

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: P165295

Luminaire Tested: **VST-E08-LED-E-U-SL3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165295
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-SL3-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11566.7 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 194.5
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



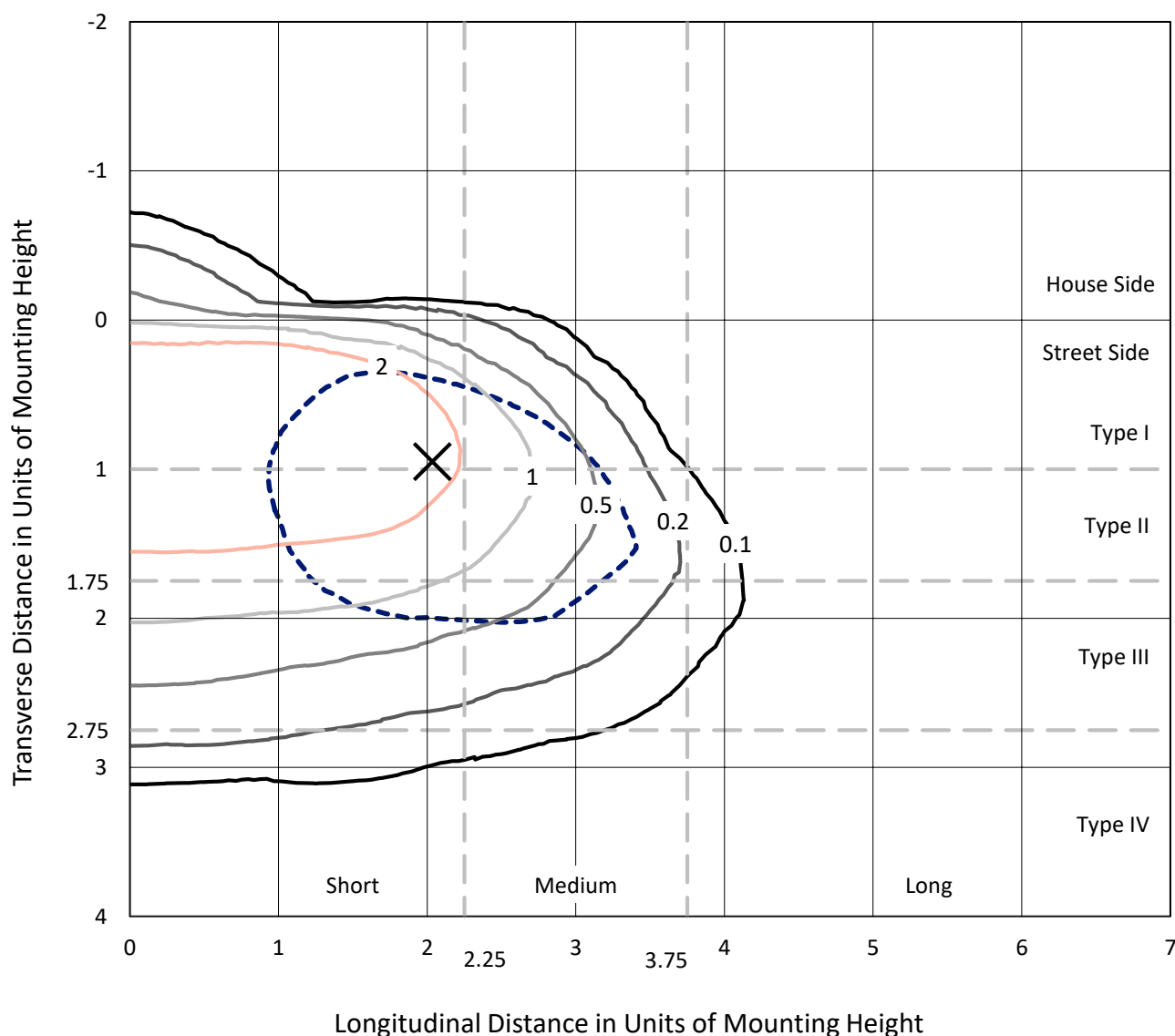
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

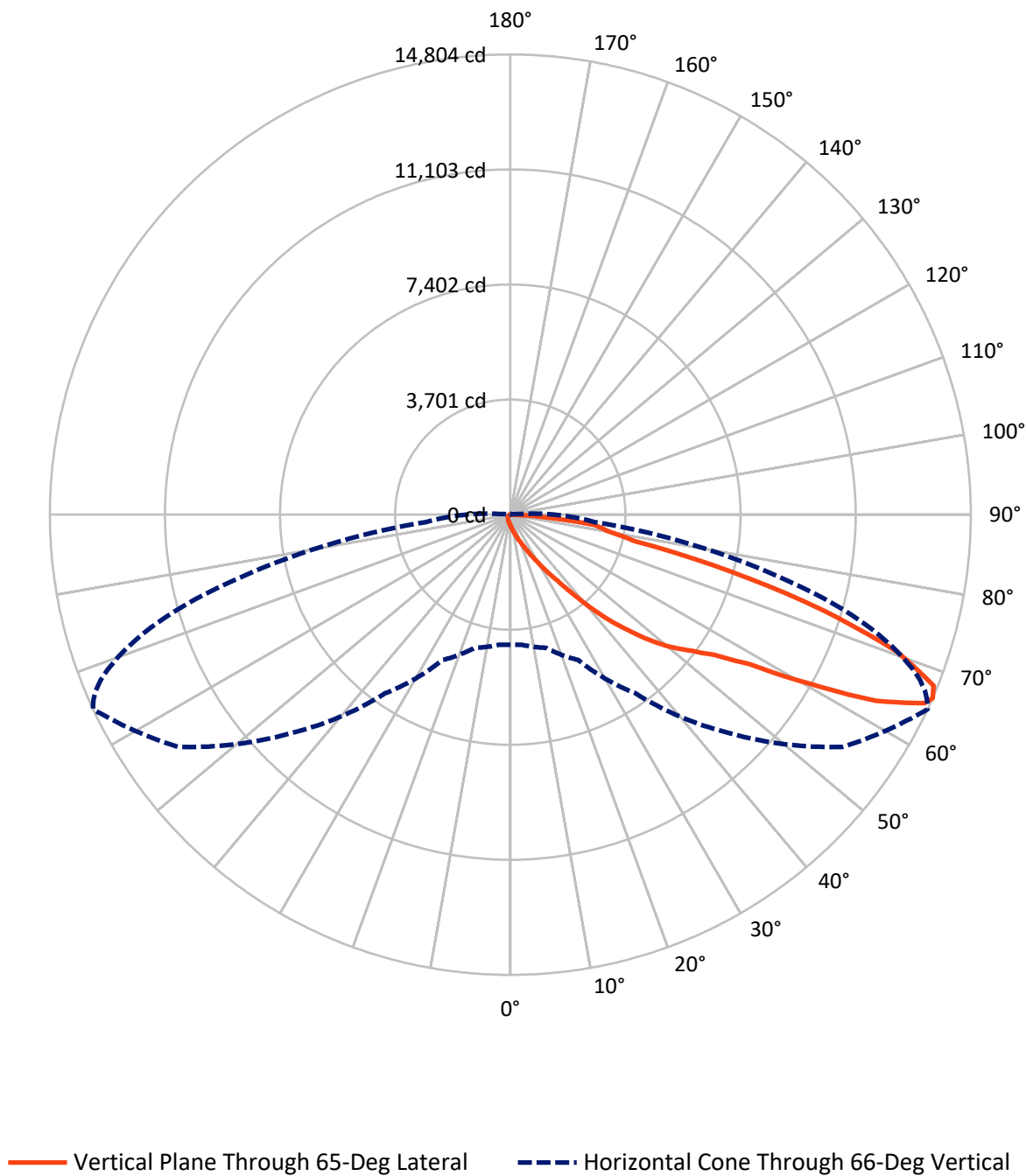


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	250.6	0.0	250.6
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	11316.1	0.0	11316.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	11566.7	0.0	11566.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	0.3
10°-20°	165.7	1.4
20°-30°	357.4	3.1
30°-40°	763.3	6.6
40°-50°	1688.0	14.6
50°-60°	2860.7	24.7
60°-70°	3817.3	33.0
70°-80°	1681.5	14.5
80°-90°	193.7	1.7
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°	11566.7	100.0
0°-180°	11566.7	100.0

Coefficient of Utilization



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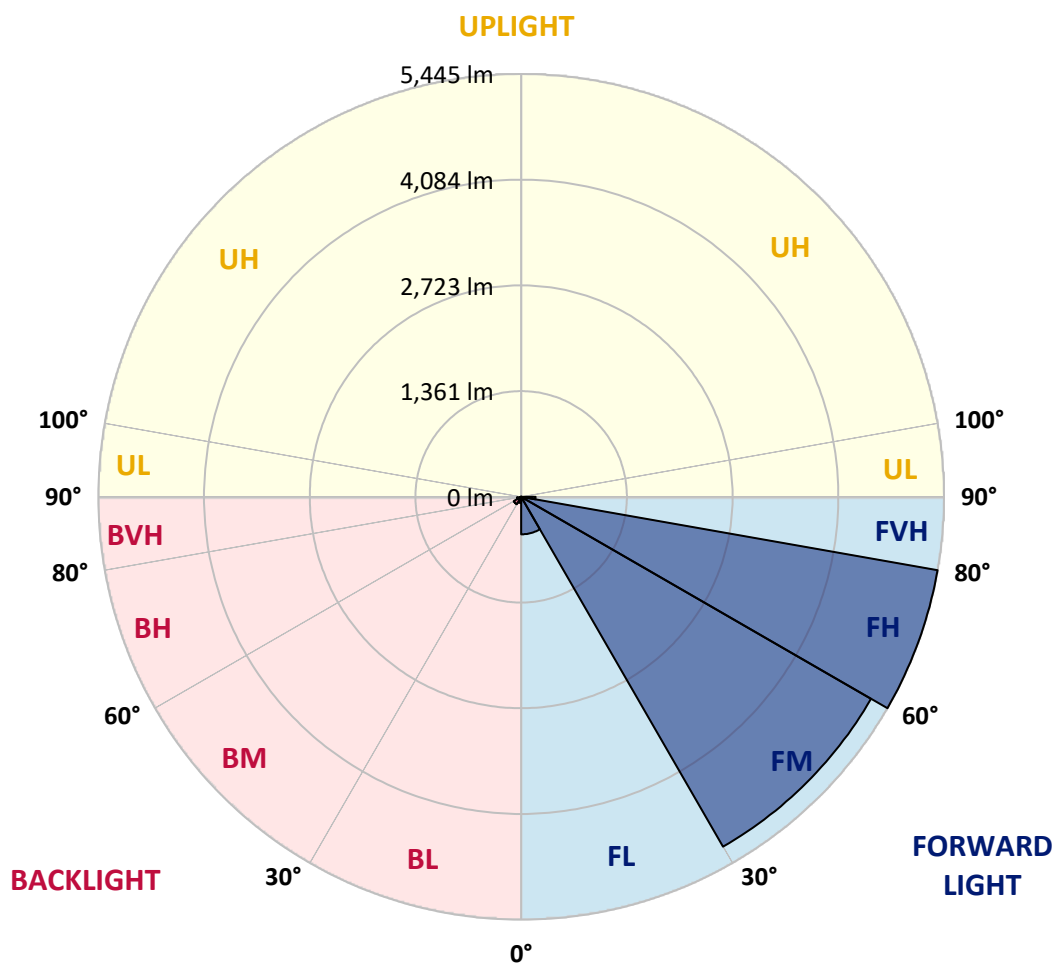
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.1	4.2			
FM	(30°-60°)	5201.9	45.0			
FH	(60°-80°)	5445.0	47.1			G3/7500
FVH	(80°-90°)	186.0	1.6			G2/225
BL	(0°-30°)	79.1	0.7	B0/110		
BM	(30°-60°)	110.1	1.0	B0/220		
BH	(60°-80°)	53.8	0.5	B0/110		G0/110
BVH	(80°-90°)	7.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1
2.5°	440.4	438.1	429.2	429.2	415.8	407.0	395.8	384.7	384.7	382.4	380.3
5°	582.6	569.3	567.0	542.6	522.6	493.7	467.0	431.4	427.0	422.5	420.2
7.5°	740.6	738.3	718.3	689.4	649.4	595.9	542.6	484.8	475.9	471.4	462.5
10°	945.1	933.9	907.3	858.3	798.3	727.2	640.5	549.2	538.1	529.2	524.8
12.5°	1140.8	1120.8	1105.2	1042.9	967.3	862.8	758.2	627.1	618.2	607.1	589.3
15°	1323.1	1305.3	1278.7	1225.3	1140.8	1009.5	887.3	727.2	704.9	689.4	676.0
17.5°	1465.4	1454.4	1423.2	1363.2	1271.9	1156.3	1009.5	829.4	811.7	791.6	767.2
20°	1601.2	1585.5	1536.6	1454.4	1356.5	1267.5	1154.2	962.8	938.4	913.9	887.3
22.5°	1730.1	1714.4	1634.5	1498.8	1394.3	1356.5	1316.5	1114.1	1076.3	1056.3	1029.5
25°	1910.3	1876.9	1752.3	1536.6	1396.6	1425.5	1494.3	1309.7	1274.2	1245.3	1203.1
27.5°	2152.6	2108.1	1912.4	1592.2	1405.3	1501.1	1698.9	1547.7	1509.9	1476.5	1429.9
30°	2426.1	2397.2	2163.7	1725.7	1469.9	1612.2	1927.9	1850.2	1805.7	1765.6	1710.1
32.5°	2701.9	2661.9	2430.6	1979.1	1643.3	1827.9	2214.9	2201.5	2143.7	2105.9	2045.8
35°	2944.2	2924.3	2753.0	2394.9	2039.2	2206.0	2597.3	2612.9	2561.8	2521.7	2455.0
37.5°	3108.9	3108.9	3075.5	2841.9	2668.5	2793.0	3159.9	3162.2	3111.0	3019.9	2986.5
40°	3193.3	3217.7	3337.9	3382.3	3373.4	3533.6	3898.3	3858.2	3815.9	3769.2	3658.1
42.5°	3366.8	3388.9	3644.7	3951.6	4151.8	4363.0	4614.3	4600.9	4549.9	4465.3	4363.0
45°	3660.4	3689.3	3993.9	4480.8	4892.2	5192.5	5352.5	5290.3	5239.1	5159.1	5105.7
47.5°	4033.9	4089.5	4434.1	5036.8	5532.7	6028.5	6195.3	6030.8	5986.4	5924.0	5837.3
50°	4432.0	4485.3	4852.2	5541.6	6102.0	6693.5	6971.5	6693.5	6629.0	6608.9	6511.2
52.5°	4776.6	4821.1	5174.7	5930.8	6537.8	7231.6	7636.3	7269.4	7222.7	7156.0	7084.8
55°	4981.2	5016.8	5348.1	6117.5	6833.6	7716.4	8279.1	7956.6	7887.6	7861.0	7758.6
57.5°	5050.2	5085.7	5383.7	6142.0	6993.6	8158.9	9059.6	9070.7	8988.4	8892.8	8861.6
60°	5050.2	5090.1	5341.4	6082.0	7149.3	8630.3	10100.2	11027.5	10849.7	10831.8	10718.4
62.5°	4841.1	4878.9	5132.4	5897.4	7358.4	9266.3	11550.1	13186.8	13135.7	13020.0	12833.3
65°	4387.4	4409.7	4658.7	5426.0	7278.3	9851.2	12806.5	14623.3	14541.1	14314.2	14074.1
66°	4182.8	4200.6	4434.1	5156.9	7015.9	9931.3	13028.9	14803.5	14667.9	14476.5	14205.2
67.5°	3887.1	3918.3	4082.8	4656.5	6386.6	9653.2	12888.9	14676.8	14558.9	14327.6	14056.3
70°	2595.2	2572.9	3153.3	3573.5	4865.6	7865.5	11563.5	13177.9	13180.2	13071.2	12962.2
72.5°	1232.0	1245.3	1414.3	2199.2	3184.3	5254.8	9204.1	10518.3	10669.5	10473.9	10338.1
75°	885.0	905.0	1007.4	1345.4	1899.0	3153.3	5966.3	7356.1	7360.5	7013.6	6704.7
77.5°	257.9	269.1	378.0	829.4	1423.2	2128.1	3426.7	4089.5	3993.9	3744.8	3511.3
80°	106.7	106.7	111.1	264.7	571.5	1445.5	2397.2	3148.8	3137.8	3042.1	2904.3
82.5°	40.0	42.3	53.3	109.0	135.7	355.8	1598.9	2733.0	2726.3	2590.7	2492.8
85°	4.5	4.5	13.4	46.7	51.2	66.7	320.2	1205.2	1198.6	1205.2	1056.3
87.5°	0.0	0.0	2.2	4.5	6.6	8.9	13.4	46.7	51.2	48.9	44.4
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1
2.5°	380.3	375.8	375.8	373.7	373.7	373.7	371.4	369.2	369.2	366.9	364.7
5°	415.8	411.3	409.2	404.7	402.5	400.3	395.8	393.6	389.2	386.9	384.7
7.5°	458.1	449.1	447.0	440.4	433.6	429.2	424.7	418.1	413.6	404.7	402.5
10°	511.5	500.3	491.4	482.5	475.9	464.8	458.1	449.1	440.4	433.6	427.0
12.5°	580.4	564.9	551.5	542.6	527.1	513.7	500.3	493.7	475.9	467.0	455.9
15°	656.0	638.2	622.7	604.8	593.8	571.5	553.7	533.7	524.8	509.2	491.4
17.5°	753.8	724.9	700.4	682.8	660.5	638.2	618.2	598.2	571.5	553.7	531.5
20°	858.3	833.9	800.5	769.4	742.7	716.1	687.1	660.5	636.0	607.1	580.4
22.5°	991.9	956.2	916.2	885.0	849.5	820.6	780.5	745.0	704.9	667.1	636.0
25°	1160.8	1114.1	1076.3	1031.8	989.6	945.1	896.1	851.7	800.5	765.0	711.7
27.5°	1369.8	1325.4	1274.2	1216.4	1174.2	1107.5	1042.9	987.4	927.3	871.7	811.7
30°	1636.7	1572.3	1518.8	1463.3	1378.7	1314.2	1238.6	1163.1	1080.7	1025.2	933.9
32.5°	1956.8	1888.0	1807.9	1727.8	1650.0	1558.9	1465.4	1372.0	1280.8	1178.6	1085.2
35°	2348.3	2265.9	2174.8	2088.1	1968.1	1870.1	1752.3	1623.3	1521.1	1403.2	1285.3
37.5°	2866.5	2730.7	2650.7	2559.5	2397.2	2263.8	2132.5	2003.6	1823.4	1698.9	1532.1
40°	3515.7	3435.7	3304.5	3157.7	3011.0	2835.3	2657.4	2486.2	2277.2	2103.6	1910.3
42.5°	4278.4	4160.7	4027.3	3815.9	3667.0	3460.1	3257.8	3030.9	2775.2	2552.9	2326.0
45°	4994.5	4854.5	4752.1	4540.9	4385.2	4140.6	3896.0	3655.9	3360.0	3073.2	2810.8
47.5°	5768.4	5652.7	5483.8	5312.6	5154.7	4878.9	4614.3	4323.0	4011.6	3671.4	3331.1
50°	6448.9	6357.7	6242.0	6035.3	5859.6	5628.3	5317.0	4999.0	4605.4	4267.4	3880.5
52.5°	7027.0	6955.8	6793.5	6646.7	6488.9	6270.9	5993.0	5688.4	5263.7	4892.2	4452.0
55°	7709.8	7658.6	7516.2	7425.1	7285.1	7076.0	6815.8	6533.4	6084.2	5679.5	5181.3
57.5°	8828.3	8788.3	8663.7	8625.9	8488.0	8305.7	7985.5	7683.0	7158.3	6655.6	6086.5
60°	10680.6	10600.7	10418.2	10324.9	10033.5	9788.9	9373.2	8957.2	8323.5	7683.0	6998.1
62.5°	12664.2	12439.6	12092.7	11794.8	11381.2	10956.4	10400.4	9764.5	9021.8	8261.3	7474.0
65°	13733.8	13351.4	12913.3	12439.6	11903.8	11278.8	10578.4	9815.7	9017.3	8214.5	7382.8
66°	13856.2	13424.7	12960.1	12433.0	11837.1	11172.1	10460.5	9660.0	8830.4	8047.8	7216.1
67.5°	13702.8	13251.3	12759.9	12175.1	11530.1	10840.8	10093.6	9261.9	8463.5	7669.6	6860.2
70°	12628.7	12179.4	11741.3	11125.4	10438.2	9744.5	9037.3	8107.8	7351.8	6622.3	5901.9
72.5°	10084.7	9780.0	9346.4	8819.4	8150.0	7336.1	6746.8	5915.2	5259.2	4552.0	3993.9
75°	6302.1	5873.0	5337.0	4665.4	4153.9	3493.4	3148.8	2517.3	2143.7	1816.8	1501.1
77.5°	3222.2	2899.8	2524.0	2145.9	1783.5	1423.2	1100.7	778.4	524.8	364.7	271.3
80°	2661.9	2377.2	2065.8	1721.2	1401.0	1087.5	782.8	533.7	340.3	222.4	173.4
82.5°	2199.2	1959.1	1681.1	1360.9	1083.0	854.0	593.8	386.9	240.1	155.7	122.3
85°	936.2	849.5	656.0	520.3	391.3	289.1	202.4	135.7	95.6	77.8	71.2
87.5°	40.0	44.4	42.3	33.4	24.4	24.4	22.3	17.8	17.8	17.8	17.8
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1	349.1
2.5°	364.7	362.4	360.3	360.3	358.0	355.8	342.5	331.4	318.0	309.1	300.2
5°	380.3	378.0	373.7	371.4	366.9	364.7	335.8	311.3	291.3	275.7	264.7
7.5°	395.8	393.6	386.9	380.3	378.0	373.7	326.9	295.7	269.1	251.3	240.1
10°	415.8	409.2	402.5	393.6	386.9	380.3	318.0	277.9	249.0	233.5	222.4
12.5°	444.7	433.6	422.5	411.3	402.5	391.3	313.6	262.4	233.5	215.7	204.6
15°	478.2	462.5	449.1	435.9	420.2	409.2	304.6	249.0	220.1	202.4	189.1
17.5°	509.2	491.4	471.4	451.4	435.9	420.2	295.7	235.8	206.7	189.1	175.7
20°	553.7	527.1	502.6	478.2	455.9	435.9	282.4	222.4	195.7	175.7	162.3
22.5°	602.7	571.5	540.4	507.1	478.2	451.4	271.3	211.2	184.6	164.6	148.9
25°	664.9	627.1	584.9	542.6	509.2	473.7	260.2	200.1	173.4	153.4	137.9
27.5°	751.6	698.3	651.6	598.2	547.0	507.1	251.3	191.2	162.3	142.3	126.8
30°	869.5	791.6	718.3	660.5	600.4	542.6	242.4	180.1	153.4	131.3	113.4
32.5°	1000.6	909.5	825.0	738.3	662.6	595.9	233.5	171.2	142.3	120.0	104.5
35°	1163.1	1047.4	933.9	833.9	742.7	653.7	224.6	162.3	133.4	109.0	93.4
37.5°	1396.6	1251.9	1103.0	974.0	856.1	738.3	218.0	153.4	122.3	97.9	82.2
40°	1716.7	1530.0	1347.5	1171.9	1018.5	871.7	209.0	144.5	113.4	89.0	73.3
42.5°	2063.7	1836.8	1596.7	1398.7	1187.5	1002.9	200.1	135.7	104.5	80.1	64.5
45°	2495.1	2212.6	1921.3	1652.2	1394.3	1156.3	191.2	126.8	93.4	71.2	55.6
47.5°	2966.5	2606.2	2277.2	1939.2	1632.2	1347.5	180.1	120.0	84.5	62.3	48.9
50°	3451.3	3071.0	2655.1	2270.4	1905.8	1538.9	169.1	109.0	75.6	55.6	40.0
52.5°	3973.8	3524.6	3099.9	2621.8	2197.1	1790.1	157.9	100.1	68.9	48.9	33.4
55°	4638.7	4136.2	3638.1	3102.1	2590.7	2081.5	146.8	89.0	60.1	42.3	26.7
57.5°	5474.9	4878.9	4267.4	3662.5	3042.1	2463.9	137.9	77.8	51.2	35.5	22.3
60°	6264.3	5568.3	4827.8	4131.8	3431.2	2757.5	124.5	68.9	44.4	28.9	22.3
62.5°	6673.5	5879.6	5081.2	4314.1	3566.9	2862.0	111.1	57.8	37.8	24.4	20.0
65°	6573.4	5764.0	4990.1	4216.2	3484.7	2795.3	97.9	51.2	33.4	22.3	20.0
66°	6428.9	5628.3	4850.0	4113.9	3415.7	2724.1	91.2	48.9	31.2	22.3	17.8
67.5°	6113.1	5339.2	4596.4	3911.5	3226.6	2588.4	82.2	44.4	28.9	20.0	17.8
70°	5221.4	4518.7	3924.9	3315.6	2757.5	2181.5	66.7	37.8	24.4	17.8	17.8
72.5°	3455.6	2977.6	2581.8	2221.5	1856.8	1441.0	55.6	31.2	20.0	17.8	15.5
75°	1303.1	1178.6	1011.8	909.5	793.9	696.0	44.4	20.0	15.5	15.5	15.5
77.5°	231.3	213.5	189.1	173.4	160.2	146.8	35.5	13.4	13.4	15.5	15.5
80°	155.7	144.5	131.3	120.0	111.1	100.1	24.4	11.1	13.4	13.4	15.5
82.5°	111.1	104.5	97.9	89.0	82.2	73.3	15.5	11.1	13.4	13.4	13.4
85°	66.7	62.3	57.8	53.3	46.7	44.4	11.1	11.1	11.1	13.4	13.4
87.5°	17.8	15.5	17.8	17.8	13.4	15.5	8.9	8.9	8.9	11.1	11.1
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):

	145°	155°	165°	175°	180°
0°	349.1	349.1	349.1	349.1	349.1
2.5°	295.7	295.7	291.3	298.0	298.0
5°	255.8	255.8	253.5	255.8	255.8
7.5°	233.5	231.3	231.3	231.3	233.5
10°	213.5	211.2	211.2	211.2	211.2
12.5°	195.7	193.5	191.2	193.5	193.5
15°	180.1	175.7	175.7	175.7	175.7
17.5°	166.8	162.3	160.2	160.2	160.2
20°	153.4	146.8	146.8	146.8	146.8
22.5°	140.0	133.4	133.4	133.4	133.4
25°	126.8	120.0	120.0	120.0	120.0
27.5°	115.6	109.0	109.0	109.0	109.0
30°	102.4	97.9	97.9	100.1	97.9
32.5°	93.4	86.7	86.7	89.0	89.0
35°	82.2	77.8	77.8	77.8	77.8
37.5°	71.2	66.7	66.7	66.7	66.7
40°	62.3	57.8	55.6	57.8	57.8
42.5°	53.3	48.9	46.7	46.7	46.7
45°	46.7	40.0	37.8	40.0	40.0
47.5°	37.8	33.4	33.4	35.5	35.5
50°	28.9	28.9	31.2	35.5	35.5
52.5°	26.7	26.7	31.2	35.5	35.5
55°	24.4	26.7	31.2	33.4	35.5
57.5°	22.3	26.7	31.2	33.4	33.4
60°	22.3	24.4	28.9	33.4	33.4
62.5°	20.0	22.3	26.7	31.2	31.2
65°	20.0	22.3	26.7	31.2	31.2
66°	20.0	22.3	26.7	31.2	31.2
67.5°	20.0	22.3	26.7	31.2	31.2
70°	20.0	22.3	26.7	28.9	28.9
72.5°	17.8	20.0	24.4	28.9	28.9
75°	17.8	20.0	24.4	28.9	28.9
77.5°	17.8	20.0	24.4	28.9	28.9
80°	17.8	20.0	24.4	26.7	28.9
82.5°	15.5	20.0	22.3	26.7	26.7
85°	15.5	17.8	22.3	24.4	26.7
87.5°	13.4	15.5	17.8	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)