

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: P165029

Luminaire Tested: **VST-E03-LED-E-U-SL2-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165029
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-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5576.9 lumens
Efficiency: N/A
Efficacy: 74.2 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

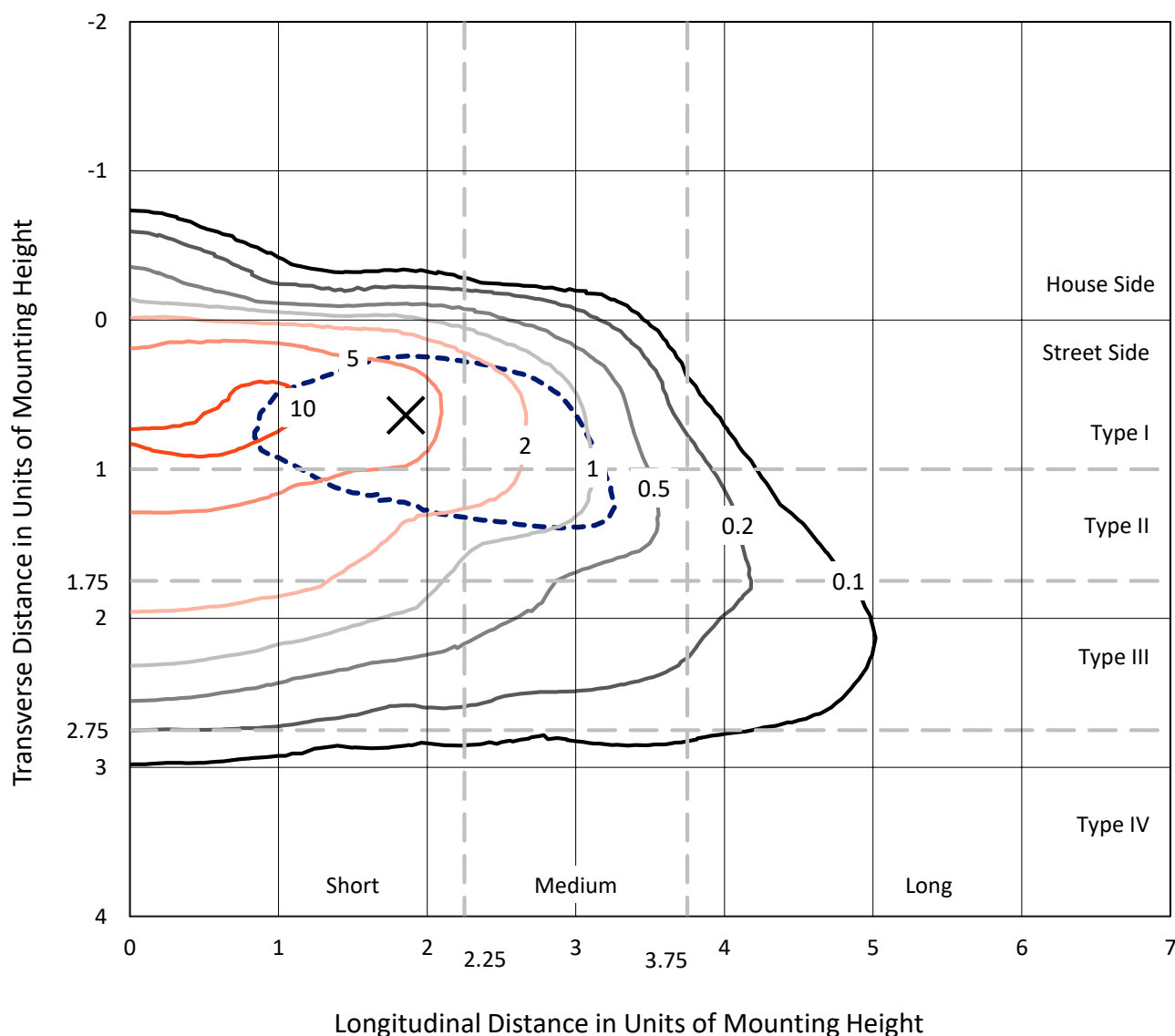


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

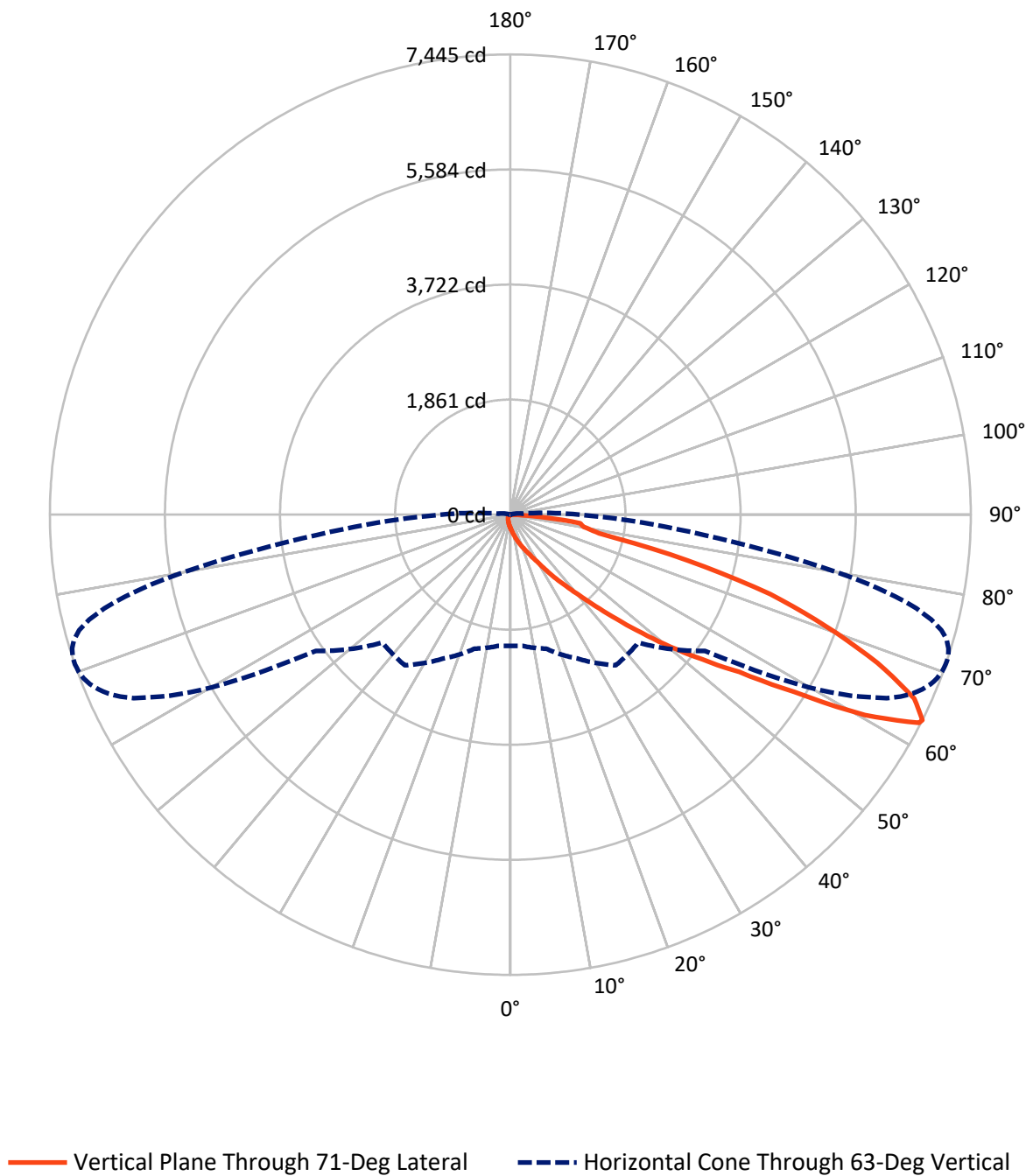


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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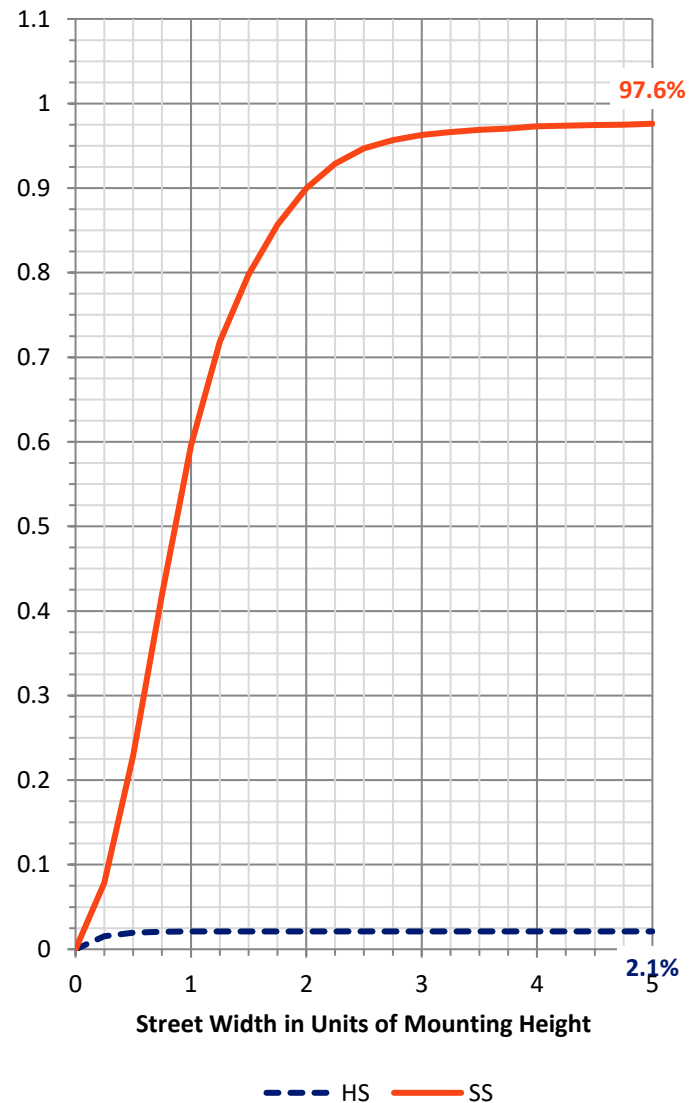
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	118.4	0.0	118.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5458.5	0.0	5458.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	5576.9	0.0	5576.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	0.4
10°-20°	91.7	1.6
20°-30°	186.3	3.3
30°-40°	455.1	8.2
40°-50°	1017.7	18.2
50°-60°	1431.0	25.7
60°-70°	1682.7	30.2
70°-80°	607.6	10.9
80°-90°	81.3	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°	5576.9	100.0
0°-180°	5576.9	100.0

Coefficient of Utilization



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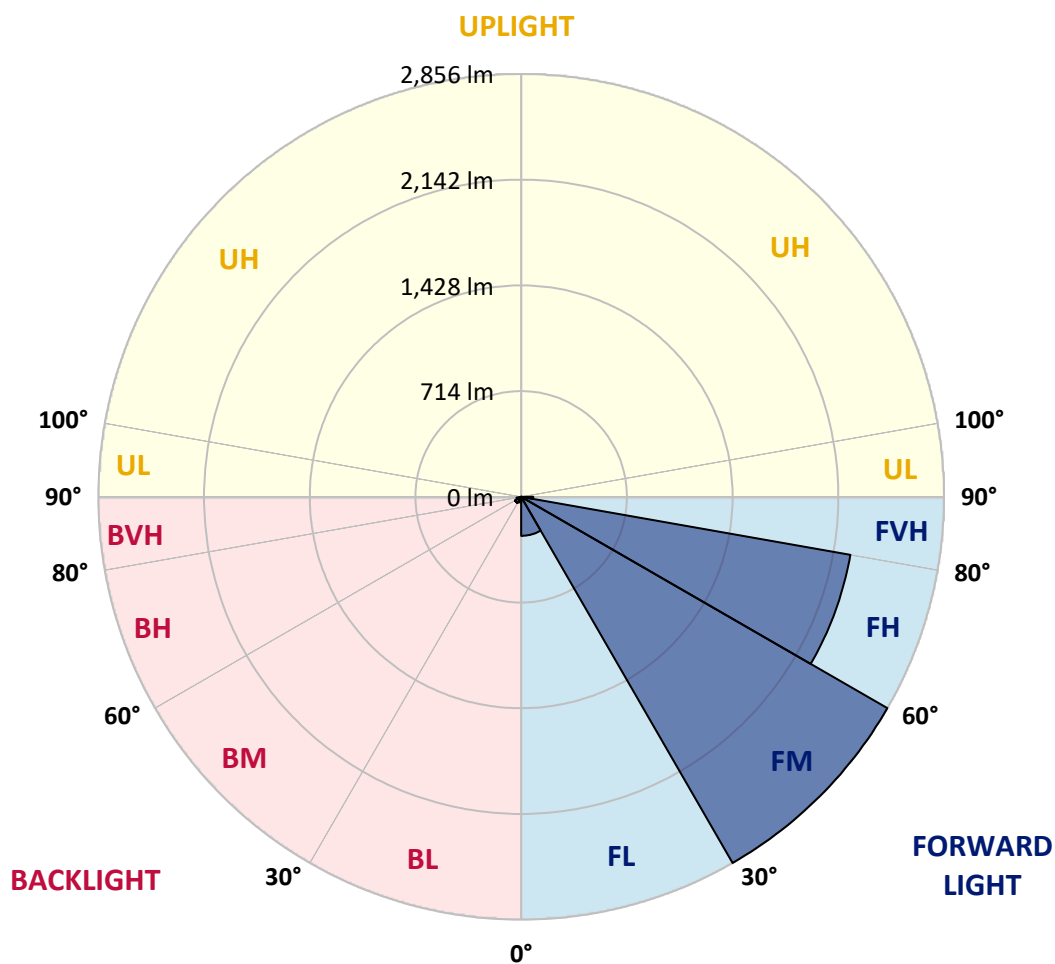
CATALOG NUMBER: VST-E03-LED-E-U-SL2-HSS-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.5	4.7			
FM	(30°-60°)	2856.0	51.2			
FH	(60°-80°)	2257.9	40.5			G2/5000
FVH	(80°-90°)	81.1	1.5			G1/100
BL	(0°-30°)	38.1	0.7	B0/110		
BM	(30°-60°)	47.7	0.9	B0/220		
BH	(60°-80°)	32.5	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°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
2.5°	279.8	282.8	280.8	275.8	269.6	261.6	254.5	254.5	253.4	250.4	251.5
5°	367.0	368.0	364.0	351.8	340.6	323.4	304.1	302.1	300.1	297.1	296.1
7.5°	452.2	456.2	452.2	439.0	416.7	390.4	359.9	356.9	350.8	350.8	346.7
10°	539.4	539.4	535.3	520.1	499.8	462.3	423.8	418.7	411.7	409.6	403.5
12.5°	601.2	601.2	599.2	591.1	574.9	541.4	494.8	489.7	480.6	477.5	470.4
15°	625.5	625.5	626.6	633.7	634.7	619.5	570.8	566.7	557.6	549.5	546.5
17.5°	640.7	639.7	639.7	649.9	668.1	678.3	646.8	642.8	632.6	628.6	618.4
20°	674.2	672.2	666.1	666.1	683.3	718.8	718.8	717.8	706.7	703.6	698.5
22.5°	723.9	721.9	703.6	688.4	696.5	741.1	782.7	780.7	776.6	772.6	769.5
25°	805.0	797.9	766.4	721.9	714.8	762.4	831.4	836.5	839.5	839.5	841.5
27.5°	927.7	918.5	862.8	779.7	748.2	796.9	885.1	895.3	904.3	906.4	915.5
30°	1098.0	1081.8	1001.7	880.0	808.1	847.6	964.2	975.4	988.5	992.6	1006.7
32.5°	1377.8	1368.7	1291.7	1109.1	955.0	947.0	1074.7	1088.9	1106.1	1113.2	1130.4
35°	1803.7	1805.7	1742.8	1578.5	1365.7	1254.1	1272.4	1284.5	1290.6	1311.9	1321.0
37.5°	2092.6	2097.6	2111.8	2047.0	1894.9	1781.3	1638.4	1651.6	1620.1	1623.1	1624.2
40°	2250.7	2266.9	2350.1	2413.0	2400.8	2334.9	2220.3	2227.4	2168.6	2155.4	2091.5
42.5°	2356.1	2377.4	2510.3	2704.9	2804.3	2864.1	2837.8	2834.7	2789.1	2771.8	2718.1
45°	2422.1	2441.3	2608.6	2895.5	3124.7	3299.0	3371.0	3379.1	3340.6	3323.3	3278.8
47.5°	2419.0	2441.3	2620.7	2966.5	3304.1	3582.9	3785.7	3795.8	3819.1	3803.9	3806.9
50°	2285.2	2306.5	2487.0	2845.9	3251.4	3712.7	4083.8	4116.2	4153.7	4179.1	4191.2
52.5°	2123.0	2138.2	2298.4	2639.0	3026.3	3658.9	4260.1	4315.9	4371.7	4419.4	4452.8
55°	2063.2	2080.4	2206.1	2489.0	2845.9	3433.9	4342.3	4424.4	4503.5	4581.6	4645.4
57.5°	2094.6	2110.8	2201.0	2418.0	2738.4	3196.6	4365.6	4493.3	4623.1	4749.8	4875.5
60°	2210.2	2227.4	2304.5	2483.9	2710.0	3059.8	4274.3	4486.3	4702.2	4923.2	5131.1
62.5°	2164.6	2171.6	2285.2	2599.5	2912.8	2943.2	3942.8	4238.9	4568.4	4909.1	5244.6
63°	2120.9	2129.1	2244.7	2568.1	2974.6	2926.0	3840.4	4152.7	4500.4	4867.4	5232.5
65°	1923.3	1924.3	2012.5	2268.0	2905.7	2956.4	3384.2	3682.3	4081.7	4521.7	4983.1
67.5°	1435.6	1428.5	1513.7	1708.3	2281.1	2957.4	2904.7	3072.0	3349.7	3740.1	4153.7
70°	509.0	497.8	635.7	905.3	1421.4	2419.0	2496.1	2507.2	2584.3	2795.2	3054.7
72.5°	165.2	168.3	202.7	331.6	655.0	1628.2	2259.8	2225.4	2205.1	2204.1	2238.5
75°	65.9	66.9	81.1	147.0	294.1	784.7	1979.0	1998.2	2005.4	2015.5	2026.7
77.5°	31.4	34.5	45.6	82.1	146.0	388.3	1416.4	1579.6	1672.8	1744.9	1788.4
80°	11.2	13.2	25.4	50.6	67.9	178.4	746.2	900.3	1037.2	1213.6	1365.7
82.5°	0.0	0.0	5.0	35.5	37.5	72.0	306.2	358.9	410.6	532.3	683.3
85°	0.0	0.0	0.0	10.1	11.2	12.2	103.4	124.7	139.9	163.2	188.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	6.1	15.2	23.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
2.5°	249.4	248.4	248.4	246.4	245.3	243.3	242.3	239.2	238.3	238.3	238.3
5°	295.0	290.9	289.0	283.9	280.8	279.8	274.8	272.8	269.6	270.7	265.6
7.5°	345.7	338.6	335.6	328.4	326.5	319.3	317.3	312.2	309.2	303.2	301.1
10°	401.5	392.3	387.3	376.1	373.1	368.0	361.9	355.9	350.8	344.7	341.7
12.5°	465.4	457.3	453.2	438.0	430.9	423.8	415.7	407.6	399.4	394.4	387.3
15°	540.4	527.2	523.1	509.0	496.8	487.7	476.5	466.4	460.3	450.2	443.0
17.5°	614.4	601.2	598.2	576.9	563.7	557.6	545.5	532.3	521.1	511.0	499.8
20°	688.4	679.3	671.2	650.9	636.7	626.6	610.3	597.1	588.0	573.8	559.6
22.5°	762.4	753.2	747.2	725.9	712.7	698.5	684.4	670.1	657.0	639.7	623.5
25°	838.5	832.4	829.3	810.1	797.9	784.7	770.5	754.3	738.1	718.8	701.6
27.5°	917.5	919.6	913.4	909.4	896.2	887.1	864.8	853.7	841.5	818.2	796.9
30°	1017.9	1024.0	1021.9	1025.0	1016.9	1010.8	993.5	979.4	965.2	942.9	918.5
32.5°	1144.6	1152.8	1156.7	1168.0	1163.9	1161.9	1156.7	1136.5	1126.4	1087.9	1077.7
35°	1340.3	1336.3	1353.5	1362.6	1358.5	1356.5	1350.5	1339.3	1327.1	1299.7	1274.4
37.5°	1594.7	1598.8	1604.9	1586.7	1574.5	1573.5	1555.2	1544.1	1526.8	1496.5	1466.0
40°	2061.1	2035.8	2007.4	1930.4	1896.9	1877.6	1823.9	1808.7	1779.2	1737.7	1706.3
42.5°	2667.4	2642.0	2556.9	2428.2	2359.2	2263.9	2220.3	2166.6	2125.0	2057.1	2020.6
45°	3269.6	3196.6	3186.5	3036.5	2951.3	2825.6	2747.5	2657.3	2563.0	2473.8	2408.9
47.5°	3777.6	3761.3	3711.7	3620.4	3541.4	3435.9	3335.5	3196.6	3099.3	2972.6	2856.0
50°	4184.1	4183.1	4164.8	4112.2	4046.3	3961.1	3872.9	3755.3	3644.8	3489.7	3365.0
52.5°	4488.3	4504.5	4510.6	4494.4	4469.0	4394.0	4349.4	4251.1	4157.8	4025.9	3891.1
55°	4711.3	4771.1	4801.6	4836.1	4829.0	4802.6	4800.6	4736.6	4694.1	4589.6	4494.4
57.5°	4987.1	5085.4	5179.7	5347.0	5353.1	5411.9	5442.4	5472.8	5480.8	5439.2	5407.9
60°	5337.8	5538.6	5717.0	6066.8	6158.1	6302.0	6395.3	6496.7	6582.8	6590.0	6587.9
62.5°	5585.2	5894.5	6182.4	6701.5	6878.9	7045.2	7169.9	7268.3	7328.0	7388.9	7417.3
63°	5592.4	5931.0	6237.2	6772.5	6959.0	7117.2	7235.8	7327.1	7389.9	7426.4	7444.7
65°	5421.1	5831.6	6196.6	6729.9	6905.3	7064.5	7126.3	7186.1	7216.6	7230.7	7177.0
67.5°	4594.7	4996.3	5422.0	6018.2	6168.2	6358.8	6409.6	6440.0	6454.1	6451.1	6405.5
70°	3435.9	3772.6	4246.0	4927.3	5126.0	5312.6	5428.1	5477.8	5494.0	5488.9	5421.1
72.5°	2398.7	2596.4	2986.7	3745.1	4015.9	4255.1	4398.1	4472.0	4487.3	4456.9	4394.0
75°	2014.5	2024.7	2112.8	2527.5	2780.9	3036.5	3197.6	3244.3	3213.9	3121.6	2961.5
77.5°	1798.6	1820.9	1820.9	1882.7	1932.4	2003.3	2018.6	1905.0	1773.2	1602.9	1465.0
80°	1508.6	1586.7	1641.4	1687.0	1692.1	1677.9	1640.4	1576.5	1475.1	1345.3	1201.4
82.5°	916.6	1070.6	1133.5	1368.7	1484.2	1562.3	1556.3	1471.1	1394.0	1259.2	1136.5
85°	231.2	249.4	270.7	351.8	394.4	481.6	536.3	561.7	570.8	524.2	474.5
87.5°	22.3	15.2	25.4	19.3	27.4	20.3	27.4	25.4	31.4	33.4	36.5
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°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
2.5°	236.2	235.2	234.2	233.2	232.1	231.2	229.1	229.1	227.1	226.1	225.1
5°	262.6	260.5	259.6	257.5	254.5	252.4	249.4	245.3	242.3	241.3	239.2
7.5°	296.1	290.9	289.0	285.9	281.9	275.8	271.7	268.7	263.6	260.5	254.5
10°	333.5	328.4	322.4	316.3	310.3	303.2	298.0	294.1	285.9	281.9	274.8
12.5°	381.2	372.1	365.0	356.9	348.8	340.6	334.6	322.4	315.3	306.2	300.1
15°	429.8	421.7	413.6	403.5	391.3	378.1	372.1	360.9	351.8	337.6	329.5
17.5°	488.6	473.5	461.3	449.1	438.0	425.8	413.6	396.4	383.3	371.0	354.8
20°	546.5	528.2	515.0	498.8	482.6	463.3	449.1	436.9	418.7	402.5	385.3
22.5°	608.3	590.0	568.7	552.5	530.3	515.0	495.8	475.5	457.3	436.0	414.7
25°	683.3	664.1	639.7	618.4	593.0	571.8	548.5	525.2	502.9	478.6	451.1
27.5°	775.6	755.3	728.9	703.6	670.1	643.8	621.5	590.0	561.7	531.2	499.8
30°	892.1	869.9	837.4	800.9	767.5	738.1	706.7	665.1	633.7	597.1	556.6
32.5°	1044.3	1017.9	974.3	939.8	898.3	859.7	816.1	774.5	730.0	682.3	635.7
35°	1235.9	1211.6	1160.8	1110.2	1064.5	1018.9	964.2	916.6	853.7	795.8	736.0
37.5°	1434.6	1391.0	1344.4	1289.6	1232.8	1178.1	1111.1	1045.3	973.3	910.4	835.4
40°	1661.7	1609.0	1570.4	1511.6	1431.5	1353.5	1291.7	1209.5	1119.3	1035.1	947.0
42.5°	1973.0	1914.2	1845.2	1756.0	1698.2	1606.9	1526.8	1429.5	1310.9	1216.6	1110.2
45°	2332.9	2252.8	2185.9	2099.6	2029.7	1916.2	1822.9	1693.1	1574.5	1450.8	1321.0
47.5°	2743.4	2644.1	2546.8	2461.6	2350.1	2238.5	2120.0	1982.0	1830.0	1694.1	1540.0
50°	3214.9	3073.9	2939.1	2829.7	2676.5	2547.8	2419.0	2263.9	2095.6	1939.4	1764.1
52.5°	3739.0	3575.8	3397.4	3229.1	3051.7	2886.4	2731.3	2552.8	2365.3	2174.7	1979.0
55°	4371.7	4249.0	4039.2	3825.2	3587.9	3367.0	3167.2	2946.2	2718.1	2467.7	2261.9
57.5°	5362.3	5302.4	5127.0	4913.1	4603.9	4335.2	3996.6	3725.9	3395.4	3050.7	2785.0
60°	6704.6	6630.5	6532.2	6358.8	6113.5	5748.5	5375.4	4954.7	4451.8	3974.3	3521.1
62.5°	7420.3	7393.9	7313.9	7194.2	6965.1	6677.2	6301.1	5838.7	5271.0	4691.0	4113.2
63°	7441.6	7408.1	7339.2	7217.5	7015.8	6737.0	6367.9	5918.8	5363.2	4772.2	4182.1
65°	7153.7	7140.5	7070.5	6937.7	6799.9	6586.9	6301.1	5914.7	5448.4	4889.8	4302.7
67.5°	6344.6	6305.0	6197.6	6157.1	6060.8	5912.7	5694.8	5429.1	5095.6	4656.5	4149.7
70°	5366.2	5307.4	5172.6	5100.7	4983.1	4889.8	4757.0	4567.4	4361.5	4055.4	3677.2
72.5°	4329.1	4207.4	4083.8	3896.2	3731.9	3565.7	3418.7	3284.9	3058.7	2935.1	2648.2
75°	2811.4	2590.3	2378.5	2094.6	1839.1	1613.0	1393.0	1281.5	1049.3	955.0	820.2
77.5°	1334.2	1210.5	1044.3	915.5	751.3	613.4	500.8	376.1	295.0	231.2	176.4
80°	1076.7	972.2	871.9	755.3	631.6	503.9	386.3	289.0	204.8	141.9	100.4
82.5°	960.1	846.5	722.9	642.8	558.7	457.3	375.1	306.2	226.1	165.2	112.6
85°	373.1	314.3	242.3	197.7	154.1	126.7	114.6	79.1	61.9	48.7	37.5
87.5°	32.5	26.3	21.3	14.2	15.2	8.1	9.1	6.1	5.0	5.0	4.1
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
2.5°	224.0	223.1	222.0	220.0	220.0	218.0	217.0	216.0	210.8	199.7	190.6
5°	235.2	233.2	231.2	228.1	226.1	223.1	221.0	218.0	206.8	185.6	167.3
7.5°	251.5	247.4	244.4	238.3	235.2	231.2	228.1	223.1	204.8	172.3	147.0
10°	270.7	263.6	258.5	251.5	245.3	240.3	235.2	228.1	202.7	158.2	128.8
12.5°	294.1	285.9	275.8	267.6	259.6	252.4	245.3	236.2	199.7	146.0	114.6
15°	317.3	305.2	298.0	286.9	275.8	265.6	255.5	247.4	200.8	132.8	102.4
17.5°	343.7	331.6	316.3	304.1	292.0	278.8	266.6	250.4	195.7	122.7	93.3
20°	369.0	351.8	337.6	322.4	305.2	289.0	273.7	259.6	191.6	112.6	85.1
22.5°	396.4	376.1	357.9	338.6	317.3	299.1	280.8	262.6	184.5	103.4	78.1
25°	429.8	406.5	380.2	356.9	334.6	312.2	289.0	266.6	177.4	95.3	73.0
27.5°	470.4	440.0	413.6	384.2	352.9	324.5	299.1	274.8	170.3	89.2	67.9
30°	522.1	486.6	449.1	411.7	378.1	345.7	310.3	279.8	163.2	83.1	62.9
32.5°	591.1	546.5	500.8	457.3	412.6	371.0	333.5	294.1	159.1	78.1	57.8
35°	682.3	624.5	568.7	514.0	460.3	409.6	360.9	316.3	159.1	72.0	51.7
37.5°	768.5	701.6	630.6	562.7	498.8	440.0	382.2	328.4	151.1	66.9	46.7
40°	861.7	781.6	698.5	618.4	541.4	468.4	402.5	340.6	143.9	60.8	41.6
42.5°	1004.7	903.4	794.9	701.6	609.3	519.1	436.9	364.0	134.8	54.7	36.5
45°	1192.3	1063.5	935.8	822.2	704.6	594.1	496.8	406.5	132.8	49.7	31.4
47.5°	1393.0	1240.9	1090.9	945.9	808.1	679.3	562.7	454.2	132.8	44.6	27.4
50°	1592.7	1402.2	1242.0	1073.6	918.5	766.4	627.5	503.9	133.9	40.6	22.3
52.5°	1773.2	1569.4	1390.0	1195.3	1024.0	847.6	696.5	552.5	131.8	35.5	18.2
55°	2023.6	1784.4	1576.5	1361.6	1160.8	962.2	790.8	625.5	132.8	31.4	15.2
57.5°	2485.0	2204.1	1953.7	1671.8	1440.7	1184.2	976.3	775.6	145.0	26.3	11.2
60°	3146.9	2782.0	2430.2	2086.5	1792.5	1487.3	1217.6	981.4	170.3	21.3	8.1
62.5°	3592.0	3114.5	2694.8	2315.6	1973.9	1654.6	1360.6	1091.9	187.6	17.2	5.0
63°	3637.6	3143.9	2722.1	2330.8	1982.0	1662.7	1366.6	1100.0	188.6	16.2	5.0
65°	3723.8	3194.6	2737.4	2333.9	1973.9	1651.6	1362.6	1099.0	190.6	13.2	4.1
67.5°	3625.5	3116.5	2649.2	2246.7	1903.0	1585.6	1311.9	1058.5	189.5	9.1	3.0
70°	3242.3	2820.5	2409.9	2034.8	1722.5	1435.6	1194.3	965.2	174.4	6.1	2.0
72.5°	2380.5	2093.6	1775.3	1504.6	1297.7	1077.7	919.6	724.9	134.8	4.1	1.0
75°	705.6	642.8	540.4	476.5	420.7	347.7	309.2	241.3	68.9	2.0	0.0
77.5°	140.9	127.7	114.6	104.4	98.3	84.2	80.1	65.9	28.4	1.0	0.0
80°	74.0	60.8	51.7	45.6	39.5	32.5	27.4	22.3	5.0	0.0	0.0
82.5°	71.0	47.6	34.5	28.4	24.3	19.3	15.2	11.2	3.0	0.0	0.0
85°	26.3	20.3	15.2	12.2	10.1	9.1	7.1	6.1	0.0	0.0	0.0
87.5°	4.1	3.0	3.0	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°	214.0	214.0	214.0	214.0	214.0	214.0	214.0
2.5°	181.5	173.4	169.3	164.3	164.3	163.2	165.2
5°	151.1	139.9	131.8	125.7	126.7	123.7	124.7
7.5°	127.7	116.6	109.4	105.5	104.4	103.4	103.4
10°	110.5	100.4	94.3	91.3	90.2	90.2	90.2
12.5°	98.3	88.2	83.1	81.1	81.1	80.1	80.1
15°	88.2	80.1	75.1	73.0	73.0	72.0	73.0
17.5°	80.1	72.0	67.9	65.9	65.9	64.9	64.9
20°	73.0	65.9	61.9	58.8	58.8	57.8	58.8
22.5°	66.9	59.8	54.7	52.7	51.7	50.6	51.7
25°	60.8	53.8	48.7	45.6	44.6	44.6	43.6
27.5°	55.8	48.7	42.6	39.5	38.5	38.5	37.5
30°	50.6	42.6	36.5	33.4	32.5	32.5	32.5
32.5°	45.6	36.5	31.4	28.4	27.4	27.4	27.4
35°	40.6	31.4	26.3	23.3	22.3	22.3	22.3
37.5°	34.5	26.3	20.3	18.2	17.2	16.2	16.2
40°	29.4	20.3	15.2	13.2	11.2	11.2	11.2
42.5°	24.3	16.2	11.2	8.1	7.1	6.1	7.1
45°	20.3	12.2	7.1	4.1	3.0	3.0	3.0
47.5°	16.2	8.1	3.0	1.0	1.0	1.0	1.0
50°	12.2	5.0	1.0	0.0	0.0	1.0	1.0
52.5°	9.1	3.0	0.0	0.0	0.0	0.0	0.0
55°	5.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.0	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)