

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: P165063

Luminaire Tested: **VST-F06-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165063
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-F06-LED-E-U-SL2-HSS-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 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: 9207.7 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - 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



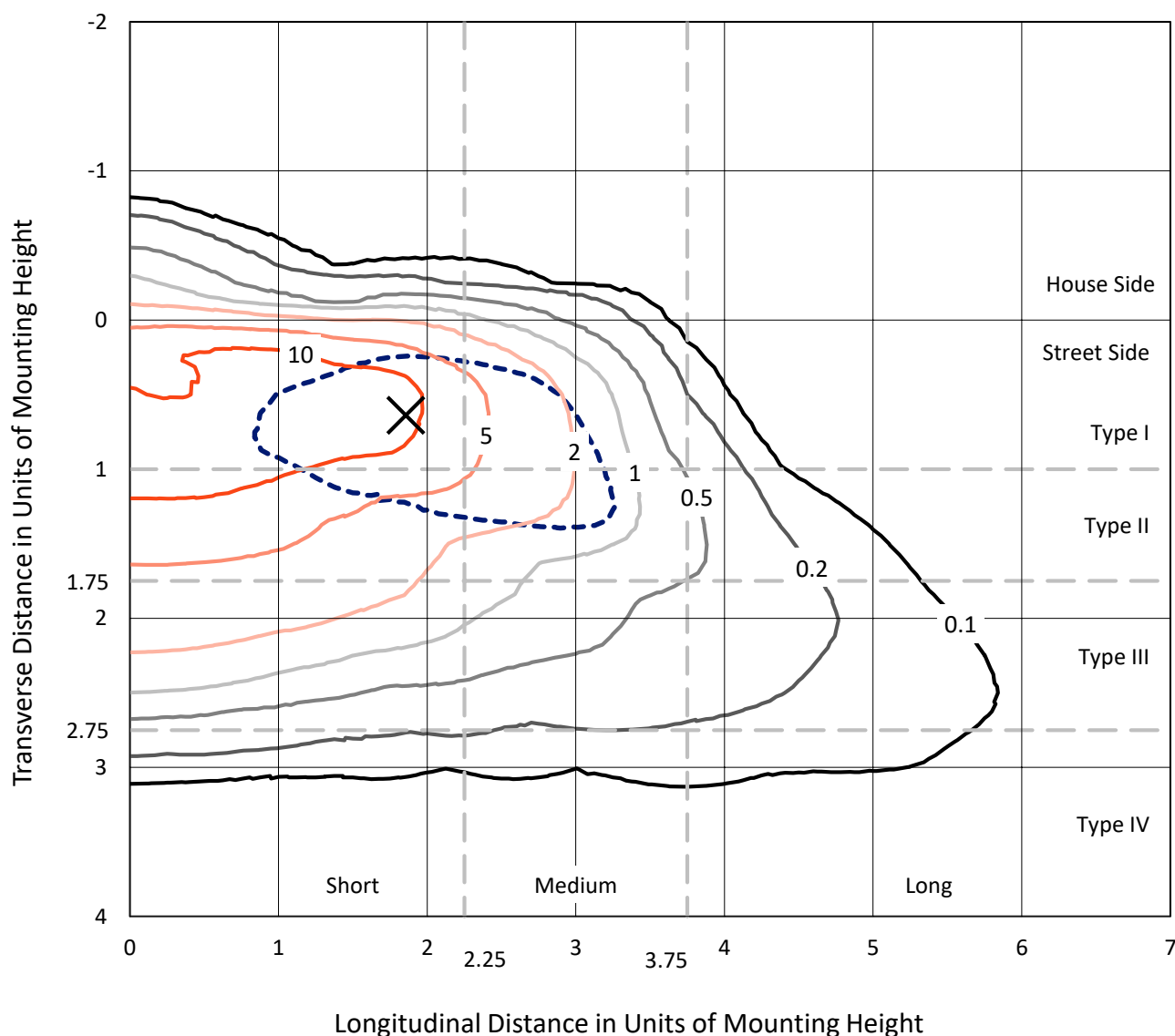
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

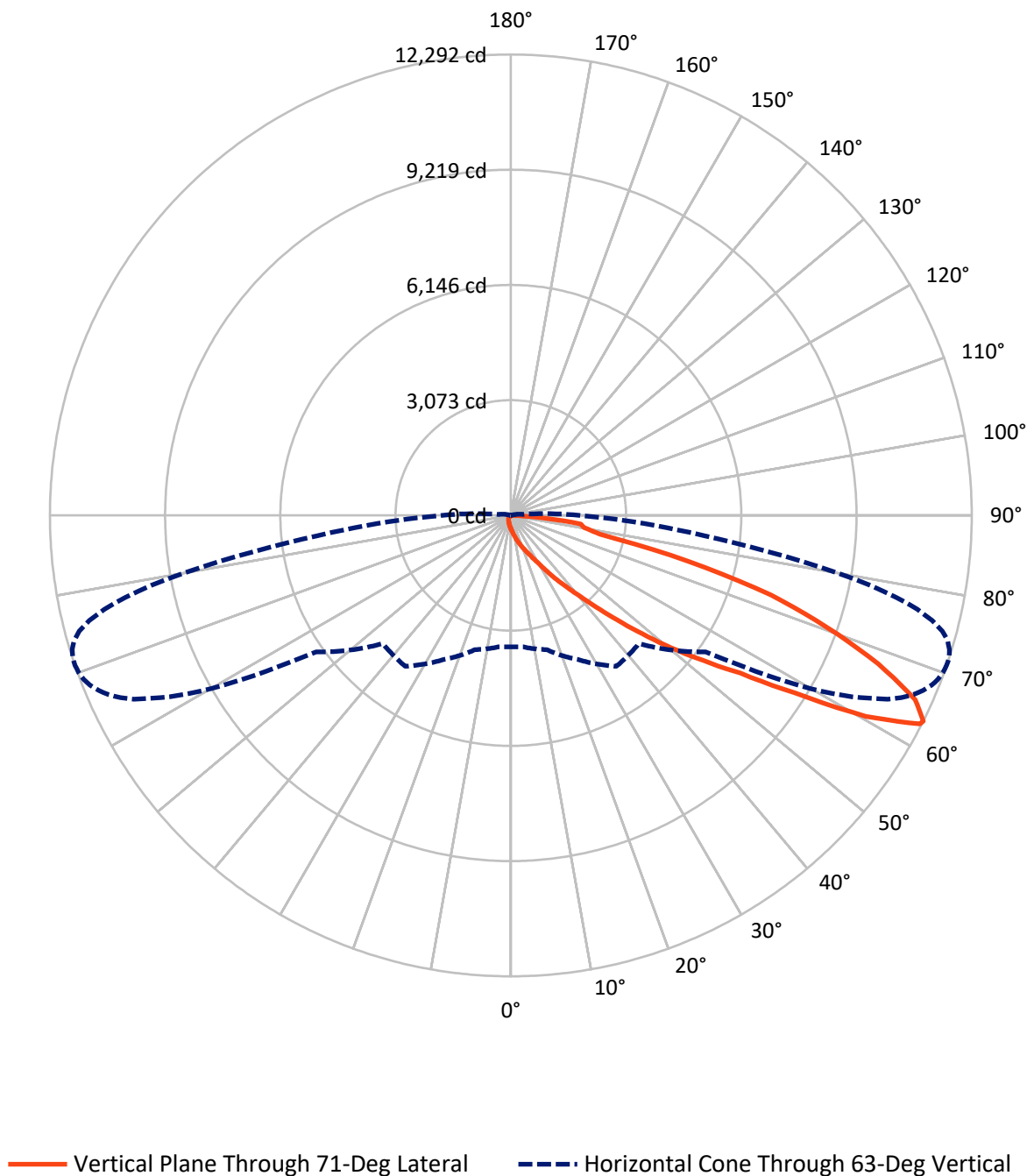


Based on 10 foot mounting height. Maximum calculated value = 19.4 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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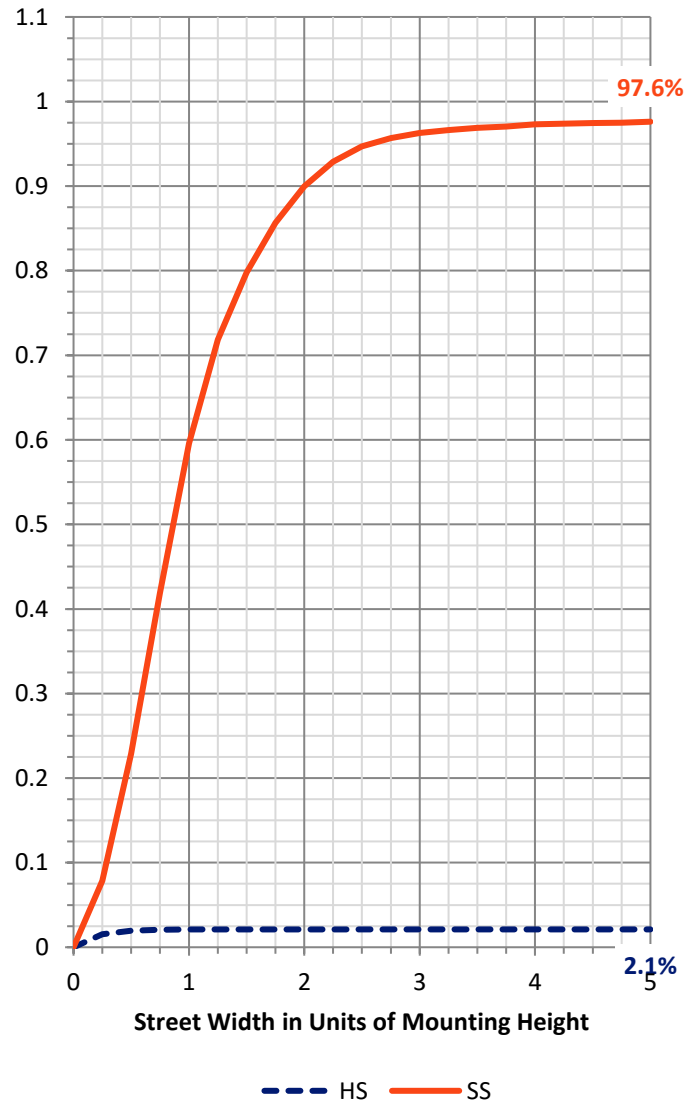
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	195.5	0.0	195.5
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9012.2	0.0	9012.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	9207.7	0.0	9207.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.4
10°-20°	151.4	1.6
20°-30°	307.5	3.3
30°-40°	751.3	8.2
40°-50°	1680.2	18.2
50°-60°	2362.6	25.7
60°-70°	2778.2	30.2
70°-80°	1003.2	10.9
80°-90°	134.1	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°	9207.7	100.0
0°-180°	9207.7	100.0

Coefficient of Utilization



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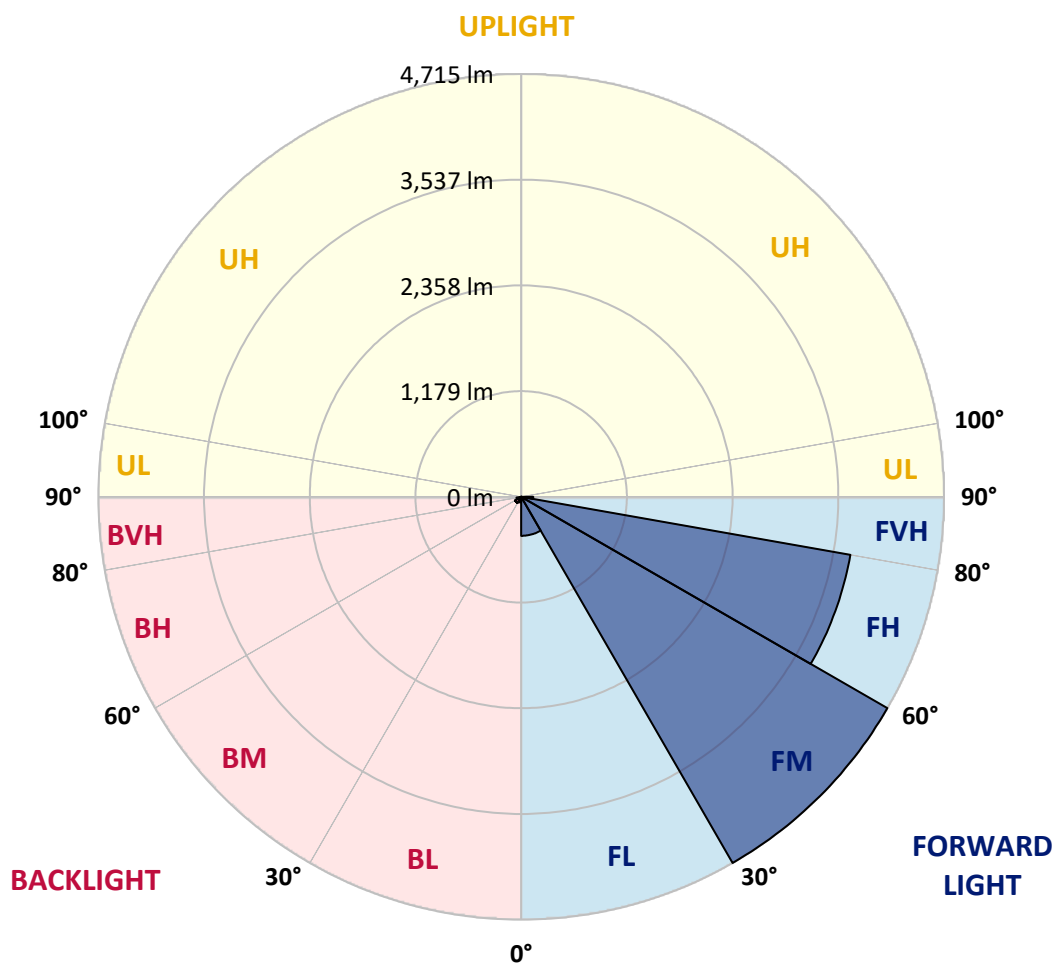
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.1	4.7			
FM	(30°-60°)	4715.4	51.2			
FH	(60°-80°)	3727.8	40.5			G2/5000
FVH	(80°-90°)	133.9	1.5			G2/225
BL	(0°-30°)	62.9	0.7	B0/110		
BM	(30°-60°)	78.7	0.9	B0/220		
BH	(60°-80°)	53.6	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2
2.5°	462.0	467.0	463.6	455.3	445.2	431.9	420.1	420.1	418.5	413.4	415.1
5°	605.9	607.7	600.9	580.8	562.4	534.0	502.1	498.8	495.4	490.5	488.8
7.5°	746.6	753.2	746.6	724.8	688.0	644.5	594.2	589.3	579.2	579.2	572.5
10°	890.5	890.5	883.8	858.7	825.2	763.3	699.7	691.3	679.6	676.3	666.2
12.5°	992.6	992.6	989.2	975.9	949.1	893.9	816.9	808.5	793.5	788.4	776.7
15°	1032.8	1032.8	1034.5	1046.2	1047.9	1022.8	942.4	935.7	920.6	907.2	902.2
17.5°	1057.9	1056.2	1056.2	1073.0	1103.1	1119.9	1067.9	1061.2	1044.5	1037.8	1021.1
20°	1113.2	1109.8	1099.7	1099.7	1128.2	1186.8	1186.8	1185.1	1166.7	1161.6	1153.3
22.5°	1195.2	1191.8	1161.6	1136.5	1150.0	1223.7	1292.3	1288.9	1282.2	1275.5	1270.5
25°	1329.1	1317.4	1265.4	1191.8	1180.1	1258.8	1372.6	1381.0	1386.0	1386.0	1389.3
27.5°	1531.6	1516.6	1424.5	1287.3	1235.3	1315.6	1461.3	1478.1	1493.1	1496.5	1511.5
30°	1812.8	1786.1	1653.8	1453.0	1334.1	1399.4	1591.9	1610.3	1632.1	1638.8	1662.2
32.5°	2274.8	2259.8	2132.6	1831.2	1576.8	1563.5	1774.4	1797.8	1826.2	1837.9	1866.4
35°	2977.9	2981.3	2877.5	2606.3	2254.8	2070.6	2100.8	2120.8	2130.9	2166.0	2181.1
37.5°	3455.0	3463.3	3486.8	3379.6	3128.6	2941.0	2705.0	2726.8	2674.9	2679.9	2681.6
40°	3716.1	3742.8	3880.1	3983.9	3963.8	3855.0	3665.9	3677.6	3580.5	3558.7	3453.2
42.5°	3890.1	3925.3	4144.6	4466.0	4630.0	4728.8	4685.3	4680.2	4604.9	4576.4	4487.7
45°	3999.0	4030.8	4307.0	4780.7	5159.0	5446.9	5565.7	5579.1	5515.5	5487.0	5413.4
47.5°	3993.9	4030.8	4327.0	4897.9	5455.3	5915.6	6250.4	6267.1	6305.6	6280.5	6285.5
50°	3773.0	3808.2	4106.1	4698.6	5368.2	6129.8	6742.5	6796.1	6858.0	6899.8	6920.0
52.5°	3505.2	3530.3	3794.8	4357.2	4996.6	6041.1	7033.7	7125.8	7217.9	7296.6	7351.8
55°	3406.4	3434.8	3642.4	4109.5	4698.6	5669.5	7169.3	7304.9	7435.5	7564.4	7669.8
57.5°	3458.3	3485.0	3634.1	3992.3	4521.2	5277.8	7207.8	7418.8	7633.0	7842.2	8049.8
60°	3649.1	3677.6	3804.8	4101.0	4474.4	5051.9	7057.2	7407.1	7763.5	8128.5	8471.6
62.5°	3573.8	3585.5	3773.0	4291.9	4809.1	4859.3	6509.8	6998.6	7542.7	8105.1	8659.1
63°	3501.8	3515.2	3706.0	4240.0	4911.3	4830.9	6340.8	6856.3	7430.4	8036.4	8639.1
65°	3175.4	3177.0	3322.7	3744.5	4797.4	4881.1	5587.5	6079.6	6739.1	7465.6	8227.3
67.5°	2370.3	2358.6	2499.1	2820.6	3766.3	4882.8	4795.7	5072.0	5530.6	6175.1	6858.0
70°	840.3	821.9	1049.5	1494.7	2346.8	3993.9	4121.2	4139.6	4266.8	4615.0	5043.5
72.5°	272.8	277.9	334.7	547.4	1081.3	2688.3	3731.1	3674.2	3640.8	3639.0	3696.0
75°	108.8	110.5	133.9	242.7	485.5	1295.6	3267.5	3299.2	3311.0	3327.7	3346.2
77.5°	51.8	56.9	75.3	135.6	241.0	641.1	2338.4	2607.9	2761.9	2880.8	2952.8
80°	18.4	21.8	41.9	83.7	112.1	294.6	1232.0	1486.4	1712.4	2003.7	2254.8
82.5°	0.0	0.0	8.3	58.5	61.9	118.8	505.5	592.5	677.9	878.8	1128.2
85°	0.0	0.0	0.0	16.8	18.4	20.1	170.8	205.9	231.0	269.5	311.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.0	10.1	25.1	38.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2
2.5°	411.8	410.2	410.2	406.8	405.1	401.7	400.1	395.0	393.4	393.4	393.4
5°	487.1	480.4	477.0	468.7	463.6	462.0	453.7	450.3	445.2	447.0	438.5
7.5°	570.8	559.1	554.1	542.3	539.0	527.3	523.9	515.6	510.6	500.5	497.2
10°	662.9	647.8	639.5	621.0	616.0	607.7	597.6	587.5	579.2	569.1	564.2
12.5°	768.4	754.9	748.2	723.1	711.4	699.7	686.3	672.9	659.5	651.2	639.5
15°	892.2	870.4	863.7	840.3	820.2	805.2	786.8	770.0	759.9	743.3	731.5
17.5°	1014.4	992.6	987.6	952.5	930.7	920.6	900.6	878.8	860.4	843.7	825.2
20°	1136.5	1121.5	1108.1	1074.6	1051.3	1034.5	1007.6	985.9	970.9	947.5	924.0
22.5°	1258.8	1243.7	1233.7	1198.5	1176.8	1153.3	1129.9	1106.5	1084.7	1056.2	1029.5
25°	1384.4	1374.3	1369.2	1337.5	1317.4	1295.6	1272.1	1245.4	1218.6	1186.8	1158.4
27.5°	1514.9	1518.2	1508.2	1501.5	1479.7	1464.7	1427.9	1409.5	1389.3	1350.8	1315.6
30°	1680.6	1690.6	1687.3	1692.4	1678.9	1668.9	1640.4	1617.0	1593.6	1556.8	1516.6
32.5°	1889.9	1903.3	1909.9	1928.4	1921.7	1918.3	1909.9	1876.4	1859.7	1796.1	1779.4
35°	2212.9	2206.2	2234.7	2249.7	2243.0	2239.7	2229.7	2211.3	2191.1	2145.9	2104.1
37.5°	2633.0	2639.7	2649.8	2619.7	2599.6	2597.9	2567.8	2549.4	2520.9	2470.7	2420.5
40°	3403.0	3361.2	3314.4	3187.1	3131.9	3100.1	3011.4	2986.2	2937.7	2869.0	2817.2
42.5°	4404.0	4362.2	4221.6	4009.0	3895.2	3737.8	3665.9	3577.1	3508.5	3396.4	3336.1
45°	5398.4	5277.8	5261.1	5013.3	4872.8	4665.2	4536.3	4387.3	4231.7	4084.4	3977.2
47.5°	6237.0	6210.1	6128.2	5977.5	5847.0	5672.8	5507.1	5277.8	5117.1	4907.9	4715.4
50°	6908.2	6906.5	6876.4	6789.3	6680.6	6540.0	6394.3	6200.2	6017.7	5761.6	5555.7
52.5°	7410.4	7437.2	7447.2	7420.4	7378.6	7254.7	7181.1	7018.7	6864.7	6647.0	6424.4
55°	7778.6	7877.4	7927.6	7984.5	7972.8	7929.3	7926.0	7820.5	7750.2	7577.7	7420.4
57.5°	8234.0	8396.3	8551.9	8828.2	8838.2	8935.4	8985.6	9035.8	9049.1	8980.5	8928.7
60°	8813.1	9144.6	9439.1	10016.7	10167.3	10405.0	10559.0	10726.4	10868.6	10880.4	10877.1
62.5°	9221.5	9732.1	10207.5	11064.5	11357.5	11632.0	11837.8	12000.3	12099.0	12199.4	12246.3
63°	9233.3	9792.4	10297.9	11181.7	11489.7	11750.8	11946.7	12097.4	12201.1	12261.3	12291.5
65°	8950.4	9628.3	10230.9	11111.4	11401.0	11663.8	11765.9	11864.7	11914.9	11938.3	11849.5
67.5°	7586.2	8249.0	8952.0	9936.3	10184.0	10498.7	10582.5	10632.7	10656.1	10651.1	10575.8
70°	5672.8	6228.6	7010.3	8135.2	8463.3	8771.3	8962.1	9044.1	9070.9	9062.5	8950.4
72.5°	3960.5	4286.8	4931.3	6183.4	6630.4	7025.4	7261.4	7383.6	7408.7	7358.5	7254.7
75°	3326.1	3342.8	3488.4	4173.0	4591.5	5013.3	5279.4	5356.5	5306.3	5153.9	4889.5
77.5°	2969.5	3006.4	3006.4	3108.4	3190.5	3307.7	3332.8	3145.2	2927.7	2646.4	2418.8
80°	2490.8	2619.7	2710.1	2785.4	2793.7	2770.3	2708.3	2602.9	2435.5	2221.2	1983.6
82.5°	1513.2	1767.7	1871.5	2259.8	2450.6	2579.4	2569.5	2428.8	2301.6	2079.0	1876.4
85°	381.7	411.8	447.0	580.8	651.2	795.1	885.5	927.3	942.4	865.4	783.4
87.5°	36.8	25.1	41.9	31.8	45.2	33.4	45.2	41.9	51.8	55.2	60.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2
2.5°	390.0	388.3	386.7	385.0	383.3	381.7	378.3	378.3	375.0	373.3	371.6
5°	433.5	430.2	428.6	425.2	420.1	416.8	411.8	405.1	400.1	398.4	395.0
7.5°	488.8	480.4	477.0	472.1	465.3	455.3	448.6	443.6	435.3	430.2	420.1
10°	550.7	542.3	532.3	522.3	512.2	500.5	492.1	485.5	472.1	465.3	453.7
12.5°	629.4	614.4	602.6	589.3	575.8	562.4	552.4	532.3	520.5	505.5	495.4
15°	709.7	696.3	683.0	666.2	646.1	624.3	614.4	595.9	580.8	557.4	544.0
17.5°	806.8	781.7	761.7	741.5	723.1	703.0	683.0	654.5	632.8	612.6	585.9
20°	902.2	872.1	850.3	823.6	796.8	765.0	741.5	721.4	691.3	664.6	636.1
22.5°	1004.3	974.2	939.0	912.3	875.5	850.3	818.6	785.0	754.9	719.8	684.6
25°	1128.2	1096.4	1056.2	1021.1	979.2	944.1	905.6	867.1	830.3	790.1	744.9
27.5°	1280.6	1247.0	1203.5	1161.6	1106.5	1062.9	1026.1	974.2	927.3	877.1	825.2
30°	1473.0	1436.2	1382.6	1322.4	1267.2	1218.6	1166.7	1098.1	1046.2	985.9	919.0
32.5°	1724.2	1680.6	1608.6	1551.7	1483.1	1419.4	1347.5	1278.8	1205.3	1126.6	1049.5
35°	2040.5	2000.4	1916.6	1832.9	1757.6	1682.3	1591.9	1513.2	1409.5	1314.0	1215.2
37.5°	2368.6	2296.6	2219.6	2129.2	2035.4	1945.1	1834.6	1725.8	1607.0	1503.2	1379.3
40°	2743.5	2656.5	2592.9	2495.8	2363.5	2234.7	2132.6	1997.0	1848.0	1709.0	1563.5
42.5°	3257.4	3160.4	3046.5	2899.2	2803.8	2653.1	2520.9	2360.2	2164.3	2008.7	1832.9
45°	3851.7	3719.4	3608.9	3466.6	3351.2	3163.7	3009.7	2795.5	2599.6	2395.4	2181.1
47.5°	4529.6	4365.5	4204.8	4064.2	3880.1	3696.0	3500.2	3272.5	3021.4	2797.1	2542.6
50°	5307.9	5075.2	4852.6	4671.9	4419.1	4206.5	3993.9	3737.8	3459.9	3202.1	2912.6
52.5°	6173.4	5903.9	5609.3	5331.4	5038.4	4765.6	4509.5	4214.9	3905.3	3590.6	3267.5
55°	7217.9	7015.3	6668.9	6315.7	5923.9	5559.1	5229.2	4864.4	4487.7	4074.3	3734.5
57.5°	8853.3	8754.5	8464.9	8111.8	7601.2	7157.6	6598.5	6151.6	5605.9	5036.8	4598.2
60°	11069.6	10947.3	10785.0	10498.7	10093.7	9491.1	8875.1	8180.4	7350.1	6561.8	5813.5
62.5°	12251.4	12207.7	12075.6	11878.0	11499.8	11024.4	10403.4	9640.0	8702.7	7745.2	6791.1
63°	12286.4	12231.2	12117.4	11916.5	11583.4	11123.2	10513.8	9772.2	8855.0	7879.1	6904.8
65°	11811.1	11789.4	11673.8	11454.5	11226.9	10875.3	10403.4	9765.5	8995.5	8073.3	7104.1
67.5°	10475.3	10410.0	10232.6	10165.6	10006.6	9762.2	9402.3	8963.7	8413.1	7688.2	6851.2
70°	8859.9	8762.9	8540.3	8421.4	8227.3	8073.3	7854.0	7540.9	7201.1	6695.6	6071.3
72.5°	7147.6	6946.7	6742.5	6432.9	6161.7	5887.1	5644.4	5423.5	5050.1	4845.9	4372.2
75°	4641.7	4276.8	3927.0	3458.3	3036.5	2663.2	2299.9	2115.8	1732.5	1576.8	1354.2
77.5°	2202.8	1998.6	1724.2	1511.5	1240.3	1012.7	826.9	621.0	487.1	381.7	291.2
80°	1777.6	1605.2	1439.6	1247.0	1042.8	831.9	637.7	477.0	338.1	234.3	165.7
82.5°	1585.2	1397.7	1193.5	1061.2	922.4	754.9	619.3	505.5	373.3	272.8	185.8
85°	616.0	518.9	400.1	326.4	254.4	209.2	189.2	130.5	102.2	80.3	61.9
87.5°	53.6	43.5	35.2	23.5	25.1	13.4	15.0	10.1	8.3	8.3	6.7
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2	353.2
2.5°	369.9	368.3	366.5	363.2	363.2	359.9	358.2	356.6	348.1	329.7	314.7
5°	388.3	385.0	381.7	376.6	373.3	368.3	364.9	359.9	341.4	306.4	276.2
7.5°	415.1	408.4	403.4	393.4	388.3	381.7	376.6	368.3	338.1	284.5	242.7
10°	447.0	435.3	426.8	415.1	405.1	396.7	388.3	376.6	334.7	261.1	212.5
12.5°	485.5	472.1	455.3	441.9	428.6	416.8	405.1	390.0	329.7	241.0	189.2
15°	523.9	503.9	492.1	473.7	455.3	438.5	421.8	408.4	331.5	219.3	169.0
17.5°	567.4	547.4	522.3	502.1	482.1	460.4	440.2	413.4	323.0	202.6	154.0
20°	609.3	580.8	557.4	532.3	503.9	477.0	451.9	428.6	316.3	185.8	140.6
22.5°	654.5	621.0	590.9	559.1	523.9	493.8	463.6	433.5	304.6	170.8	128.9
25°	709.7	671.2	627.7	589.3	552.4	515.6	477.0	440.2	293.0	157.4	120.6
27.5°	776.7	726.5	683.0	634.4	582.6	535.7	493.8	453.7	281.3	147.3	112.1
30°	862.1	803.4	741.5	679.6	624.3	570.8	512.2	462.0	269.5	137.2	103.8
32.5°	975.9	902.2	826.9	754.9	681.3	612.6	550.7	485.5	262.8	128.9	95.4
35°	1126.6	1031.1	939.0	848.7	759.9	676.3	595.9	522.3	262.8	118.8	85.4
37.5°	1268.8	1158.4	1041.2	929.0	823.6	726.5	631.0	542.3	249.4	110.5	77.0
40°	1422.8	1290.5	1153.3	1021.1	893.9	773.3	664.6	562.4	237.7	100.4	68.6
42.5°	1658.8	1491.5	1312.4	1158.4	1006.0	857.0	721.4	600.9	222.6	90.4	60.3
45°	1968.5	1755.9	1545.1	1357.5	1163.4	980.9	820.2	671.2	219.3	82.0	51.8
47.5°	2299.9	2048.8	1801.1	1561.7	1334.1	1121.5	929.0	749.9	219.3	73.7	45.2
50°	2629.7	2315.1	2050.6	1772.7	1516.6	1265.4	1036.1	831.9	221.0	67.0	36.8
52.5°	2927.7	2591.2	2294.9	1973.5	1690.6	1399.4	1150.0	912.3	217.6	58.5	30.1
55°	3341.1	2946.1	2602.9	2248.1	1916.6	1588.6	1305.7	1032.8	219.3	51.8	25.1
57.5°	4102.8	3639.0	3225.6	2760.3	2378.6	1955.1	1612.0	1280.6	239.4	43.5	18.4
60°	5195.8	4593.2	4012.4	3444.9	2959.5	2455.6	2010.3	1620.4	281.3	35.2	13.4
62.5°	5930.6	5142.2	4449.3	3823.2	3259.1	2731.8	2246.3	1802.7	309.6	28.5	8.3
63°	6005.9	5190.8	4494.4	3848.3	3272.5	2745.2	2256.4	1816.2	311.4	26.7	8.3
65°	6148.2	5274.5	4519.5	3853.3	3259.1	2726.8	2249.7	1814.5	314.7	21.8	6.7
67.5°	5985.9	5145.6	4374.0	3709.4	3141.9	2618.0	2166.0	1747.6	313.0	15.0	5.0
70°	5353.1	4656.8	3978.8	3359.5	2843.9	2370.3	1971.9	1593.6	287.9	10.1	3.4
72.5°	3930.4	3456.6	2931.1	2484.1	2142.6	1779.4	1518.2	1196.8	222.6	6.7	1.6
75°	1165.0	1061.2	892.2	786.8	694.7	574.1	510.6	398.4	113.8	3.4	0.0
77.5°	232.7	210.9	189.2	172.4	162.3	139.0	132.2	108.8	46.9	1.6	0.0
80°	122.2	100.4	85.4	75.3	65.3	53.6	45.2	36.8	8.3	0.0	0.0
82.5°	117.2	78.7	56.9	46.9	40.2	31.8	25.1	18.4	5.0	0.0	0.0
85°	43.5	33.4	25.1	20.1	16.8	15.0	11.7	10.1	0.0	0.0	0.0
87.5°	6.7	5.0	5.0	3.4	3.4	1.6	1.6	1.6	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°	353.2	353.2	353.2	353.2	353.2	353.2	353.2
2.5°	299.7	286.2	279.5	271.2	271.2	269.5	272.8
5°	249.4	231.0	217.6	207.6	209.2	204.2	205.9
7.5°	210.9	192.5	180.7	174.1	172.4	170.8	170.8
10°	182.5	165.7	155.6	150.6	149.0	149.0	149.0
12.5°	162.3	145.7	137.2	133.9	133.9	132.2	132.2
15°	145.7	132.2	123.9	120.6	120.6	118.8	120.6
17.5°	132.2	118.8	112.1	108.8	108.8	107.1	107.1
20°	120.6	108.8	102.2	97.1	97.1	95.4	97.1
22.5°	110.5	98.8	90.4	87.0	85.4	83.7	85.4
25°	100.4	88.7	80.3	75.3	73.7	73.7	72.0
27.5°	92.1	80.3	70.3	65.3	63.6	63.6	61.9
30°	83.7	70.3	60.3	55.2	53.6	53.6	53.6
32.5°	75.3	60.3	51.8	46.9	45.2	45.2	45.2
35°	67.0	51.8	43.5	38.5	36.8	36.8	36.8
37.5°	56.9	43.5	33.4	30.1	28.5	26.7	26.7
40°	48.6	33.4	25.1	21.8	18.4	18.4	18.4
42.5°	40.2	26.7	18.4	13.4	11.7	10.1	11.7
45°	33.4	20.1	11.7	6.7	5.0	5.0	5.0
47.5°	26.7	13.4	5.0	1.6	1.6	1.6	1.6
50°	20.1	8.3	1.6	0.0	0.0	1.6	1.6
52.5°	15.0	5.0	0.0	0.0	0.0	0.0	0.0
55°	8.3	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	5.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	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)