

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: P165520

Luminaire Tested: **VST-F08-LED-E-U-SL4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165520
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-F08-LED-E-U-SL4-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (56) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11206.2 lumens
Efficiency: N/A
Efficacy: 54.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 204.4
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



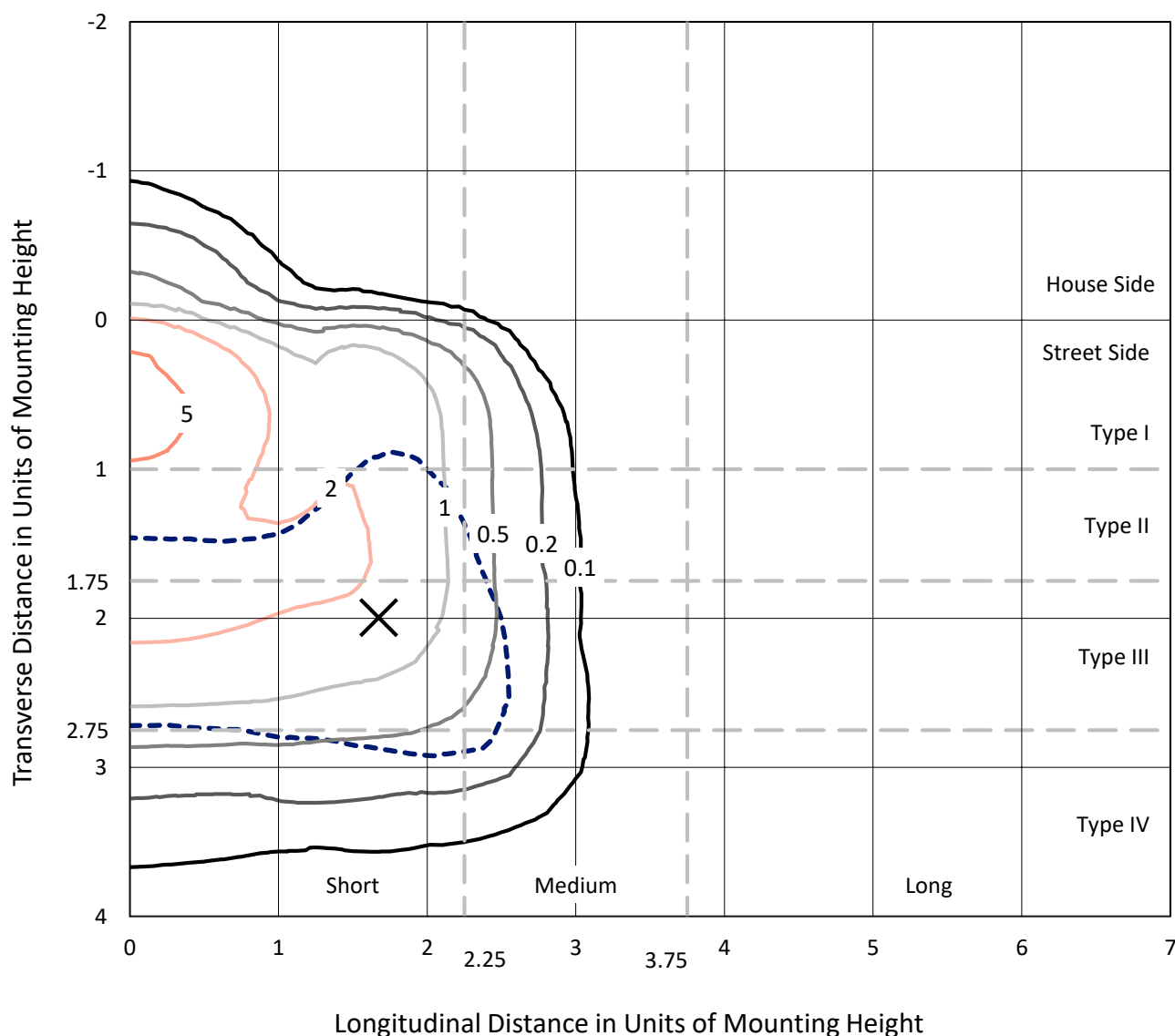
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

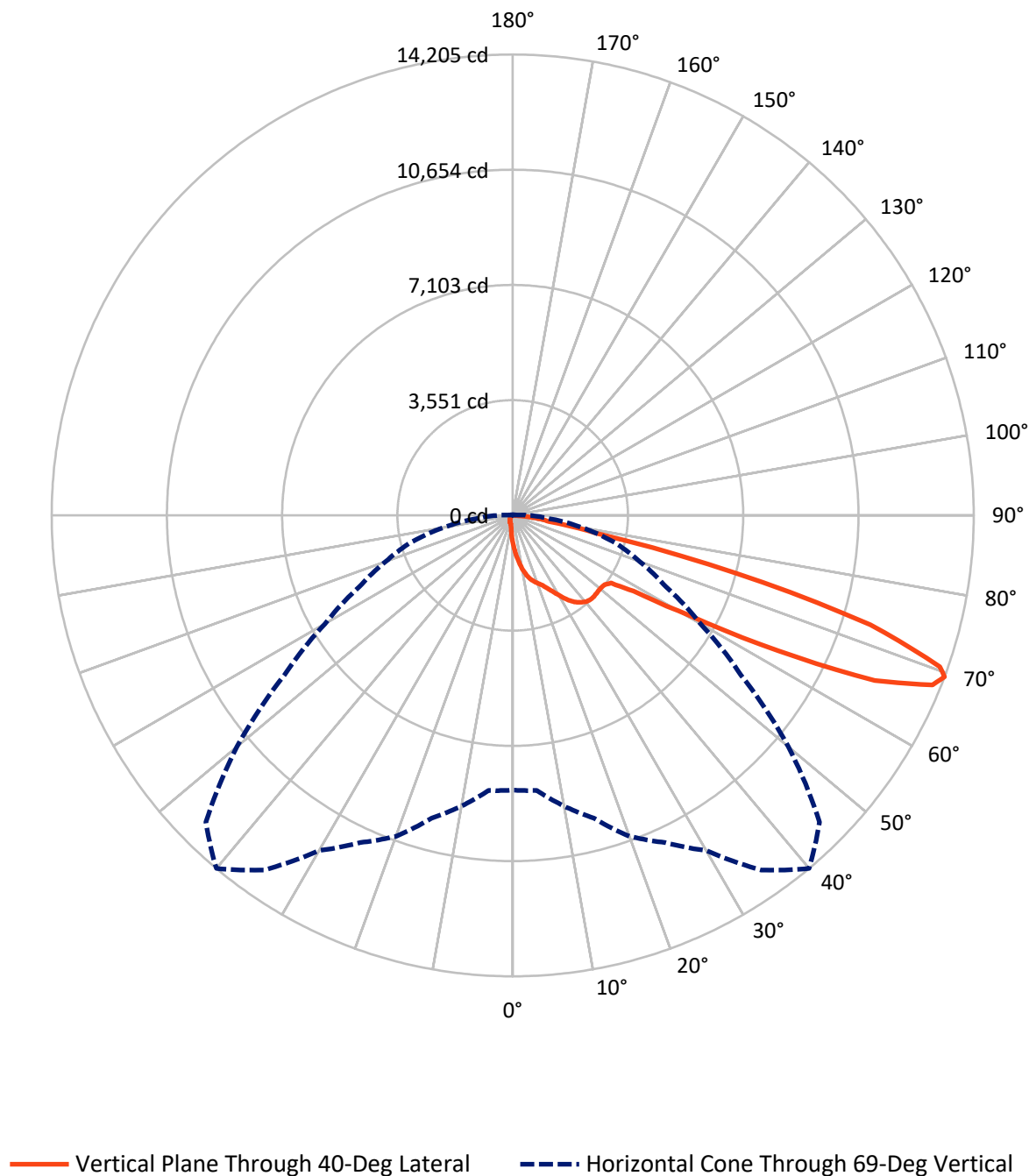


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	333.7	0.0	333.7
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	10872.5	0.0	10872.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	11206.2	0.0	11206.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	0.8
10°-20°	299.9	2.7
20°-30°	574.0	5.1
30°-40°	954.6	8.5
40°-50°	1291.7	11.5
50°-60°	2020.1	18.0
60°-70°	4153.2	37.1
70°-80°	1671.2	14.9
80°-90°	154.6	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°	11206.2	100.0
0°-180°	11206.2	100.0

Coefficient of Utilization



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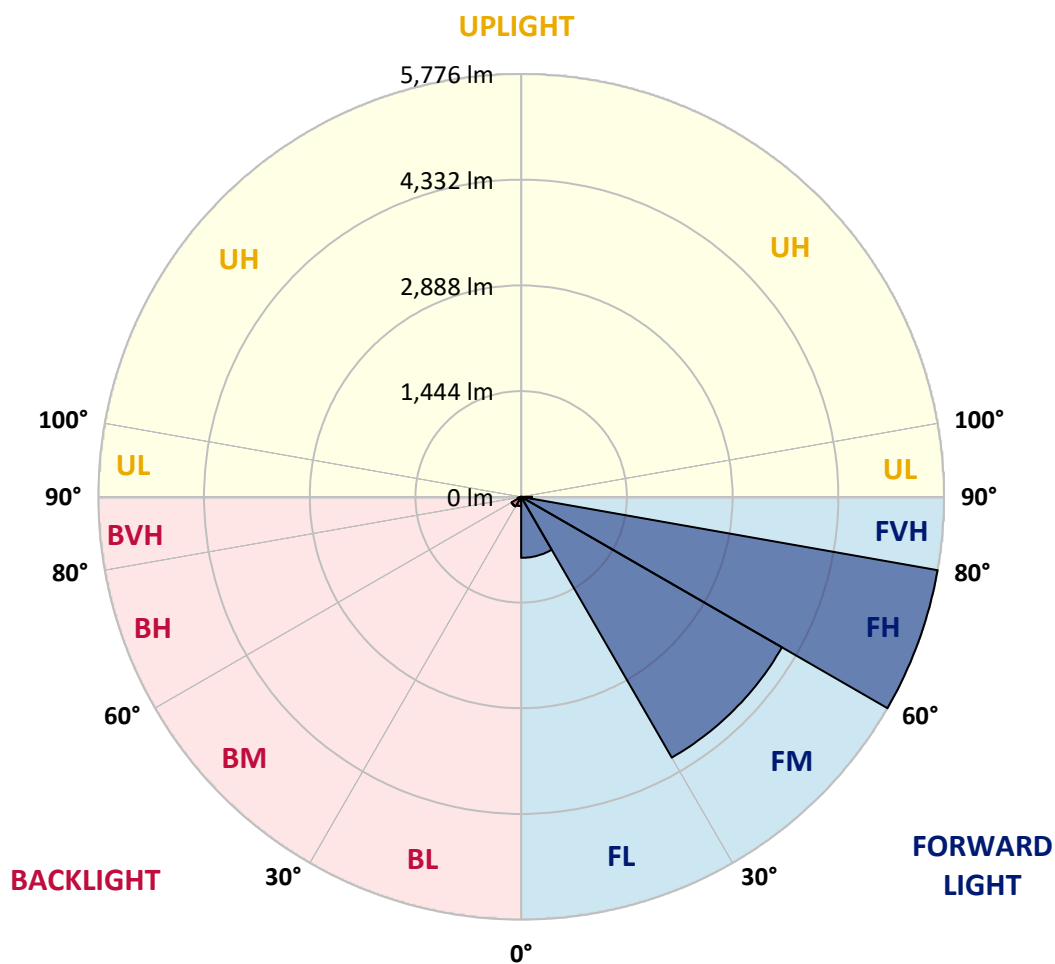
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.0	7.4			
FM	(30°-60°)	4114.0	36.7			
FH	(60°-80°)	5775.7	51.5			G3/7500
FVH	(80°-90°)	148.8	1.3			G2/225
BL	(0°-30°)	126.9	1.1	B1/500		
BM	(30°-60°)	152.4	1.4	B0/220		
BH	(60°-80°)	48.7	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°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	1129.0	1116.1	1101.4	1101.4	1083.1	1083.1	1072.1	1042.8	1039.1	1022.5	1006.0
5°	1441.1	1430.0	1411.8	1395.1	1380.5	1354.8	1336.4	1301.5	1263.0	1226.3	1193.3
7.5°	1745.9	1740.3	1707.3	1701.7	1677.9	1635.7	1598.9	1547.5	1481.4	1430.0	1369.5
10°	2028.6	2015.6	2008.3	1977.1	1942.3	1896.3	1839.4	1777.1	1699.9	1619.1	1532.8
12.5°	2252.5	2245.2	2212.1	2199.2	2162.6	2116.6	2045.1	1964.2	1887.2	1782.5	1681.5
15°	2419.5	2406.7	2384.6	2364.4	2320.4	2280.1	2213.9	2125.8	2032.2	1918.4	1797.2
17.5°	2559.1	2535.2	2529.7	2498.4	2452.6	2404.8	2331.4	2250.6	2140.5	2026.7	1894.5
20°	2746.3	2713.3	2702.2	2656.3	2603.1	2537.0	2452.6	2351.6	2235.9	2111.2	1975.3
22.5°	2966.5	2942.7	2918.8	2878.5	2810.6	2716.9	2594.0	2483.8	2336.9	2199.2	2052.4
25°	3278.7	3258.5	3219.9	3164.9	3080.4	2968.4	2819.7	2658.2	2485.6	2309.4	2136.8
27.5°	3581.6	3563.2	3535.6	3493.5	3398.0	3275.0	3091.4	2885.8	2667.3	2454.4	2263.4
30°	3866.2	3849.5	3822.0	3779.9	3695.4	3574.2	3366.7	3146.5	2874.8	2627.0	2397.6
32.5°	4172.7	4167.1	4135.9	4075.4	4001.9	3838.6	3612.8	3376.0	3100.6	2814.3	2546.2
35°	4519.6	4477.4	4448.1	4387.4	4262.7	4088.2	3823.9	3565.1	3275.0	2981.2	2682.0
37.5°	4813.4	4773.0	4736.2	4659.2	4506.8	4284.6	3985.4	3700.8	3401.6	3102.4	2797.6
40°	5028.1	5007.9	4963.9	4862.9	4692.2	4427.9	4104.7	3794.5	3493.5	3192.4	2891.3
42.5°	5187.8	5156.6	5107.1	5002.4	4800.6	4499.5	4152.4	3833.0	3535.6	3247.5	2951.9
45°	5246.6	5220.9	5175.0	5061.2	4842.7	4519.6	4150.6	3822.0	3537.5	3264.0	2992.3
47.5°	5211.7	5186.1	5145.6	5039.1	4824.4	4495.8	4117.7	3790.8	3519.1	3269.5	3029.0
50°	5096.1	5081.4	5050.2	4960.2	4767.5	4449.9	4088.2	3774.3	3515.4	3297.1	3080.4
52.5°	5085.1	5075.9	5037.3	4947.4	4751.0	4435.1	4084.5	3783.6	3546.7	3332.0	3117.1
55°	6214.0	6083.7	5791.8	5544.0	5136.4	4651.9	4269.9	3932.2	3678.9	3469.6	3319.0
57.5°	8831.8	8637.3	8253.6	7781.8	6845.5	5925.8	5189.7	4657.3	4394.8	4299.4	4356.2
60°	10058.1	10023.3	9962.6	9738.7	9259.6	8468.4	7587.2	6634.5	6252.6	6219.6	6335.2
62.5°	10640.1	10618.0	10636.4	10608.9	10460.2	10228.9	9975.5	9564.3	9186.1	8942.0	8424.3
65°	10908.1	10922.8	11027.4	11110.0	11128.4	11188.9	11374.4	11886.5	12261.0	11631.4	10194.0
67.5°	10227.0	10313.2	10553.8	10854.8	11207.3	11548.8	12099.5	13178.9	13948.1	13208.3	11166.9
69°	8466.5	8508.8	9096.1	9663.4	10524.4	11126.6	11925.1	13340.4	14205.2	13369.9	11089.8
70°	6665.6	6704.2	7333.9	8104.9	9560.7	10335.3	11379.9	13067.0	13964.6	13155.0	10693.3
72.5°	3007.0	2951.9	3174.0	3587.0	5169.4	6399.5	8226.1	10586.8	11521.2	10539.1	8000.2
75°	2100.1	2076.3	2100.1	2101.9	2347.9	3029.0	3822.0	5738.5	7097.0	6124.1	3822.0
77.5°	1626.5	1610.0	1593.5	1575.1	1604.5	1797.2	1874.3	2035.8	2643.5	2500.3	1457.6
80°	1286.9	1272.2	1312.5	1299.7	1299.7	1321.8	1307.1	1246.4	1132.6	1050.0	939.9
82.5°	598.4	602.1	602.1	653.5	787.6	919.7	961.9	901.4	800.4	681.0	548.9
85°	56.9	64.2	108.4	167.1	332.3	374.5	376.3	312.0	312.0	246.0	198.2
87.5°	0.0	1.8	1.8	1.8	16.5	45.9	38.6	11.0	5.5	5.5	9.1
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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CATALOG NUMBER: VST-F08-LED-E-U-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	976.7	971.1	949.1	927.0	906.9	884.8	864.6	844.4	822.4	805.9	785.7
5°	1141.9	1101.4	1055.6	1011.5	967.4	921.6	873.9	831.6	787.6	747.1	708.6
7.5°	1308.9	1229.9	1167.5	1088.6	1017.0	945.4	879.3	811.4	749.0	690.3	635.2
10°	1450.2	1354.8	1257.5	1156.6	1053.7	958.3	866.5	785.7	703.1	631.5	563.6
12.5°	1565.9	1444.8	1325.5	1198.7	1083.1	961.9	848.1	750.8	653.5	572.8	503.0
15°	1670.5	1531.0	1387.8	1241.0	1094.2	956.5	829.7	708.6	609.4	517.7	438.8
17.5°	1755.0	1595.2	1433.7	1268.5	1110.7	949.1	805.9	679.2	563.6	468.1	391.1
20°	1828.5	1661.4	1487.0	1301.5	1121.7	947.2	785.7	642.6	523.2	422.3	346.9
22.5°	1896.3	1729.2	1542.1	1343.8	1138.2	945.4	767.3	615.0	488.3	387.4	312.0
25°	1973.5	1797.2	1600.8	1387.8	1167.5	952.8	756.4	592.9	457.1	354.3	284.5
27.5°	2059.8	1874.3	1670.5	1442.9	1206.1	967.4	752.7	569.1	429.5	323.1	262.5
30°	2180.8	1966.1	1740.3	1497.9	1241.0	984.0	749.0	554.4	402.0	299.2	240.5
32.5°	2287.4	2056.1	1817.4	1554.9	1279.5	1000.5	747.1	534.2	376.3	275.3	224.0
35°	2399.3	2138.7	1883.5	1610.0	1312.5	1018.8	745.3	519.5	352.5	251.5	207.5
37.5°	2496.7	2208.4	1934.9	1657.7	1349.3	1035.4	747.1	506.7	330.4	231.3	192.7
40°	2579.3	2280.1	1991.8	1701.7	1387.8	1061.0	749.0	493.8	308.5	212.9	179.9
42.5°	2652.7	2347.9	2052.4	1751.3	1431.9	1090.5	760.1	482.8	290.1	196.4	167.1
45°	2709.6	2410.4	2118.4	1821.1	1503.5	1138.2	780.2	475.5	271.7	181.7	156.1
47.5°	2768.3	2502.1	2230.4	1931.2	1608.2	1213.4	815.1	473.7	257.0	170.7	146.8
50°	2849.1	2594.0	2329.5	2043.2	1703.6	1290.6	857.3	475.5	238.7	159.7	137.7
52.5°	2907.9	2687.5	2458.1	2237.8	1931.2	1525.5	1020.7	508.4	229.4	150.5	126.6
55°	3254.8	3216.2	3221.7	3258.5	3021.7	2595.8	1707.3	734.3	269.9	170.7	124.9
57.5°	4589.4	4725.2	4804.1	4802.3	4411.3	3658.7	2292.9	943.5	301.1	198.2	148.7
60°	6344.4	6241.6	6096.6	5738.5	5219.1	4176.4	2564.5	1015.2	260.6	157.9	135.9
62.5°	7895.6	7293.4	6759.2	6179.2	5498.1	4356.2	2619.6	1009.7	227.6	119.3	95.4
65°	8863.0	7779.9	6917.2	6190.1	5387.9	4205.7	2478.3	927.0	192.7	97.3	78.9
67.5°	9094.3	7517.4	6296.7	5369.5	4501.2	3273.2	1819.2	697.6	150.5	80.8	69.8
69°	8589.5	6682.2	5217.3	4165.4	3275.0	2171.7	1125.4	440.6	115.6	73.5	64.2
70°	7901.1	5812.0	4249.8	3342.9	2425.1	1525.5	787.6	310.2	93.6	67.9	58.7
72.5°	5083.3	3052.8	2089.1	1453.9	1000.5	607.7	308.5	139.6	71.6	56.9	47.7
75°	1971.6	1129.0	818.8	622.3	486.5	337.8	187.3	90.0	60.5	47.7	36.7
77.5°	971.1	743.4	607.7	416.7	242.4	150.5	101.0	69.8	49.6	34.9	23.9
80°	767.3	510.3	304.8	189.1	143.1	108.4	77.1	56.9	36.7	22.1	16.5
82.5°	392.8	214.8	157.9	128.5	106.5	84.5	62.4	40.4	23.9	14.7	12.8
85°	123.0	90.0	80.8	78.9	73.5	60.5	44.0	25.8	14.7	9.1	9.1
87.5°	9.1	12.8	16.5	12.8	14.7	12.8	16.5	11.0	7.4	7.4	5.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	771.0	749.0	728.8	715.9	692.1	682.9	673.8	670.1	653.5	657.2	642.6
5°	673.8	635.2	605.8	576.5	548.9	528.7	512.1	492.0	475.5	468.1	453.4
7.5°	585.6	536.1	497.5	466.3	433.2	407.6	385.5	370.8	356.2	341.5	334.1
10°	508.4	455.3	411.2	380.0	348.8	326.7	310.2	299.2	290.1	284.5	282.7
12.5°	436.9	385.5	345.1	317.6	293.7	282.7	275.3	269.9	268.0	266.2	266.2
15°	381.8	330.4	299.2	279.0	268.0	262.5	260.6	257.0	253.4	251.5	251.5
17.5°	330.4	291.8	269.9	258.9	253.4	249.7	246.0	242.4	238.7	236.8	236.8
20°	295.5	264.3	253.4	246.0	240.5	236.8	231.3	227.6	225.9	224.0	222.2
22.5°	268.0	247.8	240.5	235.0	227.6	222.2	218.5	214.8	211.1	209.2	207.5
25°	247.8	235.0	229.4	222.2	214.8	209.2	203.8	198.2	194.6	192.7	189.1
27.5°	233.1	224.0	216.6	207.5	200.1	194.6	189.1	183.6	179.9	176.2	174.4
30°	220.3	211.1	201.9	194.6	185.4	179.9	172.6	167.1	165.2	161.5	157.9
32.5°	207.5	198.2	189.1	179.9	170.7	163.4	159.7	152.4	148.7	146.8	143.1
35°	192.7	183.6	172.6	165.2	156.1	148.7	143.1	137.7	134.0	130.3	128.5
37.5°	179.9	168.9	157.9	148.7	141.4	134.0	128.5	123.0	119.3	115.6	113.8
40°	165.2	154.2	143.1	134.0	126.6	121.2	115.6	110.1	106.5	104.7	104.7
42.5°	152.4	139.6	128.5	121.2	115.6	108.4	102.8	97.3	95.4	93.6	95.4
45°	139.6	126.6	117.5	110.1	104.7	97.3	91.7	88.1	86.3	88.1	90.0
47.5°	128.5	115.6	106.5	101.0	95.4	90.0	84.5	80.8	80.8	84.5	88.1
50°	117.5	104.7	97.3	93.6	88.1	82.6	75.2	73.5	75.2	78.9	82.6
52.5°	106.5	91.7	86.3	84.5	78.9	73.5	67.9	66.1	67.9	71.6	69.8
55°	95.4	80.8	78.9	77.1	71.6	64.2	58.7	58.7	58.7	56.9	53.3
57.5°	91.7	71.6	69.8	67.9	62.4	55.1	51.4	47.7	45.9	40.4	38.6
60°	95.4	64.2	64.2	60.5	55.1	47.7	42.3	36.7	33.0	29.3	29.3
62.5°	77.1	58.7	56.9	53.3	45.9	38.6	33.0	27.5	25.8	23.9	23.9
65°	62.4	53.3	49.6	44.0	38.6	31.2	25.8	22.1	20.2	20.2	22.1
67.5°	56.9	47.7	42.3	36.7	31.2	23.9	20.2	18.4	18.4	20.2	20.2
69°	53.3	44.0	38.6	33.0	27.5	22.1	18.4	18.4	18.4	18.4	20.2
70°	49.6	42.3	36.7	31.2	23.9	18.4	16.5	16.5	18.4	18.4	20.2
72.5°	38.6	33.0	31.2	25.8	18.4	16.5	14.7	16.5	16.5	18.4	18.4
75°	29.3	23.9	23.9	20.2	14.7	12.8	12.8	14.7	14.7	16.5	16.5
77.5°	20.2	16.5	16.5	14.7	12.8	11.0	11.0	12.8	14.7	14.7	16.5
80°	14.7	12.8	11.0	12.8	11.0	9.1	11.0	12.8	12.8	14.7	14.7
82.5°	11.0	11.0	11.0	11.0	9.1	9.1	11.0	11.0	12.8	14.7	14.7
85°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	11.0	11.0	12.8	12.8
87.5°	5.5	5.5	5.5	7.4	7.4	9.1	9.1	9.1	9.1	11.0	11.0
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):

	165°	170°	175°	180°
0°	846.3	846.3	846.3	846.3
2.5°	638.9	637.0	629.6	631.5
5°	447.9	436.9	444.2	442.5
7.5°	328.6	326.7	325.0	328.6
10°	280.9	280.9	279.0	280.9
12.5°	264.3	264.3	264.3	264.3
15°	251.5	251.5	249.7	249.7
17.5°	236.8	236.8	236.8	235.0
20°	222.2	220.3	220.3	220.3
22.5°	205.6	203.8	203.8	203.8
25°	189.1	187.3	187.3	187.3
27.5°	172.6	170.7	168.9	168.9
30°	156.1	154.2	152.4	152.4
32.5°	139.6	137.7	135.9	135.9
35°	124.9	124.9	123.0	121.2
37.5°	112.0	112.0	112.0	112.0
40°	102.8	104.7	104.7	104.7
42.5°	97.3	99.1	101.0	102.8
45°	93.6	97.3	99.1	99.1
47.5°	91.7	93.6	95.4	95.4
50°	84.5	82.6	82.6	82.6
52.5°	67.9	64.2	62.4	60.5
55°	49.6	47.7	44.0	44.0
57.5°	34.9	34.9	33.0	33.0
60°	27.5	27.5	25.8	27.5
62.5°	23.9	23.9	23.9	23.9
65°	22.1	22.1	22.1	22.1
67.5°	22.1	22.1	22.1	22.1
69°	20.2	20.2	20.2	20.2
70°	20.2	20.2	20.2	20.2
72.5°	18.4	18.4	18.4	18.4
75°	16.5	18.4	18.4	18.4
77.5°	16.5	16.5	16.5	16.5
80°	14.7	14.7	16.5	16.5
82.5°	14.7	14.7	14.7	14.7
85°	12.8	12.8	14.7	14.7
87.5°	11.0	11.0	12.8	12.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)