

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: P165288

Luminaire Tested: **VST-E07-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165288
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-E07-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (147) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12304.7 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G3

Input Watts (W): 172.5
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



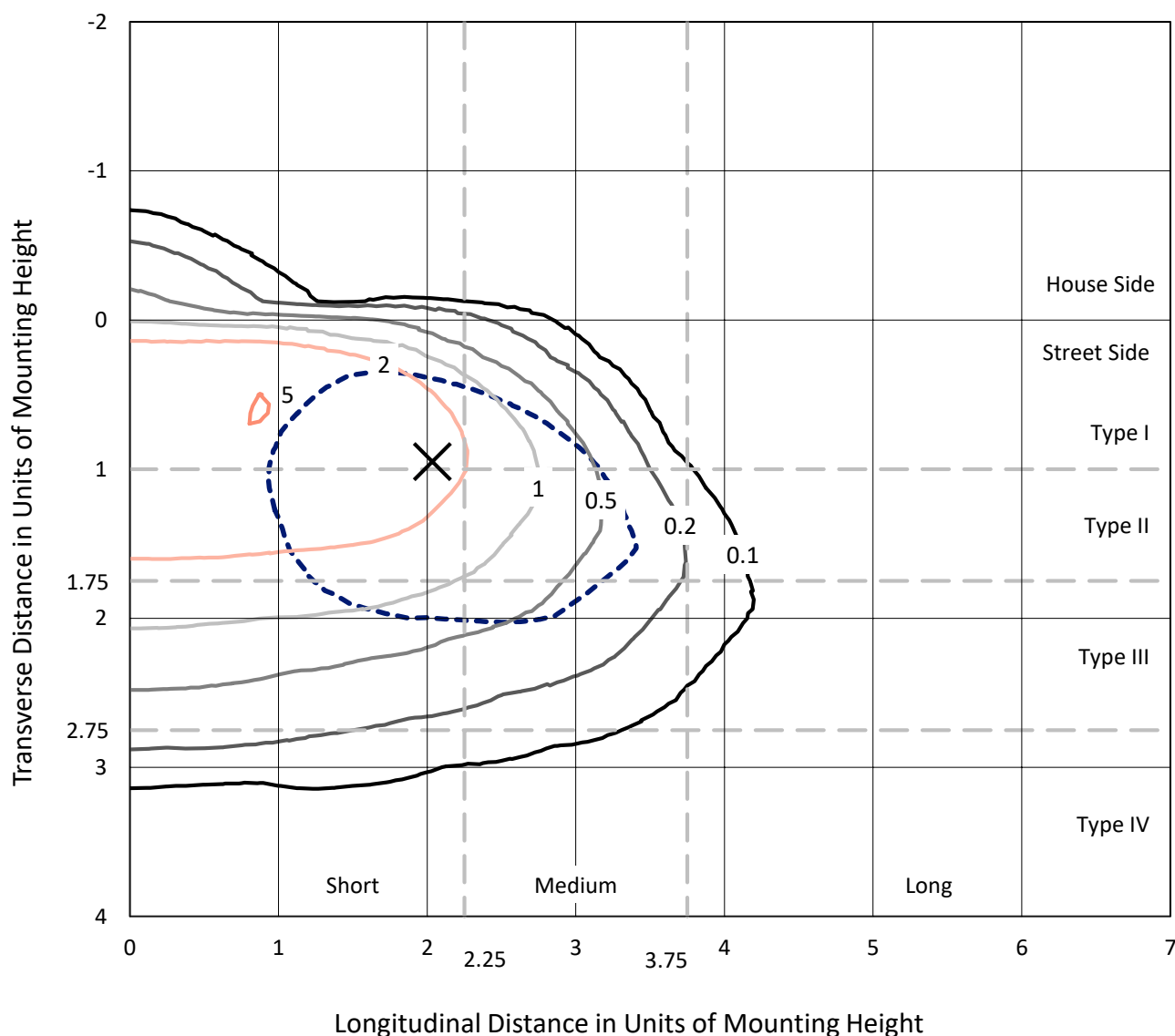
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

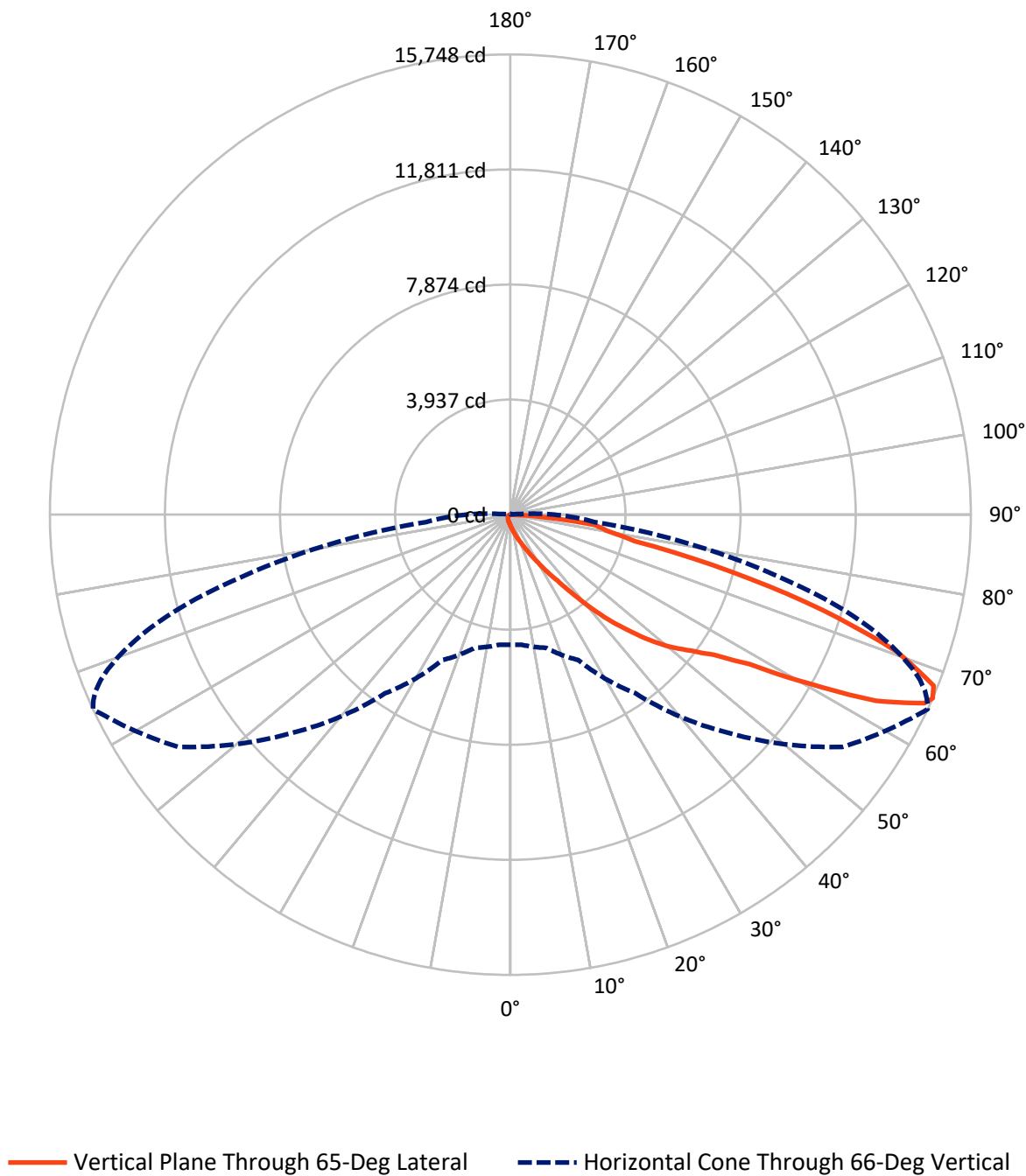


Based on 20 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.7	0.0	266.7
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	12038.1	0.0	12038.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	12304.7	0.0	12304.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.6	0.3
10°-20°	176.3	1.4
20°-30°	380.2	3.1
30°-40°	812.0	6.6
40°-50°	1795.7	14.6
50°-60°	3043.2	24.7
60°-70°	4060.9	33.0
70°-80°	1788.8	14.5
80°-90°	206.0	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°	12304.7	100.0
0°-180°	12304.7	100.0

Coefficient of Utilization



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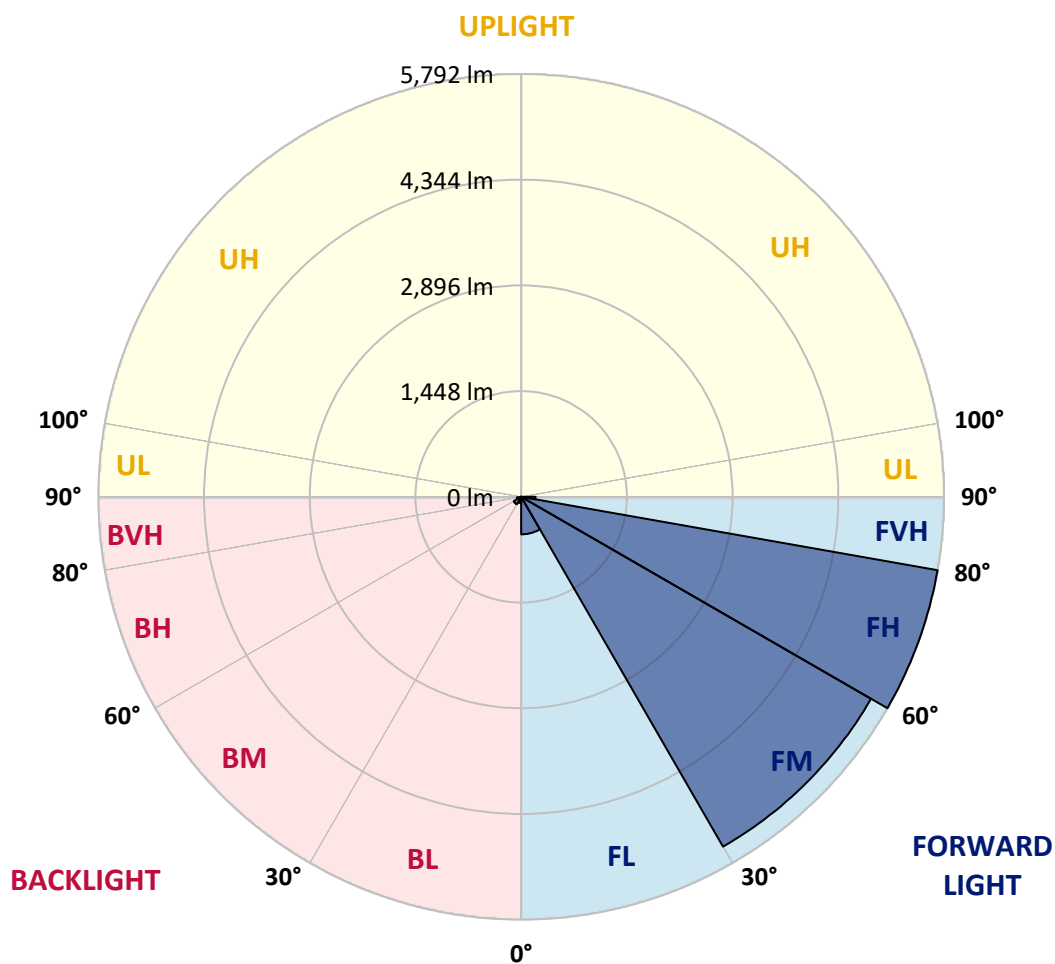
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.0	4.2			
FM	(30°-60°)	5533.8	45.0			
FH	(60°-80°)	5792.5	47.1			G3/7500
FVH	(80°-90°)	197.8	1.6			G2/225
BL	(0°-30°)	84.1	0.7	B0/110		
BM	(30°-60°)	117.1	1.0	B0/220		
BH	(60°-80°)	57.2	0.5	B0/110		G0/110
BVH	(80°-90°)	8.2	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°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	468.5	466.0	456.5	456.5	442.3	433.0	421.1	409.3	409.3	406.8	404.5
5°	619.7	605.6	603.2	577.2	555.9	525.2	496.8	459.0	454.2	449.5	447.1
7.5°	787.8	785.4	764.1	733.4	690.8	633.9	577.2	515.7	506.2	501.5	492.0
10°	1005.4	993.5	965.2	913.1	849.3	773.6	681.4	584.2	572.5	563.0	558.2
12.5°	1213.6	1192.3	1175.7	1109.4	1029.0	917.8	806.6	667.1	657.7	645.9	626.9
15°	1407.5	1388.6	1360.3	1303.5	1213.6	1074.0	944.0	773.6	749.9	733.4	719.1
17.5°	1558.9	1547.2	1514.0	1450.2	1353.1	1230.1	1074.0	882.3	863.5	842.1	816.1
20°	1703.3	1686.7	1634.6	1547.2	1443.0	1348.3	1227.8	1024.3	998.3	972.3	944.0
22.5°	1840.5	1823.8	1738.8	1594.4	1483.2	1443.0	1400.5	1185.2	1144.9	1123.7	1095.2
25°	2032.1	1996.7	1864.1	1634.6	1485.7	1516.4	1589.7	1393.3	1355.5	1324.8	1279.8
27.5°	2290.0	2242.6	2034.4	1693.8	1495.0	1596.9	1807.3	1646.4	1606.2	1570.7	1521.2
30°	2580.9	2550.2	2301.8	1835.8	1563.7	1715.1	2051.0	1968.2	1921.0	1878.3	1819.2
32.5°	2874.2	2831.7	2585.6	2105.4	1748.1	1944.5	2356.2	2342.0	2280.5	2240.3	2176.4
35°	3132.1	3110.8	2928.7	2547.7	2169.3	2346.7	2763.1	2779.6	2725.3	2682.6	2611.6
37.5°	3307.2	3307.2	3271.7	3023.2	2838.8	2971.2	3361.5	3364.0	3309.5	3212.6	3177.1
40°	3397.0	3423.0	3550.9	3598.1	3588.6	3759.0	4147.0	4104.4	4059.4	4009.7	3891.5
42.5°	3581.6	3605.2	3877.2	4203.8	4416.7	4641.3	4908.7	4894.5	4840.2	4750.2	4641.3
45°	3893.9	3924.6	4248.7	4766.8	5204.3	5523.8	5694.0	5627.8	5573.4	5488.3	5431.4
47.5°	4291.3	4350.4	4717.0	5358.2	5885.7	6413.2	6590.6	6415.6	6368.4	6302.0	6209.8
50°	4714.7	4771.5	5161.8	5895.2	6491.3	7120.5	7416.3	7120.5	7052.0	7030.6	6926.6
52.5°	5081.4	5128.8	5504.9	6309.2	6954.9	7693.0	8123.5	7733.2	7683.5	7612.6	7536.8
55°	5299.0	5336.9	5689.3	6507.8	7269.6	8208.7	8807.3	8464.3	8390.9	8362.6	8253.7
57.5°	5372.4	5410.2	5727.2	6533.8	7439.9	8679.5	9637.7	9649.4	9561.9	9460.2	9427.1
60°	5372.4	5414.9	5682.3	6470.1	7605.5	9181.0	10744.7	11731.1	11541.9	11523.0	11402.3
62.5°	5150.0	5190.2	5459.9	6273.7	7827.9	9857.6	12287.1	14028.2	13973.9	13850.8	13652.1
65°	4667.3	4691.0	4955.9	5772.2	7742.7	10479.8	13623.6	15556.4	15468.9	15227.5	14972.1
66°	4449.7	4468.7	4717.0	5485.9	7463.6	10564.9	13860.2	15748.0	15603.8	15400.2	15111.6
67.5°	4135.1	4168.3	4343.3	4953.6	6794.2	10269.2	13711.3	15613.3	15487.9	15241.8	14953.2
70°	2760.8	2737.1	3354.5	3801.5	5176.0	8367.3	12301.3	14018.7	14021.1	13905.2	13789.3
72.5°	1310.6	1324.8	1504.5	2339.6	3387.5	5590.0	9791.4	11189.4	11350.3	11142.2	10997.8
75°	941.5	962.8	1071.7	1431.2	2020.2	3354.5	6347.0	7825.4	7830.2	7461.1	7132.5
77.5°	274.4	286.3	402.1	882.3	1514.0	2263.9	3645.4	4350.4	4248.7	3983.7	3735.3
80°	113.5	113.5	118.2	281.6	607.9	1537.7	2550.2	3349.7	3338.0	3236.3	3089.6
82.5°	42.5	45.0	56.7	115.9	144.4	378.5	1700.9	2907.4	2900.2	2756.0	2651.9
85°	4.7	4.7	14.2	49.7	54.4	71.0	340.6	1282.1	1275.1	1282.1	1123.7
87.5°	0.0	0.0	2.3	4.7	7.0	9.5	14.2	49.7	54.4	52.0	47.3
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	404.5	399.8	399.8	397.5	397.5	397.5	395.1	392.8	392.8	390.3	388.0
5°	442.3	437.6	435.3	430.5	428.2	425.8	421.1	418.8	414.0	411.6	409.3
7.5°	487.3	477.8	475.5	468.5	461.3	456.5	451.8	444.8	440.0	430.5	428.2
10°	544.2	532.2	522.8	513.3	506.2	494.5	487.3	477.8	468.5	461.3	454.2
12.5°	617.4	600.9	586.7	577.2	560.7	546.5	532.2	525.2	506.2	496.8	485.0
15°	697.9	678.9	662.4	643.4	631.6	607.9	589.0	567.7	558.2	541.7	522.8
17.5°	801.9	771.1	745.1	726.3	702.6	678.9	657.7	636.4	607.9	589.0	565.4
20°	913.1	887.1	851.6	818.5	790.1	761.8	730.9	702.6	676.6	645.9	617.4
22.5°	1055.1	1017.2	974.7	941.5	903.7	873.0	830.3	792.5	749.9	709.7	676.6
25°	1234.9	1185.2	1144.9	1097.7	1052.7	1005.4	953.3	906.0	851.6	813.8	757.1
27.5°	1457.2	1410.0	1355.5	1294.0	1249.1	1178.1	1109.4	1050.4	986.5	927.3	863.5
30°	1741.1	1672.6	1615.7	1556.6	1466.7	1398.0	1317.6	1237.3	1149.7	1090.6	993.5
32.5°	2081.7	2008.4	1923.2	1838.1	1755.3	1658.4	1558.9	1459.5	1362.6	1253.8	1154.4
35°	2498.2	2410.5	2313.6	2221.3	2093.6	1989.5	1864.1	1726.9	1618.1	1492.7	1367.3
37.5°	3049.4	2905.0	2819.8	2722.8	2550.2	2408.2	2268.6	2131.4	1939.8	1807.3	1629.9
40°	3740.1	3654.9	3515.4	3359.2	3203.1	3016.2	2827.0	2644.8	2422.5	2237.9	2032.1
42.5°	4551.4	4426.1	4284.2	4059.4	3900.9	3680.9	3465.7	3224.3	2952.2	2715.8	2474.5
45°	5313.2	5164.2	5055.4	4830.7	4665.0	4404.7	4144.6	3889.2	3574.4	3269.3	2990.2
47.5°	6136.5	6013.4	5833.7	5651.5	5483.6	5190.2	4908.7	4598.8	4267.6	3905.7	3543.7
50°	6860.4	6763.4	6640.3	6420.4	6233.5	5987.4	5656.3	5318.0	4899.2	4539.6	4128.1
52.5°	7475.4	7399.7	7227.0	7070.8	6902.9	6671.0	6375.4	6051.3	5599.5	5204.3	4736.0
55°	8201.7	8147.2	7995.8	7898.9	7749.9	7527.5	7250.7	6950.3	6472.4	6041.8	5511.9
57.5°	9391.6	9349.1	9216.5	9176.2	9029.6	8835.6	8495.0	8173.2	7615.0	7080.3	6474.8
60°	11362.1	11277.0	11083.0	10983.7	10673.7	10413.5	9971.2	9528.8	8854.6	8173.2	7444.6
62.5°	13472.2	13233.3	12864.3	12547.4	12107.4	11655.4	11064.0	10387.5	9597.4	8788.4	7950.9
65°	14610.1	14203.3	13737.3	13233.3	12663.3	11998.5	11253.3	10442.0	9592.7	8738.7	7853.9
66°	14740.3	14281.3	13787.0	13226.3	12592.3	11885.0	11127.9	10276.3	9393.9	8561.2	7676.5
67.5°	14577.1	14096.8	13574.1	12951.9	12265.8	11532.5	10737.6	9852.8	9003.6	8159.0	7297.9
70°	13434.4	12956.5	12490.5	11835.3	11104.2	10366.3	9614.0	8625.2	7820.9	7044.8	6278.4
72.5°	10728.1	10404.1	9942.8	9382.1	8670.0	7804.2	7177.3	6292.7	5594.8	4842.5	4248.7
75°	6704.2	6247.7	5677.5	4963.1	4419.0	3716.3	3349.7	2677.9	2280.5	1932.7	1596.9
77.5°	3427.7	3084.8	2685.1	2282.8	1897.2	1514.0	1170.9	828.0	558.2	388.0	288.6
80°	2831.7	2528.9	2197.6	1831.0	1490.4	1156.9	832.8	567.7	362.0	236.6	184.5
82.5°	2339.6	2084.1	1788.4	1447.8	1152.1	908.5	631.6	411.6	255.4	165.6	130.2
85°	996.0	903.7	697.9	553.5	416.3	307.6	215.3	144.4	101.7	82.7	75.7
87.5°	42.5	47.3	45.0	35.5	26.0	26.0	23.7	19.0	19.0	19.0	19.0
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3	371.3
2.5°	388.0	385.6	383.3	383.3	380.8	378.5	364.3	352.5	338.3	328.8	319.3
5°	404.5	402.1	397.5	395.1	390.3	388.0	357.3	331.1	309.9	293.3	281.6
7.5°	421.1	418.8	411.6	404.5	402.1	397.5	347.8	314.6	286.3	267.3	255.4
10°	442.3	435.3	428.2	418.8	411.6	404.5	338.3	295.6	264.9	248.4	236.6
12.5°	473.1	461.3	449.5	437.6	428.2	416.3	333.6	279.1	248.4	229.4	217.6
15°	508.7	492.0	477.8	463.7	447.1	435.3	324.1	264.9	234.2	215.3	201.1
17.5°	541.7	522.8	501.5	480.2	463.7	447.1	314.6	250.8	219.9	201.1	186.9
20°	589.0	560.7	534.7	508.7	485.0	463.7	300.4	236.6	208.2	186.9	172.7
22.5°	641.1	607.9	574.9	539.4	508.7	480.2	288.6	224.7	196.4	175.1	158.5
25°	707.4	667.1	622.2	577.2	541.7	503.9	276.8	212.9	184.5	163.2	146.7
27.5°	799.6	742.8	693.1	636.4	581.9	539.4	267.3	203.4	172.7	151.4	134.9
30°	925.0	842.1	764.1	702.6	638.7	577.2	257.9	191.6	163.2	139.6	120.7
32.5°	1064.5	967.5	877.6	785.4	704.9	633.9	248.4	182.2	151.4	127.7	111.2
35°	1237.3	1114.2	993.5	887.1	790.1	695.4	238.9	172.7	141.9	115.9	99.4
37.5°	1485.7	1331.8	1173.4	1036.2	910.8	785.4	231.9	163.2	130.2	104.1	87.5
40°	1826.3	1627.6	1433.5	1246.6	1083.4	927.3	222.4	153.7	120.7	94.7	78.0
42.5°	2195.3	1954.0	1698.6	1488.0	1263.3	1066.9	212.9	144.4	111.2	85.2	68.7
45°	2654.3	2353.8	2043.9	1757.6	1483.2	1230.1	203.4	134.9	99.4	75.7	59.2
47.5°	3155.8	2772.5	2422.5	2062.9	1736.4	1433.5	191.6	127.7	89.9	66.2	52.0
50°	3671.5	3267.0	2824.5	2415.3	2027.4	1637.1	179.9	115.9	80.4	59.2	42.5
52.5°	4227.3	3749.5	3297.7	2789.1	2337.3	1904.3	167.9	106.4	73.3	52.0	35.5
55°	4934.7	4400.1	3870.2	3300.0	2756.0	2214.3	156.2	94.7	63.9	45.0	28.4
57.5°	5824.2	5190.2	4539.6	3896.2	3236.3	2621.1	146.7	82.7	54.4	37.8	23.7
60°	6664.0	5923.6	5135.8	4395.4	3650.1	2933.4	132.4	73.3	47.3	30.7	23.7
62.5°	7099.3	6254.7	5405.4	4589.3	3794.5	3044.6	118.2	61.5	40.2	26.0	21.3
65°	6992.8	6131.8	5308.5	4485.2	3707.0	2973.7	104.1	54.4	35.5	23.7	21.3
66°	6839.1	5987.4	5159.5	4376.4	3633.6	2897.9	97.0	52.0	33.2	23.7	19.0
67.5°	6503.1	5679.8	4889.7	4161.1	3432.5	2753.6	87.5	47.3	30.7	21.3	19.0
70°	5554.6	4807.0	4175.3	3527.2	2933.4	2320.7	71.0	40.2	26.0	19.0	19.0
72.5°	3676.1	3167.6	2746.5	2363.3	1975.3	1532.9	59.2	33.2	21.3	19.0	16.5
75°	1386.3	1253.8	1076.4	967.5	844.5	740.4	47.3	21.3	16.5	16.5	16.5
77.5°	246.1	227.1	201.1	184.5	170.4	156.2	37.8	14.2	14.2	16.5	16.5
80°	165.6	153.7	139.6	127.7	118.2	106.4	26.0	11.8	14.2	14.2	16.5
82.5°	118.2	111.2	104.1	94.7	87.5	78.0	16.5	11.8	14.2	14.2	14.2
85°	71.0	66.2	61.5	56.7	49.7	47.3	11.8	11.8	11.8	14.2	14.2
87.5°	19.0	16.5	19.0	19.0	14.2	16.5	9.5	9.5	9.5	11.8	11.8
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):

	145°	155°	165°	175°	180°
0°	371.3	371.3	371.3	371.3	371.3
2.5°	314.6	314.6	309.9	317.0	317.0
5°	272.1	272.1	269.6	272.1	272.1
7.5°	248.4	246.1	246.1	246.1	248.4
10°	227.1	224.7	224.7	224.7	224.7
12.5°	208.2	205.9	203.4	205.9	205.9
15°	191.6	186.9	186.9	186.9	186.9
17.5°	177.4	172.7	170.4	170.4	170.4
20°	163.2	156.2	156.2	156.2	156.2
22.5°	149.0	141.9	141.9	141.9	141.9
25°	134.9	127.7	127.7	127.7	127.7
27.5°	123.0	115.9	115.9	115.9	115.9
30°	108.9	104.1	104.1	106.4	104.1
32.5°	99.4	92.2	92.2	94.7	94.7
35°	87.5	82.7	82.7	82.7	82.7
37.5°	75.7	71.0	71.0	71.0	71.0
40°	66.2	61.5	59.2	61.5	61.5
42.5°	56.7	52.0	49.7	49.7	49.7
45°	49.7	42.5	40.2	42.5	42.5
47.5°	40.2	35.5	35.5	37.8	37.8
50°	30.7	30.7	33.2	37.8	37.8
52.5°	28.4	28.4	33.2	37.8	37.8
55°	26.0	28.4	33.2	35.5	37.8
57.5°	23.7	28.4	33.2	35.5	35.5
60°	23.7	26.0	30.7	35.5	35.5
62.5°	21.3	23.7	28.4	33.2	33.2
65°	21.3	23.7	28.4	33.2	33.2
66°	21.3	23.7	28.4	33.2	33.2
67.5°	21.3	23.7	28.4	33.2	33.2
70°	21.3	23.7	28.4	30.7	30.7
72.5°	19.0	21.3	26.0	30.7	30.7
75°	19.0	21.3	26.0	30.7	30.7
77.5°	19.0	21.3	26.0	30.7	30.7
80°	19.0	21.3	26.0	28.4	30.7
82.5°	16.5	21.3	23.7	28.4	28.4
85°	16.5	19.0	23.7	26.0	28.4
87.5°	14.2	16.5	19.0	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)