

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: P165496

Luminaire Tested: **VST-E06-LED-E-U-SL4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165496
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-E06-LED-E-U-SL4-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11017.7 lumens
Efficiency: N/A
Efficacy: 73.2 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: B1 - U0 - G3

Input Watts (W): 150.5
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

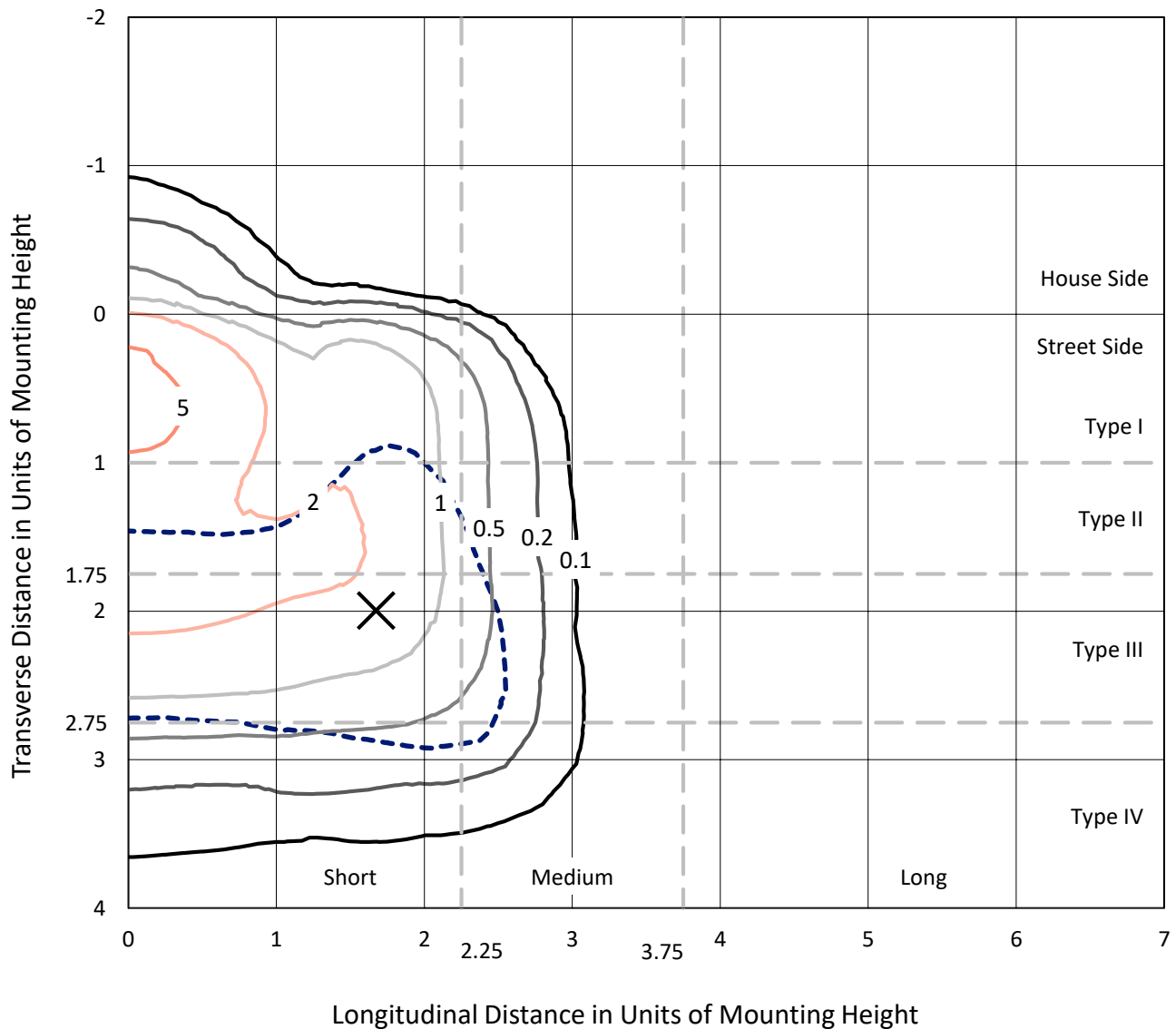


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

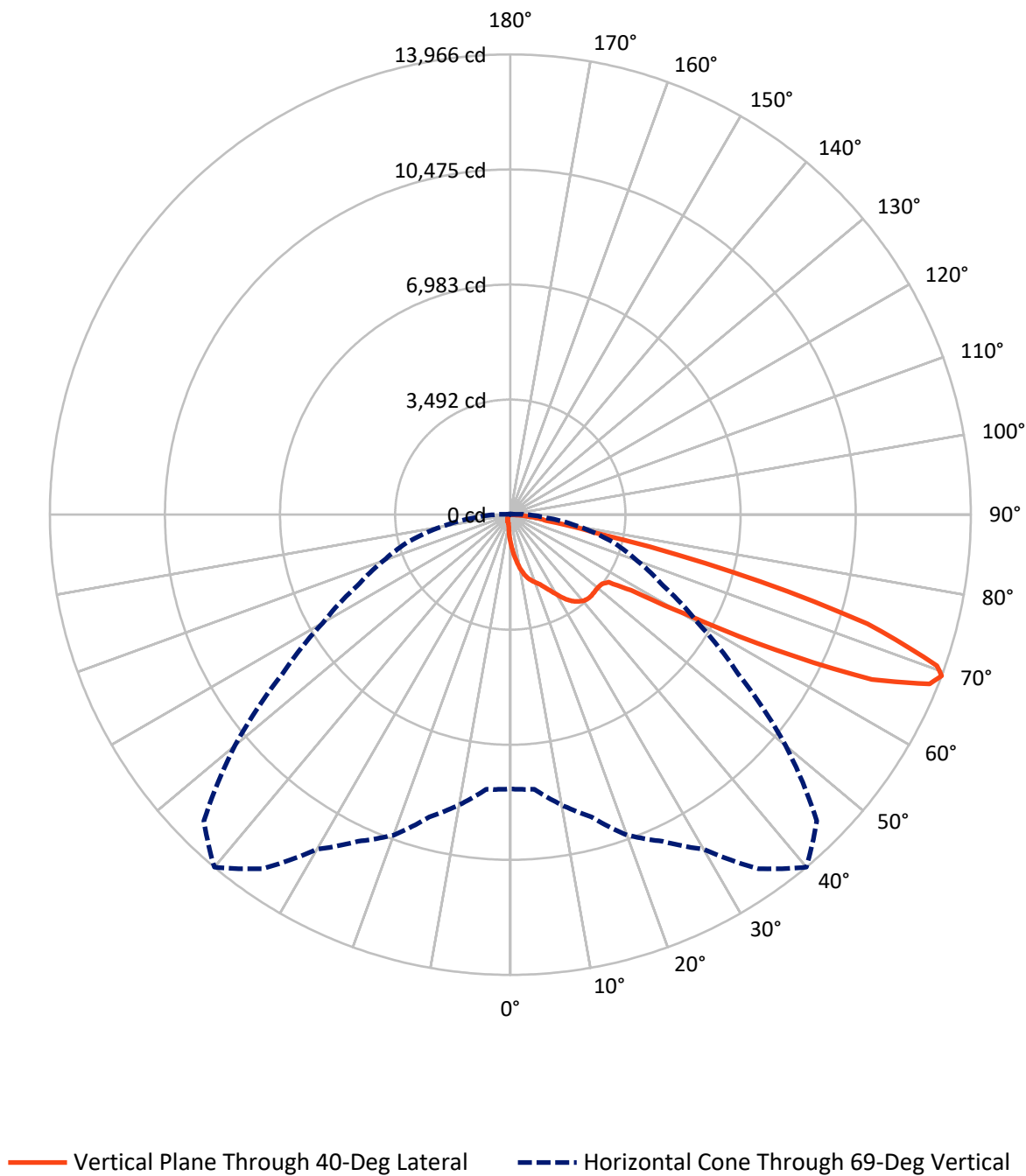


Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.1	0.0	328.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	10689.6	0.0	10689.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	11017.7	0.0	11017.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	0.8
10°-20°	294.9	2.7
20°-30°	564.3	5.1
30°-40°	938.5	8.5
40°-50°	1270.0	11.5
50°-60°	1986.1	18.0
60°-70°	4083.4	37.1
70°-80°	1643.1	14.9
80°-90°	152.0	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°	11017.7	100.0
0°-180°	11017.7	100.0

Coefficient of Utilization



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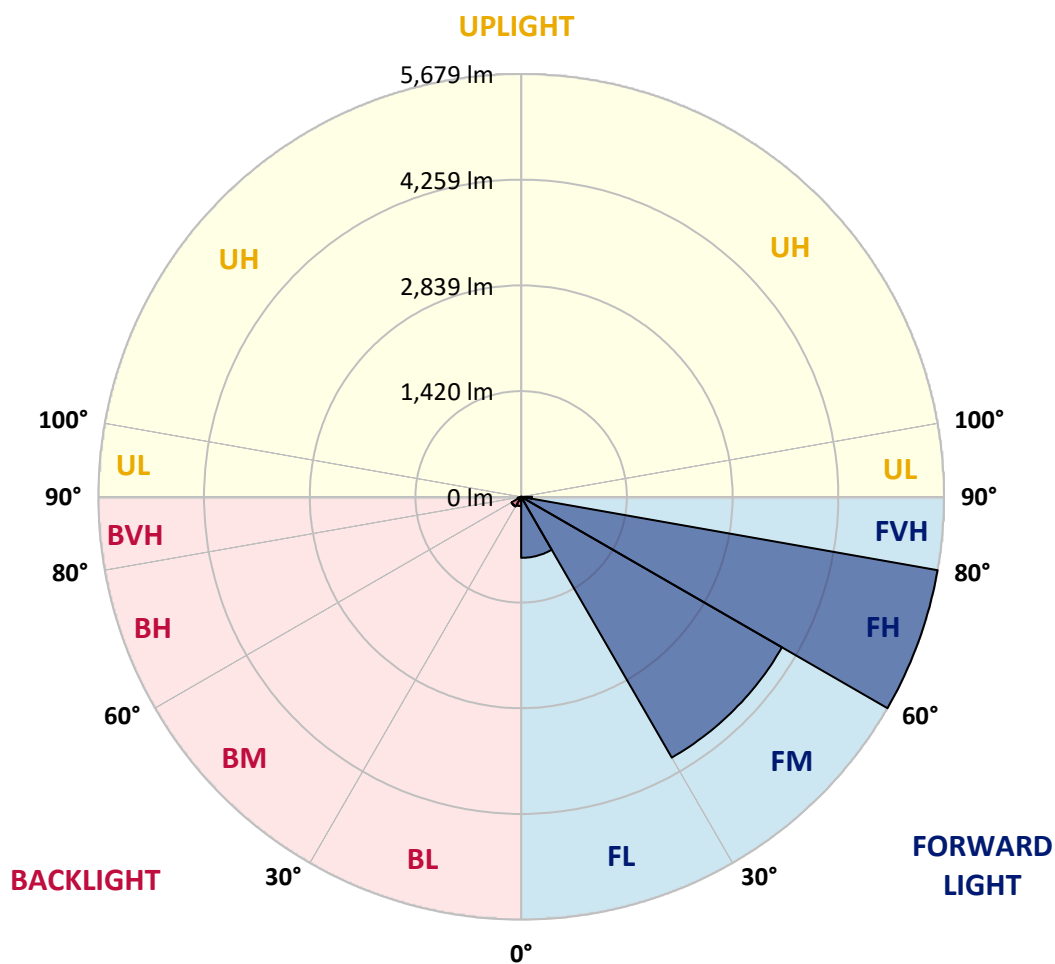
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.9	7.4			
FM	(30°-60°)	4044.8	36.7			
FH	(60°-80°)	5678.6	51.5			G3/7500
FVH	(80°-90°)	146.3	1.3			G2/225
BL	(0°-30°)	124.8	1.1	B1/500		
BM	(30°-60°)	149.8	1.4	B0/220		
BH	(60°-80°)	47.9	0.4	B0/110		G0/110
BVH	(80°-90°)	5.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
2.5°	1110.0	1097.3	1082.9	1082.9	1064.9	1064.9	1054.0	1025.2	1021.6	1005.3	989.0
5°	1416.8	1406.0	1388.0	1371.7	1357.3	1332.0	1313.9	1279.6	1241.8	1205.6	1173.2
7.5°	1716.5	1711.0	1678.6	1673.1	1649.6	1608.2	1572.0	1521.5	1456.5	1406.0	1346.5
10°	1994.4	1981.7	1974.5	1943.8	1909.6	1864.4	1808.4	1747.2	1671.3	1591.9	1507.0
12.5°	2214.6	2207.4	2174.8	2162.2	2126.2	2081.0	2010.6	1931.2	1855.5	1752.5	1653.2
15°	2378.8	2366.2	2344.5	2324.7	2281.4	2241.7	2176.7	2090.0	1998.0	1886.1	1767.0
17.5°	2516.0	2492.6	2487.1	2456.4	2411.4	2364.3	2292.2	2212.8	2104.5	1992.6	1862.6
20°	2700.0	2667.6	2656.8	2611.6	2559.3	2494.3	2411.4	2312.1	2198.3	2075.6	1942.0
22.5°	2916.6	2893.2	2869.7	2830.0	2763.3	2671.2	2550.3	2442.0	2297.6	2162.2	2017.9
25°	3223.5	3203.7	3165.7	3111.6	3028.5	2918.5	2772.3	2613.5	2443.8	2270.5	2100.9
27.5°	3521.3	3503.2	3476.1	3434.7	3340.8	3219.9	3039.4	2837.3	2622.4	2413.1	2225.4
30°	3801.1	3784.8	3757.7	3716.3	3633.2	3514.1	3310.1	3093.5	2826.4	2582.8	2357.2
32.5°	4102.5	4097.0	4066.3	4006.8	3934.6	3774.0	3552.0	3319.2	3048.5	2766.9	2503.3
35°	4443.6	4402.1	4373.2	4313.6	4191.0	4019.4	3759.6	3505.1	3219.9	2931.1	2636.9
37.5°	4732.4	4692.7	4656.6	4580.8	4431.0	4212.6	3918.4	3638.6	3344.4	3050.2	2750.6
40°	4943.5	4923.7	4880.4	4781.1	4613.3	4353.4	4035.7	3730.6	3434.7	3138.7	2842.6
42.5°	5100.6	5069.9	5021.2	4918.3	4719.8	4423.8	4082.6	3768.6	3476.1	3192.8	2902.3
45°	5158.3	5133.1	5087.9	4976.0	4761.2	4443.6	4080.8	3757.7	3478.0	3209.0	2941.9
47.5°	5124.0	5098.8	5059.0	4954.3	4743.2	4420.1	4048.4	3727.0	3459.9	3214.5	2978.0
50°	5010.3	4995.9	4965.2	4876.7	4687.2	4375.0	4019.4	3710.8	3456.3	3241.6	3028.5
52.5°	4999.5	4990.5	4952.6	4864.1	4671.0	4360.5	4015.8	3719.9	3487.0	3275.9	3064.7
55°	6109.4	5981.3	5694.4	5450.7	5050.0	4573.6	4198.1	3866.0	3617.0	3411.3	3263.2
57.5°	8683.2	8492.0	8114.7	7650.9	6730.3	5826.1	5102.4	4579.0	4320.8	4227.0	4282.9
60°	9888.8	9854.6	9795.0	9574.8	9103.8	8325.9	7459.5	6522.9	6147.4	6114.9	6228.6
62.5°	10461.1	10439.4	10457.5	10430.4	10284.2	10056.8	9807.6	9403.4	9031.5	8791.5	8282.5
65°	10724.6	10739.0	10841.8	10923.0	10941.1	11000.6	11183.0	11686.5	12054.7	11435.7	10022.4
67.5°	10054.9	10139.7	10376.2	10672.2	11018.7	11354.4	11895.9	12957.2	13713.4	12986.1	10979.1
69°	8324.1	8365.6	8943.1	9500.9	10347.3	10939.4	11724.5	13116.0	13966.1	13144.9	10903.2
70°	6553.4	6591.4	7210.5	7968.5	9399.8	10161.4	11188.4	12847.1	13729.6	12933.7	10513.4
72.5°	2956.4	2902.3	3120.6	3526.7	5082.5	6291.8	8087.6	10408.7	11327.4	10361.8	7865.6
75°	2064.8	2041.3	2064.8	2066.5	2308.4	2978.0	3757.7	5642.0	6977.6	6021.1	3757.7
77.5°	1599.1	1582.9	1566.7	1548.6	1577.5	1767.0	1842.7	2001.6	2599.0	2458.3	1433.0
80°	1265.2	1250.8	1290.5	1277.9	1277.9	1299.6	1285.1	1225.5	1113.6	1032.3	924.1
82.5°	588.3	592.0	592.0	642.5	774.3	904.2	945.8	886.2	786.9	669.6	539.7
85°	55.9	63.1	106.5	164.3	326.7	368.2	370.0	306.8	306.8	241.9	194.9
87.5°	0.0	1.8	1.8	1.8	16.2	45.2	37.9	10.9	5.4	5.4	9.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
2.5°	960.2	954.7	933.2	911.5	891.6	869.9	850.1	830.2	808.5	792.3	772.5
5°	1122.7	1082.9	1037.8	994.5	951.1	906.1	859.2	817.6	774.3	734.6	696.6
7.5°	1286.8	1209.2	1147.9	1070.3	999.9	929.5	864.5	797.8	736.4	678.7	624.5
10°	1425.8	1332.0	1236.3	1137.1	1036.0	942.1	851.9	772.5	691.3	620.9	554.1
12.5°	1539.6	1420.4	1303.2	1178.6	1064.9	945.8	833.9	738.2	642.5	563.1	494.5
15°	1642.4	1505.3	1364.4	1220.1	1075.7	940.4	815.8	696.6	599.2	509.0	431.4
17.5°	1725.5	1568.4	1409.6	1247.2	1092.0	933.2	792.3	667.8	554.1	460.2	384.5
20°	1797.7	1633.4	1462.0	1279.6	1102.8	931.3	772.5	631.7	514.4	415.2	341.1
22.5°	1864.4	1700.1	1516.1	1321.1	1119.0	929.5	754.4	604.7	480.1	380.9	306.8
25°	1940.3	1767.0	1573.9	1364.4	1147.9	936.8	743.6	583.0	449.4	348.3	279.7
27.5°	2025.1	1842.7	1642.4	1418.6	1185.8	951.1	740.0	559.5	422.3	317.6	258.1
30°	2144.1	1933.1	1711.0	1472.7	1220.1	967.5	736.4	545.1	395.2	294.2	236.4
32.5°	2248.9	2021.5	1786.8	1528.7	1258.0	983.7	734.6	525.2	370.0	270.7	220.2
35°	2359.0	2102.7	1851.8	1582.9	1290.5	1001.7	732.8	510.7	346.6	247.3	204.0
37.5°	2454.6	2171.2	1902.4	1629.8	1326.6	1018.0	734.6	498.1	324.9	227.4	189.5
40°	2535.9	2241.7	1958.3	1673.1	1364.4	1043.2	736.4	485.5	303.3	209.3	176.9
42.5°	2608.1	2308.4	2017.9	1721.8	1407.8	1072.1	747.3	474.7	285.2	193.1	164.3
45°	2664.0	2369.8	2082.8	1790.5	1478.2	1119.0	767.1	467.5	267.1	178.7	153.4
47.5°	2721.7	2460.0	2192.9	1898.7	1581.1	1193.0	801.4	465.7	252.6	167.8	144.3
50°	2801.2	2550.3	2290.4	2008.8	1674.9	1268.9	842.8	467.5	234.7	157.1	135.4
52.5°	2859.0	2642.3	2416.7	2200.2	1898.7	1499.8	1003.5	499.9	225.6	148.0	124.5
55°	3200.1	3162.1	3167.5	3203.7	2970.9	2552.1	1678.6	721.9	265.3	167.8	122.8
57.5°	4512.2	4645.7	4723.3	4721.5	4337.1	3597.1	2254.3	927.7	296.0	194.9	146.2
60°	6237.7	6136.6	5994.0	5642.0	5131.2	4106.1	2521.4	998.1	256.2	155.2	133.6
62.5°	7762.8	7170.7	6645.5	6075.2	5405.6	4282.9	2575.5	992.7	223.8	117.3	93.8
65°	8713.9	7649.0	6800.8	6086.0	5297.3	4135.0	2436.6	911.5	189.5	95.7	77.6
67.5°	8941.3	7390.9	6190.8	5279.2	4425.5	3218.1	1788.6	685.9	148.0	79.5	68.6
69°	8444.9	6569.8	5129.5	4095.3	3219.9	2135.2	1106.4	433.1	113.7	72.2	63.1
70°	7768.2	5714.2	4178.2	3286.6	2384.3	1499.8	774.3	305.0	92.1	66.7	57.8
72.5°	4997.7	3001.5	2053.9	1429.4	983.7	597.4	303.3	137.2	70.4	55.9	46.9
75°	1938.4	1110.0	805.0	611.8	478.3	332.1	184.1	88.4	59.5	46.9	36.1
77.5°	954.7	730.9	597.4	409.7	238.3	148.0	99.3	68.6	48.8	34.3	23.5
80°	754.4	501.8	299.7	185.9	140.7	106.5	75.8	55.9	36.1	21.7	16.2
82.5°	386.2	211.2	155.2	126.4	104.7	83.1	61.4	39.7	23.5	14.5	12.6
85°	120.9	88.4	79.5	77.6	72.2	59.5	43.3	25.3	14.5	9.0	9.0
87.5°	9.0	12.6	16.2	12.6	14.5	12.6	16.2	10.9	7.2	7.2	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
2.5°	758.0	736.4	716.6	703.9	680.4	671.4	662.4	658.8	642.5	646.1	631.7
5°	662.4	624.5	595.6	566.8	539.7	519.8	503.5	483.7	467.5	460.2	445.8
7.5°	575.7	527.1	489.2	458.5	425.9	400.7	379.0	364.5	350.2	335.7	328.5
10°	499.9	447.6	404.3	373.6	342.9	321.2	305.0	294.2	285.2	279.7	278.0
12.5°	429.5	379.0	339.3	312.3	288.8	278.0	270.7	265.3	263.5	261.7	261.7
15°	375.4	324.9	294.2	274.3	263.5	258.1	256.2	252.6	249.1	247.3	247.3
17.5°	324.9	286.9	265.3	254.5	249.1	245.5	241.9	238.3	234.7	232.8	232.8
20°	290.6	259.9	249.1	241.9	236.4	232.8	227.4	223.8	222.1	220.2	218.4
22.5°	263.5	243.6	236.4	231.0	223.8	218.4	214.8	211.2	207.6	205.7	204.0
25°	243.6	231.0	225.6	218.4	211.2	205.7	200.4	194.9	191.4	189.5	185.9
27.5°	229.2	220.2	213.0	204.0	196.7	191.4	185.9	180.5	176.9	173.3	171.4
30°	216.6	207.6	198.5	191.4	182.3	176.9	169.7	164.3	162.4	158.8	155.2
32.5°	204.0	194.9	185.9	176.9	167.8	160.7	157.1	149.8	146.2	144.3	140.7
35°	189.5	180.5	169.7	162.4	153.4	146.2	140.7	135.4	131.7	128.1	126.4
37.5°	176.9	166.0	155.2	146.2	139.0	131.7	126.4	120.9	117.3	113.7	111.9
40°	162.4	151.6	140.7	131.7	124.5	119.1	113.7	108.3	104.7	102.9	102.9
42.5°	149.8	137.2	126.4	119.1	113.7	106.5	101.1	95.7	93.8	92.1	93.8
45°	137.2	124.5	115.5	108.3	102.9	95.7	90.2	86.6	84.8	86.6	88.4
47.5°	126.4	113.7	104.7	99.3	93.8	88.4	83.1	79.5	79.5	83.1	86.6
50°	115.5	102.9	95.7	92.1	86.6	81.2	74.0	72.2	74.0	77.6	81.2
52.5°	104.7	90.2	84.8	83.1	77.6	72.2	66.7	65.0	66.7	70.4	68.6
55°	93.8	79.5	77.6	75.8	70.4	63.1	57.8	57.8	57.8	55.9	52.4
57.5°	90.2	70.4	68.6	66.7	61.4	54.1	50.5	46.9	45.2	39.7	37.9
60°	93.8	63.1	63.1	59.5	54.1	46.9	41.5	36.1	32.4	28.8	28.8
62.5°	75.8	57.8	55.9	52.4	45.2	37.9	32.4	27.1	25.3	23.5	23.5
65°	61.4	52.4	48.8	43.3	37.9	30.7	25.3	21.7	19.8	19.8	21.7
67.5°	55.9	46.9	41.5	36.1	30.7	23.5	19.8	18.1	18.1	19.8	19.8
69°	52.4	43.3	37.9	32.4	27.1	21.7	18.1	18.1	18.1	18.1	19.8
70°	48.8	41.5	36.1	30.7	23.5	18.1	16.2	16.2	18.1	18.1	19.8
72.5°	37.9	32.4	30.7	25.3	18.1	16.2	14.5	16.2	16.2	18.1	18.1
75°	28.8	23.5	23.5	19.8	14.5	12.6	12.6	14.5	14.5	16.2	16.2
77.5°	19.8	16.2	16.2	14.5	12.6	10.9	10.9	12.6	14.5	14.5	16.2
80°	14.5	12.6	10.9	12.6	10.9	9.0	10.9	12.6	12.6	14.5	14.5
82.5°	10.9	10.9	10.9	10.9	9.0	9.0	10.9	10.9	12.6	14.5	14.5
85°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.9	10.9	12.6	12.6
87.5°	5.4	5.4	5.4	7.2	7.2	9.0	9.0	9.0	9.0	10.9	10.9
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):

	165°	170°	175°	180°
0°	832.1	832.1	832.1	832.1
2.5°	628.1	626.3	619.0	620.9
5°	440.4	429.5	436.8	435.0
7.5°	323.1	321.2	319.5	323.1
10°	276.2	276.2	274.3	276.2
12.5°	259.9	259.9	259.9	259.9
15°	247.3	247.3	245.5	245.5
17.5°	232.8	232.8	232.8	231.0
20°	218.4	216.6	216.6	216.6
22.5°	202.1	200.4	200.4	200.4
25°	185.9	184.1	184.1	184.1
27.5°	169.7	167.8	166.0	166.0
30°	153.4	151.6	149.8	149.8
32.5°	137.2	135.4	133.6	133.6
35°	122.8	122.8	120.9	119.1
37.5°	110.2	110.2	110.2	110.2
40°	101.1	102.9	102.9	102.9
42.5°	95.7	97.4	99.3	101.1
45°	92.1	95.7	97.4	97.4
47.5°	90.2	92.1	93.8	93.8
50°	83.1	81.2	81.2	81.2
52.5°	66.7	63.1	61.4	59.5
55°	48.8	46.9	43.3	43.3
57.5°	34.3	34.3	32.4	32.4
60°	27.1	27.1	25.3	27.1
62.5°	23.5	23.5	23.5	23.5
65°	21.7	21.7	21.7	21.7
67.5°	21.7	21.7	21.7	21.7
69°	19.8	19.8	19.8	19.8
70°	19.8	19.8	19.8	19.8
72.5°	18.1	18.1	18.1	18.1
75°	16.2	18.1	18.1	18.1
77.5°	16.2	16.2	16.2	16.2
80°	14.5	14.5	16.2	16.2
82.5°	14.5	14.5	14.5	14.5
85°	12.6	12.6	14.5	14.5
87.5°	10.9	10.9	12.6	12.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)