

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: STREETWORKS

Report Number: P165500

Luminaire Tested: **VST-F06-LED-E-U-SL4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165500
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-SL4-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8404.7 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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: 28.75 FT

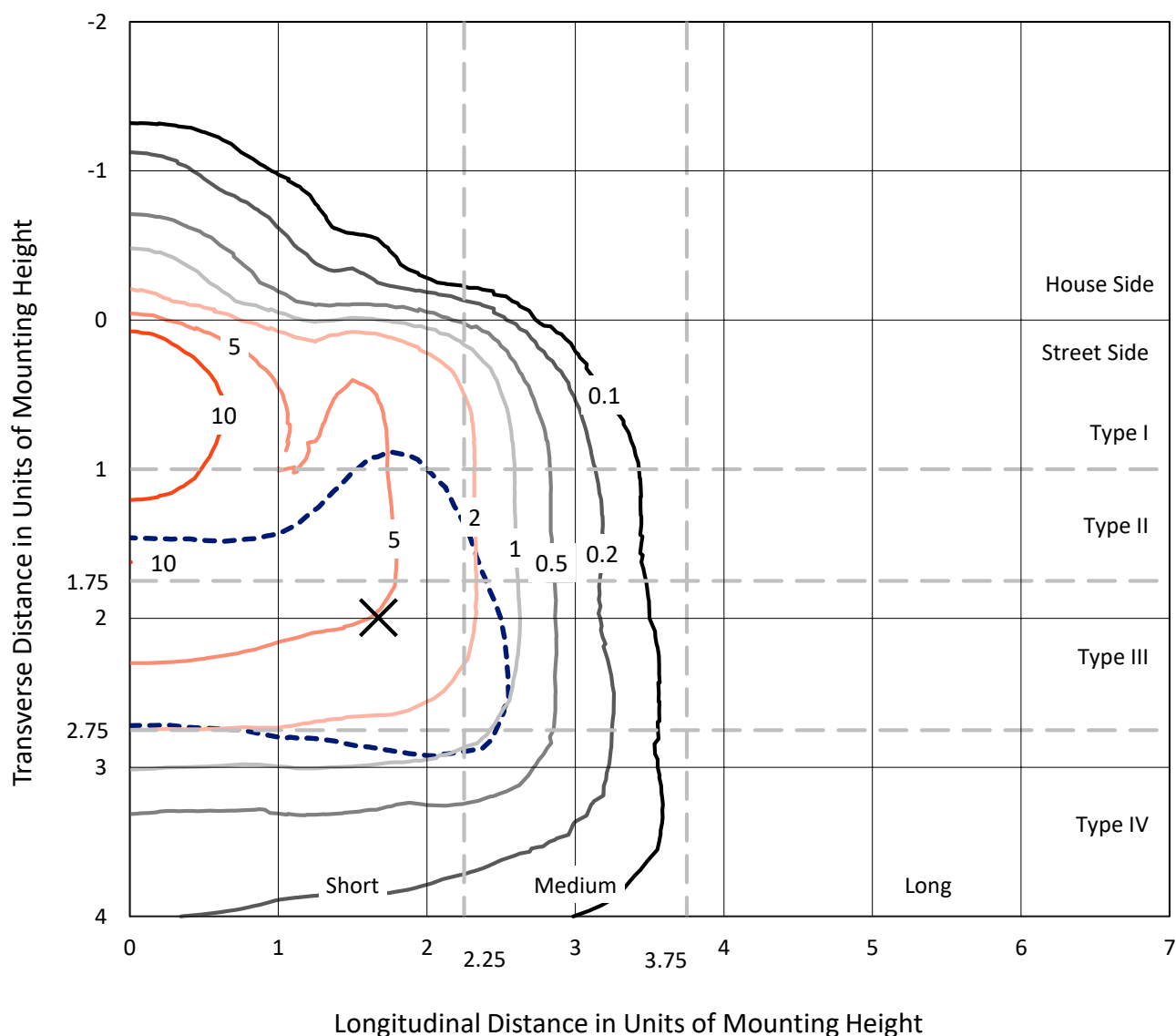


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

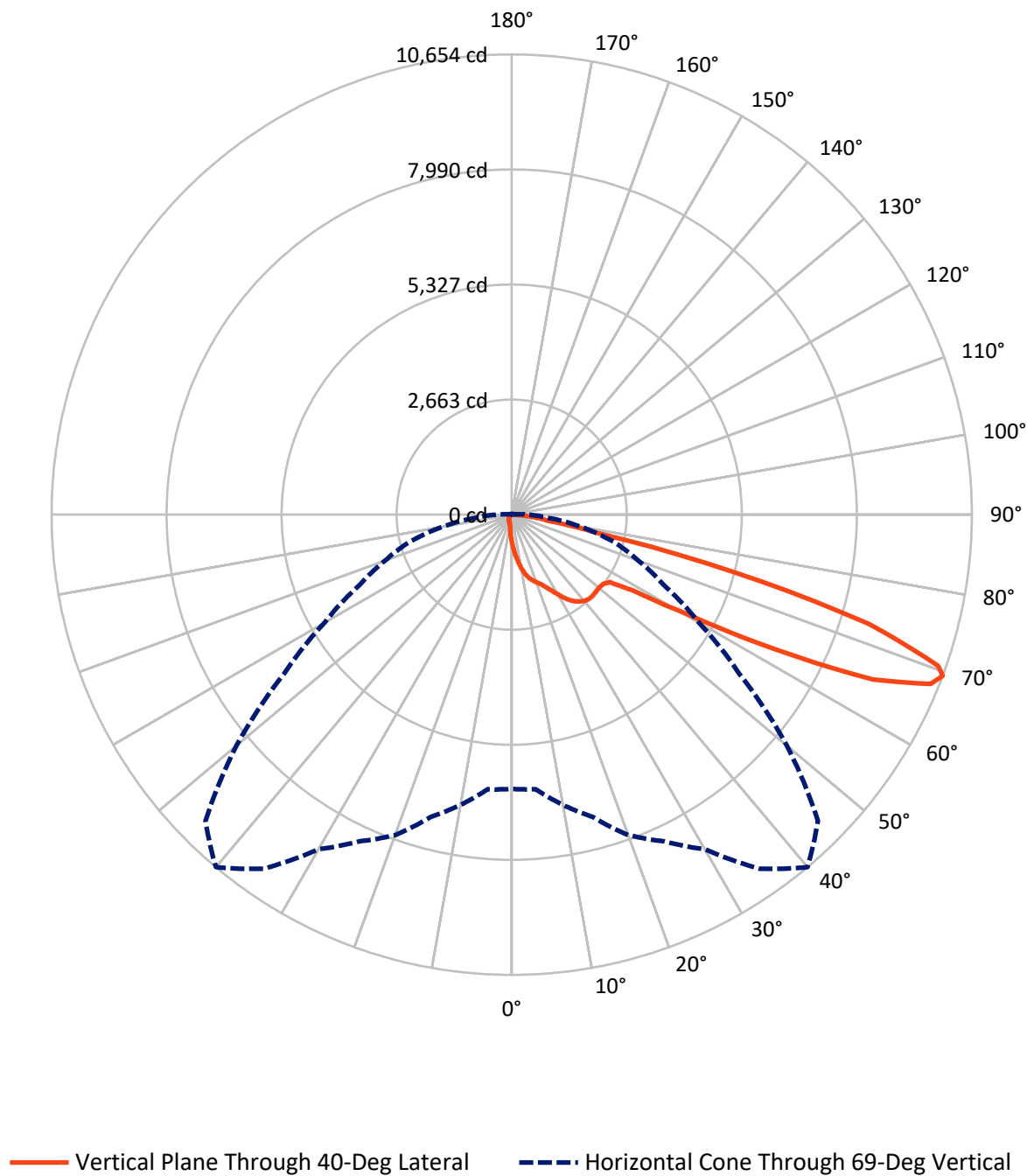


Based on 10 foot mounting height. Maximum calculated value = 18.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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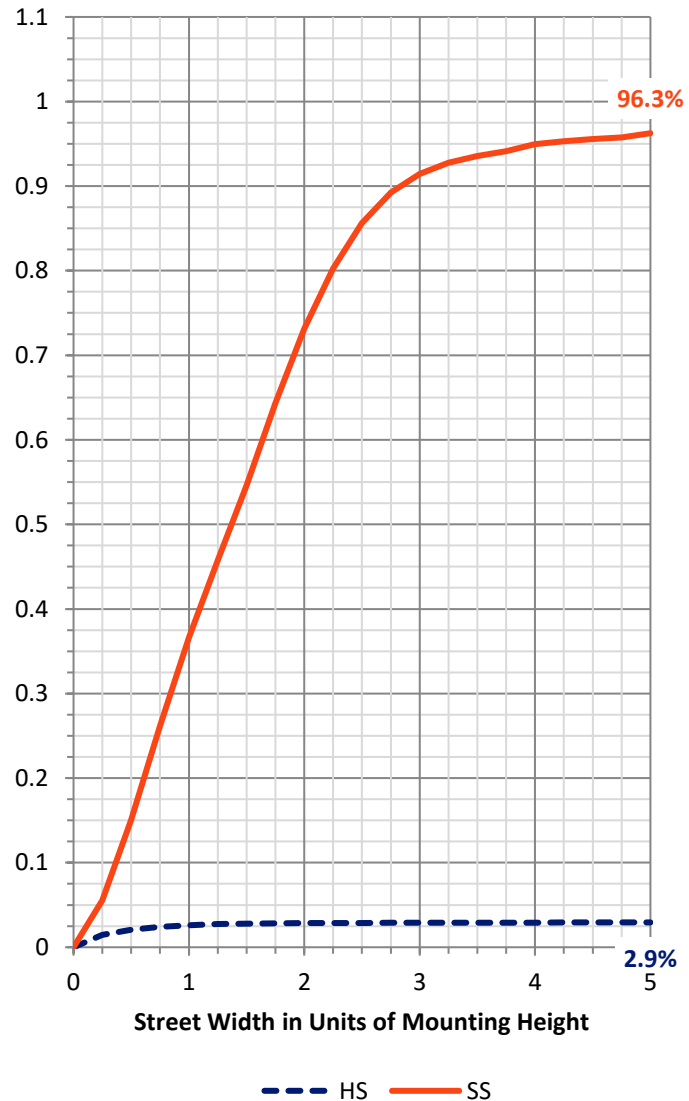
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	250.3	0.0	250.3
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	8154.4	0.0	8154.4
	% Fixture	97.0	0.0	97.0
Total	Lumens	8404.7	0.0	8404.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	0.8
10°-20°	224.9	2.7
20°-30°	430.5	5.1
30°-40°	715.9	8.5
40°-50°	968.8	11.5
50°-60°	1515.1	18.0
60°-70°	3114.9	37.1
70°-80°	1253.4	14.9
80°-90°	115.9	1.4
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°	8404.7	100.0
0°-180°	8404.7	100.0

Coefficient of Utilization



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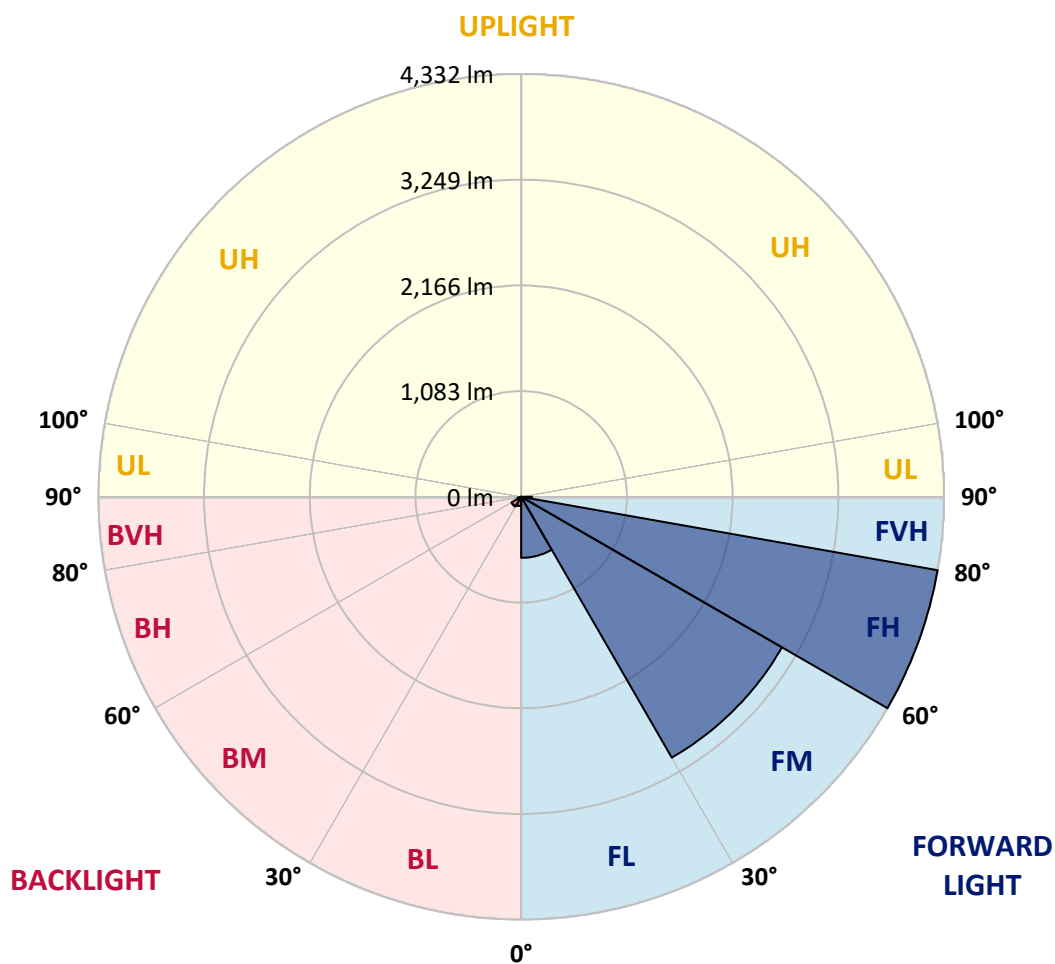
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	625.5	7.4			
FM	(30°-60°)	3085.5	36.7			
FH	(60°-80°)	4331.8	51.5			G2/5000
FVH	(80°-90°)	111.6	1.3			G2/225
BL	(0°-30°)	95.2	1.1	B0/110		
BM	(30°-60°)	114.3	1.4	B0/220		
BH	(60°-80°)	36.5	0.4	B0/110		G0/110
BVH	(80°-90°)	4.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
2.5°	846.8	837.1	826.0	826.0	812.3	812.3	804.1	782.1	779.3	766.9	754.5
5°	1080.8	1072.5	1058.8	1046.4	1035.4	1016.1	1002.3	976.1	947.3	919.7	894.9
7.5°	1309.4	1305.2	1280.5	1276.3	1258.4	1226.8	1199.2	1160.6	1111.1	1072.5	1027.1
10°	1521.4	1511.7	1506.2	1482.8	1456.7	1422.3	1379.5	1332.8	1274.9	1214.3	1149.6
12.5°	1689.4	1683.9	1659.0	1649.4	1621.9	1587.5	1533.8	1473.2	1415.4	1336.9	1261.1
15°	1814.6	1805.0	1788.5	1773.3	1740.3	1710.0	1660.5	1594.3	1524.2	1438.8	1347.9
17.5°	1919.3	1901.4	1897.2	1873.8	1839.5	1803.6	1748.6	1688.0	1605.4	1520.0	1420.8
20°	2059.7	2034.9	2026.7	1992.2	1952.3	1902.8	1839.5	1763.7	1676.9	1583.4	1481.5
22.5°	2224.9	2207.0	2189.1	2158.8	2107.9	2037.7	1945.5	1862.9	1752.7	1649.4	1539.3
25°	2459.0	2443.9	2414.9	2373.6	2310.3	2226.3	2114.8	1993.6	1864.2	1732.0	1602.6
27.5°	2686.2	2672.4	2651.7	2620.1	2548.5	2456.2	2318.5	2164.4	2000.5	1840.8	1697.6
30°	2899.6	2887.2	2866.5	2834.9	2771.5	2680.6	2525.1	2359.8	2156.1	1970.2	1798.2
32.5°	3129.5	3125.4	3102.0	3056.6	3001.5	2879.0	2709.6	2532.0	2325.5	2110.7	1909.6
35°	3389.7	3358.0	3336.1	3290.6	3197.0	3066.2	2867.9	2673.8	2456.2	2235.9	2011.5
37.5°	3610.0	3579.8	3552.2	3494.4	3380.1	3213.5	2989.1	2775.6	2551.2	2326.8	2098.2
40°	3771.1	3755.9	3722.9	3647.2	3519.2	3320.9	3078.5	2845.9	2620.1	2394.3	2168.5
42.5°	3890.9	3867.5	3830.3	3751.8	3600.4	3374.6	3114.3	2874.8	2651.7	2435.6	2213.9
45°	3934.9	3915.7	3881.3	3795.9	3632.0	3389.7	3113.0	2866.5	2653.1	2448.0	2244.2
47.5°	3908.8	3889.5	3859.2	3779.3	3618.3	3371.8	3088.2	2843.1	2639.3	2452.1	2271.7
50°	3822.1	3811.0	3787.6	3720.1	3575.6	3337.4	3066.2	2830.7	2636.6	2472.8	2310.3
52.5°	3813.8	3806.9	3778.0	3710.5	3563.2	3326.4	3063.4	2837.7	2660.0	2499.0	2337.9
55°	4660.5	4562.8	4343.9	4158.0	3852.3	3488.9	3202.4	2949.1	2759.2	2602.2	2489.3
57.5°	6623.9	6478.0	6190.2	5836.4	5134.1	4444.4	3892.3	3493.0	3296.1	3224.5	3267.2
60°	7543.6	7517.5	7472.0	7304.0	6944.7	6351.3	5690.4	4975.9	4689.4	4664.7	4751.4
62.5°	7980.1	7963.5	7977.3	7956.7	7845.1	7671.6	7481.6	7173.3	6889.6	6706.5	6318.2
65°	8181.1	8192.1	8270.5	8332.5	8346.3	8391.7	8530.8	8914.9	9195.7	8723.5	7645.5
67.5°	7670.2	7734.9	7915.4	8141.1	8405.5	8661.6	9074.6	9884.2	10461.1	9906.2	8375.2
69°	6349.9	6381.6	6822.1	7247.6	7893.3	8344.9	8943.8	10005.3	10653.9	10027.4	8317.4
70°	4999.2	5028.1	5500.4	6078.7	7170.5	7751.5	8534.9	9800.2	10473.4	9866.3	8020.0
72.5°	2255.2	2213.9	2380.5	2690.3	3877.1	4799.6	6169.5	7940.1	8640.9	7904.3	6000.1
75°	1575.1	1557.2	1575.1	1576.4	1761.0	2271.7	2866.5	4303.9	5322.8	4593.1	2866.5
77.5°	1219.8	1207.5	1195.1	1181.3	1203.4	1347.9	1405.7	1526.9	1982.6	1875.2	1093.2
80°	965.2	954.1	984.4	974.8	974.8	991.3	980.3	934.8	849.5	787.5	704.9
82.5°	448.8	451.6	451.6	490.1	590.7	689.8	721.5	676.1	600.3	510.8	411.7
85°	42.6	48.2	81.3	125.3	249.2	280.8	282.3	234.0	234.0	184.5	148.7
87.5°	0.0	1.3	1.3	1.3	12.4	34.4	28.9	8.3	4.1	4.1	6.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
2.5°	732.5	728.3	711.8	695.3	680.2	663.6	648.5	633.3	616.8	604.4	589.3
5°	856.4	826.0	791.7	758.7	725.6	691.2	655.4	623.7	590.7	560.3	531.4
7.5°	981.6	922.4	875.6	816.4	762.8	709.1	659.5	608.6	561.8	517.7	476.4
10°	1087.7	1016.1	943.1	867.4	790.3	718.7	649.9	589.3	527.3	473.6	422.7
12.5°	1174.4	1083.6	994.1	899.0	812.3	721.5	636.1	563.1	490.1	429.6	377.2
15°	1252.9	1148.3	1040.8	930.7	820.6	717.4	622.3	531.4	457.1	388.3	329.1
17.5°	1316.2	1196.4	1075.3	951.4	833.0	711.8	604.4	509.4	422.7	351.1	293.3
20°	1371.3	1246.0	1115.3	976.1	841.3	710.4	589.3	481.9	392.4	316.7	260.2
22.5°	1422.3	1296.9	1156.6	1007.8	853.6	709.1	575.5	461.3	366.2	290.5	234.0
25°	1480.1	1347.9	1200.6	1040.8	875.6	714.6	567.3	444.7	342.8	265.7	213.4
27.5°	1544.8	1405.7	1252.9	1082.1	904.6	725.6	564.5	426.8	322.1	242.3	196.9
30°	1635.6	1474.6	1305.2	1123.4	930.7	738.0	561.8	415.8	301.5	224.4	180.3
32.5°	1715.6	1542.1	1363.1	1166.2	959.7	750.4	560.3	400.7	282.3	206.5	168.0
35°	1799.5	1604.0	1412.6	1207.5	984.4	764.1	559.0	389.6	264.4	188.6	155.6
37.5°	1872.5	1656.3	1451.2	1243.3	1012.0	776.6	560.3	380.0	247.8	173.5	144.6
40°	1934.4	1710.0	1493.8	1276.3	1040.8	795.8	561.8	370.4	231.3	159.7	134.9
42.5°	1989.5	1761.0	1539.3	1313.5	1073.9	817.9	570.0	362.1	217.5	147.3	125.3
45°	2032.2	1807.8	1588.8	1365.8	1127.6	853.6	585.2	356.6	203.8	136.3	117.1
47.5°	2076.2	1876.6	1672.8	1448.4	1206.1	910.1	611.3	355.3	192.7	128.0	110.1
50°	2136.9	1945.5	1747.2	1532.4	1277.7	967.9	642.9	356.6	179.0	119.8	103.3
52.5°	2180.9	2015.6	1843.6	1678.4	1448.4	1144.1	765.5	381.3	172.1	112.9	95.0
55°	2441.1	2412.2	2416.3	2443.9	2266.3	1946.8	1280.5	550.7	202.4	128.0	93.6
57.5°	3442.1	3543.9	3603.1	3601.8	3308.5	2744.0	1719.7	707.7	225.8	148.7	111.5
60°	4758.3	4681.2	4572.5	4303.9	3914.3	3132.3	1923.4	761.4	195.5	118.4	101.9
62.5°	5921.7	5470.1	5069.4	4634.4	4123.6	3267.2	1964.7	757.2	170.7	89.5	71.6
65°	6647.3	5834.9	5187.9	4642.6	4041.0	3154.3	1858.7	695.3	144.6	73.0	59.2
67.5°	6820.8	5638.0	4722.5	4027.2	3375.9	2454.9	1364.4	523.2	112.9	60.6	52.3
69°	6442.1	5011.6	3913.0	3124.0	2456.2	1628.8	844.0	330.4	86.7	55.1	48.2
70°	5925.8	4359.0	3187.3	2507.2	1818.8	1144.1	590.7	232.7	70.2	50.9	44.1
72.5°	3812.5	2289.6	1566.8	1090.4	750.4	455.7	231.3	104.7	53.7	42.6	35.8
75°	1478.7	846.8	614.1	466.7	364.9	253.3	140.5	67.5	45.4	35.8	27.5
77.5°	728.3	557.6	455.7	312.5	181.8	112.9	75.7	52.3	37.2	26.2	17.9
80°	575.5	382.8	228.6	141.8	107.4	81.3	57.9	42.6	27.5	16.6	12.4
82.5°	294.6	161.1	118.4	96.4	79.8	63.4	46.8	30.3	17.9	11.0	9.6
85°	92.2	67.5	60.6	59.2	55.1	45.4	33.0	19.3	11.0	6.9	6.9
87.5°	6.9	9.6	12.4	9.6	11.0	9.6	12.4	8.3	5.5	5.5	4.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
2.5°	578.2	561.8	546.6	536.9	519.0	512.2	505.3	502.6	490.1	492.9	481.9
5°	505.3	476.4	454.3	432.3	411.7	396.6	384.1	369.0	356.6	351.1	340.0
7.5°	439.2	402.1	373.1	349.7	324.9	305.7	289.1	278.1	267.1	256.1	250.6
10°	381.3	341.5	308.4	285.0	261.6	245.1	232.7	224.4	217.5	213.4	212.0
12.5°	327.7	289.1	258.9	238.2	220.3	212.0	206.5	202.4	201.0	199.7	199.7
15°	286.4	247.8	224.4	209.3	201.0	196.9	195.5	192.7	190.0	188.6	188.6
17.5°	247.8	218.9	202.4	194.1	190.0	187.3	184.5	181.8	179.0	177.6	177.6
20°	221.6	198.2	190.0	184.5	180.3	177.6	173.5	170.7	169.4	168.0	166.6
22.5°	201.0	185.9	180.3	176.2	170.7	166.6	163.9	161.1	158.4	156.9	155.6
25°	185.9	176.2	172.1	166.6	161.1	156.9	152.8	148.7	146.0	144.6	141.8
27.5°	174.8	168.0	162.5	155.6	150.1	146.0	141.8	137.7	134.9	132.2	130.8
30°	165.2	158.4	151.4	146.0	139.0	134.9	129.4	125.3	123.9	121.1	118.4
32.5°	155.6	148.7	141.8	134.9	128.0	122.6	119.8	114.3	111.5	110.1	107.4
35°	144.6	137.7	129.4	123.9	117.1	111.5	107.4	103.3	100.5	97.7	96.4
37.5°	134.9	126.7	118.4	111.5	106.0	100.5	96.4	92.2	89.5	86.7	85.4
40°	123.9	115.6	107.4	100.5	95.0	90.9	86.7	82.6	79.8	78.5	78.5
42.5°	114.3	104.7	96.4	90.9	86.7	81.3	77.1	73.0	71.6	70.2	71.6
45°	104.7	95.0	88.1	82.6	78.5	73.0	68.8	66.1	64.7	66.1	67.5
47.5°	96.4	86.7	79.8	75.7	71.6	67.5	63.4	60.6	60.6	63.4	66.1
50°	88.1	78.5	73.0	70.2	66.1	62.0	56.4	55.1	56.4	59.2	62.0
52.5°	79.8	68.8	64.7	63.4	59.2	55.1	50.9	49.6	50.9	53.7	52.3
55°	71.6	60.6	59.2	57.9	53.7	48.2	44.1	44.1	44.1	42.6	40.0
57.5°	68.8	53.7	52.3	50.9	46.8	41.3	38.5	35.8	34.4	30.3	28.9
60°	71.6	48.2	48.2	45.4	41.3	35.8	31.7	27.5	24.7	22.0	22.0
62.5°	57.9	44.1	42.6	40.0	34.4	28.9	24.7	20.7	19.3	17.9	17.9
65°	46.8	40.0	37.2	33.0	28.9	23.4	19.3	16.6	15.1	15.1	16.6
67.5°	42.6	35.8	31.7	27.5	23.4	17.9	15.1	13.8	13.8	15.1	15.1
69°	40.0	33.0	28.9	24.7	20.7	16.6	13.8	13.8	13.8	13.8	15.1
70°	37.2	31.7	27.5	23.4	17.9	13.8	12.4	12.4	13.8	13.8	15.1
72.5°	28.9	24.7	23.4	19.3	13.8	12.4	11.0	12.4	12.4	13.8	13.8
75°	22.0	17.9	17.9	15.1	11.0	9.6	9.6	11.0	11.0	12.4	12.4
77.5°	15.1	12.4	12.4	11.0	9.6	8.3	8.3	9.6	11.0	11.0	12.4
80°	11.0	9.6	8.3	9.6	8.3	6.9	8.3	9.6	9.6	11.0	11.0
82.5°	8.3	8.3	8.3	8.3	6.9	6.9	8.3	8.3	9.6	11.0	11.0
85°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.3	8.3	9.6	9.6
87.5°	4.1	4.1	4.1	5.5	5.5	6.9	6.9	6.9	6.9	8.3	8.3
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):

	165°	170°	175°	180°
0°	634.8	634.8	634.8	634.8
2.5°	479.2	477.7	472.2	473.6
5°	335.9	327.7	333.2	331.8
7.5°	246.5	245.1	243.7	246.5
10°	210.7	210.7	209.3	210.7
12.5°	198.2	198.2	198.2	198.2
15°	188.6	188.6	187.3	187.3
17.5°	177.6	177.6	177.6	176.2
20°	166.6	165.2	165.2	165.2
22.5°	154.2	152.8	152.8	152.8
25°	141.8	140.5	140.5	140.5
27.5°	129.4	128.0	126.7	126.7
30°	117.1	115.6	114.3	114.3
32.5°	104.7	103.3	101.9	101.9
35°	93.6	93.6	92.2	90.9
37.5°	84.0	84.0	84.0	84.0
40°	77.1	78.5	78.5	78.5
42.5°	73.0	74.3	75.7	77.1
45°	70.2	73.0	74.3	74.3
47.5°	68.8	70.2	71.6	71.6
50°	63.4	62.0	62.0	62.0
52.5°	50.9	48.2	46.8	45.4
55°	37.2	35.8	33.0	33.0
57.5°	26.2	26.2	24.7	24.7
60°	20.7	20.7	19.3	20.7
62.5°	17.9	17.9	17.9	17.9
65°	16.6	16.6	16.6	16.6
67.5°	16.6	16.6	16.6	16.6
69°	15.1	15.1	15.1	15.1
70°	15.1	15.1	15.1	15.1
72.5°	13.8	13.8	13.8	13.8
75°	12.4	13.8	13.8	13.8
77.5°	12.4	12.4	12.4	12.4
80°	11.0	11.0	12.4	12.4
82.5°	11.0	11.0	11.0	11.0
85°	9.6	9.6	11.0	11.0
87.5°	8.3	8.3	9.6	9.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)