

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: P165038

Luminaire Tested: **VST-E04-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165038
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-E04-LED-E-U-SL2-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7435.8 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 97.2
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

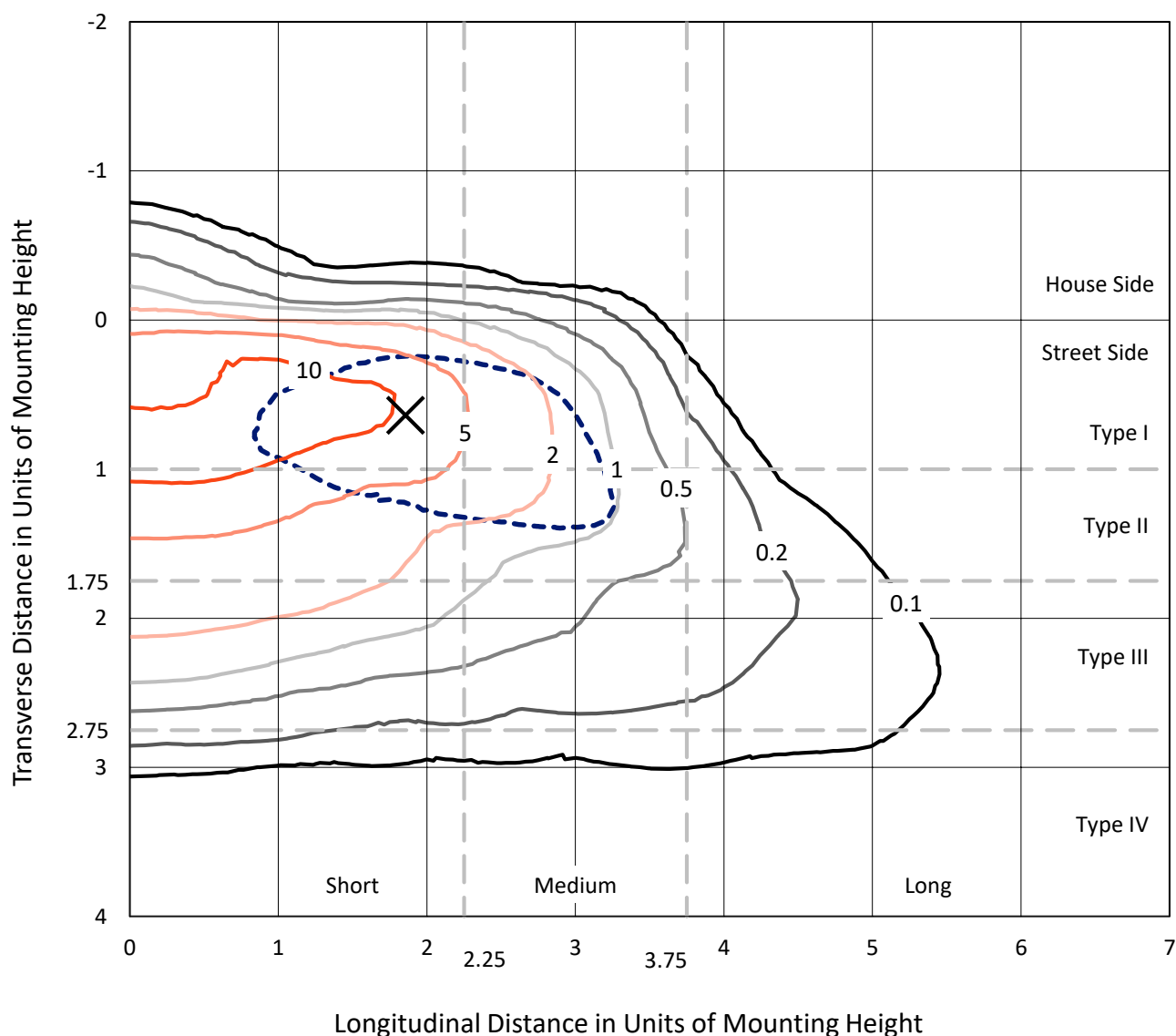


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

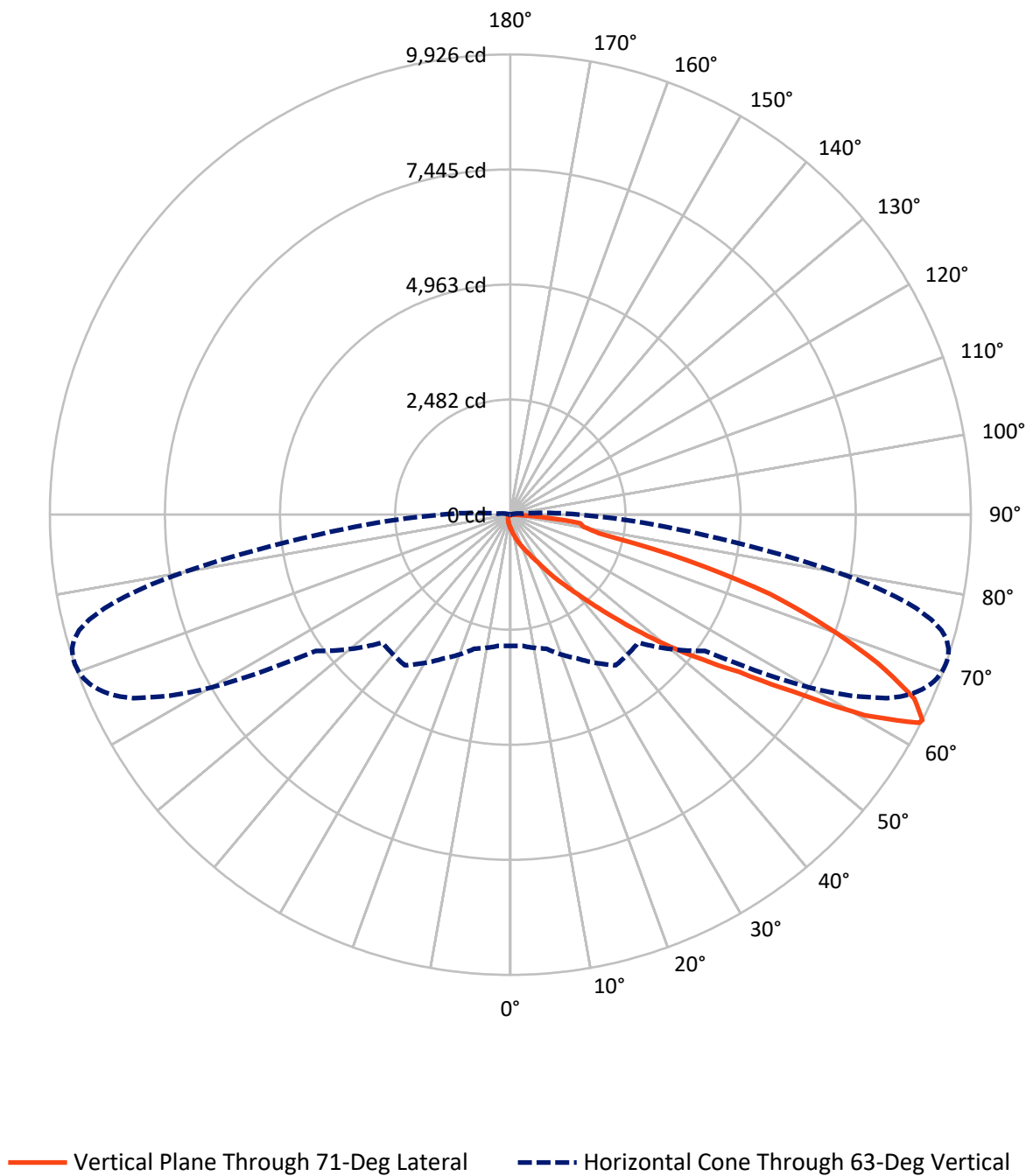


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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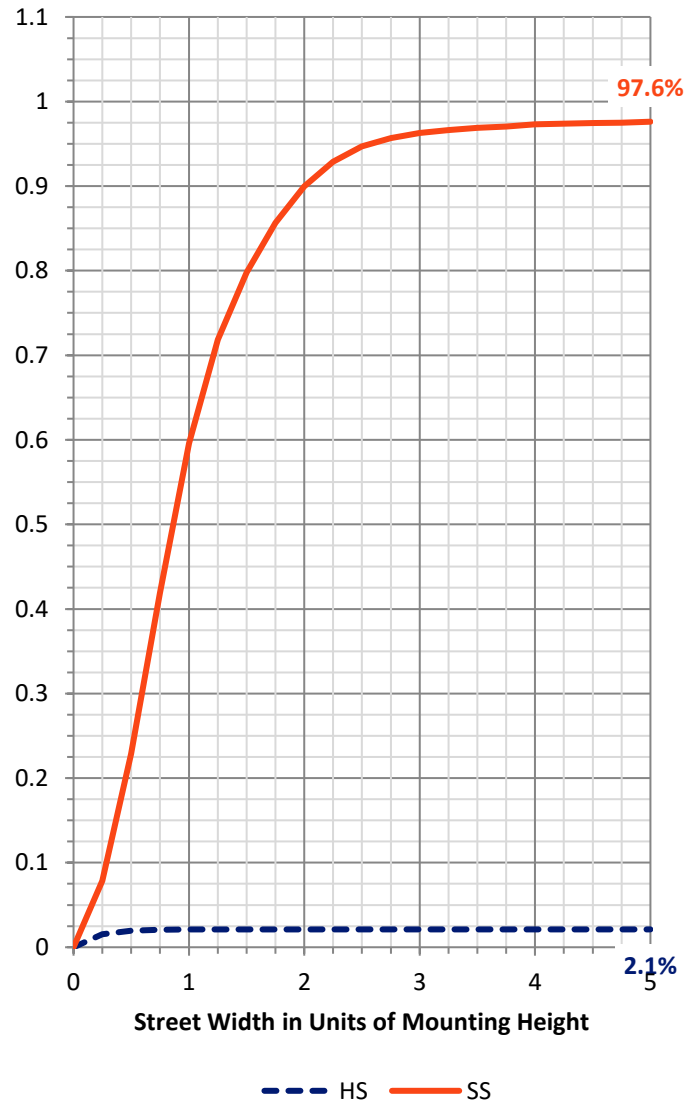
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	157.9	0.0	157.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7278.0	0.0	7278.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	7435.8	0.0	7435.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.5	0.4
10°-20°	122.3	1.6
20°-30°	248.3	3.3
30°-40°	606.7	8.2
40°-50°	1356.9	18.2
50°-60°	1908.0	25.7
60°-70°	2243.6	30.2
70°-80°	810.1	10.9
80°-90°	108.3	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°	7435.8	100.0
0°-180°	7435.8	100.0

Coefficient of Utilization



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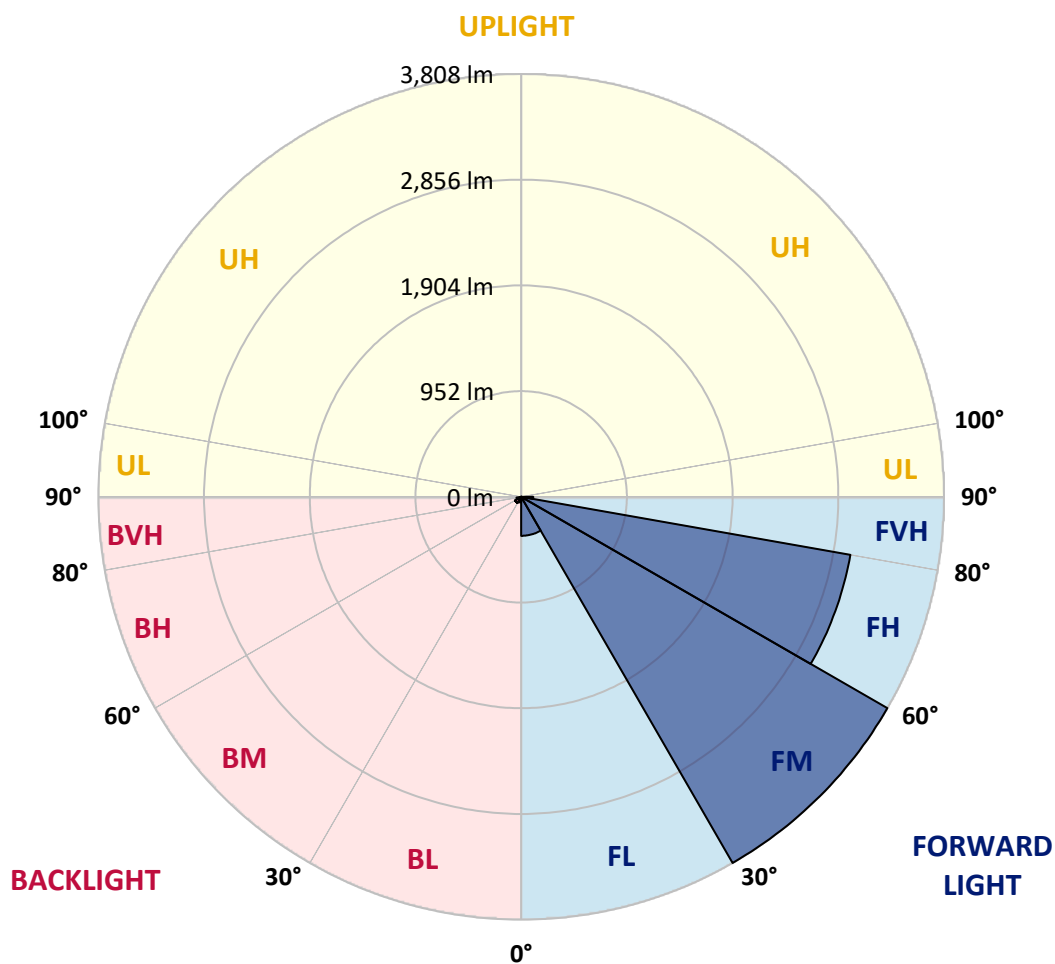
CATALOG NUMBER: VST-E04-LED-E-U-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.4	4.7			
FM	(30°-60°)	3808.0	51.2			
FH	(60°-80°)	3010.5	40.5			G2/5000
FVH	(80°-90°)	108.1	1.5			G2/225
BL	(0°-30°)	50.8	0.7	B0/110		
BM	(30°-60°)	63.6	0.9	B0/220		
BH	(60°-80°)	43.3	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°	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3
2.5°	373.1	377.1	374.4	367.7	359.5	348.8	339.3	339.3	338.0	333.9	335.2
5°	489.3	490.7	485.3	469.1	454.2	431.2	405.5	402.8	400.1	396.1	394.8
7.5°	602.9	608.3	602.9	585.3	555.6	520.4	479.9	475.9	467.7	467.7	462.3
10°	719.2	719.2	713.8	693.5	666.4	616.4	565.0	558.3	548.8	546.1	538.0
12.5°	801.6	801.6	798.9	788.1	766.5	721.9	659.7	652.9	640.8	636.7	627.2
15°	834.0	834.0	835.4	844.9	846.2	826.0	761.0	755.6	743.5	732.6	728.6
17.5°	854.3	853.0	853.0	866.5	890.8	904.4	862.4	857.0	843.5	838.1	824.6
20°	899.0	896.2	888.1	888.1	911.1	958.4	958.4	957.1	942.2	938.1	931.4
22.5°	965.2	962.5	938.1	917.8	928.7	988.2	1043.6	1040.9	1035.5	1030.0	1026.0
25°	1073.3	1063.9	1021.9	962.5	953.0	1016.6	1108.4	1115.3	1119.3	1119.3	1122.0
27.5°	1236.9	1224.8	1150.4	1039.6	997.6	1062.5	1180.1	1193.6	1205.8	1208.5	1220.7
30°	1464.0	1442.4	1335.6	1173.4	1077.4	1130.1	1285.6	1300.4	1318.0	1323.4	1342.3
32.5°	1837.1	1824.9	1722.2	1478.8	1273.4	1262.6	1432.9	1451.8	1474.8	1484.2	1507.2
35°	2404.9	2407.6	2323.8	2104.7	1820.9	1672.1	1696.5	1712.7	1720.8	1749.2	1761.4
37.5°	2790.1	2796.8	2815.8	2729.3	2526.5	2375.1	2184.5	2202.1	2160.2	2164.2	2165.6
40°	3001.0	3022.6	3133.5	3217.3	3201.0	3113.2	2960.4	2969.9	2891.5	2873.9	2788.7
42.5°	3141.5	3169.9	3347.1	3606.6	3739.0	3818.8	3783.7	3779.6	3718.8	3695.8	3624.1
45°	3229.4	3255.1	3478.2	3860.7	4166.2	4398.7	4494.7	4505.5	4454.1	4431.1	4371.7
47.5°	3225.3	3255.1	3494.3	3955.3	4405.5	4777.2	5047.6	5061.1	5092.2	5071.9	5075.9
50°	3047.0	3075.4	3316.0	3794.5	4335.2	4950.3	5445.0	5488.3	5538.3	5572.1	5588.3
52.5°	2830.7	2850.9	3064.5	3518.7	4035.1	4878.6	5680.2	5754.6	5828.9	5892.5	5937.0
55°	2750.9	2773.9	2941.5	3318.7	3794.5	4578.5	5789.7	5899.2	6004.7	6108.8	6193.9
57.5°	2792.8	2814.4	2934.7	3224.0	3651.2	4262.2	5820.8	5991.1	6164.2	6333.1	6500.7
60°	2946.9	2969.9	3072.7	3311.9	3613.4	4079.7	5699.2	5981.7	6269.6	6564.3	6841.4
62.5°	2886.1	2895.5	3047.0	3466.0	3883.7	3924.2	5257.1	5651.9	6091.2	6545.4	6992.8
63°	2827.9	2838.8	2992.9	3424.1	3966.2	3901.3	5120.6	5536.9	6000.6	6489.9	6976.6
65°	2564.4	2565.7	2683.3	3024.0	3874.2	3941.8	4512.3	4909.7	5442.3	6029.0	6644.1
67.5°	1914.1	1904.7	2018.2	2277.8	3041.5	3943.2	3872.9	4096.0	4466.3	4986.8	5538.3
70°	678.6	663.8	847.6	1207.1	1895.2	3225.3	3328.1	3343.0	3445.7	3726.9	4073.0
72.5°	220.3	224.4	270.3	442.0	873.3	2171.0	3013.1	2967.2	2940.2	2938.8	2984.7
75°	87.8	89.2	108.1	196.0	392.1	1046.3	2638.7	2664.3	2673.9	2687.3	2702.3
77.5°	41.9	46.0	60.8	109.5	194.6	517.7	1888.4	2106.1	2230.4	2326.5	2384.6
80°	14.9	17.6	33.8	67.6	90.5	237.9	994.9	1200.4	1382.9	1618.1	1820.9
82.5°	0.0	0.0	6.7	47.3	50.0	96.0	408.2	478.5	547.4	709.7	911.1
85°	0.0	0.0	0.0	13.5	14.9	16.3	137.9	166.3	186.6	217.6	251.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	8.1	20.3	31.1
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3
2.5°	332.5	331.2	331.2	328.5	327.1	324.4	323.1	319.0	317.7	317.7	317.7
5°	393.4	387.9	385.2	378.5	374.4	373.1	366.4	363.7	359.5	360.9	354.1
7.5°	460.9	451.5	447.5	437.9	435.3	425.8	423.1	416.4	412.3	404.2	401.5
10°	535.3	523.1	516.4	501.5	497.5	490.7	482.6	474.5	467.7	459.6	455.6
12.5°	620.5	609.7	604.3	584.0	574.5	565.0	554.3	543.4	532.6	525.9	516.4
15°	720.5	702.9	697.5	678.6	662.4	650.2	635.4	621.8	613.7	600.2	590.7
17.5°	819.2	801.6	797.6	769.2	751.6	743.5	727.3	709.7	694.8	681.3	666.4
20°	917.8	905.7	894.8	867.8	849.0	835.4	813.7	796.2	784.0	765.1	746.2
22.5°	1016.6	1004.4	996.3	967.9	950.3	931.4	912.5	893.5	876.0	853.0	831.4
25°	1118.0	1109.8	1105.7	1080.1	1063.9	1046.3	1027.3	1005.7	984.1	958.4	935.5
27.5°	1223.4	1226.1	1217.9	1212.5	1195.0	1182.8	1153.1	1138.2	1122.0	1090.9	1062.5
30°	1357.2	1365.3	1362.6	1366.7	1355.9	1347.7	1324.7	1305.9	1286.9	1257.2	1224.8
32.5°	1526.2	1537.0	1542.4	1557.3	1551.9	1549.2	1542.4	1515.4	1501.8	1450.5	1437.0
35°	1787.1	1781.6	1804.6	1816.8	1811.4	1808.7	1800.6	1785.8	1769.5	1733.0	1699.2
37.5°	2126.3	2131.8	2139.9	2115.6	2099.3	2098.0	2073.6	2058.8	2035.8	1995.2	1954.7
40°	2748.2	2714.4	2676.6	2573.8	2529.2	2503.5	2431.9	2411.6	2372.4	2316.9	2275.1
42.5°	3556.6	3522.7	3409.2	3237.6	3145.6	3018.6	2960.4	2888.8	2833.4	2742.8	2694.1
45°	4359.6	4262.2	4248.7	4048.6	3935.1	3767.4	3663.4	3543.0	3417.3	3298.4	3211.9
47.5°	5036.8	5015.1	4948.9	4827.2	4721.8	4581.2	4447.4	4262.2	4132.4	3963.5	3808.0
50°	5578.8	5577.5	5553.1	5482.9	5395.0	5281.5	5163.9	5007.1	4859.7	4652.9	4486.6
52.5°	5984.4	6006.0	6014.1	5992.5	5958.7	5858.7	5799.2	5668.0	5543.7	5367.9	5188.2
55°	6281.7	6361.5	6402.1	6448.0	6438.6	6403.5	6400.8	6315.6	6258.8	6119.5	5992.5
57.5°	6649.5	6780.6	6906.3	7129.4	7137.4	7215.9	7256.5	7297.0	7307.8	7252.3	7210.5
60°	7117.1	7384.8	7622.7	8089.2	8210.8	8402.7	8527.1	8662.3	8777.1	8786.7	8784.0
62.5°	7447.0	7859.3	8243.2	8935.3	9171.9	9393.6	9559.9	9691.0	9770.7	9851.8	9889.7
63°	7456.5	7908.0	8316.2	9030.0	9278.7	9489.6	9647.8	9769.4	9853.2	9901.8	9926.2
65°	7228.1	7775.5	8262.1	8973.2	9207.0	9419.3	9501.7	9581.5	9622.1	9641.0	9569.3
67.5°	6126.3	6661.6	7229.4	8024.2	8224.3	8478.4	8546.1	8586.6	8605.5	8601.5	8540.6
70°	4581.2	5030.1	5661.3	6569.7	6834.7	7083.4	7237.5	7303.7	7325.3	7318.6	7228.1
72.5°	3198.3	3461.9	3982.4	4993.5	5354.5	5673.5	5864.1	5962.7	5983.0	5942.5	5858.7
75°	2686.0	2699.6	2817.1	3370.0	3707.9	4048.6	4263.5	4325.7	4285.2	4162.1	3948.6
77.5°	2398.0	2427.8	2427.8	2510.3	2576.5	2671.2	2691.4	2540.0	2364.3	2137.2	1953.4
80°	2011.5	2115.6	2188.6	2249.4	2256.1	2237.2	2187.2	2102.0	1966.8	1793.8	1601.9
82.5°	1222.1	1427.5	1511.3	1824.9	1979.0	2083.1	2075.0	1961.4	1858.7	1679.0	1515.4
85°	308.2	332.5	360.9	469.1	525.9	642.1	715.1	748.9	761.0	698.9	632.7
87.5°	29.7	20.3	33.8	25.7	36.5	27.0	36.5	33.8	41.9	44.6	48.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3
2.5°	315.0	313.6	312.3	311.0	309.6	308.2	305.5	305.5	302.8	301.4	300.1
5°	350.1	347.4	346.1	343.4	339.3	336.6	332.5	327.1	323.1	321.7	319.0
7.5°	394.8	387.9	385.2	381.2	375.8	367.7	362.3	358.2	351.5	347.4	339.3
10°	444.8	437.9	429.9	421.8	413.6	404.2	397.4	392.1	381.2	375.8	366.4
12.5°	508.3	496.1	486.6	475.9	465.0	454.2	446.1	429.9	420.4	408.2	400.1
15°	573.1	562.3	551.6	538.0	521.8	504.2	496.1	481.2	469.1	450.2	439.3
17.5°	651.5	631.3	615.1	598.8	584.0	567.7	551.6	528.6	511.0	494.7	473.2
20°	728.6	704.3	686.7	665.1	643.5	617.8	598.8	582.6	558.3	536.7	513.7
22.5°	811.0	786.7	758.3	736.7	707.0	686.7	661.1	634.0	609.7	581.3	552.9
25°	911.1	885.4	853.0	824.6	790.8	762.4	731.3	700.2	670.5	638.1	601.5
27.5°	1034.2	1007.1	971.9	938.1	893.5	858.4	828.7	786.7	748.9	708.3	666.4
30°	1189.5	1159.8	1116.6	1067.9	1023.3	984.1	942.2	886.8	844.9	796.2	742.2
32.5°	1392.4	1357.2	1299.0	1253.1	1197.7	1146.3	1088.2	1032.8	973.3	909.8	847.6
35°	1647.8	1615.4	1547.8	1480.2	1419.4	1358.6	1285.6	1222.1	1138.2	1061.2	981.4
37.5°	1912.8	1854.6	1792.5	1719.5	1643.7	1570.8	1481.5	1393.7	1297.7	1213.9	1113.9
40°	2215.6	2145.3	2093.9	2015.5	1908.7	1804.6	1722.2	1612.7	1492.4	1380.2	1262.6
42.5°	2630.6	2552.2	2460.3	2341.3	2264.2	2142.6	2035.8	1906.0	1747.8	1622.1	1480.2
45°	3110.5	3003.7	2914.5	2799.5	2706.3	2554.9	2430.6	2257.5	2099.3	1934.4	1761.4
47.5°	3657.9	3525.5	3395.7	3282.1	3133.5	2984.7	2826.6	2642.8	2440.0	2258.8	2053.4
50°	4286.5	4098.6	3918.8	3772.9	3568.7	3397.1	3225.3	3018.6	2794.1	2585.9	2352.1
52.5°	4985.4	4767.8	4529.9	4305.5	4068.9	3848.6	3641.7	3403.8	3153.8	2899.6	2638.7
55°	5828.9	5665.3	5385.6	5100.3	4783.9	4489.3	4223.0	3928.3	3624.1	3290.3	3015.8
57.5°	7149.7	7069.9	6836.0	6550.8	6138.5	5780.3	5328.8	4967.8	4527.2	4067.6	3713.4
60°	8939.4	8840.7	8709.6	8478.4	8151.3	7664.7	7167.2	6606.2	5935.7	5299.1	4694.8
62.5°	9893.8	9858.6	9751.9	9592.3	9286.8	8902.9	8401.4	7784.9	7028.0	6254.7	5484.2
63°	9922.1	9877.5	9785.6	9623.4	9354.4	8982.7	8490.6	7891.7	7151.0	6362.9	5576.1
65°	9538.3	9520.7	9427.4	9250.3	9066.5	8782.6	8401.4	7886.3	7264.5	6519.7	5737.0
67.5°	8459.5	8406.8	8263.5	8209.4	8081.0	7883.6	7593.0	7238.8	6794.1	6208.8	5532.8
70°	7155.0	7076.6	6896.8	6800.9	6644.1	6519.7	6342.6	6089.8	5815.4	5407.2	4903.0
72.5°	5772.1	5609.9	5445.0	5195.0	4976.0	4754.2	4558.2	4379.8	4078.3	3913.4	3530.9
75°	3748.5	3453.8	3171.3	2792.8	2452.1	2150.7	1857.3	1708.7	1399.1	1273.4	1093.6
77.5°	1778.9	1614.0	1392.4	1220.7	1001.6	817.8	667.8	501.5	393.4	308.2	235.2
80°	1435.6	1296.3	1162.5	1007.1	842.1	671.8	515.0	385.2	273.0	189.2	133.8
82.5°	1280.2	1128.7	963.8	857.0	744.9	609.7	500.2	408.2	301.4	220.3	150.1
85°	497.5	419.1	323.1	263.6	205.5	168.9	152.8	105.4	82.5	64.8	50.0
87.5°	43.3	35.1	28.4	19.0	20.3	10.8	12.1	8.1	6.7	6.7	5.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3	285.3
2.5°	298.7	297.4	296.0	293.3	293.3	290.7	289.3	288.0	281.2	266.3	254.1
5°	313.6	311.0	308.2	304.1	301.4	297.4	294.7	290.7	275.7	247.4	223.0
7.5°	335.2	329.8	325.8	317.7	313.6	308.2	304.1	297.4	273.0	229.8	196.0
10°	360.9	351.5	344.7	335.2	327.1	320.4	313.6	304.1	270.3	210.9	171.6
12.5°	392.1	381.2	367.7	356.8	346.1	336.6	327.1	315.0	266.3	194.6	152.8
15°	423.1	406.9	397.4	382.5	367.7	354.1	340.7	329.8	267.7	177.1	136.5
17.5°	458.2	442.0	421.8	405.5	389.3	371.8	355.5	333.9	260.9	163.6	124.4
20°	492.0	469.1	450.2	429.9	406.9	385.2	365.0	346.1	255.5	150.1	113.5
22.5°	528.6	501.5	477.2	451.5	423.1	398.8	374.4	350.1	246.0	137.9	104.1
25°	573.1	542.0	506.9	475.9	446.1	416.4	385.2	355.5	236.6	127.1	97.4
27.5°	627.2	586.7	551.6	512.3	470.4	432.6	398.8	366.4	227.1	118.9	90.5
30°	696.2	648.8	598.8	548.8	504.2	460.9	413.6	373.1	217.6	110.8	83.8
32.5°	788.1	728.6	667.8	609.7	550.2	494.7	444.8	392.1	212.2	104.1	77.1
35°	909.8	832.7	758.3	685.4	613.7	546.1	481.2	421.8	212.2	96.0	69.0
37.5°	1024.6	935.5	840.8	750.2	665.1	586.7	509.6	437.9	201.4	89.2	62.2
40°	1149.0	1042.2	931.4	824.6	721.9	624.5	536.7	454.2	191.9	81.1	55.4
42.5°	1339.6	1204.5	1059.8	935.5	812.4	692.1	582.6	485.3	179.8	73.0	48.7
45°	1589.7	1418.0	1247.7	1096.3	939.5	792.2	662.4	542.0	177.1	66.2	41.9
47.5°	1857.3	1654.6	1454.5	1261.2	1077.4	905.7	750.2	605.6	177.1	59.5	36.5
50°	2123.6	1869.6	1656.0	1431.5	1224.8	1021.9	836.7	671.8	178.5	54.1	29.7
52.5°	2364.3	2092.6	1853.3	1593.7	1365.3	1130.1	928.7	736.7	175.8	47.3	24.3
55°	2698.2	2379.2	2102.0	1815.5	1547.8	1282.9	1054.4	834.0	177.1	41.9	20.3
57.5°	3313.3	2938.8	2604.9	2229.1	1920.9	1578.9	1301.8	1034.2	193.3	35.1	14.9
60°	4196.0	3709.3	3240.3	2782.0	2390.0	1983.1	1623.5	1308.6	227.1	28.4	10.8
62.5°	4789.4	4152.7	3593.1	3087.5	2631.9	2206.1	1814.1	1455.8	250.0	23.0	6.7
63°	4850.2	4191.9	3629.5	3107.8	2642.8	2217.0	1822.2	1466.7	251.4	21.6	6.7
65°	4965.1	4259.5	3649.8	3111.8	2631.9	2202.1	1816.8	1465.4	254.1	17.6	5.4
67.5°	4834.0	4155.4	3532.3	2995.6	2537.3	2114.2	1749.2	1411.3	252.8	12.1	4.0
70°	4323.0	3760.7	3213.2	2713.0	2296.7	1914.1	1592.4	1286.9	232.5	8.1	2.7
72.5°	3174.0	2791.4	2367.0	2006.1	1730.3	1437.0	1226.1	966.5	179.8	5.4	1.3
75°	940.8	857.0	720.5	635.4	561.0	463.6	412.3	321.7	91.9	2.7	0.0
77.5°	187.9	170.3	152.8	139.2	131.1	112.2	106.8	87.8	37.8	1.3	0.0
80°	98.7	81.1	69.0	60.8	52.7	43.3	36.5	29.7	6.7	0.0	0.0
82.5°	94.6	63.5	46.0	37.8	32.4	25.7	20.3	14.9	4.0	0.0	0.0
85°	35.1	27.0	20.3	16.3	13.5	12.1	9.4	8.1	0.0	0.0	0.0
87.5°	5.4	4.0	4.0	2.7	2.7	1.3	1.3	1.3	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°	285.3	285.3	285.3	285.3	285.3	285.3	285.3
2.5°	242.0	231.2	225.7	219.0	219.0	217.6	220.3
5°	201.4	186.6	175.8	167.6	168.9	164.9	166.3
7.5°	170.3	155.5	146.0	140.6	139.2	137.9	137.9
10°	147.3	133.8	125.7	121.7	120.3	120.3	120.3
12.5°	131.1	117.6	110.8	108.1	108.1	106.8	106.8
15°	117.6	106.8	100.1	97.4	97.4	96.0	97.4
17.5°	106.8	96.0	90.5	87.8	87.8	86.5	86.5
20°	97.4	87.8	82.5	78.4	78.4	77.1	78.4
22.5°	89.2	79.8	73.0	70.3	69.0	67.6	69.0
25°	81.1	71.7	64.8	60.8	59.5	59.5	58.1
27.5°	74.4	64.8	56.8	52.7	51.4	51.4	50.0
30°	67.6	56.8	48.7	44.6	43.3	43.3	43.3
32.5°	60.8	48.7	41.9	37.8	36.5	36.5	36.5
35°	54.1	41.9	35.1	31.1	29.7	29.7	29.7
37.5°	46.0	35.1	27.0	24.3	23.0	21.6	21.6
40°	39.2	27.0	20.3	17.6	14.9	14.9	14.9
42.5°	32.4	21.6	14.9	10.8	9.4	8.1	9.4
45°	27.0	16.3	9.4	5.4	4.0	4.0	4.0
47.5°	21.6	10.8	4.0	1.3	1.3	1.3	1.3
50°	16.3	6.7	1.3	0.0	0.0	1.3	1.3
52.5°	12.1	4.0	0.0	0.0	0.0	0.0	0.0
55°	6.7	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	4.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	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)