

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: P165466

Luminaire Tested: **VST-E03-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165466
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-E03-LED-E-U-SL4-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5508.9 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - 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: 28.75 FT

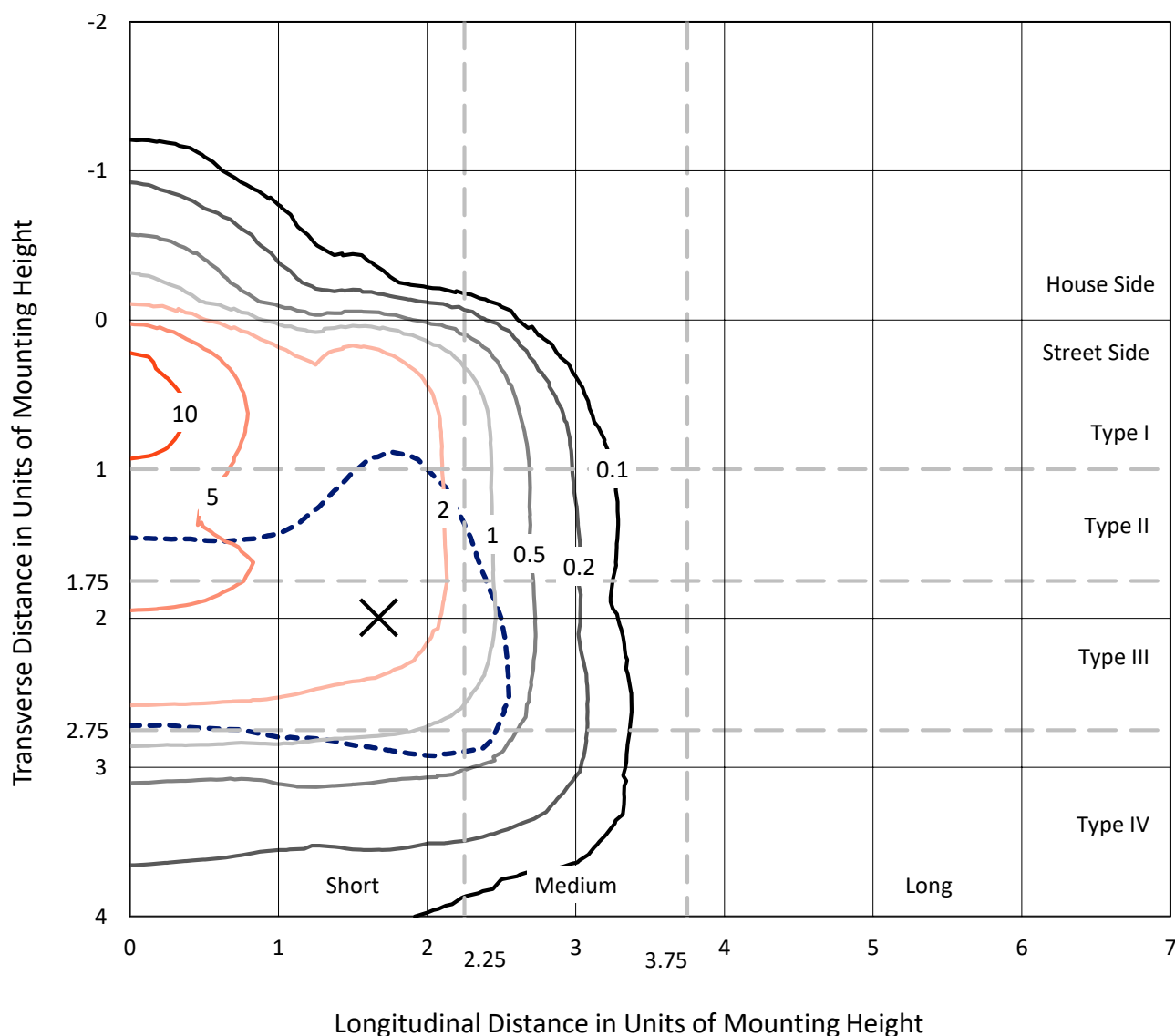


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

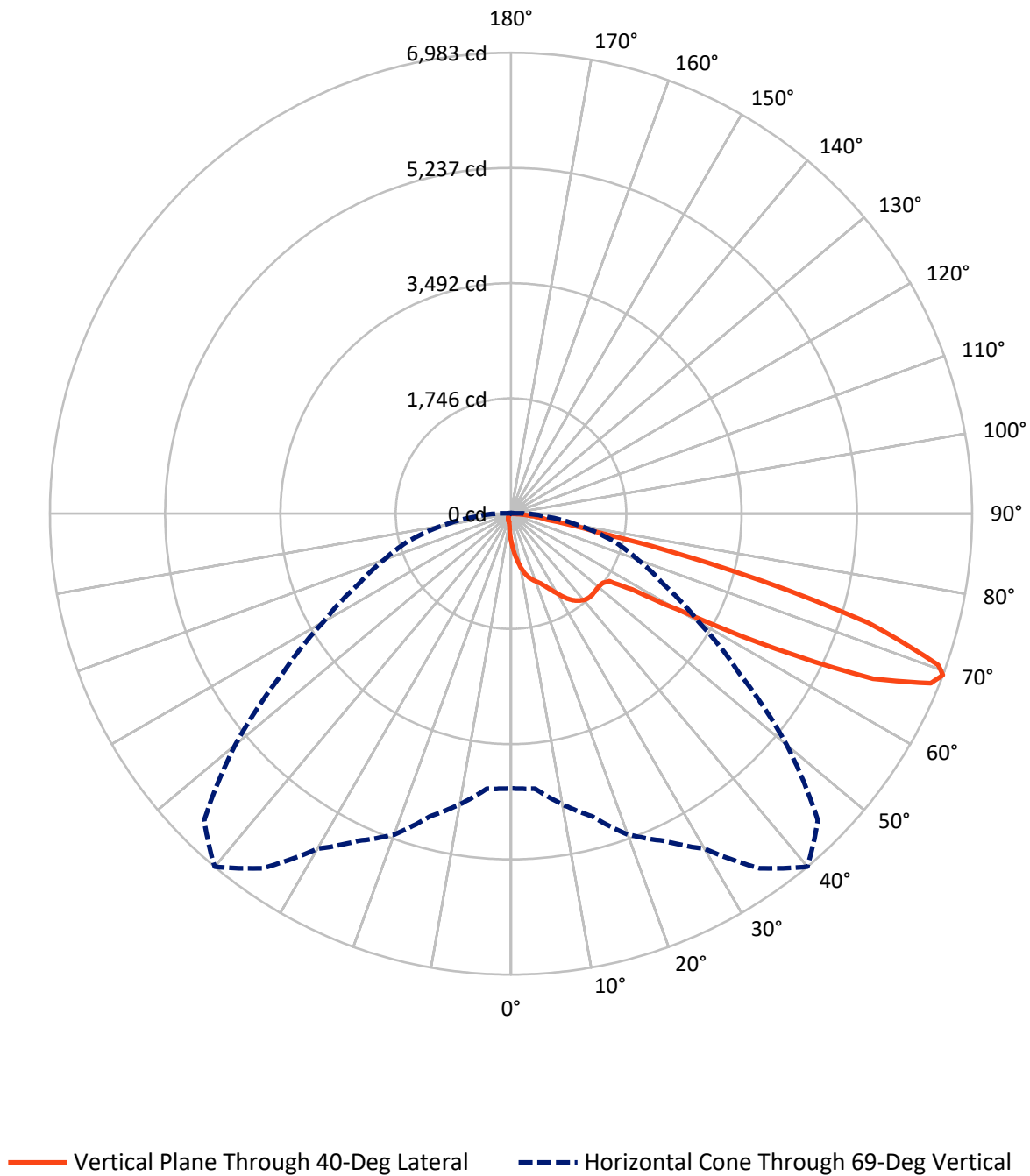


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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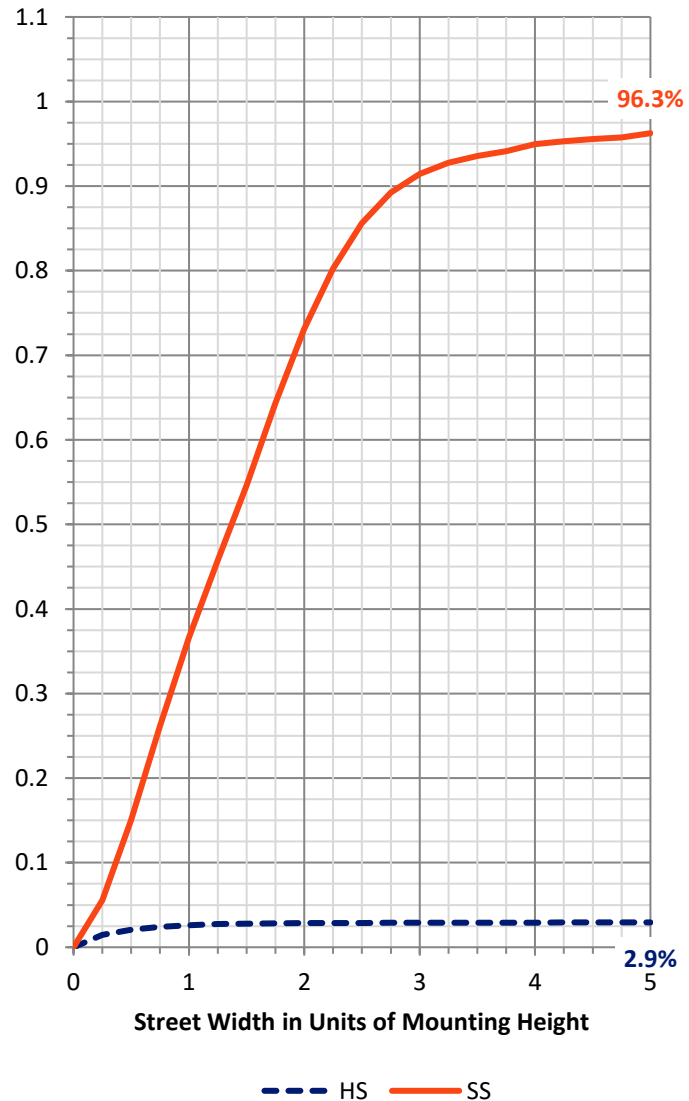
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	164.1	0.0	164.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	5344.8	0.0	5344.8
	% Fixture	97.0	0.0	97.0
Total	Lumens	5508.9	0.0	5508.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	0.8
10°-20°	147.4	2.7
20°-30°	282.2	5.1
30°-40°	469.3	8.5
40°-50°	635.0	11.5
50°-60°	993.0	18.0
60°-70°	2041.7	37.1
70°-80°	821.5	14.9
80°-90°	76.0	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°	5508.9	100.0
0°-180°	5508.9	100.0

Coefficient of Utilization



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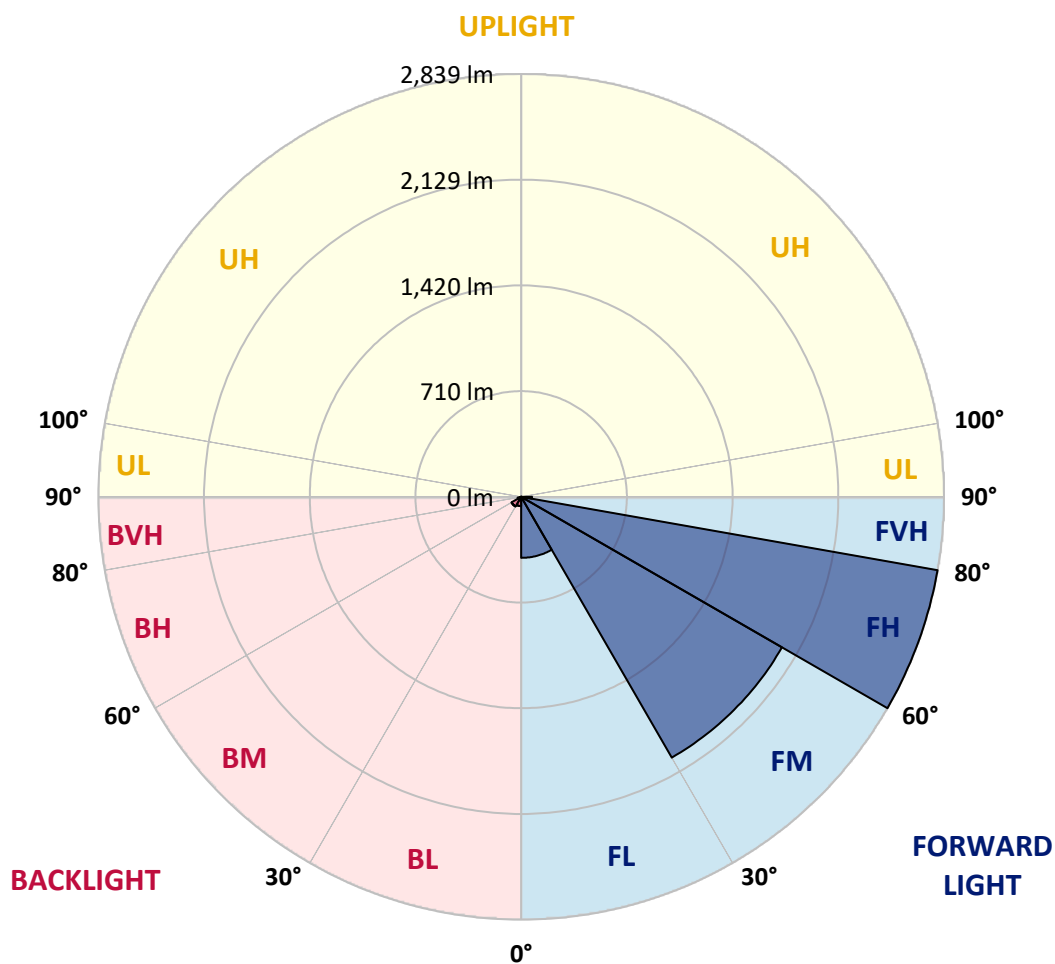
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	410.0	7.4			
FM	(30°-60°)	2022.4	36.7			
FH	(60°-80°)	2839.3	51.5			G2/5000
FVH	(80°-90°)	73.2	1.3			G1/100
BL	(0°-30°)	62.4	1.1	B0/110		
BM	(30°-60°)	74.9	1.4	B0/220		
BH	(60°-80°)	23.9	0.4	B0/110		G0/110
BVH	(80°-90°)	2.8	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°	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
2.5°	555.0	548.6	541.4	541.4	532.4	532.4	527.0	512.6	510.8	502.6	494.5
5°	708.4	703.0	694.0	685.9	678.7	666.0	656.9	639.8	620.9	602.8	586.6
7.5°	858.2	855.5	839.3	836.5	824.8	804.1	786.0	760.7	728.3	703.0	673.3
10°	997.2	990.8	987.2	971.9	954.8	932.2	904.2	873.6	835.7	796.0	753.5
12.5°	1107.3	1103.7	1087.4	1081.1	1063.1	1040.5	1005.3	965.6	927.7	876.2	826.6
15°	1189.4	1183.1	1172.2	1162.3	1140.7	1120.9	1088.3	1045.0	999.0	943.1	883.5
17.5°	1258.0	1246.3	1243.6	1228.2	1205.7	1182.2	1146.1	1106.4	1052.2	996.3	931.3
20°	1350.0	1333.8	1328.4	1305.8	1279.7	1247.2	1205.7	1156.0	1099.1	1037.8	971.0
22.5°	1458.3	1446.6	1434.8	1415.0	1381.6	1335.6	1275.2	1221.0	1148.8	1081.1	1009.0
25°	1611.8	1601.8	1582.9	1555.8	1514.3	1459.3	1386.1	1306.7	1221.9	1135.3	1050.4
27.5°	1760.6	1751.6	1738.1	1717.4	1670.4	1609.9	1519.7	1418.6	1311.2	1206.5	1112.7
30°	1900.6	1892.4	1878.8	1858.1	1816.6	1757.0	1655.0	1546.7	1413.2	1291.4	1178.6
32.5°	2051.3	2048.5	2033.2	2003.4	1967.3	1887.0	1776.0	1659.6	1524.2	1383.5	1251.7
35°	2221.8	2201.0	2186.6	2156.8	2095.5	2009.7	1879.8	1752.5	1609.9	1465.6	1318.4
37.5°	2366.2	2346.4	2328.3	2290.4	2215.5	2106.3	1959.2	1819.3	1672.2	1525.1	1375.3
40°	2471.8	2461.8	2440.2	2390.5	2306.6	2176.7	2017.8	1865.3	1717.4	1569.4	1421.3
42.5°	2550.3	2534.9	2510.6	2459.2	2359.9	2211.9	2041.3	1884.3	1738.1	1596.4	1451.2
45°	2579.2	2566.6	2544.0	2488.0	2380.6	2221.8	2040.4	1878.8	1739.0	1604.5	1471.0
47.5°	2562.0	2549.4	2529.5	2477.2	2371.6	2210.1	2024.2	1863.5	1730.0	1607.3	1489.0
50°	2505.2	2497.9	2482.6	2438.4	2343.6	2187.5	2009.7	1855.4	1728.2	1620.8	1514.3
52.5°	2499.7	2495.3	2476.3	2432.0	2335.5	2180.3	2007.9	1859.9	1743.5	1637.9	1532.3
55°	3054.7	2990.6	2847.2	2725.4	2525.0	2286.8	2099.0	1933.0	1808.5	1705.6	1631.6
57.5°	4341.6	4246.0	4057.4	3825.4	3365.2	2913.1	2551.2	2289.5	2160.4	2113.5	2141.5
60°	4944.4	4927.3	4897.5	4787.4	4551.9	4163.0	3729.8	3261.4	3073.7	3057.5	3114.3
62.5°	5230.6	5219.7	5228.7	5215.2	5142.1	5028.4	4903.8	4701.7	4515.8	4395.8	4141.3
65°	5362.3	5369.5	5420.9	5461.5	5470.6	5500.3	5591.5	5843.3	6027.4	5717.8	5011.2
67.5°	5027.5	5069.9	5188.1	5336.1	5509.4	5677.2	5947.9	6478.6	6856.7	6493.0	5489.5
69°	4162.0	4182.8	4471.6	4750.4	5173.7	5469.7	5862.2	6558.0	6983.1	6572.5	5451.6
70°	3276.7	3295.7	3605.2	3984.2	4699.9	5080.7	5594.2	6423.5	6864.8	6466.9	5256.7
72.5°	1478.2	1451.2	1560.3	1763.3	2541.2	3145.9	4043.8	5204.3	5663.7	5180.9	3932.8
75°	1032.4	1020.7	1032.4	1033.3	1154.2	1489.0	1878.8	2821.0	3488.8	3010.6	1878.8
77.5°	799.6	791.5	783.3	774.3	788.8	883.5	921.4	1000.8	1299.5	1229.2	716.5
80°	632.6	625.4	645.2	638.9	638.9	649.8	642.5	612.7	556.8	516.2	462.0
82.5°	294.2	296.0	296.0	321.2	387.2	452.1	472.9	443.1	393.5	334.8	269.8
85°	28.0	31.6	53.3	82.1	163.4	184.1	185.0	153.4	153.4	121.0	97.4
87.5°	0.0	0.9	0.9	0.9	8.1	22.6	19.0	5.4	2.7	2.7	4.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
2.5°	480.1	477.4	466.6	455.7	445.8	434.9	425.0	415.1	404.3	396.2	386.2
5°	561.3	541.4	518.9	497.3	475.6	453.1	429.6	408.8	387.2	367.3	348.3
7.5°	643.4	604.6	574.0	535.1	499.9	464.8	432.3	398.9	368.2	339.3	312.2
10°	712.9	666.0	618.2	568.6	518.0	471.1	425.9	386.2	345.7	310.4	277.1
12.5°	769.8	710.2	651.6	589.3	532.4	472.9	416.9	369.1	321.2	281.6	247.3
15°	821.2	752.6	682.2	610.0	537.9	470.2	407.9	348.3	299.6	254.5	215.7
17.5°	862.7	784.2	704.8	623.6	546.0	466.6	396.2	333.9	277.1	230.1	192.2
20°	898.9	816.7	731.0	639.8	551.4	465.7	386.2	315.9	257.2	207.6	170.5
22.5°	932.2	850.1	758.0	660.6	559.5	464.8	377.2	302.3	240.0	190.4	153.4
25°	970.1	883.5	787.0	682.2	574.0	468.4	371.8	291.5	224.7	174.2	139.9
27.5°	1012.6	921.4	821.2	709.3	592.9	475.6	370.0	279.8	211.1	158.8	129.1
30°	1072.1	966.5	855.5	736.4	610.0	483.7	368.2	272.5	197.6	147.1	118.2
32.5°	1124.5	1010.8	893.4	764.3	629.0	491.8	367.3	262.6	185.0	135.4	110.1
35°	1179.5	1051.4	925.9	791.5	645.2	500.8	366.4	255.4	173.3	123.7	102.0
37.5°	1227.3	1085.6	951.2	814.9	663.3	509.0	367.3	249.1	162.4	113.7	94.7
40°	1267.9	1120.9	979.1	836.5	682.2	521.6	368.2	242.8	151.6	104.6	88.4
42.5°	1304.0	1154.2	1009.0	860.9	703.9	536.0	373.6	237.4	142.6	96.5	82.1
45°	1332.0	1184.9	1041.4	895.2	739.1	559.5	383.6	233.7	133.6	89.3	76.7
47.5°	1360.9	1230.0	1096.4	949.4	790.6	596.5	400.7	232.9	126.3	83.9	72.2
50°	1400.6	1275.2	1145.2	1004.4	837.5	634.4	421.4	233.7	117.3	78.5	67.7
52.5°	1429.5	1321.1	1208.3	1100.1	949.4	749.9	501.8	250.0	112.8	74.0	62.3
55°	1600.0	1581.1	1583.8	1601.8	1485.4	1276.0	839.3	361.0	132.7	83.9	61.4
57.5°	2256.1	2322.8	2361.7	2360.8	2168.5	1798.6	1127.2	463.9	148.0	97.4	73.1
60°	3118.9	3068.3	2997.0	2821.0	2565.6	2053.1	1260.7	499.1	128.1	77.6	66.8
62.5°	3881.4	3585.4	3322.7	3037.6	2702.8	2141.5	1287.8	496.3	111.9	58.6	46.9
65°	4357.0	3824.5	3400.4	3043.0	2648.6	2067.5	1218.3	455.7	94.7	47.8	38.8
67.5°	4470.7	3695.5	3095.4	2639.6	2212.7	1609.1	894.3	343.0	74.0	39.7	34.3
69°	4222.5	3284.9	2564.8	2047.6	1609.9	1067.6	553.2	216.6	56.8	36.1	31.6
70°	3884.1	2857.1	2089.1	1643.3	1192.1	749.9	387.2	152.5	46.0	33.4	28.9
72.5°	2498.9	1500.7	1027.0	714.7	491.8	298.7	151.6	68.6	35.2	28.0	23.5
75°	969.2	555.0	402.5	305.9	239.2	166.0	92.0	44.2	29.8	23.5	18.0
77.5°	477.4	365.5	298.7	204.8	119.2	74.0	49.6	34.3	24.4	17.2	11.7
80°	377.2	250.9	149.8	92.9	70.4	53.3	37.9	28.0	18.0	10.9	8.1
82.5°	193.1	105.6	77.6	63.2	52.3	41.5	30.7	19.9	11.7	7.3	6.3
85°	60.4	44.2	39.7	38.8	36.1	29.8	21.7	12.7	7.3	4.5	4.5
87.5°	4.5	6.3	8.1	6.3	7.3	6.3	8.1	5.4	3.6	3.6	2.7
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°	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0	416.0
2.5°	379.0	368.2	358.3	352.0	340.2	335.7	331.2	329.4	321.2	323.0	315.9
5°	331.2	312.2	297.8	283.4	269.8	259.9	251.8	241.9	233.7	230.1	222.9
7.5°	287.9	263.5	244.6	229.3	212.9	200.3	189.5	182.3	175.1	167.9	164.2
10°	250.0	223.8	202.1	186.8	171.5	160.6	152.5	147.1	142.6	139.9	139.0
12.5°	214.7	189.5	169.7	156.1	144.4	139.0	135.4	132.7	131.8	130.9	130.9
15°	187.7	162.4	147.1	137.2	131.8	129.1	128.1	126.3	124.6	123.7	123.7
17.5°	162.4	143.5	132.7	127.3	124.6	122.8	121.0	119.2	117.3	116.4	116.4
20°	145.3	130.0	124.6	121.0	118.2	116.4	113.7	111.9	111.0	110.1	109.2
22.5°	131.8	121.8	118.2	115.5	111.9	109.2	107.4	105.6	103.8	102.8	102.0
25°	121.8	115.5	112.8	109.2	105.6	102.8	100.2	97.4	95.7	94.7	92.9
27.5°	114.6	110.1	106.5	102.0	98.3	95.7	92.9	90.2	88.4	86.6	85.7
30°	108.3	103.8	99.2	95.7	91.1	88.4	84.8	82.1	81.2	79.4	77.6
32.5°	102.0	97.4	92.9	88.4	83.9	80.3	78.5	74.9	73.1	72.2	70.4
35°	94.7	90.2	84.8	81.2	76.7	73.1	70.4	67.7	65.9	64.1	63.2
37.5°	88.4	83.0	77.6	73.1	69.5	65.9	63.2	60.4	58.6	56.8	56.0
40°	81.2	75.8	70.4	65.9	62.3	59.6	56.8	54.1	52.3	51.5	51.5
42.5°	74.9	68.6	63.2	59.6	56.8	53.3	50.5	47.8	46.9	46.0	46.9
45°	68.6	62.3	57.8	54.1	51.5	47.8	45.1	43.3	42.4	43.3	44.2
47.5°	63.2	56.8	52.3	49.6	46.9	44.2	41.5	39.7	39.7	41.5	43.3
50°	57.8	51.5	47.8	46.0	43.3	40.6	37.0	36.1	37.0	38.8	40.6
52.5°	52.3	45.1	42.4	41.5	38.8	36.1	33.4	32.5	33.4	35.2	34.3
55°	46.9	39.7	38.8	37.9	35.2	31.6	28.9	28.9	28.9	28.0	26.2
57.5°	45.1	35.2	34.3	33.4	30.7	27.1	25.3	23.5	22.6	19.9	19.0
60°	46.9	31.6	31.6	29.8	27.1	23.5	20.8	18.0	16.2	14.4	14.4
62.5°	37.9	28.9	28.0	26.2	22.6	19.0	16.2	13.6	12.7	11.7	11.7
65°	30.7	26.2	24.4	21.7	19.0	15.4	12.7	10.9	9.9	9.9	10.9
67.5°	28.0	23.5	20.8	18.0	15.4	11.7	9.9	9.1	9.1	9.9	9.9
69°	26.2	21.7	19.0	16.2	13.6	10.9	9.1	9.1	9.1	9.1	9.9
70°	24.4	20.8	18.0	15.4	11.7	9.1	8.1	8.1	9.1	9.1	9.9
72.5°	19.0	16.2	15.4	12.7	9.1	8.1	7.3	8.1	8.1	9.1	9.1
75°	14.4	11.7	11.7	9.9	7.3	6.3	6.3	7.3	7.3	8.1	8.1
77.5°	9.9	8.1	8.1	7.3	6.3	5.4	5.4	6.3	7.3	7.3	8.1
80°	7.3	6.3	5.4	6.3	5.4	4.5	5.4	6.3	6.3	7.3	7.3
82.5°	5.4	5.4	5.4	5.4	4.5	4.5	5.4	5.4	6.3	7.3	7.3
85°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4	5.4	6.3	6.3
87.5°	2.7	2.7	2.7	3.6	3.6	4.5	4.5	4.5	4.5	5.4	5.4
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):

	165°	170°	175°	180°
0°	416.0	416.0	416.0	416.0
2.5°	314.0	313.1	309.5	310.4
5°	220.2	214.7	218.4	217.5
7.5°	161.6	160.6	159.7	161.6
10°	138.1	138.1	137.2	138.1
12.5°	130.0	130.0	130.0	130.0
15°	123.7	123.7	122.8	122.8
17.5°	116.4	116.4	116.4	115.5
20°	109.2	108.3	108.3	108.3
22.5°	101.0	100.2	100.2	100.2
25°	92.9	92.0	92.0	92.0
27.5°	84.8	83.9	83.0	83.0
30°	76.7	75.8	74.9	74.9
32.5°	68.6	67.7	66.8	66.8
35°	61.4	61.4	60.4	59.6
37.5°	55.1	55.1	55.1	55.1
40°	50.5	51.5	51.5	51.5
42.5°	47.8	48.7	49.6	50.5
45°	46.0	47.8	48.7	48.7
47.5°	45.1	46.0	46.9	46.9
50°	41.5	40.6	40.6	40.6
52.5°	33.4	31.6	30.7	29.8
55°	24.4	23.5	21.7	21.7
57.5°	17.2	17.2	16.2	16.2
60°	13.6	13.6	12.7	13.6
62.5°	11.7	11.7	11.7	11.7
65°	10.9	10.9	10.9	10.9
67.5°	10.9	10.9	10.9	10.9
69°	9.9	9.9	9.9	9.9
70°	9.9	9.9	9.9	9.9
72.5°	9.1	9.1	9.1	9.1
75°	8.1	9.1	9.1	9.1
77.5°	8.1	8.1	8.1	8.1
80°	7.3	7.3	8.1	8.1
82.5°	7.3	7.3	7.3	7.3
85°	6.3	6.3	7.3	7.3
87.5°	5.4	5.4	6.3	6.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)