

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: P165283

Luminaire Tested: **VST-F06-LED-E-U-SL3-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165283
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-F06-LED-E-U-SL3-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8706.8 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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



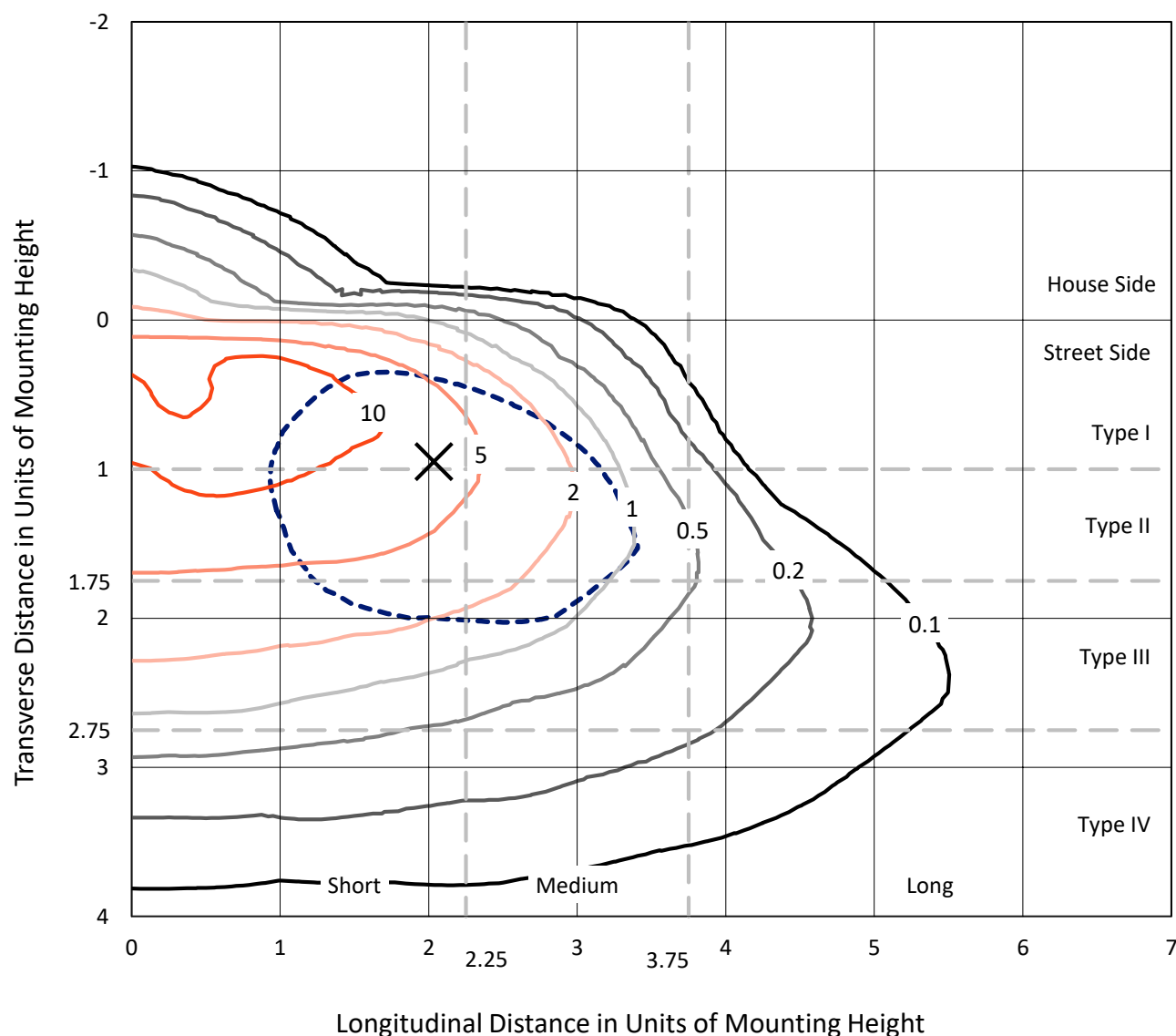
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

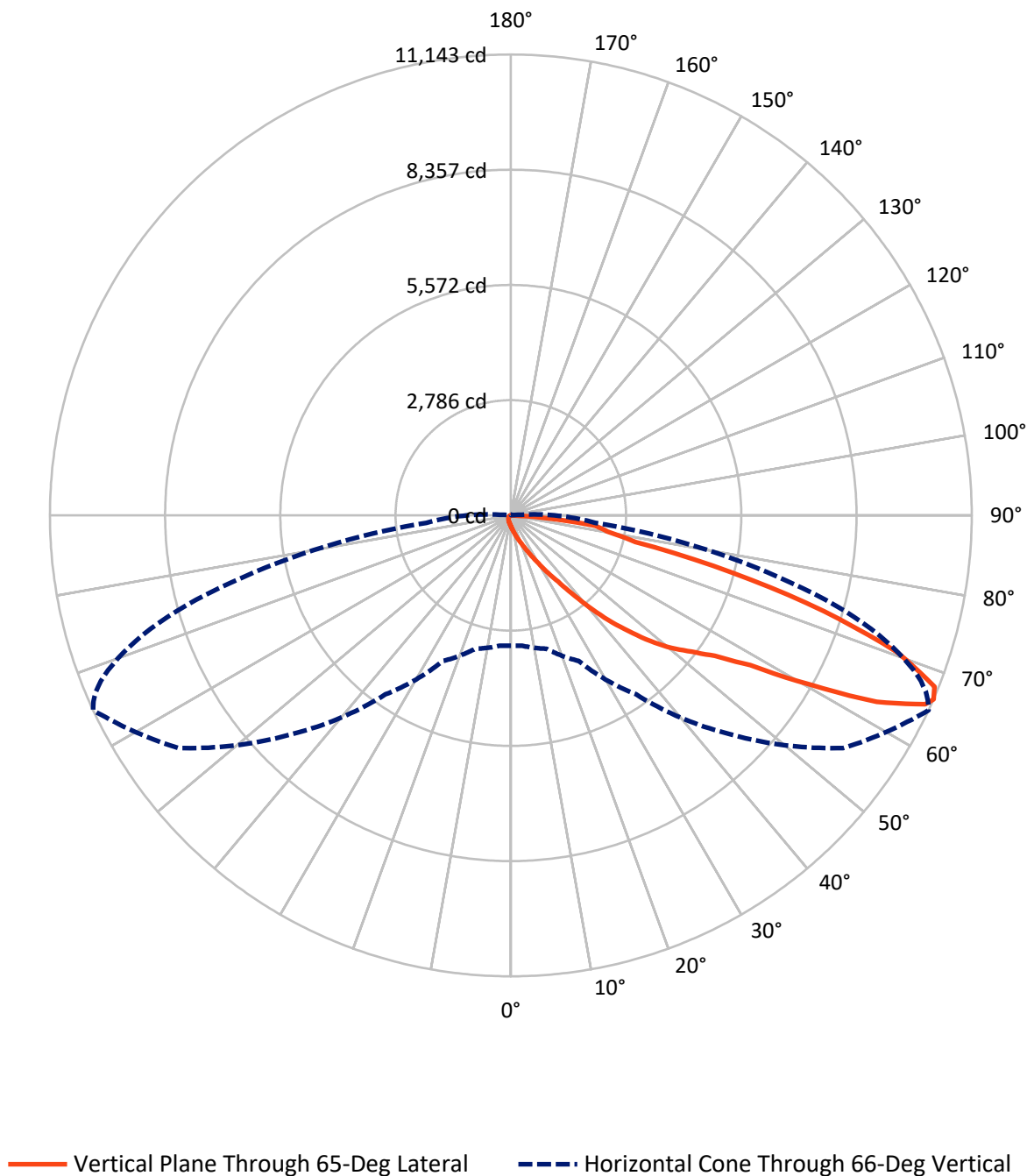


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	188.7	0.0	188.7
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	8518.1	0.0	8518.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	8706.8	0.0	8706.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	0.3
10°-20°	124.7	1.4
20°-30°	269.0	3.1
30°-40°	574.6	6.6
40°-50°	1270.7	14.6
50°-60°	2153.3	24.7
60°-70°	2873.5	33.0
70°-80°	1265.7	14.5
80°-90°	145.8	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°	8706.8	100.0
0°-180°	8706.8	100.0

Coefficient of Utilization



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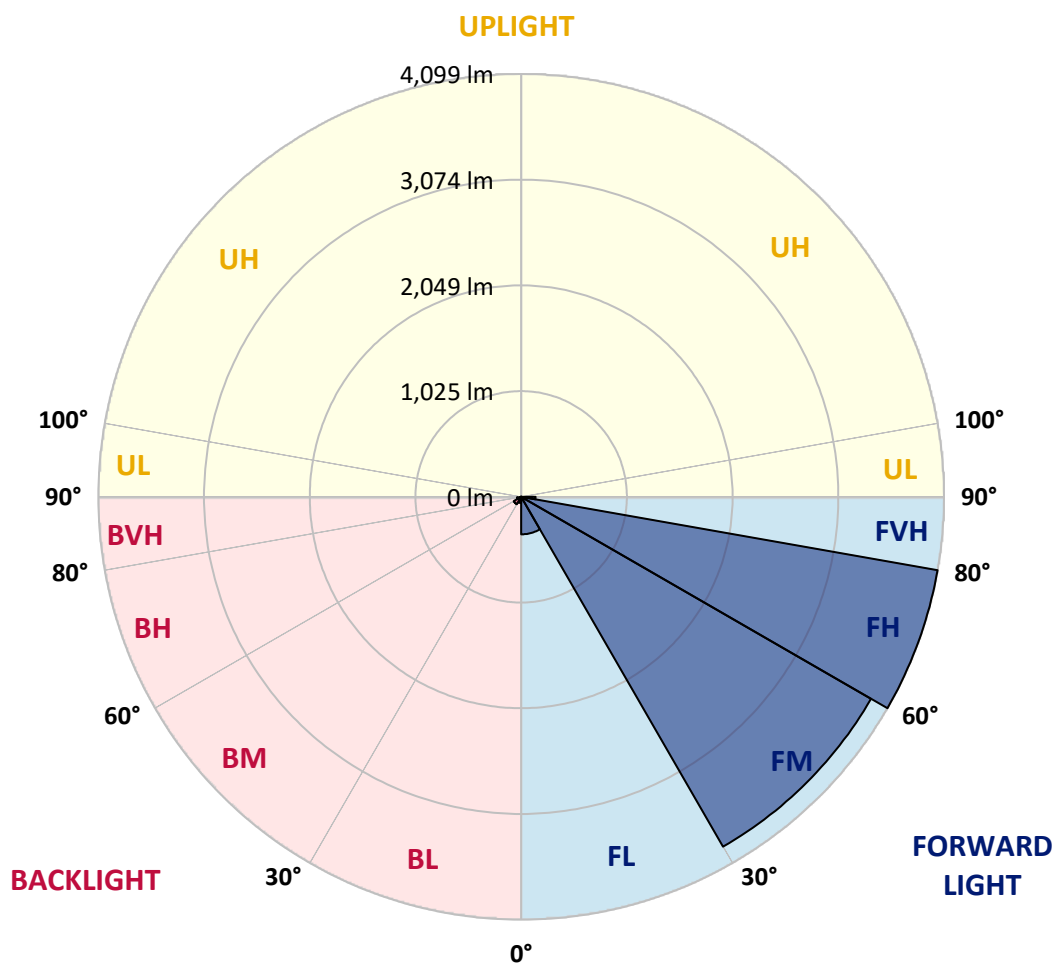
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.7	4.2			
FM	(30°-60°)	3915.7	45.0			
FH	(60°-80°)	4098.7	47.1			G2/5000
FVH	(80°-90°)	140.0	1.6			G2/225
BL	(0°-30°)	59.5	0.7	B0/110		
BM	(30°-60°)	82.9	1.0	B0/220		
BH	(60°-80°)	40.5	0.5	B0/110		G0/110
BVH	(80°-90°)	5.8	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°	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8
2.5°	331.5	329.7	323.0	323.0	313.0	306.4	297.9	289.6	289.6	287.9	286.2
5°	438.5	428.6	426.8	408.4	393.4	371.6	351.5	324.8	321.4	318.1	316.3
7.5°	557.4	555.7	540.7	518.9	488.8	448.6	408.4	364.9	358.2	354.9	348.1
10°	711.4	703.0	683.0	646.1	600.9	547.4	482.1	413.4	405.1	398.4	395.0
12.5°	858.7	843.7	831.9	785.0	728.1	649.4	570.8	472.1	465.3	457.0	443.6
15°	996.0	982.5	962.5	922.4	858.7	759.9	667.9	547.4	530.6	518.9	508.9
17.5°	1103.1	1094.8	1071.3	1026.1	957.4	870.4	759.9	624.3	611.0	595.9	577.5
20°	1205.3	1193.5	1156.7	1094.8	1021.1	954.1	868.8	724.8	706.4	688.0	667.9
22.5°	1302.3	1290.5	1230.4	1128.2	1049.5	1021.1	991.0	838.6	810.1	795.1	775.0
25°	1437.9	1412.8	1319.0	1156.7	1051.3	1073.0	1124.8	985.9	959.2	937.4	905.6
27.5°	1620.4	1586.8	1439.6	1198.5	1057.9	1129.9	1278.8	1165.0	1136.5	1111.4	1076.4
30°	1826.2	1804.5	1628.7	1299.0	1106.5	1213.6	1451.2	1392.7	1359.3	1329.1	1287.3
32.5°	2033.8	2003.7	1829.6	1489.8	1237.0	1375.9	1667.2	1657.2	1613.7	1585.2	1540.0
35°	2216.3	2201.2	2072.3	1802.7	1535.0	1660.5	1955.1	1966.8	1928.4	1898.2	1848.0
37.5°	2340.2	2340.2	2315.1	2139.2	2008.7	2102.4	2378.6	2380.3	2341.8	2273.2	2248.1
40°	2403.7	2422.1	2512.6	2546.0	2539.3	2659.9	2934.4	2904.2	2872.4	2837.2	2753.6
42.5°	2534.3	2551.0	2743.5	2974.6	3125.2	3284.2	3473.3	3463.3	3424.9	3361.2	3284.2
45°	2755.3	2777.1	3006.4	3372.9	3682.5	3908.6	4029.1	3982.2	3943.7	3883.5	3843.2
47.5°	3036.5	3078.3	3337.7	3791.4	4164.7	4537.9	4663.5	4539.6	4506.2	4459.2	4394.0
50°	3336.1	3376.3	3652.5	4171.4	4593.2	5038.4	5247.7	5038.4	4990.0	4974.8	4901.2
52.5°	3595.5	3629.1	3895.2	4464.3	4921.2	5443.5	5748.2	5472.0	5436.8	5386.6	5333.0
55°	3749.5	3776.4	4025.7	4604.9	5144.0	5808.4	6232.0	5989.3	5937.3	5917.3	5840.2
57.5°	3801.5	3828.2	4052.5	4623.3	5264.4	6141.5	6819.5	6827.9	6766.0	6694.0	6670.5
60°	3801.5	3831.6	4020.7	4578.2	5381.6	6496.4	7602.8	8300.9	8167.0	8153.6	8068.2
62.5°	3644.1	3672.6	3863.4	4439.2	5539.0	6975.2	8694.2	9926.2	9887.8	9800.7	9660.1
65°	3302.6	3319.4	3506.8	4084.4	5478.7	7415.4	9640.0	11007.6	10945.7	10774.9	10594.2
66°	3148.6	3162.0	3337.7	3881.8	5281.2	7475.7	9807.4	11143.2	11041.1	10897.1	10692.9
67.5°	2926.0	2949.4	3073.3	3505.2	4807.5	7266.4	9702.0	11047.8	10959.1	10785.0	10580.8
70°	1953.5	1936.7	2373.6	2689.9	3662.5	5920.7	8704.3	9919.5	9921.3	9839.2	9757.2
72.5°	927.3	937.4	1064.6	1655.5	2397.0	3955.5	6928.3	7917.5	8031.4	7884.1	7781.9
75°	666.2	681.3	758.3	1012.7	1429.5	2373.6	4491.1	5537.2	5540.6	5279.4	5046.9
77.5°	194.1	202.6	284.5	624.3	1071.3	1601.9	2579.4	3078.3	3006.4	2818.8	2643.1
80°	80.3	80.3	83.7	199.2	430.2	1088.1	1804.5	2370.3	2361.9	2290.0	2186.2
82.5°	30.1	31.8	40.2	82.0	102.2	267.8	1203.5	2057.3	2052.2	1950.1	1876.4
85°	3.4	3.4	10.1	35.2	38.5	50.2	241.0	907.2	902.2	907.2	795.1
87.5°	0.0	0.0	1.6	3.4	5.0	6.7	10.1	35.2	38.5	36.8	33.4
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°	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8
2.5°	286.2	282.9	282.9	281.3	281.3	281.3	279.5	277.9	277.9	276.2	274.6
5°	313.0	309.6	308.0	304.6	303.0	301.3	297.9	296.3	293.0	291.2	289.6
7.5°	344.8	338.1	336.5	331.5	326.4	323.0	319.7	314.7	311.4	304.6	303.0
10°	385.0	376.6	369.9	363.2	358.2	349.9	344.8	338.1	331.5	326.4	321.4
12.5°	436.9	425.2	415.1	408.4	396.7	386.7	376.6	371.6	358.2	351.5	343.2
15°	493.8	480.4	468.7	455.3	447.0	430.2	416.8	401.7	395.0	383.3	369.9
17.5°	567.4	545.7	527.3	513.9	497.2	480.4	465.3	450.3	430.2	416.8	400.1
20°	646.1	627.7	602.6	579.2	559.1	539.0	517.2	497.2	478.8	457.0	436.9
22.5°	746.6	719.8	689.7	666.2	639.5	617.7	587.5	560.8	530.6	502.1	478.8
25°	873.8	838.6	810.1	776.7	744.9	711.4	674.5	641.1	602.6	575.8	535.7
27.5°	1031.1	997.7	959.2	915.7	883.8	833.6	785.0	743.3	698.0	656.1	611.0
30°	1232.0	1183.5	1143.2	1101.5	1037.8	989.2	932.3	875.5	813.5	771.7	703.0
32.5°	1473.0	1421.2	1360.9	1300.6	1242.1	1173.4	1103.1	1032.8	964.1	887.2	816.9
35°	1767.7	1705.7	1637.1	1571.8	1481.4	1407.7	1319.0	1221.9	1145.0	1056.2	967.5
37.5°	2157.7	2055.5	1995.3	1926.7	1804.5	1704.0	1605.2	1508.2	1372.6	1278.8	1153.3
40°	2646.4	2586.2	2487.5	2377.0	2266.5	2134.2	2000.4	1871.5	1714.1	1583.5	1437.9
42.5°	3220.5	3131.9	3031.5	2872.4	2760.3	2604.6	2452.3	2281.5	2089.0	1921.7	1750.9
45°	3759.6	3654.2	3577.1	3418.2	3301.0	3116.8	2932.7	2751.9	2529.2	2313.3	2115.8
47.5°	4342.1	4255.0	4127.9	3999.0	3880.1	3672.6	3473.3	3254.1	3019.7	2763.6	2507.5
50°	4854.4	4785.7	4698.6	4543.0	4410.8	4236.6	4002.3	3762.9	3466.6	3212.2	2921.0
52.5°	5289.5	5235.9	5113.8	5003.3	4884.4	4720.4	4511.2	4281.9	3962.2	3682.5	3351.2
55°	5803.5	5764.9	5657.8	5589.2	5483.8	5326.4	5130.5	4918.0	4579.8	4275.2	3900.2
57.5°	6645.4	6615.3	6521.5	6493.0	6389.3	6252.0	6011.0	5783.3	5388.3	5010.0	4581.5
60°	8039.7	7979.6	7842.2	7772.0	7552.6	7368.5	7055.6	6742.5	6265.4	5783.3	5267.8
62.5°	9532.9	9363.8	9102.7	8878.4	8567.1	8247.3	7828.8	7350.1	6791.1	6218.6	5626.0
65°	10338.0	10050.1	9720.4	9363.8	8960.5	8490.0	7962.8	7388.7	6787.7	6183.4	5557.4
66°	10430.1	10105.3	9755.6	9358.8	8910.3	8409.7	7874.0	7271.5	6647.0	6057.9	5431.8
67.5°	10314.6	9974.8	9604.9	9164.7	8679.2	8160.3	7597.9	6971.8	6370.9	5773.3	5164.0
70°	9506.1	9167.9	8838.2	8374.6	7857.3	7335.1	6802.8	6103.1	5534.0	4984.9	4442.6
72.5°	7591.2	7361.8	7035.4	6638.7	6134.8	5522.2	5078.6	4452.6	3958.8	3426.5	3006.4
75°	4743.9	4420.8	4017.4	3511.9	3126.8	2629.7	2370.3	1894.8	1613.7	1367.6	1129.9
77.5°	2425.4	2182.8	1899.9	1615.3	1342.5	1071.3	828.5	585.9	395.0	274.6	204.2
80°	2003.7	1789.4	1555.0	1295.6	1054.6	818.6	589.3	401.7	256.2	167.4	130.5
82.5°	1655.5	1474.7	1265.4	1024.4	815.2	642.8	447.0	291.2	180.7	117.2	92.1
85°	704.7	639.5	493.8	391.7	294.6	217.6	152.4	102.2	72.0	58.5	53.6
87.5°	30.1	33.4	31.8	25.1	18.4	18.4	16.8	13.4	13.4	13.4	13.4
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8	262.8
2.5°	274.6	272.8	271.2	271.2	269.5	267.8	257.8	249.4	239.4	232.7	226.0
5°	286.2	284.5	281.3	279.5	276.2	274.6	252.8	234.3	219.3	207.6	199.2
7.5°	297.9	296.3	291.2	286.2	284.5	281.3	246.1	222.6	202.6	189.2	180.7
10°	313.0	308.0	303.0	296.3	291.2	286.2	239.4	209.2	187.4	175.8	167.4
12.5°	334.7	326.4	318.1	309.6	303.0	294.6	236.0	197.5	175.8	162.3	154.0
15°	359.9	348.1	338.1	328.1	316.3	308.0	229.3	187.4	165.7	152.4	142.3
17.5°	383.3	369.9	354.9	339.8	328.1	316.3	222.6	177.5	155.6	142.3	132.2
20°	416.8	396.7	378.3	359.9	343.2	328.1	212.5	167.4	147.3	132.2	122.2
22.5°	453.7	430.2	406.8	381.7	359.9	339.8	204.2	159.0	139.0	123.9	112.1
25°	500.5	472.1	440.2	408.4	383.3	356.6	195.9	150.6	130.5	115.5	103.8
27.5°	565.8	525.6	490.5	450.3	411.8	381.7	189.2	143.9	122.2	107.1	95.4
30°	654.5	595.9	540.7	497.2	451.9	408.4	182.5	135.6	115.5	98.8	85.4
32.5°	753.2	684.6	621.0	555.7	498.8	448.6	175.8	128.9	107.1	90.4	78.7
35°	875.5	788.4	703.0	627.7	559.1	492.1	169.0	122.2	100.4	82.0	70.3
37.5°	1051.3	942.4	830.3	733.2	644.5	555.7	164.1	115.5	92.1	73.7	61.9
40°	1292.3	1151.7	1014.4	882.1	766.6	656.1	157.4	108.8	85.4	67.0	55.2
42.5°	1553.4	1382.6	1201.9	1052.9	893.9	754.9	150.6	102.2	78.7	60.3	48.6
45°	1878.2	1665.5	1446.3	1243.7	1049.5	870.4	143.9	95.4	70.3	53.6	41.9
47.5°	2233.0	1961.8	1714.1	1459.7	1228.6	1014.4	135.6	90.4	63.6	46.9	36.8
50°	2597.9	2311.7	1998.6	1709.0	1434.6	1158.4	127.3	82.0	56.9	41.9	30.1
52.5°	2991.2	2653.1	2333.5	1973.5	1653.8	1347.5	118.8	75.3	51.8	36.8	25.1
55°	3491.7	3113.5	2738.5	2335.1	1950.1	1566.8	110.5	67.0	45.2	31.8	20.1
57.5°	4121.2	3672.6	3212.2	2756.9	2290.0	1854.7	103.8	58.5	38.5	26.7	16.8
60°	4715.4	4191.5	3634.1	3110.2	2582.8	2075.7	93.7	51.8	33.4	21.8	16.8
62.5°	5023.4	4425.8	3824.9	3247.4	2685.0	2154.4	83.7	43.5	28.5	18.4	15.0
65°	4948.1	4338.8	3756.2	3173.7	2623.1	2104.1	73.7	38.5	25.1	16.8	15.0
66°	4839.3	4236.6	3650.8	3096.7	2571.1	2050.6	68.6	36.8	23.5	16.8	13.4
67.5°	4601.6	4019.0	3459.9	2944.4	2428.8	1948.4	61.9	33.4	21.8	15.0	13.4
70°	3930.4	3401.4	2954.4	2495.8	2075.7	1642.1	50.2	28.5	18.4	13.4	13.4
72.5°	2601.2	2241.4	1943.4	1672.2	1397.7	1084.7	41.9	23.5	15.0	13.4	11.7
75°	980.9	887.2	761.7	684.6	597.6	523.9	33.4	15.0	11.7	11.7	11.7
77.5°	174.1	160.7	142.3	130.5	120.6	110.5	26.7	10.1	10.1	11.7	11.7
80°	117.2	108.8	98.8	90.4	83.7	75.3	18.4	8.3	10.1	10.1	11.7
82.5°	83.7	78.7	73.7	67.0	61.9	55.2	11.7	8.3	10.1	10.1	10.1
85°	50.2	46.9	43.5	40.2	35.2	33.4	8.3	8.3	8.3	10.1	10.1
87.5°	13.4	11.7	13.4	13.4	10.1	11.7	6.7	6.7	6.7	8.3	8.3
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):

	145°	155°	165°	175°	180°
0°	262.8	262.8	262.8	262.8	262.8
2.5°	222.6	222.6	219.3	224.3	224.3
5°	192.5	192.5	190.8	192.5	192.5
7.5°	175.8	174.1	174.1	174.1	175.8
10°	160.7	159.0	159.0	159.0	159.0
12.5°	147.3	145.7	143.9	145.7	145.7
15°	135.6	132.2	132.2	132.2	132.2
17.5°	125.5	122.2	120.6	120.6	120.6
20°	115.5	110.5	110.5	110.5	110.5
22.5°	105.4	100.4	100.4	100.4	100.4
25°	95.4	90.4	90.4	90.4	90.4
27.5°	87.0	82.0	82.0	82.0	82.0
30°	77.0	73.7	73.7	75.3	73.7
32.5°	70.3	65.3	65.3	67.0	67.0
35°	61.9	58.5	58.5	58.5	58.5
37.5°	53.6	50.2	50.2	50.2	50.2
40°	46.9	43.5	41.9	43.5	43.5
42.5°	40.2	36.8	35.2	35.2	35.2
45°	35.2	30.1	28.5	30.1	30.1
47.5°	28.5	25.1	25.1	26.7	26.7
50°	21.8	21.8	23.5	26.7	26.7
52.5°	20.1	20.1	23.5	26.7	26.7
55°	18.4	20.1	23.5	25.1	26.7
57.5°	16.8	20.1	23.5	25.1	25.1
60°	16.8	18.4	21.8	25.1	25.1
62.5°	15.0	16.8	20.1	23.5	23.5
65°	15.0	16.8	20.1	23.5	23.5
66°	15.0	16.8	20.1	23.5	23.5
67.5°	15.0	16.8	20.1	23.5	23.5
70°	15.0	16.8	20.1	21.8	21.8
72.5°	13.4	15.0	18.4	21.8	21.8
75°	13.4	15.0	18.4	21.8	21.8
77.5°	13.4	15.0	18.4	21.8	21.8
80°	13.4	15.0	18.4	20.1	21.8
82.5°	11.7	15.0	16.8	20.1	20.1
85°	11.7	13.4	16.8	18.4	20.1
87.5°	10.1	11.7	13.4	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)