

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: P165273

Luminaire Tested: **VST-F05-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165273
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-F05-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7255.6 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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



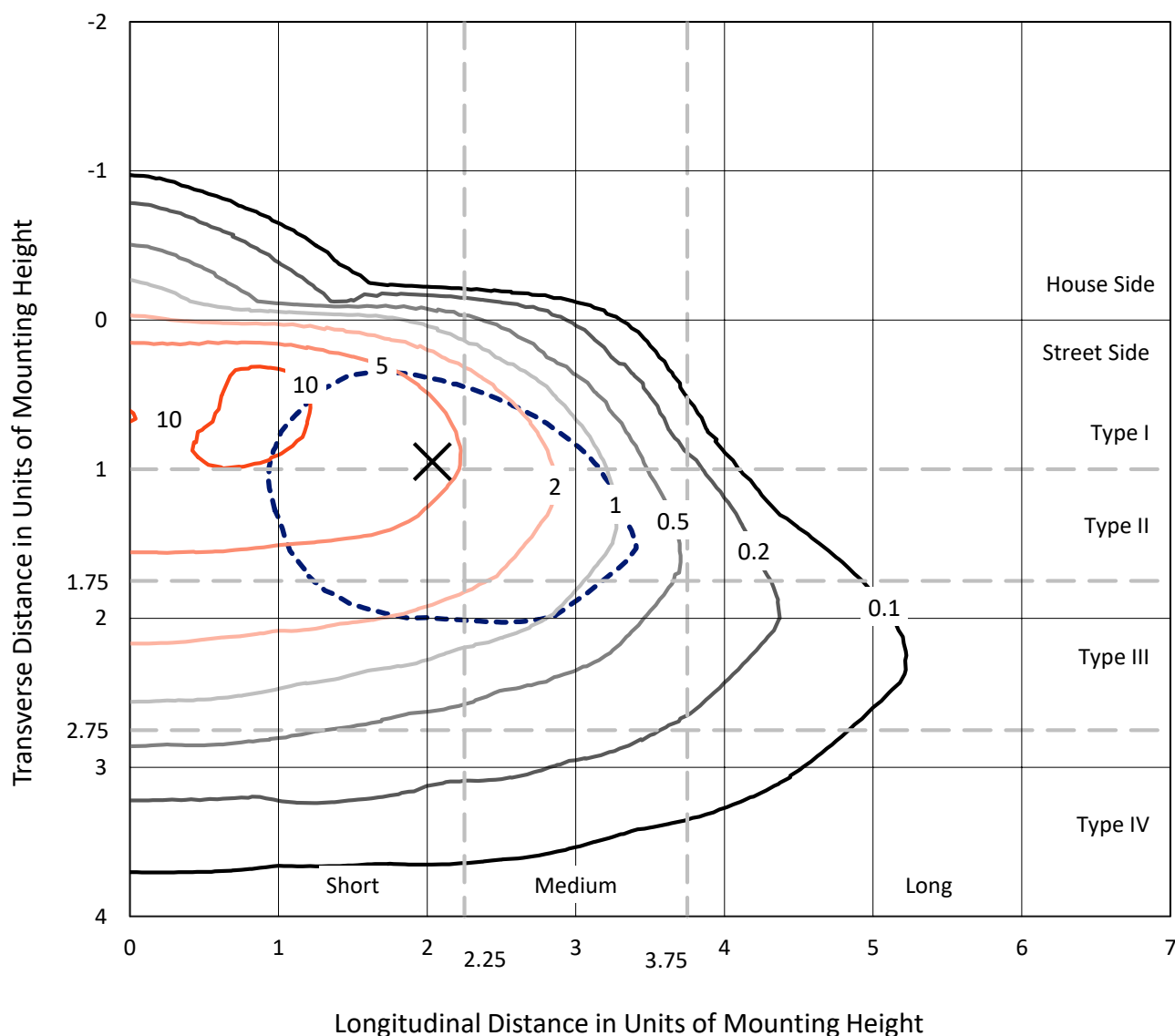
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

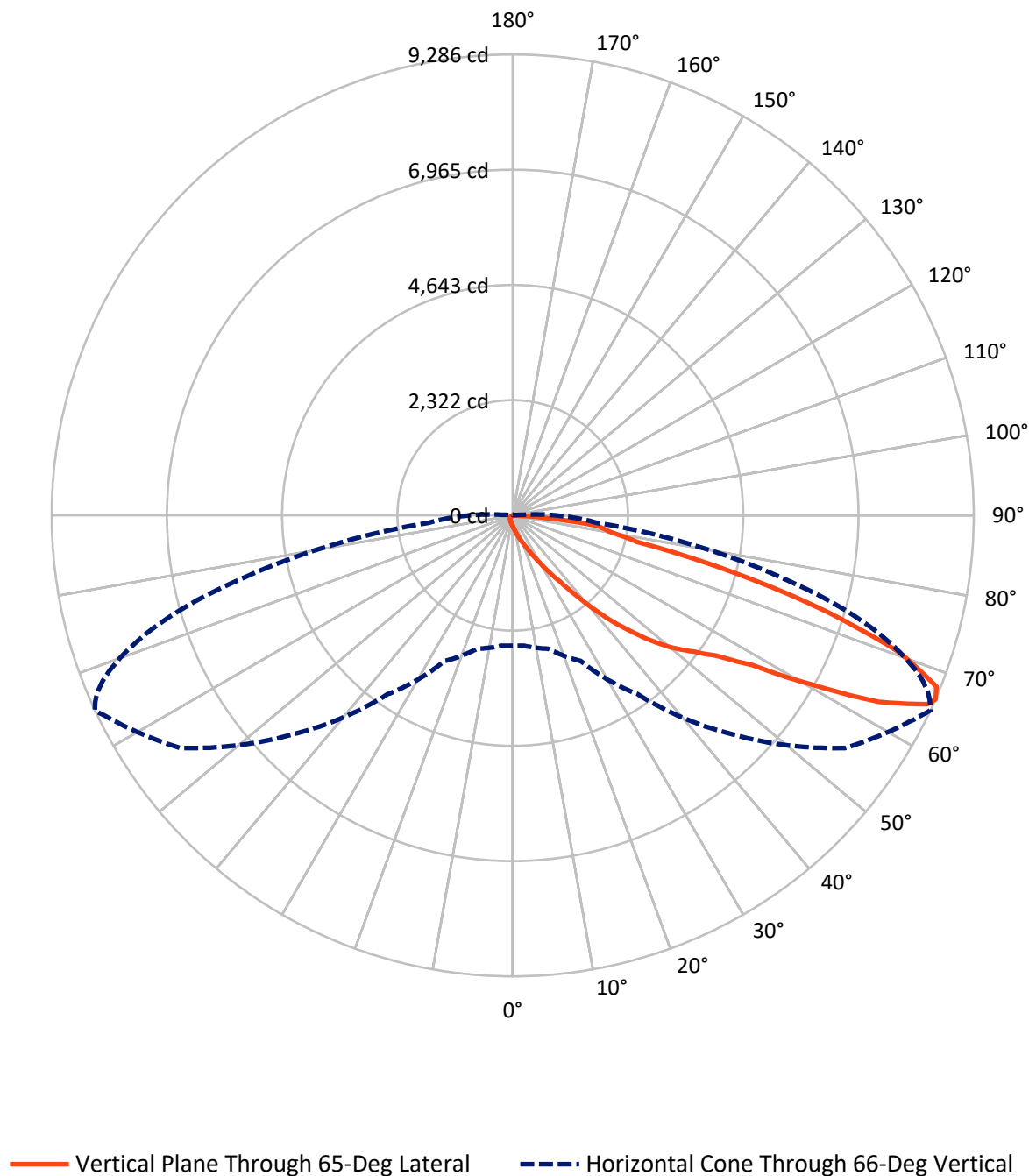


Based on 10 foot mounting height. Maximum calculated value = 12 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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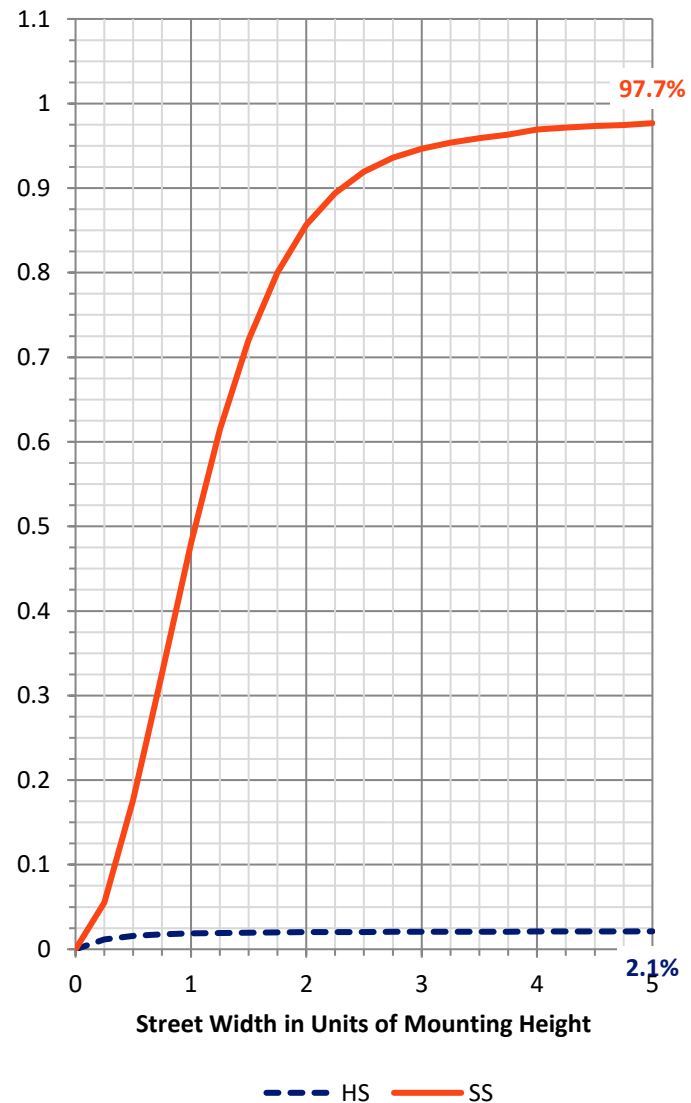
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.2	0.0	157.2
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	7098.4	0.0	7098.4
	% Fixture	97.8	0.0	97.8
Total	Lumens	7255.6	0.0	7255.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	0.3
10°-20°	104.0	1.4
20°-30°	224.2	3.1
30°-40°	478.8	6.6
40°-50°	1058.9	14.6
50°-60°	1794.5	24.7
60°-70°	2394.6	33.0
70°-80°	1054.8	14.5
80°-90°	121.5	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°	7255.6	100.0
0°-180°	7255.6	100.0

Coefficient of Utilization



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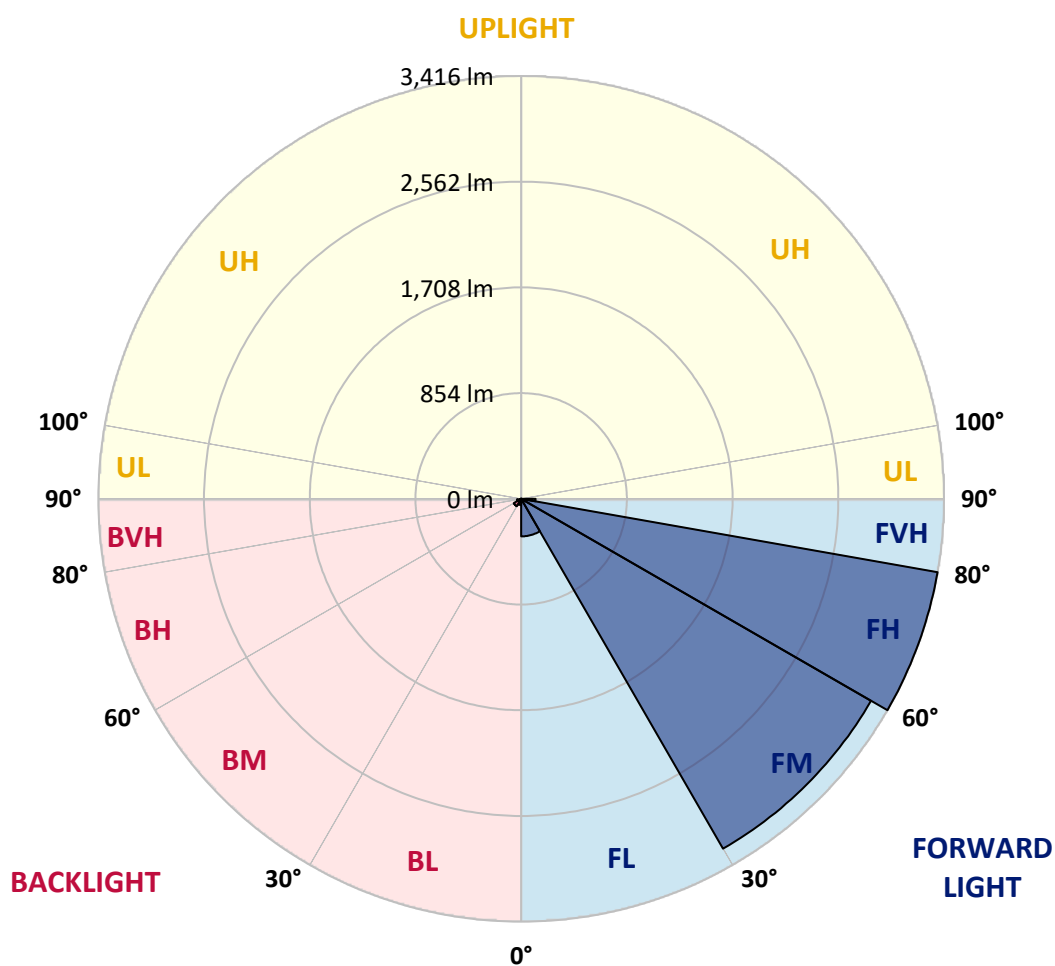
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.1	4.2			
FM	(30°-60°)	3263.1	45.0			
FH	(60°-80°)	3415.6	47.1			G2/5000
FVH	(80°-90°)	116.7	1.6			G2/225
BL	(0°-30°)	49.6	0.7	B0/110		
BM	(30°-60°)	69.0	1.0	B0/220		
BH	(60°-80°)	33.7	0.5	B0/110		G0/110
BVH	(80°-90°)	4.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0
2.5°	276.2	274.8	269.2	269.2	260.8	255.3	248.3	241.3	241.3	239.9	238.5
5°	365.4	357.1	355.7	340.4	327.8	309.7	292.9	270.6	267.8	265.0	263.6
7.5°	464.5	463.1	450.6	432.4	407.4	373.8	340.4	304.1	298.5	295.7	290.1
10°	592.9	585.8	569.2	538.4	500.8	456.2	401.8	344.5	337.6	332.0	329.2
12.5°	715.6	703.1	693.2	654.2	606.8	541.2	475.6	393.4	387.8	380.8	369.7
15°	830.0	818.8	802.1	768.6	715.6	633.3	556.6	456.2	442.2	432.4	424.0
17.5°	919.2	912.3	892.7	855.1	797.9	725.4	633.3	520.3	509.2	496.6	481.2
20°	1004.4	994.6	963.9	912.3	850.9	795.1	724.0	604.0	588.6	573.3	556.6
22.5°	1085.3	1075.4	1025.3	940.2	874.6	850.9	825.8	698.8	675.1	662.6	645.8
25°	1198.3	1177.4	1099.2	963.9	876.0	894.2	937.4	821.6	799.3	781.2	754.7
27.5°	1350.3	1322.4	1199.6	998.8	881.6	941.6	1065.7	970.8	947.1	926.2	897.0
30°	1521.9	1503.7	1357.3	1082.5	922.0	1011.3	1209.4	1160.6	1132.7	1107.6	1072.7
32.5°	1694.8	1669.8	1524.7	1241.5	1030.8	1146.6	1389.4	1381.0	1344.7	1321.0	1283.3
35°	1846.9	1834.3	1726.9	1502.3	1279.2	1383.8	1629.3	1639.0	1607.0	1581.8	1540.0
37.5°	1950.1	1950.1	1929.2	1782.7	1673.9	1752.0	1982.2	1983.6	1951.5	1894.3	1873.4
40°	2003.1	2018.4	2093.8	2121.7	2116.1	2216.5	2445.3	2420.2	2393.7	2364.4	2294.6
42.5°	2111.9	2125.8	2286.3	2478.8	2604.3	2736.8	2894.5	2886.1	2854.1	2801.0	2736.8
45°	2296.1	2314.2	2505.3	2810.8	3068.8	3257.2	3357.6	3318.5	3286.4	3236.3	3202.7
47.5°	2530.4	2565.3	2781.5	3159.5	3470.6	3781.6	3886.2	3783.0	3755.2	3716.0	3661.7
50°	2780.1	2813.6	3043.7	3476.1	3827.7	4198.7	4373.1	4198.7	4158.3	4145.7	4084.3
52.5°	2996.3	3024.2	3246.0	3720.3	4101.0	4536.3	4790.1	4560.0	4530.7	4488.8	4444.2
55°	3124.6	3147.0	3354.8	3837.4	4286.6	4840.4	5193.3	4991.1	4947.8	4931.1	4866.9
57.5°	3167.9	3190.2	3377.1	3852.8	4387.0	5117.9	5682.9	5689.9	5638.3	5578.3	5558.8
60°	3167.9	3193.0	3350.6	3815.1	4484.7	5413.7	6335.7	6917.4	6805.8	6794.6	6723.5
62.5°	3036.8	3060.5	3219.5	3699.3	4615.8	5812.6	7245.2	8271.9	8239.8	8167.2	8050.1
65°	2752.1	2766.1	2922.3	3403.6	4565.6	6179.5	8033.3	9173.0	9121.4	8979.1	8828.5
66°	2623.8	2635.0	2781.5	3234.8	4401.0	6229.7	8172.8	9286.0	9200.9	9080.9	8910.7
67.5°	2438.3	2457.9	2561.0	2921.0	4006.2	6055.3	8085.0	9206.5	9132.6	8987.5	8817.3
70°	1627.9	1613.9	1978.0	2241.6	3052.1	4933.9	7253.6	8266.3	8267.7	8199.4	8131.0
72.5°	772.8	781.2	887.1	1379.5	1997.5	3296.2	5773.6	6598.0	6692.8	6570.1	6485.0
75°	555.2	567.7	631.9	843.9	1191.2	1978.0	3742.5	4614.4	4617.2	4399.5	4205.7
77.5°	161.8	168.8	237.1	520.3	892.7	1334.9	2149.5	2565.3	2505.3	2349.0	2202.6
80°	66.9	66.9	69.7	166.0	358.5	906.7	1503.7	1975.2	1968.3	1908.3	1821.8
82.5°	25.1	26.5	33.5	68.4	85.1	223.2	1002.9	1714.4	1710.2	1625.1	1563.7
85°	2.8	2.8	8.4	29.3	32.1	41.8	200.8	756.0	751.9	756.0	662.6
87.5°	0.0	0.0	1.4	2.8	4.2	5.6	8.4	29.3	32.1	30.7	27.9
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0
2.5°	238.5	235.7	235.7	234.4	234.4	234.4	232.9	231.6	231.6	230.2	228.8
5°	260.8	258.0	256.7	253.9	252.5	251.1	248.3	246.9	244.1	242.7	241.3
7.5°	287.3	281.7	280.4	276.2	272.0	269.2	266.4	262.3	259.5	253.9	252.5
10°	320.9	313.8	308.3	302.7	298.5	291.6	287.3	281.7	276.2	272.0	267.8
12.5°	364.1	354.3	345.9	340.4	330.6	322.2	313.8	309.7	298.5	292.9	286.0
15°	411.5	400.3	390.6	379.4	372.5	358.5	347.3	334.8	329.2	319.4	308.3
17.5°	472.8	454.7	439.4	428.3	414.3	400.3	387.8	375.3	358.5	347.3	333.4
20°	538.4	523.1	502.1	482.7	465.9	449.2	431.0	414.3	399.0	380.8	364.1
22.5°	622.2	599.8	574.7	555.2	532.9	514.8	489.6	467.3	442.2	418.5	399.0
25°	728.1	698.8	675.1	647.3	620.7	592.9	562.1	534.3	502.1	479.9	446.4
27.5°	859.3	831.4	799.3	763.0	736.5	694.7	654.2	619.4	581.7	546.8	509.2
30°	1026.7	986.3	952.7	917.9	864.9	824.4	776.9	729.6	677.9	643.1	585.8
32.5°	1227.5	1184.3	1134.1	1083.8	1035.0	977.9	919.2	860.6	803.5	739.3	680.7
35°	1473.1	1421.4	1364.2	1309.8	1234.5	1173.1	1099.2	1018.3	954.1	880.2	806.2
37.5°	1798.1	1713.0	1662.7	1605.5	1503.7	1420.0	1337.7	1256.8	1143.8	1065.7	961.1
40°	2205.4	2155.1	2072.9	1980.8	1888.7	1778.5	1667.0	1559.6	1428.4	1319.6	1198.3
42.5°	2683.8	2609.9	2526.2	2393.7	2300.2	2170.5	2043.6	1901.3	1740.8	1601.4	1459.1
45°	3133.0	3045.2	2980.9	2848.5	2750.8	2597.3	2443.9	2293.3	2107.7	1927.8	1763.2
47.5°	3618.5	3545.9	3439.9	3332.5	3233.5	3060.5	2894.5	2711.7	2516.4	2303.0	2089.6
50°	4045.3	3988.1	3915.5	3785.8	3675.6	3530.5	3335.3	3135.8	2888.9	2676.8	2434.2
52.5°	4407.9	4363.3	4261.5	4169.4	4070.4	3933.6	3759.3	3568.2	3301.8	3068.8	2792.6
55°	4836.2	4804.1	4714.8	4657.6	4569.8	4438.7	4275.4	4098.3	3816.5	3562.6	3250.1
57.5°	5537.8	5512.8	5434.6	5410.9	5324.4	5210.0	5009.2	4819.4	4490.3	4175.0	3817.9
60°	6699.8	6649.6	6535.2	6476.7	6293.9	6140.5	5879.6	5618.7	5221.2	4819.4	4389.8
62.5°	7944.0	7803.2	7585.6	7398.7	7139.2	6872.7	6524.0	6125.1	5659.2	5182.2	4688.3
65°	8615.0	8375.1	8100.3	7803.2	7467.1	7075.0	6635.7	6157.2	5656.4	5152.8	4631.1
66°	8691.8	8421.1	8129.6	7799.0	7425.2	7008.1	6561.7	6059.6	5539.2	5048.2	4526.5
67.5°	8595.5	8312.4	8004.1	7637.2	7232.7	6800.2	6331.6	5809.8	5309.0	4811.1	4303.3
70°	7921.8	7639.9	7365.2	6978.8	6547.7	6112.6	5669.0	5085.9	4611.6	4154.1	3702.1
72.5°	6326.0	6134.9	5862.9	5532.3	5112.4	4601.8	4232.2	3710.5	3299.0	2855.4	2505.3
75°	3953.2	3684.0	3347.8	2926.6	2605.7	2191.4	1975.2	1579.0	1344.7	1139.7	941.6
77.5°	2021.2	1819.0	1583.3	1346.1	1118.7	892.7	690.5	488.3	329.2	228.8	170.2
80°	1669.8	1491.2	1295.9	1079.7	878.8	682.1	491.0	334.8	213.5	139.5	108.8
82.5°	1379.5	1228.9	1054.5	853.7	679.4	535.7	372.5	242.7	150.6	97.7	76.7
85°	587.3	532.9	411.5	326.4	245.5	181.4	127.0	85.1	60.0	48.8	44.6
87.5°	25.1	27.9	26.5	20.9	15.3	15.3	14.0	11.2	11.2	11.2	11.2
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°	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0	219.0
2.5°	228.8	227.4	226.0	226.0	224.6	223.2	214.8	207.9	199.5	193.9	188.3
5°	238.5	237.1	234.4	232.9	230.2	228.8	210.7	195.3	182.7	173.0	166.0
7.5°	248.3	246.9	242.7	238.5	237.1	234.4	205.1	185.5	168.8	157.6	150.6
10°	260.8	256.7	252.5	246.9	242.7	238.5	199.5	174.3	156.2	146.5	139.5
12.5°	278.9	272.0	265.0	258.0	252.5	245.5	196.7	164.6	146.5	135.3	128.3
15°	299.9	290.1	281.7	273.4	263.6	256.7	191.1	156.2	138.1	127.0	118.6
17.5°	319.4	308.3	295.7	283.2	273.4	263.6	185.5	147.9	129.7	118.6	110.2
20°	347.3	330.6	315.3	299.9	286.0	273.4	177.1	139.5	122.7	110.2	101.8
22.5°	378.0	358.5	339.0	318.1	299.9	283.2	170.2	132.5	115.8	103.3	93.4
25°	417.1	393.4	366.9	340.4	319.4	297.2	163.2	125.5	108.8	96.2	86.5
27.5°	471.5	438.0	408.7	375.3	343.2	318.1	157.6	119.9	101.8	89.3	79.5
30°	545.4	496.6	450.6	414.3	376.6	340.4	152.1	113.0	96.2	82.3	71.2
32.5°	627.7	570.5	517.5	463.1	415.7	373.8	146.5	107.4	89.3	75.3	65.6
35°	729.6	657.0	585.8	523.1	465.9	410.1	140.9	101.8	83.7	68.4	58.6
37.5°	876.0	785.3	691.9	611.0	537.0	463.1	136.7	96.2	76.7	61.4	51.6
40°	1076.9	959.7	845.3	735.1	638.9	546.8	131.1	90.6	71.2	55.8	46.0
42.5°	1294.5	1152.2	1001.6	877.4	744.9	629.1	125.5	85.1	65.6	50.2	40.5
45°	1565.1	1387.9	1205.2	1036.4	874.6	725.4	119.9	79.5	58.6	44.6	34.9
47.5°	1860.9	1634.9	1428.4	1216.4	1023.9	845.3	113.0	75.3	53.0	39.1	30.7
50°	2165.0	1926.4	1665.5	1424.2	1195.5	965.3	106.1	68.4	47.4	34.9	25.1
52.5°	2492.7	2211.0	1944.5	1644.6	1378.2	1122.9	99.0	62.8	43.2	30.7	20.9
55°	2909.8	2594.6	2282.1	1945.9	1625.1	1305.7	92.1	55.8	37.7	26.5	16.8
57.5°	3434.3	3060.5	2676.8	2297.4	1908.3	1545.6	86.5	48.8	32.1	22.3	14.0
60°	3929.5	3492.9	3028.4	2591.8	2152.3	1729.7	78.1	43.2	27.9	18.1	14.0
62.5°	4186.2	3688.2	3187.4	2706.2	2237.5	1795.3	69.7	36.3	23.7	15.3	12.5
65°	4123.4	3615.7	3130.2	2644.7	2185.9	1753.4	61.4	32.1	20.9	14.0	12.5
66°	4032.8	3530.5	3042.4	2580.6	2142.6	1708.8	57.2	30.7	19.6	14.0	11.2
67.5°	3834.6	3349.2	2883.3	2453.6	2024.0	1623.7	51.6	27.9	18.1	12.5	11.2
70°	3275.3	2834.5	2462.0	2079.8	1729.7	1368.5	41.8	23.7	15.3	11.2	11.2
72.5°	2167.7	1867.8	1619.5	1393.5	1164.7	903.9	34.9	19.6	12.5	11.2	9.7
75°	817.4	739.3	634.7	570.5	498.0	436.6	27.9	12.5	9.7	9.7	9.7
77.5°	145.1	133.9	118.6	108.8	100.5	92.1	22.3	8.4	8.4	9.7	9.7
80°	97.7	90.6	82.3	75.3	69.7	62.8	15.3	6.9	8.4	8.4	9.7
82.5°	69.7	65.6	61.4	55.8	51.6	46.0	9.7	6.9	8.4	8.4	8.4
85°	41.8	39.1	36.3	33.5	29.3	27.9	6.9	6.9	6.9	8.4	8.4
87.5°	11.2	9.7	11.2	11.2	8.4	9.7	5.6	5.6	5.6	6.9	6.9
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):

	145°	155°	165°	175°	180°
0°	219.0	219.0	219.0	219.0	219.0
2.5°	185.5	185.5	182.7	186.9	186.9
5°	160.4	160.4	159.0	160.4	160.4
7.5°	146.5	145.1	145.1	145.1	146.5
10°	133.9	132.5	132.5	132.5	132.5
12.5°	122.7	121.4	119.9	121.4	121.4
15°	113.0	110.2	110.2	110.2	110.2
17.5°	104.6	101.8	100.5	100.5	100.5
20°	96.2	92.1	92.1	92.1	92.1
22.5°	87.8	83.7	83.7	83.7	83.7
25°	79.5	75.3	75.3	75.3	75.3
27.5°	72.5	68.4	68.4	68.4	68.4
30°	64.2	61.4	61.4	62.8	61.4
32.5°	58.6	54.4	54.4	55.8	55.8
35°	51.6	48.8	48.8	48.8	48.8
37.5°	44.6	41.8	41.8	41.8	41.8
40°	39.1	36.3	34.9	36.3	36.3
42.5°	33.5	30.7	29.3	29.3	29.3
45°	29.3	25.1	23.7	25.1	25.1
47.5°	23.7	20.9	20.9	22.3	22.3
50°	18.1	18.1	19.6	22.3	22.3
52.5°	16.8	16.8	19.6	22.3	22.3
55°	15.3	16.8	19.6	20.9	22.3
57.5°	14.0	16.8	19.6	20.9	20.9
60°	14.0	15.3	18.1	20.9	20.9
62.5°	12.5	14.0	16.8	19.6	19.6
65°	12.5	14.0	16.8	19.6	19.6
66°	12.5	14.0	16.8	19.6	19.6
67.5°	12.5	14.0	16.8	19.6	19.6
70°	12.5	14.0	16.8	18.1	18.1
72.5°	11.2	12.5	15.3	18.1	18.1
75°	11.2	12.5	15.3	18.1	18.1
77.5°	11.2	12.5	15.3	18.1	18.1
80°	11.2	12.5	15.3	16.8	18.1
82.5°	9.7	12.5	14.0	16.8	16.8
85°	9.7	11.2	14.0	15.3	16.8
87.5°	8.4	9.7	11.2	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)