

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: P165027

Luminaire Tested: **VST-E03-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165027
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E03-LED-E-U-SL2-HSS
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5435 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 75.2
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



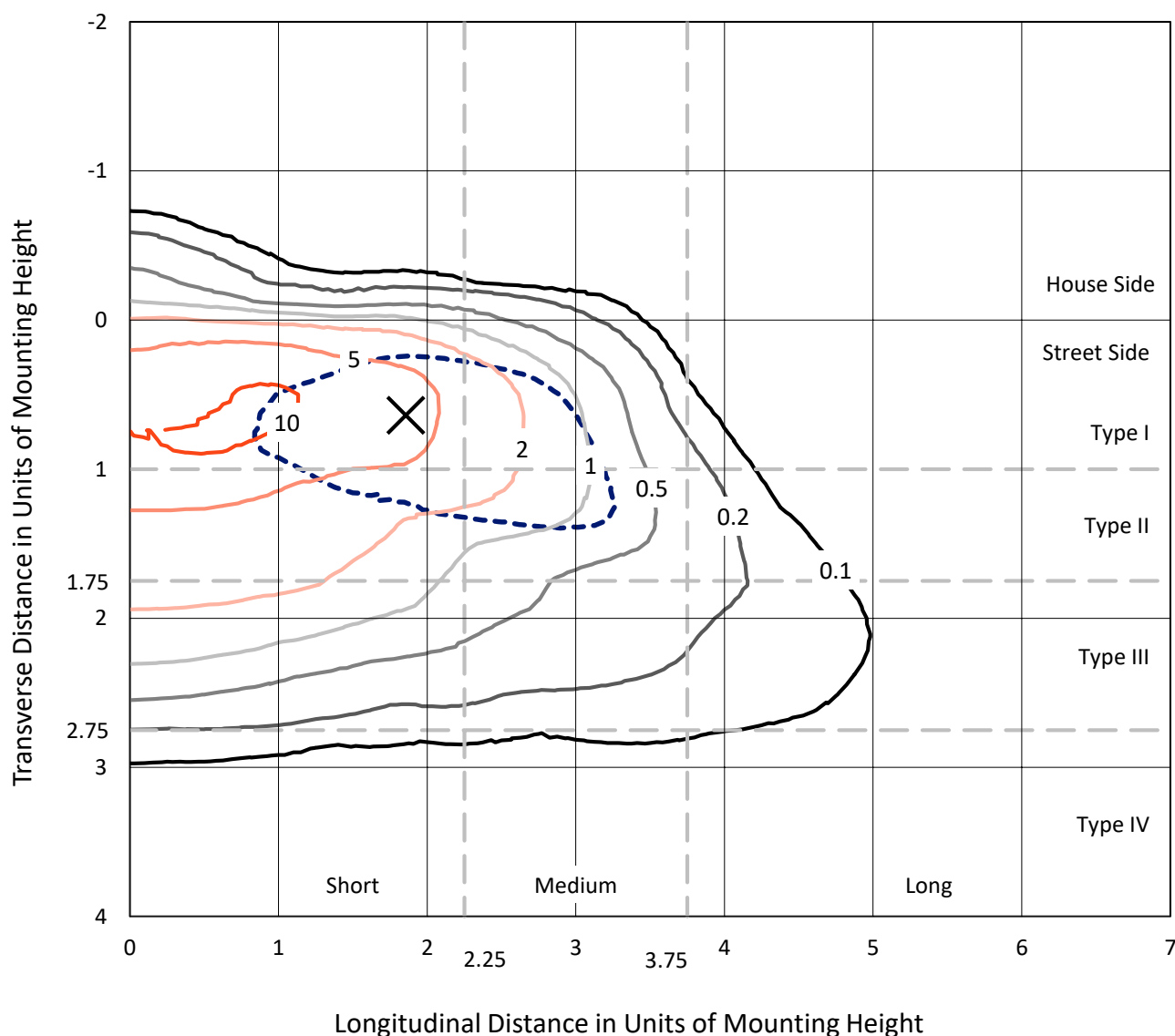
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

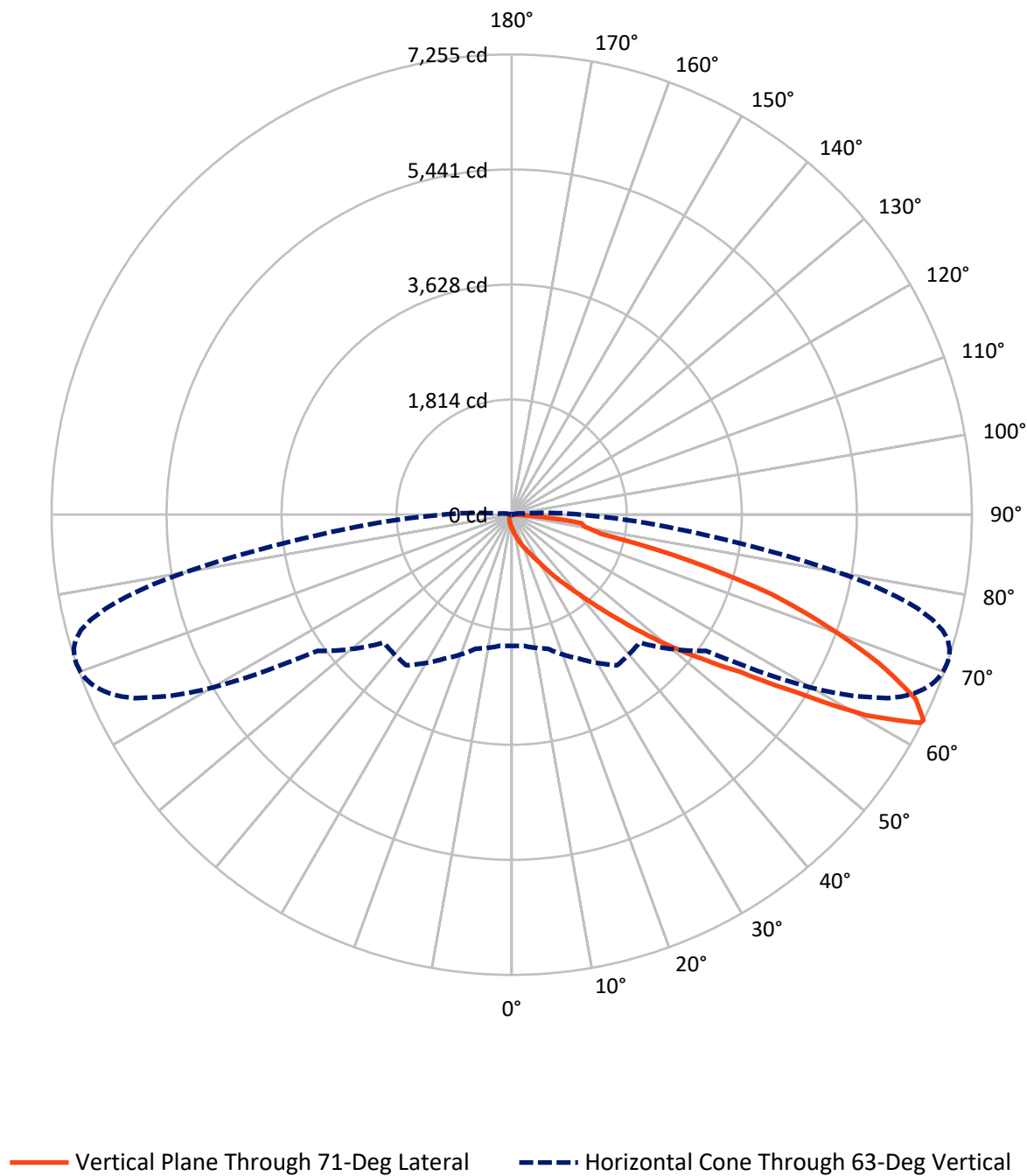


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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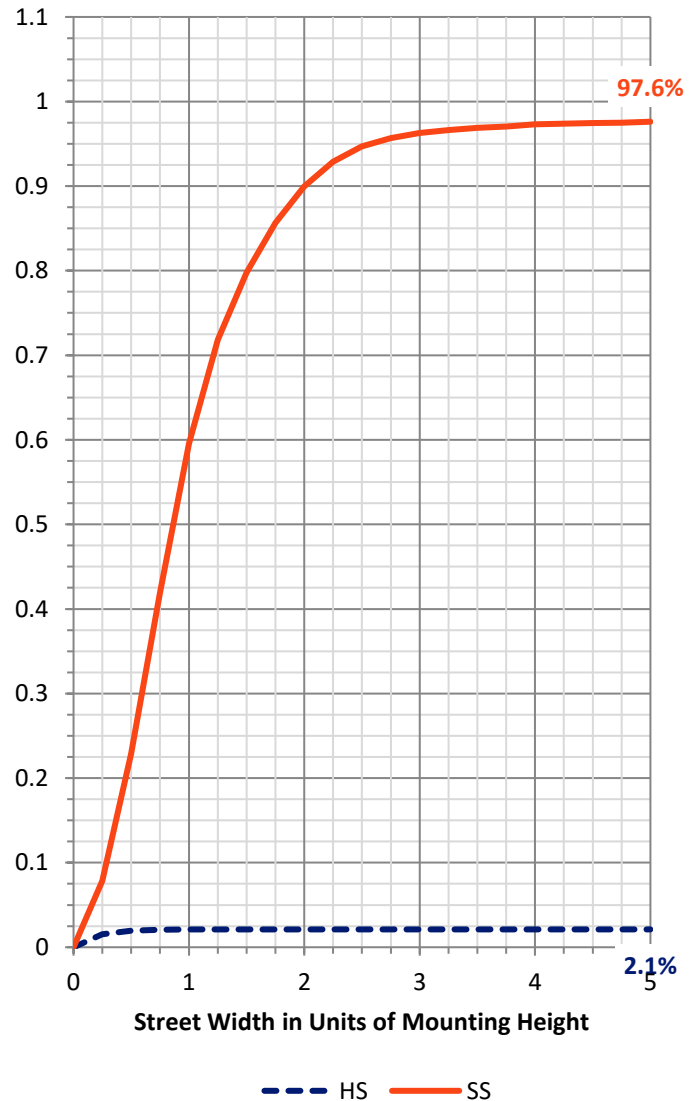
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	115.4	0.0	115.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5319.6	0.0	5319.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	5435.0	0.0	5435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.4
10°-20°	89.4	1.6
20°-30°	181.5	3.3
30°-40°	443.5	8.2
40°-50°	991.8	18.2
50°-60°	1394.6	25.7
60°-70°	1639.9	30.2
70°-80°	592.2	10.9
80°-90°	79.2	1.5
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°	5435.0	100.0
0°-180°	5435.0	100.0

Coefficient of Utilization



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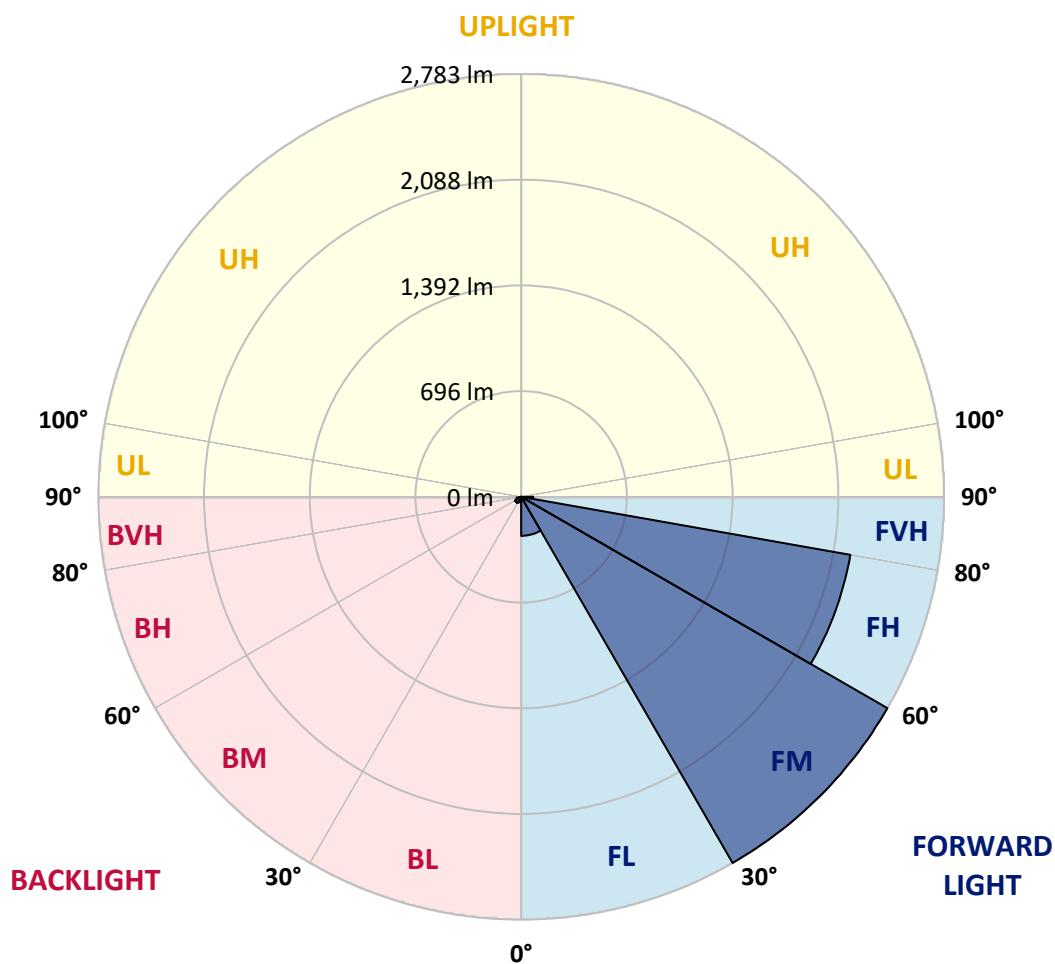
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.8	4.7			
FM	(30°-60°)	2783.3	51.2			
FH	(60°-80°)	2200.4	40.5			G2/5000
FVH	(80°-90°)	79.0	1.5			G1/100
BL	(0°-30°)	37.1	0.7	B0/110		
BM	(30°-60°)	46.5	0.9	B0/220		
BH	(60°-80°)	31.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5
2.5°	272.7	275.6	273.7	268.7	262.8	254.9	248.0	248.0	247.0	244.0	245.0
5°	357.7	358.7	354.7	342.8	332.0	315.2	296.4	294.4	292.4	289.5	288.5
7.5°	440.7	444.6	440.7	427.8	406.1	380.4	350.8	347.8	341.9	341.9	337.9
10°	525.7	525.7	521.7	506.9	487.1	450.5	413.0	408.1	401.2	399.2	393.2
12.5°	585.9	585.9	583.9	576.1	560.2	527.6	482.2	477.2	468.4	465.4	458.5
15°	609.6	609.6	610.6	617.5	618.5	603.7	556.3	552.3	543.4	535.5	532.6
17.5°	624.4	623.5	623.5	633.4	651.1	661.0	630.4	626.4	616.6	612.6	602.7
20°	657.1	655.1	649.1	649.1	665.9	700.5	700.5	699.5	688.7	685.7	680.8
22.5°	705.5	703.5	685.7	670.9	678.8	722.3	762.8	760.8	756.8	752.9	749.9
25°	784.5	777.6	746.9	703.5	696.6	743.0	810.2	815.2	818.1	818.1	820.1
27.5°	904.1	895.2	840.8	759.8	729.2	776.6	862.6	872.5	881.3	883.3	892.2
30°	1070.0	1054.3	976.2	857.6	787.5	826.0	939.7	950.5	963.4	967.3	981.1
32.5°	1342.7	1333.9	1258.8	1080.9	930.7	922.9	1047.4	1061.2	1078.0	1084.9	1101.7
35°	1757.8	1759.7	1698.5	1538.4	1330.9	1222.2	1240.0	1251.8	1257.8	1278.5	1287.4
37.5°	2039.3	2044.3	2058.1	1994.9	1846.7	1736.0	1596.7	1609.6	1578.9	1581.8	1582.9
40°	2193.5	2209.3	2290.3	2351.6	2339.7	2275.5	2163.8	2170.7	2113.4	2100.6	2038.3
42.5°	2296.2	2317.0	2446.4	2636.1	2732.9	2791.3	2765.6	2762.6	2718.1	2701.3	2648.9
45°	2360.5	2379.2	2542.3	2821.9	3045.2	3215.1	3285.2	3293.2	3255.6	3238.8	3195.4
47.5°	2357.5	2379.2	2554.1	2891.0	3220.1	3491.8	3689.4	3699.2	3722.0	3707.2	3710.1
50°	2227.1	2247.8	2423.7	2773.4	3168.7	3618.2	3979.9	4011.5	4048.0	4072.7	4084.6
52.5°	2069.0	2083.8	2239.9	2571.9	2949.3	3565.9	4151.8	4206.1	4260.5	4306.9	4339.5
55°	2010.7	2027.5	2150.0	2425.7	2773.4	3346.5	4231.8	4311.8	4388.9	4465.0	4527.2
57.5°	2041.3	2057.1	2145.1	2356.5	2668.7	3115.3	4254.5	4379.0	4505.5	4629.0	4751.5
60°	2153.9	2170.7	2245.9	2420.7	2641.1	2981.9	4165.6	4372.1	4582.6	4798.0	5000.5
62.5°	2109.5	2116.4	2227.1	2533.4	2838.7	2868.3	3842.5	4131.1	4452.2	4784.2	5111.2
63°	2067.0	2074.9	2187.5	2502.7	2899.0	2851.5	3742.7	4047.1	4385.9	4743.6	5099.3
65°	1874.3	1875.3	1961.3	2210.3	2831.8	2881.1	3298.1	3588.6	3977.9	4406.7	4856.3
67.5°	1399.1	1392.2	1475.2	1664.9	2223.1	2882.2	2830.7	2993.8	3264.5	3644.9	4048.0
70°	496.0	485.2	619.5	882.3	1385.2	2357.5	2432.6	2443.4	2518.6	2724.1	2977.0
72.5°	161.0	164.0	197.6	323.1	638.3	1586.8	2202.4	2168.8	2149.0	2148.0	2181.6
75°	64.2	65.2	79.0	143.3	286.6	764.8	1928.7	1947.4	1954.4	1964.2	1975.1
77.5°	30.6	33.6	44.5	80.0	142.3	378.4	1380.3	1539.4	1630.3	1700.5	1742.9
80°	10.9	12.8	24.7	49.4	66.2	173.9	727.2	877.4	1010.8	1182.7	1330.9
82.5°	0.0	0.0	4.9	34.6	36.5	70.1	298.4	349.7	400.1	518.7	665.9
85°	0.0	0.0	0.0	9.9	10.9	11.9	100.8	121.6	136.4	159.1	183.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9	5.9	14.8	22.7
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5
2.5°	243.1	242.1	242.1	240.1	239.1	237.1	236.2	233.2	232.2	232.2	232.2
5°	287.5	283.6	281.6	276.7	273.7	272.7	267.8	265.8	262.8	263.8	258.8
7.5°	336.9	330.0	327.1	320.1	318.2	311.2	309.2	304.3	301.4	295.4	293.5
10°	391.3	382.4	377.5	366.5	363.6	358.7	352.7	346.8	341.9	335.9	333.0
12.5°	453.5	445.6	441.7	426.8	419.9	413.0	405.1	397.2	389.3	384.4	377.5
15°	526.6	513.8	509.8	496.0	484.1	475.3	464.4	454.5	448.6	438.7	431.8
17.5°	598.7	585.9	583.0	562.2	549.4	543.4	531.6	518.7	507.8	498.0	487.1
20°	670.9	662.0	654.1	634.3	620.5	610.6	594.8	581.9	573.1	559.3	545.4
22.5°	743.0	734.1	728.2	707.5	694.6	680.8	667.0	653.1	640.3	623.5	607.7
25°	817.1	811.2	808.2	789.5	777.6	764.8	750.9	735.1	719.3	700.5	683.8
27.5°	894.2	896.2	890.2	886.3	873.4	864.5	842.8	832.0	820.1	797.3	776.6
30°	992.0	997.9	995.9	998.9	991.0	985.1	968.3	954.5	940.6	918.9	895.2
32.5°	1115.5	1123.4	1127.3	1138.3	1134.3	1132.3	1127.3	1107.6	1097.7	1060.2	1050.3
35°	1306.2	1302.2	1319.0	1327.9	1324.0	1322.0	1316.1	1305.2	1293.4	1266.7	1242.0
37.5°	1554.2	1558.1	1564.1	1546.3	1534.4	1533.5	1515.7	1504.8	1488.0	1458.4	1428.7
40°	2008.7	1984.0	1956.4	1881.2	1848.7	1829.9	1777.5	1762.7	1734.0	1693.5	1662.9
42.5°	2599.6	2574.8	2491.9	2366.4	2299.2	2206.3	2163.8	2111.5	2071.0	2004.8	1969.2
45°	3186.5	3115.3	3105.4	2959.2	2876.2	2753.7	2677.6	2589.7	2497.8	2410.9	2347.6
47.5°	3681.5	3665.6	3617.3	3528.3	3451.3	3348.5	3250.7	3115.3	3020.5	2897.0	2783.3
50°	4077.7	4076.7	4058.9	4007.5	3943.3	3860.3	3774.4	3659.8	3552.1	3400.9	3279.4
52.5°	4374.1	4389.9	4395.8	4380.0	4355.3	4282.2	4238.8	4142.9	4052.0	3923.5	3792.1
55°	4591.4	4649.8	4679.4	4713.0	4706.1	4680.4	4678.4	4616.2	4574.7	4472.9	4380.0
57.5°	4860.2	4956.1	5047.9	5211.0	5216.9	5274.2	5303.9	5333.5	5341.4	5300.9	5270.3
60°	5202.1	5397.7	5571.6	5912.5	6001.4	6141.7	6232.6	6331.4	6415.4	6422.3	6420.4
62.5°	5443.1	5744.5	6025.1	6531.0	6703.9	6866.0	6987.5	7083.4	7141.6	7200.9	7228.6
63°	5450.1	5780.1	6078.5	6600.2	6782.0	6936.1	7051.7	7140.7	7201.9	7237.4	7255.3
65°	5283.1	5683.3	6038.9	6558.7	6729.6	6884.8	6945.0	7003.3	7033.0	7046.8	6994.4
67.5°	4477.9	4869.1	5284.1	5865.1	6011.3	6197.0	6246.5	6276.1	6289.9	6287.0	6242.5
70°	3348.5	3676.6	4138.0	4801.9	4995.6	5177.4	5290.0	5338.4	5354.2	5349.3	5283.1
72.5°	2337.7	2530.4	2910.8	3649.9	3913.7	4146.8	4286.2	4358.3	4373.1	4343.5	4282.2
75°	1963.3	1973.2	2059.1	2463.2	2710.2	2959.2	3116.3	3161.8	3132.1	3042.2	2886.1
77.5°	1752.8	1774.6	1774.6	1834.8	1883.2	1952.4	1967.2	1856.5	1728.1	1562.1	1427.8
80°	1470.2	1546.3	1599.7	1644.1	1649.0	1635.2	1598.6	1536.4	1437.6	1311.1	1170.8
82.5°	893.2	1043.4	1104.7	1333.9	1446.5	1522.6	1516.7	1433.6	1358.6	1227.2	1107.6
85°	225.3	243.1	263.8	342.8	384.4	469.3	522.7	547.4	556.3	510.8	462.4
87.5°	21.7	14.8	24.7	18.8	26.7	19.7	26.7	24.7	30.6	32.6	35.6
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5
2.5°	230.2	229.2	228.2	227.3	226.3	225.3	223.3	223.3	221.3	220.3	219.4
5°	255.9	253.9	253.0	251.0	248.0	246.0	243.1	239.1	236.2	235.1	233.2
7.5°	288.5	283.6	281.6	278.6	274.7	268.7	264.8	261.8	256.9	253.9	248.0
10°	325.1	320.1	314.2	308.3	302.3	295.4	290.5	286.6	278.6	274.7	267.8
12.5°	371.5	362.6	355.7	347.8	339.9	332.0	326.0	314.2	307.3	298.4	292.4
15°	418.9	411.0	403.1	393.2	381.4	368.5	362.6	351.7	342.8	329.0	321.1
17.5°	476.2	461.4	449.6	437.7	426.8	415.0	403.1	386.3	373.5	361.6	345.8
20°	532.6	514.8	501.9	486.1	470.3	451.6	437.7	425.8	408.1	392.3	375.5
22.5°	592.8	575.0	554.3	538.5	516.8	501.9	483.2	463.4	445.6	424.9	404.1
25°	665.9	647.2	623.5	602.7	578.0	557.3	534.5	511.8	490.1	466.4	439.7
27.5°	755.9	736.1	710.4	685.7	653.1	627.4	605.7	575.0	547.4	517.7	487.1
30°	869.5	847.7	816.1	780.5	748.0	719.3	688.7	648.2	617.5	581.9	542.5
32.5°	1017.7	992.0	949.5	915.9	875.4	837.8	795.4	754.9	711.4	665.0	619.5
35°	1204.4	1180.7	1131.3	1081.9	1037.5	993.0	939.7	893.2	832.0	775.6	717.3
37.5°	1398.1	1355.6	1310.2	1256.8	1201.4	1148.1	1082.9	1018.7	948.5	887.3	814.1
40°	1619.4	1568.0	1530.5	1473.2	1395.1	1319.0	1258.8	1178.8	1090.8	1008.8	922.9
42.5°	1922.8	1865.5	1798.3	1711.3	1655.0	1566.1	1488.0	1393.1	1277.5	1185.7	1081.9
45°	2273.5	2195.5	2130.2	2046.2	1978.1	1867.4	1776.5	1650.1	1534.4	1413.9	1287.4
47.5°	2673.7	2576.8	2482.0	2399.0	2290.3	2181.6	2066.0	1931.6	1783.4	1651.0	1500.8
50°	3133.1	2995.7	2864.3	2757.7	2608.4	2483.0	2357.5	2206.3	2042.3	1890.1	1719.2
52.5°	3643.9	3484.9	3311.0	3146.9	2974.0	2813.0	2661.8	2487.9	2305.1	2119.4	1928.7
55°	4260.5	4140.9	3936.4	3727.9	3496.7	3281.3	3086.6	2871.3	2648.9	2404.9	2204.3
57.5°	5225.8	5167.5	4996.6	4788.1	4486.7	4224.9	3894.9	3631.1	3309.0	2973.1	2714.2
60°	6534.0	6461.8	6366.0	6197.0	5957.9	5602.3	5238.7	4828.6	4338.5	3873.2	3431.5
62.5°	7231.6	7205.8	7127.8	7011.2	6787.9	6507.3	6140.8	5690.2	5136.9	4571.7	4008.5
63°	7252.3	7219.7	7152.5	7033.9	6837.3	6565.6	6205.9	5768.2	5226.8	4650.8	4075.7
65°	6971.7	6958.9	6890.6	6761.2	6626.9	6419.3	6140.8	5764.3	5309.8	4765.4	4193.3
67.5°	6183.2	6144.7	6040.0	6000.4	5906.6	5762.3	5549.9	5291.0	4966.0	4538.1	4044.1
70°	5229.7	5172.4	5041.0	4970.9	4856.3	4765.4	4636.0	4451.2	4250.6	3952.2	3583.7
72.5°	4219.0	4100.4	3979.9	3797.1	3637.0	3475.0	3331.7	3201.3	2980.9	2860.4	2580.8
75°	2739.8	2524.4	2318.0	2041.3	1792.3	1572.0	1357.6	1248.9	1022.6	930.7	799.3
77.5°	1300.3	1179.7	1017.7	892.2	732.1	597.8	488.1	366.5	287.5	225.3	171.9
80°	1049.3	947.5	849.7	736.1	615.5	491.0	376.4	281.6	199.6	138.3	97.8
82.5°	935.7	825.0	704.5	626.4	544.4	445.6	365.6	298.4	220.3	161.0	109.7
85°	363.6	306.3	236.2	192.7	150.2	123.5	111.7	77.0	60.3	47.4	36.5
87.5°	31.6	25.7	20.8	13.9	14.8	7.9	8.9	5.9	4.9	4.9	4.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5
2.5°	218.3	217.4	216.4	214.4	214.4	212.5	211.4	210.5	205.5	194.6	185.8
5°	229.2	227.3	225.3	222.3	220.3	217.4	215.4	212.5	201.5	180.8	163.0
7.5°	245.0	241.1	238.1	232.2	229.2	225.3	222.3	217.4	199.6	167.9	143.3
10°	263.8	256.9	251.9	245.0	239.1	234.2	229.2	222.3	197.6	154.1	125.5
12.5°	286.6	278.6	268.7	260.8	253.0	246.0	239.1	230.2	194.6	142.3	111.7
15°	309.2	297.4	290.5	279.6	268.7	258.8	249.0	241.1	195.7	129.4	99.8
17.5°	334.9	323.1	308.3	296.4	284.6	271.7	259.9	244.0	190.7	119.6	90.9
20°	359.6	342.8	329.0	314.2	297.4	281.6	266.8	253.0	186.7	109.7	83.0
22.5°	386.3	366.5	348.8	330.0	309.2	291.5	273.7	255.9	179.8	100.8	76.1
25°	418.9	396.2	370.5	347.8	326.0	304.3	281.6	259.9	172.9	92.9	71.2
27.5°	458.5	428.8	403.1	374.5	343.9	316.2	291.5	267.8	166.0	86.9	66.2
30°	508.9	474.2	437.7	401.2	368.5	336.9	302.3	272.7	159.1	81.0	61.3
32.5°	576.1	532.6	488.1	445.6	402.1	361.6	325.1	286.6	155.1	76.1	56.3
35°	665.0	608.6	554.3	500.9	448.6	399.2	351.7	308.3	155.1	70.1	50.4
37.5°	748.9	683.8	614.6	548.3	486.1	428.8	372.5	320.1	147.2	65.2	45.5
40°	839.8	761.8	680.8	602.7	527.6	456.5	392.3	332.0	140.3	59.3	40.5
42.5°	979.1	880.4	774.7	683.8	593.8	505.9	425.8	354.7	131.4	53.3	35.6
45°	1162.0	1036.4	912.0	801.3	686.7	579.0	484.1	396.2	129.4	48.4	30.6
47.5°	1357.6	1209.4	1063.1	921.8	787.5	662.0	548.3	442.6	129.4	43.5	26.7
50°	1552.2	1366.5	1210.4	1046.3	895.2	746.9	611.6	491.0	130.4	39.5	21.7
52.5°	1728.1	1529.5	1354.6	1164.9	997.9	826.0	678.8	538.5	128.5	34.6	17.8
55°	1972.1	1739.0	1536.4	1327.0	1131.3	937.7	770.7	609.6	129.4	30.6	14.8
57.5°	2421.7	2148.0	1904.0	1629.3	1404.0	1154.0	951.5	755.9	141.3	25.7	10.9
60°	3066.9	2711.2	2368.4	2033.4	1746.9	1449.5	1186.6	956.5	166.0	20.8	7.9
62.5°	3500.6	3035.3	2626.3	2256.7	1923.7	1612.5	1325.9	1064.1	182.8	16.8	4.9
63°	3545.1	3064.0	2652.9	2271.5	1931.6	1620.4	1331.9	1072.0	183.8	15.8	4.9
65°	3629.1	3113.3	2667.7	2274.5	1923.7	1609.6	1327.9	1071.1	185.8	12.8	4.0
67.5°	3533.3	3037.3	2581.8	2189.5	1854.5	1545.3	1278.5	1031.5	184.7	8.9	2.9
70°	3159.8	2748.8	2348.6	1983.0	1678.7	1399.1	1163.9	940.6	169.9	5.9	2.0
72.5°	2320.0	2040.3	1730.1	1466.3	1264.7	1050.3	896.2	706.4	131.4	4.0	1.0
75°	687.7	626.4	526.6	464.4	410.0	338.9	301.4	235.1	67.2	2.0	0.0
77.5°	137.3	124.5	111.7	101.8	95.8	82.0	78.1	64.2	27.7	1.0	0.0
80°	72.1	59.3	50.4	44.5	38.5	31.6	26.7	21.7	4.9	0.0	0.0
82.5°	69.2	46.4	33.6	27.7	23.7	18.8	14.8	10.9	2.9	0.0	0.0
85°	25.7	19.7	14.8	11.9	9.9	8.9	6.9	5.9	0.0	0.0	0.0
87.5°	4.0	2.9	2.9	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	208.5	208.5	208.5	208.5	208.5	208.5	208.5
2.5°	176.9	169.0	165.0	160.1	160.1	159.1	161.0
5°	147.2	136.4	128.5	122.5	123.5	120.5	121.6
7.5°	124.5	113.6	106.7	102.8	101.8	100.8	100.8
10°	107.7	97.8	91.9	88.9	88.0	88.0	88.0
12.5°	95.8	86.0	81.0	79.0	79.0	78.1	78.1
15°	86.0	78.1	73.1	71.2	71.2	70.1	71.2
17.5°	78.1	70.1	66.2	64.2	64.2	63.2	63.2
20°	71.2	64.2	60.3	57.3	57.3	56.3	57.3
22.5°	65.2	58.3	53.3	51.4	50.4	49.4	50.4
25°	59.3	52.4	47.4	44.5	43.5	43.5	42.5
27.5°	54.4	47.4	41.5	38.5	37.6	37.6	36.5
30°	49.4	41.5	35.6	32.6	31.6	31.6	31.6
32.5°	44.5	35.6	30.6	27.7	26.7	26.7	26.7
35°	39.5	30.6	25.7	22.7	21.7	21.7	21.7
37.5°	33.6	25.7	19.7	17.8	16.8	15.8	15.8
40°	28.7	19.7	14.8	12.8	10.9	10.9	10.9
42.5°	23.7	15.8	10.9	7.9	6.9	5.9	6.9
45°	19.7	11.9	6.9	4.0	2.9	2.9	2.9
47.5°	15.8	7.9	2.9	1.0	1.0	1.0	1.0
50°	11.9	4.9	1.0	0.0	0.0	1.0	1.0
52.5°	8.9	2.9	0.0	0.0	0.0	0.0	0.0
55°	4.9	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	2.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)