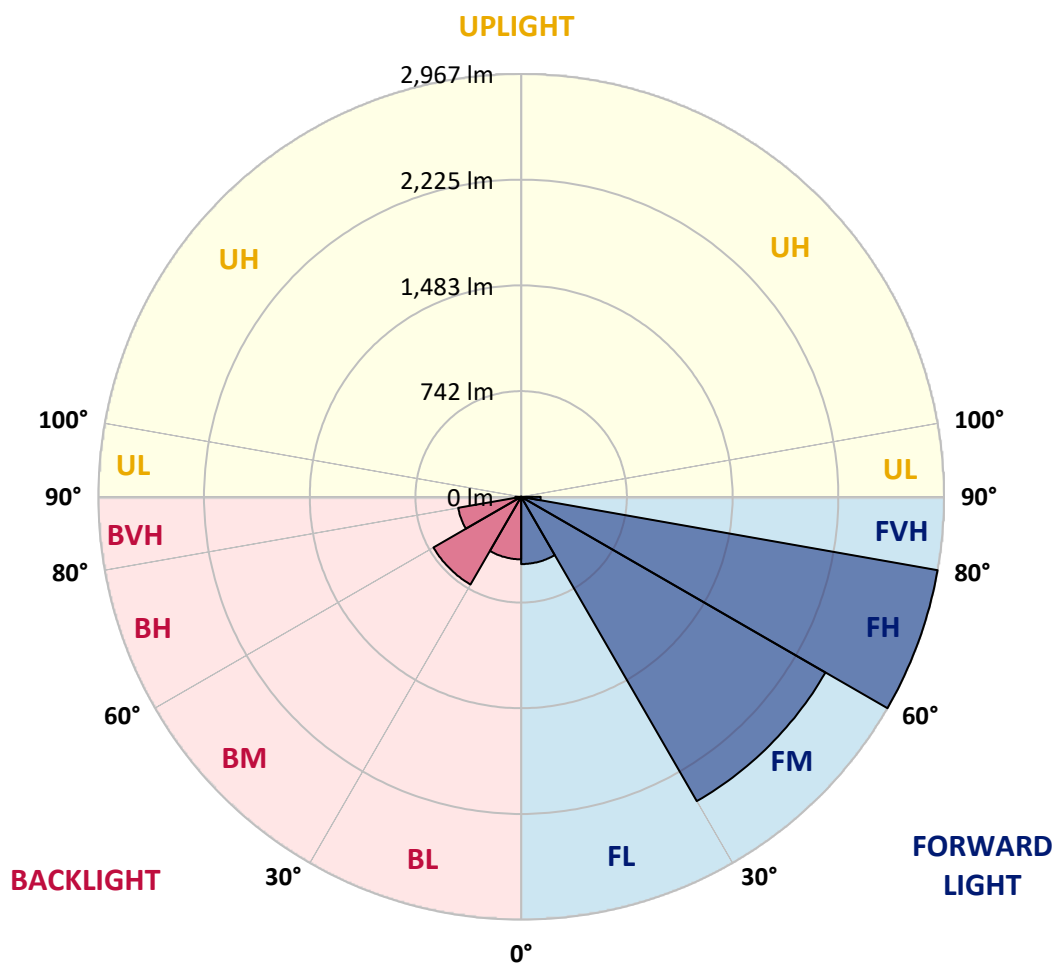
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.2	6.1			
FM	(30°-60°)	2465.2	32.1			
FH	(60°-80°)	2966.7	38.6			G2/5000
FVH	(80°-90°)	137.0	1.8			G2/225
BL	(0°-30°)	438.6	5.7	B1/500		
BM	(30°-60°)	710.3	9.2	B1/1000		
BH	(60°-80°)	448.2	5.8	B1/500		G1/500
BVH	(80°-90°)	41.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-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°	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	993.6	997.0	994.5	995.3	995.3	996.2	996.2	997.0	996.2	998.7	1000.4
5°	975.9	977.5	976.7	978.3	980.1	983.4	982.6	986.8	987.7	990.3	994.5
7.5°	969.0	967.4	968.2	970.8	972.4	974.1	975.9	979.2	981.8	987.7	991.1
10°	975.9	975.0	975.9	977.5	977.5	978.3	976.7	980.1	981.8	986.8	990.3
12.5°	1003.8	1003.8	1002.1	1002.1	1000.4	998.7	994.5	991.9	991.1	991.9	993.6
15°	1048.7	1046.9	1043.6	1041.0	1037.6	1031.7	1025.8	1020.7	1017.3	1012.2	1010.6
17.5°	1092.7	1090.2	1086.8	1083.4	1079.2	1073.3	1063.9	1058.0	1048.7	1042.8	1039.4
20°	1143.5	1138.4	1134.2	1129.9	1121.6	1119.8	1110.5	1100.3	1089.3	1075.8	1074.1
22.5°	1209.6	1201.1	1196.1	1193.6	1185.1	1182.5	1167.3	1152.8	1139.3	1121.6	1117.3
25°	1276.6	1268.1	1265.5	1262.2	1256.2	1252.8	1238.4	1222.3	1204.6	1180.0	1174.9
27.5°	1341.8	1342.6	1335.9	1338.3	1336.7	1330.8	1316.4	1300.3	1286.7	1257.9	1252.0
30°	1423.1	1418.0	1414.6	1419.7	1413.8	1414.6	1401.9	1393.5	1371.4	1354.5	1342.6
32.5°	1507.8	1506.9	1512.0	1515.4	1514.6	1512.8	1502.7	1494.2	1474.7	1450.2	1445.1
35°	1623.8	1628.9	1633.2	1648.4	1648.4	1659.4	1649.2	1639.1	1616.3	1586.5	1576.4
37.5°	1702.6	1704.4	1721.2	1741.6	1767.0	1790.7	1797.5	1800.0	1790.7	1768.7	1753.5
40°	1774.6	1778.0	1805.1	1836.5	1873.8	1920.3	1948.3	1960.9	1963.5	1953.4	1920.3
42.5°	1846.6	1851.7	1879.7	1925.4	1977.1	2036.4	2085.5	2116.9	2134.6	2134.6	2115.1
45°	1930.5	1937.3	1967.8	2017.7	2077.9	2152.4	2220.2	2280.3	2309.1	2310.8	2292.2
47.5°	2029.6	2035.5	2071.1	2122.0	2183.7	2259.2	2344.7	2413.4	2466.7	2470.1	2454.8
50°	2157.5	2166.0	2195.6	2241.3	2304.9	2381.1	2466.7	2562.4	2618.3	2631.8	2615.8
52.5°	2326.9	2328.6	2353.2	2395.5	2457.4	2530.3	2620.8	2725.1	2798.8	2809.7	2783.5
55°	2560.7	2558.1	2574.3	2620.0	2666.6	2723.3	2817.4	2934.3	3016.5	3033.4	3006.3
57.5°	2878.3	2875.9	2889.3	2900.4	2987.7	3042.7	3135.0	3246.8	3326.4	3375.6	3329.0
60°	3370.5	3368.0	3389.9	3454.4	3519.6	3600.1	3689.8	3823.7	3935.5	3949.9	3904.1
62.5°	3727.2	3739.8	3788.1	3863.5	3995.6	4153.2	4317.5	4493.8	4723.3	4796.2	4774.1
65°	3602.6	3628.0	3694.9	3809.3	3985.5	4203.2	4460.7	4780.0	5087.6	5259.5	5254.4
66°	3490.8	3518.8	3600.9	3711.1	3897.4	4135.4	4416.7	4764.8	5108.7	5298.4	5310.4
67.5°	3287.5	3318.9	3399.3	3529.7	3711.1	3964.4	4266.7	4645.4	5034.2	5255.2	5286.6
70°	2891.9	2927.5	2985.9	3093.5	3272.2	3498.4	3816.9	4155.8	4563.2	4816.5	4854.6
72.5°	2417.5	2448.9	2514.1	2602.2	2748.8	2891.1	3140.9	3390.9	3682.3	3971.1	3943.1
75°	1735.6	1749.2	1788.2	1883.9	1962.7	2090.6	2291.3	2496.4	2695.4	2827.6	2846.2
77.5°	902.2	937.7	992.7	1098.7	1184.2	1299.4	1429.8	1584.0	1729.7	1850.9	1817.8
80°	590.4	605.7	654.8	709.0	771.7	845.4	932.6	990.3	1008.9	1001.2	1008.9
82.5°	340.5	368.5	433.7	475.2	521.8	547.3	616.7	682.7	720.0	673.5	656.5
85°	43.2	56.0	176.2	222.0	254.1	292.2	313.4	353.3	329.5	294.8	359.2
87.5°	9.3	8.5	11.8	25.4	26.2	22.1	41.6	44.0	27.2	13.6	16.9
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	1002.1	1002.9	1004.7	1007.2	1008.9	1010.6	1012.2	1014.8	1016.5	1018.1	1021.6
5°	997.8	1001.2	1004.7	1008.0	1012.2	1019.1	1023.3	1026.6	1030.1	1036.8	1039.4
7.5°	995.3	1001.2	1006.3	1012.2	1019.1	1025.0	1032.5	1036.8	1041.9	1046.1	1051.2
10°	993.6	1002.1	1007.2	1015.6	1023.3	1029.2	1037.6	1042.8	1048.7	1053.8	1056.3
12.5°	997.0	1001.2	1006.3	1014.8	1024.1	1032.5	1041.9	1046.1	1051.2	1055.4	1056.3
15°	1011.4	1011.4	1012.2	1019.1	1028.4	1035.1	1042.8	1046.9	1049.5	1052.0	1052.0
17.5°	1037.6	1031.7	1027.5	1028.4	1034.3	1038.5	1042.8	1042.8	1041.0	1040.2	1038.5
20°	1068.2	1060.5	1052.0	1046.1	1044.5	1041.0	1038.5	1030.1	1023.3	1017.3	1013.1
22.5°	1112.2	1100.3	1088.5	1077.5	1067.4	1054.6	1040.2	1023.3	1007.2	996.2	989.4
25°	1166.4	1157.1	1142.7	1125.8	1113.1	1089.3	1070.7	1046.1	1025.8	1011.4	999.6
27.5°	1243.5	1232.5	1219.0	1203.7	1185.1	1158.8	1136.0	1107.2	1082.6	1061.3	1046.1
30°	1339.3	1324.9	1314.6	1296.1	1283.3	1253.7	1230.8	1195.2	1147.8	1113.9	1092.7
32.5°	1437.5	1421.3	1413.0	1398.5	1384.1	1366.3	1331.6	1276.6	1215.5	1160.5	1124.0
35°	1568.8	1551.8	1536.6	1523.9	1502.7	1469.6	1439.2	1373.2	1289.2	1212.1	1151.2
37.5°	1734.0	1706.0	1667.9	1635.8	1598.4	1551.0	1504.5	1436.7	1340.9	1240.9	1159.7
40°	1910.2	1861.0	1806.8	1746.6	1682.3	1613.7	1560.3	1491.7	1384.1	1265.5	1153.7
42.5°	2094.0	2016.1	1940.6	1856.0	1766.1	1684.9	1615.3	1540.0	1416.3	1272.3	1129.9
45°	2276.1	2188.8	2074.5	1963.5	1850.1	1749.2	1671.3	1586.5	1445.9	1274.8	1098.7
47.5°	2426.8	2337.1	2206.6	2067.7	1933.1	1818.7	1727.2	1635.8	1485.8	1292.6	1091.0
50°	2586.1	2476.9	2332.0	2167.7	2015.2	1887.3	1789.8	1695.0	1541.7	1338.3	1115.6
52.5°	2759.8	2634.4	2465.0	2281.1	2114.3	1971.2	1865.3	1767.9	1612.8	1402.8	1162.2
55°	2971.5	2818.2	2634.4	2426.8	2248.2	2089.7	1972.8	1857.6	1697.5	1479.0	1220.6
57.5°	3295.1	3107.0	2900.4	2664.0	2465.8	2278.7	2138.9	2005.9	1828.8	1592.5	1300.3
60°	3880.4	3679.7	3411.2	3124.9	2891.9	2673.4	2468.4	2303.2	2085.5	1816.2	1476.5
62.5°	4719.1	4452.2	4093.9	3693.3	3388.3	3073.2	2842.0	2596.3	2326.1	2035.5	1683.9
65°	5185.0	4861.3	4382.0	3916.9	3524.7	3182.5	2888.5	2603.9	2304.0	2026.2	1732.2
66°	5242.6	4905.4	4407.4	3917.7	3506.0	3154.5	2845.3	2550.6	2243.9	1978.8	1711.9
67.5°	5218.9	4874.1	4360.7	3844.0	3425.6	3047.8	2728.4	2422.6	2116.9	1869.5	1644.1
70°	4830.1	4503.0	3999.1	3498.4	3101.1	2728.4	2423.5	2122.8	1842.4	1630.6	1464.6
72.5°	4010.9	3731.4	3293.5	2900.4	2588.7	2281.1	2022.8	1735.6	1498.4	1341.8	1243.5
75°	2895.3	2725.9	2326.9	2101.6	1828.0	1623.8	1373.2	1202.8	1032.5	956.4	939.4
77.5°	1828.8	1600.9	1347.7	1109.6	912.3	756.5	588.7	499.8	416.8	408.3	493.0
80°	925.8	833.5	642.1	511.6	430.4	348.2	275.3	208.4	145.7	175.3	210.1
82.5°	606.5	505.7	396.5	326.1	283.7	235.4	183.0	127.0	93.2	105.1	144.0
85°	327.8	279.6	225.3	177.9	144.0	128.7	86.4	61.0	60.1	64.4	82.2
87.5°	23.7	23.7	18.7	16.9	20.3	16.9	15.2	15.2	14.4	15.2	20.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	1023.3	1025.8	1026.6	1030.9	1033.5	1035.1	1036.8	1036.8	1037.6	1040.2	1041.0
5°	1042.8	1046.9	1052.0	1055.4	1057.2	1062.3	1063.9	1063.9	1065.6	1069.0	1071.5
7.5°	1054.6	1060.5	1065.6	1067.4	1070.7	1072.4	1074.9	1076.7	1076.7	1080.0	1081.8
10°	1058.9	1062.3	1067.4	1067.4	1070.7	1070.7	1073.3	1074.1	1074.1	1077.5	1080.0
12.5°	1058.9	1060.5	1064.8	1064.8	1067.4	1068.2	1071.5	1074.1	1074.9	1079.2	1082.6
15°	1053.8	1055.4	1058.9	1059.7	1065.6	1069.0	1076.7	1081.8	1081.8	1085.9	1087.7
17.5°	1039.4	1043.6	1050.4	1057.2	1068.2	1075.8	1085.1	1089.3	1085.9	1083.4	1080.8
20°	1015.6	1023.3	1039.4	1056.3	1075.8	1085.9	1091.0	1086.8	1074.9	1063.1	1055.4
22.5°	991.9	1007.2	1034.3	1059.7	1081.8	1088.5	1085.9	1070.7	1051.2	1036.8	1026.6
25°	1002.9	1020.7	1046.9	1069.8	1084.2	1082.6	1072.4	1051.2	1030.1	1011.4	994.5
27.5°	1048.7	1068.2	1082.6	1090.2	1088.5	1076.7	1060.5	1036.8	1011.4	986.8	963.1
30°	1091.9	1102.1	1105.4	1099.5	1085.9	1066.4	1046.1	1019.1	985.2	954.6	927.6
32.5°	1111.4	1101.2	1085.1	1069.0	1046.9	1030.1	1002.1	972.4	930.1	893.7	866.5
35°	1111.4	1070.7	1030.1	996.2	963.1	942.0	909.7	869.9	831.0	800.5	779.3
37.5°	1086.8	1008.9	942.0	886.8	845.4	822.5	774.2	738.7	705.6	695.4	681.9
40°	1041.9	926.7	830.2	758.1	705.6	671.7	623.4	598.9	586.2	581.1	578.5
42.5°	981.8	835.2	706.4	617.5	560.7	522.7	490.5	475.2	474.4	473.5	473.5
45°	917.4	737.0	586.2	480.3	430.4	396.5	381.1	375.2	380.3	379.5	380.3
47.5°	877.6	662.4	476.1	363.4	325.3	303.2	295.6	298.1	302.4	300.7	300.7
50°	872.5	624.2	402.4	282.9	254.1	243.1	241.5	241.5	243.9	242.3	241.5
52.5°	891.1	618.3	364.2	243.1	220.2	210.9	209.2	208.4	207.6	202.5	198.2
55°	923.3	631.9	353.3	233.0	209.2	199.1	196.5	194.8	191.4	184.7	177.0
57.5°	987.7	674.3	363.4	238.0	212.6	204.1	201.6	201.6	194.8	183.8	172.8
60°	1142.7	781.9	404.9	257.5	228.7	220.2	222.0	221.0	210.9	194.8	177.9
62.5°	1342.6	922.5	459.1	284.7	249.0	247.4	255.9	254.1	237.2	212.6	188.1
65°	1434.9	988.5	474.4	290.6	253.3	260.9	277.8	276.2	254.9	221.0	189.7
66°	1436.7	988.5	467.6	285.5	247.4	256.7	273.6	272.7	251.6	217.7	186.3
67.5°	1401.9	961.5	448.1	275.3	235.4	242.3	257.5	256.7	237.2	209.2	179.6
70°	1271.5	860.6	398.1	257.5	219.4	216.0	221.0	217.7	205.0	185.5	165.2
72.5°	1089.3	722.6	347.3	243.9	208.4	194.8	191.4	188.9	178.8	167.8	155.0
75°	858.1	571.8	305.0	233.8	198.2	180.4	174.5	171.1	164.4	156.7	146.5
77.5°	529.4	409.1	266.0	220.2	190.6	172.8	168.6	163.5	153.4	144.0	136.4
80°	236.4	253.3	218.5	192.3	170.3	154.2	147.4	139.8	129.6	123.6	119.5
82.5°	157.5	163.5	158.4	144.0	128.7	116.1	105.9	105.9	104.1	99.1	97.4
85°	100.8	101.7	98.2	88.9	83.0	75.4	71.2	72.0	75.4	74.5	73.7
87.5°	22.9	22.9	27.2	25.4	29.6	31.3	33.9	36.4	41.6	41.6	44.0
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°	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	1041.9	1043.6	1045.3	1042.8	1043.6
5°	1071.5	1070.7	1074.9	1072.4	1074.1
7.5°	1080.8	1081.8	1085.1	1085.1	1085.9
10°	1081.8	1083.4	1087.7	1090.2	1091.9
12.5°	1085.9	1089.3	1096.2	1097.8	1097.8
15°	1089.3	1091.0	1095.2	1097.0	1098.7
17.5°	1077.5	1074.1	1075.8	1076.7	1075.8
20°	1047.9	1044.5	1043.6	1040.2	1041.9
22.5°	1015.6	1006.3	1000.4	993.6	993.6
25°	976.7	962.3	950.5	938.5	941.1
27.5°	940.2	921.7	909.7	902.2	900.4
30°	904.7	885.2	874.2	864.9	864.9
32.5°	845.4	831.8	817.4	811.5	810.7
35°	763.2	754.7	742.9	740.3	736.1
37.5°	670.9	668.4	658.1	657.3	653.1
40°	574.3	576.1	572.6	570.9	568.4
42.5°	477.7	486.2	484.6	483.7	482.0
45°	385.4	391.4	392.2	394.7	399.0
47.5°	303.2	305.0	306.6	305.8	306.6
50°	237.2	233.0	232.1	229.5	232.1
52.5°	191.4	184.7	181.2	177.9	176.2
55°	168.6	161.8	158.4	156.7	155.0
57.5°	162.6	155.9	150.8	147.4	146.5
60°	164.4	154.2	147.4	143.1	142.3
62.5°	168.6	155.0	145.7	141.5	140.6
65°	167.8	153.4	144.9	139.8	139.0
66°	165.2	151.6	143.1	139.0	138.0
67.5°	160.9	149.1	141.5	138.0	136.4
70°	153.4	145.7	139.8	135.5	133.9
72.5°	146.5	140.6	135.5	131.3	130.5
75°	139.0	133.9	128.7	125.4	124.6
77.5°	129.6	124.6	121.1	118.5	117.7
80°	114.4	111.0	107.6	104.1	104.1
82.5°	94.9	92.3	88.9	86.4	85.6
85°	72.8	72.8	70.3	67.8	66.9
87.5°	43.2	42.4	42.4	39.8	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)