

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: P165070

Luminaire Tested: **VST-F07-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165070
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-F07-LED-E-U-SL2-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8835.8 lumens
Efficiency: N/A
Efficacy: 49.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

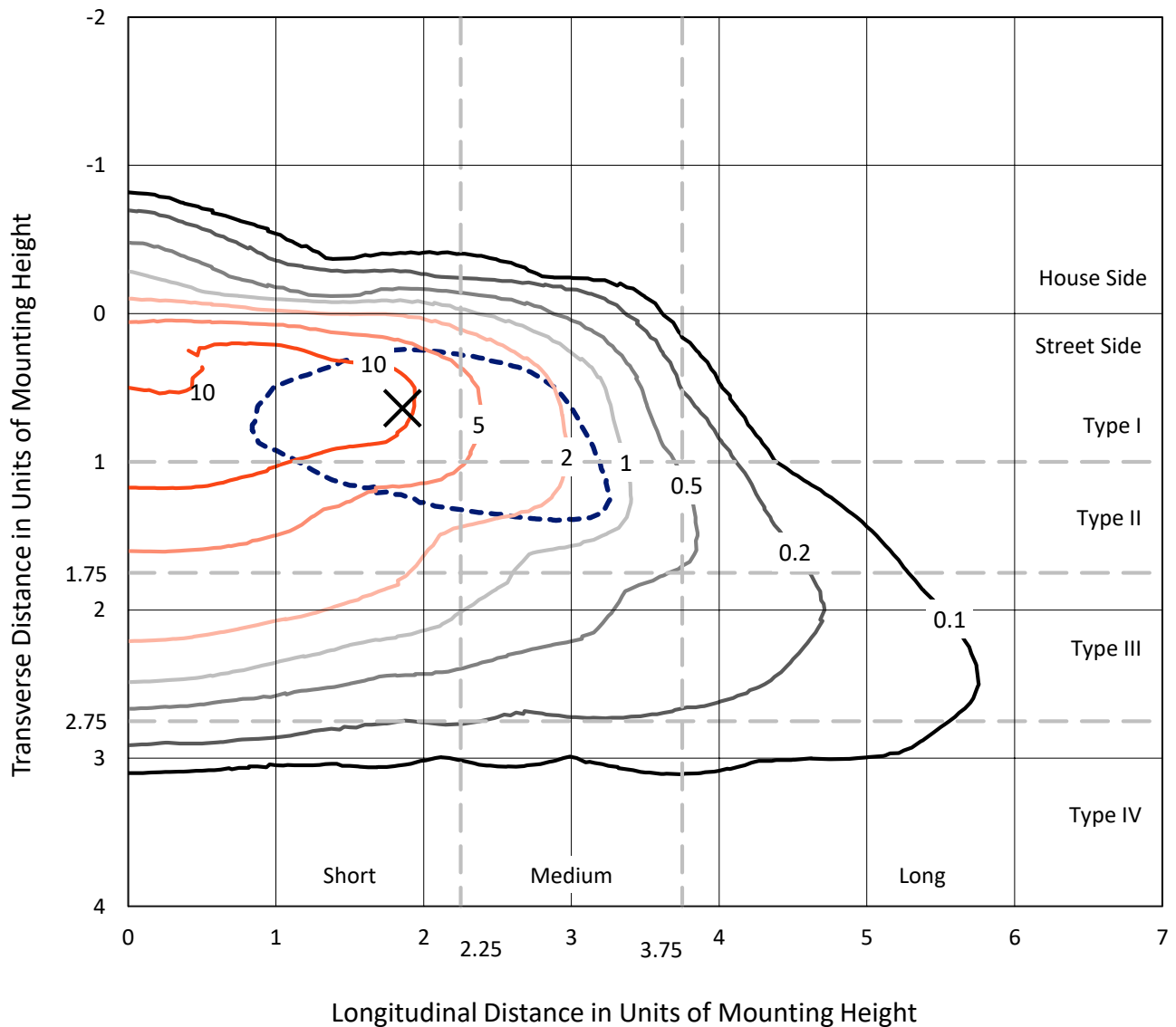
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

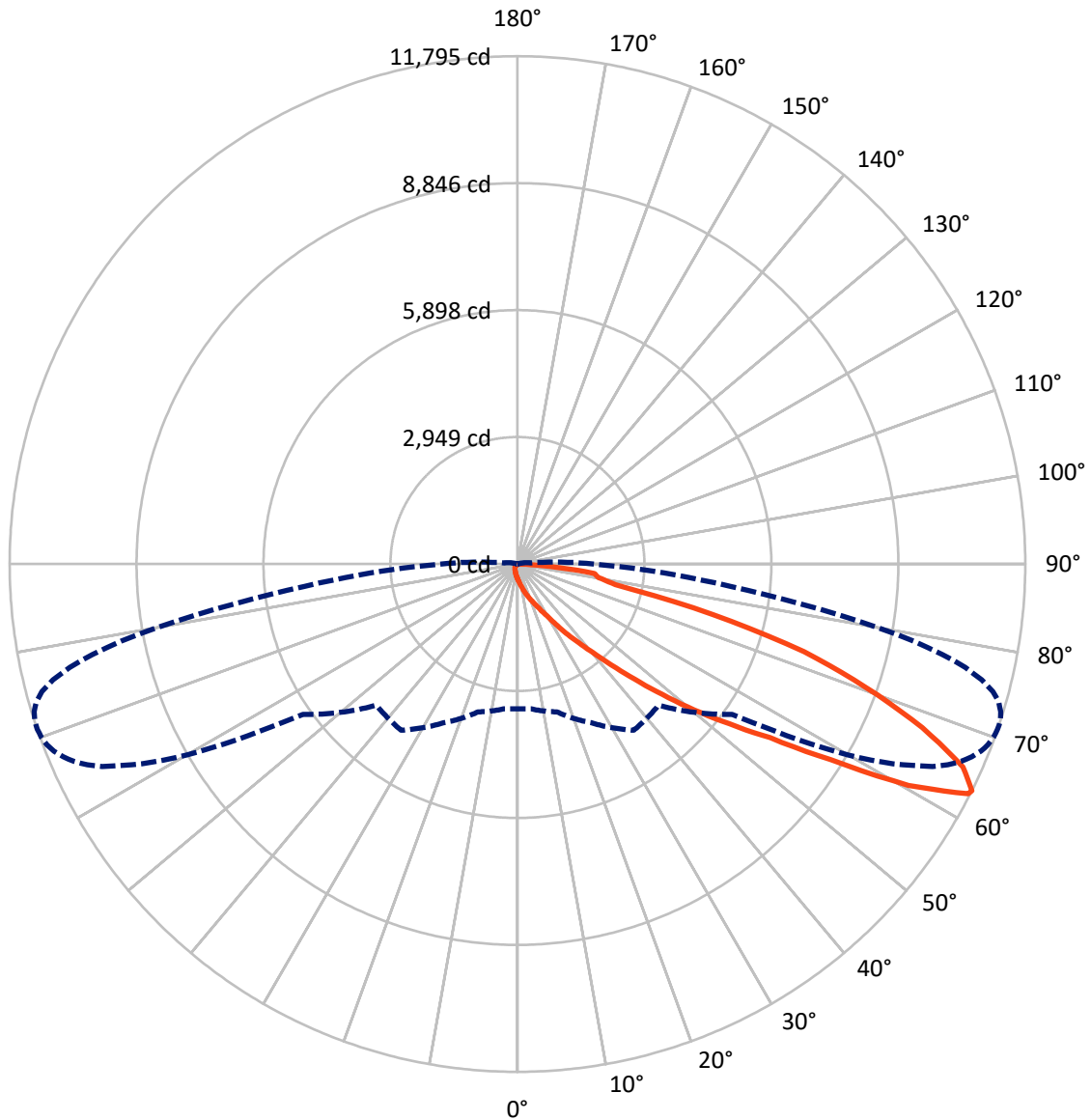
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	187.6	0.0	187.6
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8648.2	0.0	8648.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	8835.8	0.0	8835.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.4
10°-20°	145.3	1.6
20°-30°	295.1	3.3
30°-40°	721.0	8.2
40°-50°	1612.4	18.2
50°-60°	2267.2	25.7
60°-70°	2666.0	30.2
70°-80°	962.7	10.9
80°-90°	128.7	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°	8835.8	100.0
0°-180°	8835.8	100.0



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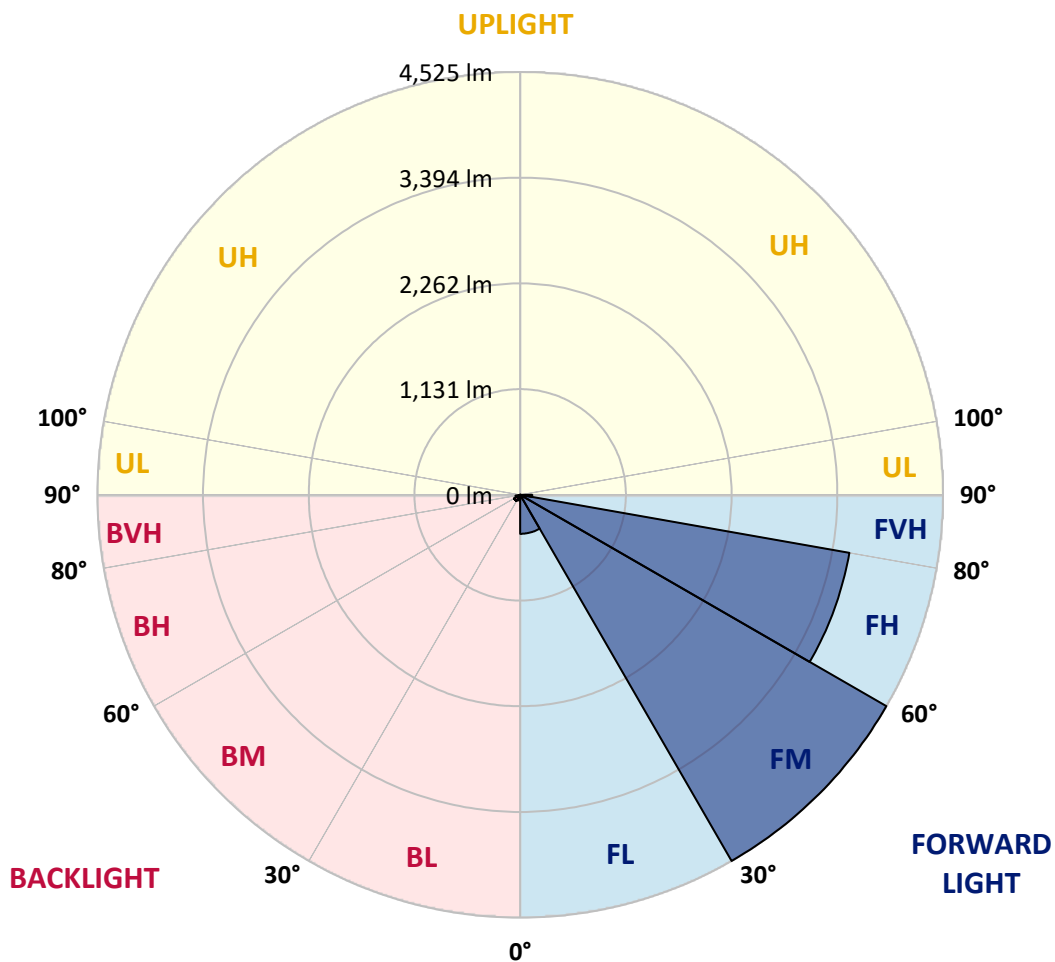
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.5	4.7			
FM	(30°-60°)	4524.9	51.2			
FH	(60°-80°)	3577.3	40.5			G2/5000
FVH	(80°-90°)	128.5	1.5			G2/225
BL	(0°-30°)	60.3	0.7	B0/110		
BM	(30°-60°)	75.6	0.9	B0/220		
BH	(60°-80°)	51.4	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°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	443.3	448.1	444.9	436.9	427.2	414.5	403.1	403.1	401.6	396.7	398.4
5°	581.5	583.1	576.7	557.4	539.7	512.4	481.9	478.6	475.4	470.6	469.1
7.5°	716.5	722.8	716.5	695.5	660.2	618.4	570.2	565.5	555.8	555.8	549.4
10°	854.6	854.6	848.1	824.0	791.9	732.5	671.4	663.4	652.2	649.0	639.3
12.5°	952.5	952.5	949.3	936.5	910.8	857.8	783.9	775.9	761.4	756.5	745.3
15°	991.0	991.0	992.7	1003.9	1005.6	981.5	904.3	897.9	883.4	870.6	865.8
17.5°	1015.1	1013.6	1013.6	1029.7	1058.5	1074.6	1024.8	1018.3	1002.4	995.9	979.8
20°	1068.2	1065.0	1055.3	1055.3	1082.6	1138.8	1138.8	1137.3	1119.6	1114.7	1106.7
22.5°	1146.9	1143.7	1114.7	1090.6	1103.5	1174.2	1240.1	1236.8	1230.4	1224.0	1219.2
25°	1275.4	1264.2	1214.3	1143.7	1132.5	1208.0	1317.1	1325.2	1330.0	1330.0	1333.2
27.5°	1469.8	1455.3	1367.0	1235.3	1185.4	1262.5	1402.3	1418.4	1432.8	1436.0	1450.5
30°	1739.6	1713.9	1587.0	1394.3	1280.3	1342.9	1527.6	1545.3	1566.2	1572.6	1595.0
32.5°	2182.9	2168.5	2046.5	1757.2	1513.1	1500.3	1702.7	1725.1	1752.5	1763.7	1791.0
35°	2857.6	2860.8	2761.2	2501.0	2163.7	1987.0	2015.9	2035.1	2044.8	2078.5	2093.0
37.5°	3315.4	3323.4	3345.9	3243.1	3002.2	2822.2	2595.7	2616.7	2566.8	2571.6	2573.3
40°	3566.0	3591.6	3723.4	3823.0	3803.7	3699.3	3517.8	3529.0	3435.9	3415.0	3313.7
42.5°	3733.0	3766.7	3977.2	4285.6	4443.0	4537.8	4496.0	4491.2	4418.9	4391.6	4306.4
45°	3837.4	3868.0	4133.0	4587.5	4950.6	5226.8	5340.9	5353.7	5292.7	5265.4	5194.7
47.5°	3832.6	3868.0	4152.2	4700.0	5234.9	5676.6	5997.9	6013.9	6050.9	6026.8	6031.6
50°	3620.6	3654.4	3940.2	4508.8	5151.3	5882.2	6470.1	6521.5	6580.9	6621.1	6640.4
52.5°	3363.6	3387.7	3641.5	4181.2	4794.7	5797.1	6749.6	6838.0	6926.3	7001.8	7054.8
55°	3268.8	3296.1	3495.3	3943.5	4508.8	5440.5	6879.7	7009.8	7135.2	7258.9	7360.0
57.5°	3318.6	3344.3	3487.3	3831.0	4338.6	5064.6	6916.7	7119.1	7324.7	7525.4	7724.6
60°	3501.7	3529.0	3651.1	3935.4	4293.6	4847.8	6772.1	7107.9	7449.9	7800.1	8129.4
62.5°	3429.4	3440.6	3620.6	4118.6	4614.9	4663.0	6246.8	6715.9	7238.0	7777.7	8309.3
63°	3360.4	3373.2	3556.3	4068.7	4712.9	4635.7	6084.6	6579.4	7130.3	7711.7	8290.1
65°	3047.1	3048.7	3188.5	3593.3	4603.6	4683.9	5361.8	5834.0	6466.9	7164.0	7894.9
67.5°	2274.5	2263.3	2398.2	2706.6	3614.2	4685.6	4602.0	4867.1	5307.2	5925.6	6580.9
70°	806.4	788.7	1007.1	1434.4	2252.0	3832.6	3954.7	3972.3	4094.5	4428.5	4839.8
72.5°	261.8	266.7	321.2	525.3	1037.7	2579.7	3580.4	3525.8	3493.7	3492.0	3546.7
75°	104.4	106.0	128.5	232.9	465.9	1243.3	3135.5	3166.0	3177.3	3193.3	3211.0
77.5°	49.7	54.6	72.3	130.1	231.3	615.2	2244.0	2502.6	2650.3	2764.5	2833.5
80°	17.7	20.9	40.2	80.3	107.6	282.7	1182.2	1426.4	1643.2	1922.8	2163.7
82.5°	0.0	0.0	8.0	56.2	59.4	114.0	485.1	568.6	650.5	843.3	1082.6
85°	0.0	0.0	0.0	16.1	17.7	19.3	163.9	197.6	221.7	258.6	298.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	9.7	24.1	37.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	395.1	393.6	393.6	390.4	388.7	385.5	383.9	379.1	377.5	377.5	377.5
5°	467.4	461.0	457.8	449.8	444.9	443.3	435.3	432.1	427.2	428.9	420.8
7.5°	547.7	536.5	531.7	520.4	517.3	506.0	502.7	494.7	490.0	480.3	477.1
10°	636.1	621.6	613.6	595.9	591.1	583.1	573.5	563.8	555.8	546.1	541.4
12.5°	737.3	724.5	718.0	693.9	682.7	671.4	658.6	645.7	632.9	624.9	613.6
15°	856.1	835.3	828.8	806.4	787.1	772.6	755.0	738.9	729.2	713.2	701.9
17.5°	973.4	952.5	947.7	914.0	893.1	883.4	864.2	843.3	825.6	809.6	791.9
20°	1090.6	1076.2	1063.3	1031.2	1008.8	992.7	966.9	946.1	931.6	909.2	886.7
22.5°	1208.0	1193.4	1183.9	1150.1	1129.3	1106.7	1084.3	1061.8	1040.9	1013.6	987.9
25°	1328.4	1318.8	1313.9	1283.5	1264.2	1243.3	1220.8	1195.1	1169.3	1138.8	1111.6
27.5°	1453.7	1456.9	1447.2	1440.8	1419.9	1405.5	1370.2	1352.5	1333.2	1296.2	1262.5
30°	1612.7	1622.3	1619.1	1624.0	1611.1	1601.5	1574.1	1551.7	1529.2	1493.9	1455.3
32.5°	1813.5	1826.4	1832.7	1850.5	1844.0	1840.8	1832.7	1800.6	1784.5	1723.6	1707.5
35°	2123.5	2117.1	2144.4	2158.8	2152.4	2149.3	2139.6	2121.9	2102.6	2059.2	2019.1
37.5°	2526.7	2533.1	2542.8	2513.9	2494.6	2493.0	2464.0	2446.4	2419.1	2370.9	2322.7
40°	3265.5	3225.5	3180.5	3058.4	3005.4	2974.9	2889.7	2865.6	2819.0	2753.2	2703.4
42.5°	4226.1	4186.0	4051.1	3847.1	3737.8	3586.9	3517.8	3432.6	3366.8	3259.2	3201.4
45°	5180.3	5064.6	5048.5	4810.8	4675.9	4476.7	4353.1	4210.1	4060.7	3919.4	3816.6
47.5°	5985.0	5959.3	5880.7	5736.0	5610.8	5443.7	5284.7	5064.6	4910.4	4709.7	4524.9
50°	6629.1	6627.6	6598.6	6515.1	6410.7	6275.8	6136.0	5949.7	5774.6	5528.8	5331.3
52.5°	7111.1	7136.7	7146.4	7120.6	7080.5	6961.6	6891.0	6735.1	6587.4	6378.5	6164.9
55°	7464.4	7559.2	7607.4	7662.0	7650.8	7609.0	7605.8	7504.6	7437.2	7271.6	7120.6
57.5°	7901.4	8057.1	8206.5	8471.6	8481.2	8574.4	8622.6	8670.8	8683.6	8617.7	8568.0
60°	8457.1	8775.2	9057.8	9612.1	9756.6	9984.7	10132.5	10293.1	10429.6	10440.9	10437.7
62.5°	8849.0	9339.0	9795.2	10617.6	10898.7	11162.1	11359.7	11515.5	11610.2	11706.6	11751.6
63°	8860.3	9396.8	9881.9	10730.0	11025.6	11276.2	11464.1	11608.7	11708.3	11766.0	11795.0
65°	8588.9	9239.4	9817.6	10662.5	10940.4	11192.7	11290.6	11385.4	11433.6	11456.0	11370.9
67.5°	7279.7	7915.8	8590.4	9534.9	9772.6	10074.6	10155.0	10203.2	10225.6	10220.8	10148.6
70°	5443.7	5977.0	6727.1	7806.6	8121.4	8417.0	8600.1	8678.8	8704.4	8696.4	8588.9
72.5°	3800.5	4113.7	4732.1	5933.6	6362.5	6741.6	6968.1	7085.3	7109.4	7061.2	6961.6
75°	3191.7	3207.8	3347.5	4004.4	4406.0	4810.8	5066.2	5140.1	5091.9	4945.7	4692.0
77.5°	2849.5	2884.9	2884.9	2982.9	3061.6	3174.0	3198.1	3018.2	2809.4	2539.5	2321.1
80°	2390.2	2513.9	2600.6	2672.9	2680.9	2658.4	2598.9	2497.8	2337.1	2131.5	1903.5
82.5°	1452.1	1696.3	1795.9	2168.5	2351.6	2475.3	2465.7	2330.7	2208.7	1995.0	1800.6
85°	366.3	395.1	428.9	557.4	624.9	763.0	849.7	889.9	904.3	830.5	751.8
87.5°	35.3	24.1	40.2	30.5	43.4	32.1	43.4	40.2	49.7	53.0	57.8
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°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	374.3	372.6	371.1	369.5	367.8	366.3	363.1	363.1	359.8	358.2	356.6
5°	416.0	412.8	411.2	408.0	403.1	399.9	395.1	388.7	383.9	382.3	379.1
7.5°	469.1	461.0	457.8	453.0	446.6	436.9	430.5	425.7	417.7	412.8	403.1
10°	528.5	520.4	510.8	501.2	491.5	480.3	472.2	465.9	453.0	446.6	435.3
12.5°	604.0	589.5	578.2	565.5	552.6	539.7	530.0	510.8	499.5	485.1	475.4
15°	681.0	668.2	655.4	639.3	620.0	599.1	589.5	571.8	557.4	534.9	522.1
17.5°	774.2	750.1	730.9	711.6	693.9	674.6	655.4	628.1	607.2	587.9	562.2
20°	865.8	836.9	815.9	790.3	764.6	734.1	711.6	692.3	663.4	637.7	610.4
22.5°	963.7	934.9	901.1	875.4	840.1	815.9	785.5	753.3	724.5	690.7	657.0
25°	1082.6	1052.1	1013.6	979.8	939.6	906.0	869.0	832.0	796.7	758.2	714.8
27.5°	1228.8	1196.7	1154.9	1114.7	1061.8	1020.0	984.7	934.9	889.9	841.7	791.9
30°	1413.5	1378.2	1326.8	1268.9	1216.0	1169.3	1119.6	1053.8	1003.9	946.1	881.9
32.5°	1654.5	1612.7	1543.6	1489.0	1423.2	1362.1	1293.0	1227.2	1156.6	1081.1	1007.1
35°	1958.1	1919.5	1839.2	1758.9	1686.6	1614.3	1527.6	1452.1	1352.5	1260.9	1166.1
37.5°	2272.9	2203.8	2129.9	2043.2	1953.2	1866.5	1760.5	1656.1	1542.1	1442.5	1323.6
40°	2632.7	2549.2	2488.1	2395.0	2268.1	2144.4	2046.5	1916.3	1773.3	1640.0	1500.3
42.5°	3125.9	3032.7	2923.5	2782.1	2690.5	2546.0	2419.1	2264.9	2076.9	1927.5	1758.9
45°	3696.1	3569.2	3463.2	3326.6	3215.8	3035.9	2888.2	2682.5	2494.6	2298.6	2093.0
47.5°	4346.6	4189.2	4035.0	3900.1	3723.4	3546.7	3358.8	3140.3	2899.4	2684.1	2439.9
50°	5093.5	4870.2	4656.6	4483.2	4240.6	4036.6	3832.6	3586.9	3320.2	3072.8	2794.9
52.5°	5924.0	5665.4	5382.7	5116.0	4834.9	4573.1	4327.3	4044.6	3747.5	3445.5	3135.5
55°	6926.3	6731.9	6399.5	6060.5	5684.6	5334.5	5018.0	4667.9	4306.4	3909.7	3583.6
57.5°	8495.7	8400.9	8123.0	7784.1	7294.2	6868.5	6332.0	5903.1	5379.5	4833.4	4412.5
60°	10622.4	10505.1	10349.3	10074.6	9685.9	9107.7	8516.6	7850.0	7053.2	6296.7	5578.7
62.5°	11756.5	11714.6	11587.8	11398.2	11035.2	10579.0	9983.1	9250.6	8351.1	7432.3	6516.7
63°	11790.1	11737.2	11627.9	11435.2	11115.5	10673.8	10089.1	9377.5	8497.3	7560.8	6625.9
65°	11334.0	11313.1	11202.2	10991.8	10773.4	10436.0	9983.1	9371.1	8632.2	7747.2	6817.1
67.5°	10052.2	9989.5	9819.3	9755.0	9602.4	9367.8	9022.5	8601.6	8073.2	7377.7	6574.5
70°	8502.0	8408.9	8195.3	8081.2	7894.9	7747.2	7536.8	7236.3	6910.2	6425.2	5826.0
72.5°	6858.8	6666.1	6470.1	6173.0	5912.8	5649.3	5416.4	5204.4	4846.1	4650.2	4195.6
75°	4454.2	4104.0	3768.4	3318.6	2913.8	2555.6	2207.0	2030.4	1662.5	1513.1	1299.5
77.5°	2113.9	1917.9	1654.5	1450.5	1190.2	971.8	793.5	595.9	467.4	366.3	279.5
80°	1705.8	1540.4	1381.4	1196.7	1000.7	798.3	612.0	457.8	324.4	224.8	159.0
82.5°	1521.2	1341.2	1145.3	1018.3	885.1	724.5	594.3	485.1	358.2	261.8	178.3
85°	591.1	498.0	383.9	313.2	244.2	200.7	181.5	125.2	98.0	77.1	59.4
87.5°	51.4	41.7	33.7	22.5	24.1	12.9	14.4	9.7	8.0	8.0	6.4
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°	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	355.0	353.4	351.7	348.5	348.5	345.4	343.7	342.2	334.1	316.4	302.0
5°	372.6	369.5	366.3	361.4	358.2	353.4	350.2	345.4	327.6	294.0	265.0
7.5°	398.4	391.9	387.1	377.5	372.6	366.3	361.4	353.4	324.4	273.0	232.9
10°	428.9	417.7	409.6	398.4	388.7	380.7	372.6	361.4	321.2	250.6	204.0
12.5°	465.9	453.0	436.9	424.0	411.2	399.9	388.7	374.3	316.4	231.3	181.5
15°	502.7	483.5	472.2	454.6	436.9	420.8	404.8	391.9	318.1	210.4	162.2
17.5°	544.5	525.3	501.2	481.9	462.6	441.8	422.5	396.7	310.0	194.4	147.8
20°	584.7	557.4	534.9	510.8	483.5	457.8	433.7	411.2	303.6	178.3	134.9
22.5°	628.1	595.9	567.0	536.5	502.7	473.9	444.9	416.0	292.3	163.9	123.7
25°	681.0	644.1	602.3	565.5	530.0	494.7	457.8	422.5	281.1	151.0	115.7
27.5°	745.3	697.1	655.4	608.8	559.0	514.1	473.9	435.3	269.9	141.3	107.6
30°	827.3	771.0	711.6	652.2	599.1	547.7	491.5	443.3	258.6	131.7	99.6
32.5°	936.5	865.8	793.5	724.5	653.7	587.9	528.5	465.9	252.1	123.7	91.6
35°	1081.1	989.5	901.1	814.4	729.2	649.0	571.8	501.2	252.1	114.0	81.9
37.5°	1217.5	1111.6	999.1	891.4	790.3	697.1	605.5	520.4	239.4	106.0	73.9
40°	1365.3	1238.4	1106.7	979.8	857.8	742.1	637.7	539.7	228.1	96.4	65.8
42.5°	1591.8	1431.2	1259.4	1111.6	965.4	822.4	692.3	576.7	213.6	86.7	57.8
45°	1889.0	1685.0	1482.7	1302.7	1116.4	941.3	787.1	644.1	210.4	78.7	49.7
47.5°	2207.0	1966.1	1728.4	1498.7	1280.3	1076.2	891.4	719.6	210.4	70.7	43.4
50°	2523.4	2221.5	1967.7	1701.1	1455.3	1214.3	994.3	798.3	212.1	64.3	35.3
52.5°	2809.4	2486.6	2202.2	1893.8	1622.3	1342.9	1103.5	875.4	208.8	56.2	28.9
55°	3206.1	2827.1	2497.8	2157.3	1839.2	1524.4	1252.9	991.0	210.4	49.7	24.1
57.5°	3937.0	3492.0	3095.3	2648.8	2282.5	1876.1	1546.8	1228.8	229.7	41.7	17.7
60°	4985.9	4407.7	3850.3	3305.7	2840.0	2356.4	1929.1	1554.9	269.9	33.7	12.9
62.5°	5691.0	4934.5	4269.6	3668.8	3127.4	2621.5	2155.6	1729.9	297.1	27.3	8.0
63°	5763.3	4981.1	4312.9	3692.9	3140.3	2634.3	2165.3	1742.8	298.8	25.7	8.0
65°	5899.9	5061.4	4337.0	3697.7	3127.4	2616.7	2158.8	1741.2	302.0	20.9	6.4
67.5°	5744.1	4937.7	4197.3	3559.5	3015.0	2512.2	2078.5	1677.0	300.3	14.4	4.8
70°	5136.9	4468.7	3818.1	3223.8	2729.1	2274.5	1892.2	1529.2	276.2	9.7	3.2
72.5°	3771.6	3316.9	2812.7	2383.8	2056.0	1707.5	1456.9	1148.5	213.6	6.4	1.6
75°	1117.9	1018.3	856.1	755.0	666.6	550.9	490.0	382.3	109.2	3.2	0.0
77.5°	223.3	202.4	181.5	165.4	155.8	133.3	126.9	104.4	45.0	1.6	0.0
80°	117.2	96.4	81.9	72.3	62.6	51.4	43.4	35.3	8.0	0.0	0.0
82.5°	112.5	75.5	54.6	45.0	38.5	30.5	24.1	17.7	4.8	0.0	0.0
85°	41.7	32.1	24.1	19.3	16.1	14.4	11.2	9.7	0.0	0.0	0.0
87.5°	6.4	4.8	4.8	3.2	3.2	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°	339.0	339.0	339.0	339.0	339.0	339.0	339.0
2.5°	287.6	274.7	268.2	260.2	260.2	258.6	261.8
5°	239.4	221.7	208.8	199.2	200.7	196.0	197.6
7.5°	202.4	184.7	173.4	167.1	165.4	163.9	163.9
10°	175.1	159.0	149.3	144.6	143.0	143.0	143.0
12.5°	155.8	139.8	131.7	128.5	128.5	126.9	126.9
15°	139.8	126.9	118.9	115.7	115.7	114.0	115.7
17.5°	126.9	114.0	107.6	104.4	104.4	102.8	102.8
20°	115.7	104.4	98.0	93.2	93.2	91.6	93.2
22.5°	106.0	94.8	86.7	83.5	81.9	80.3	81.9
25°	96.4	85.2	77.1	72.3	70.7	70.7	69.1
27.5°	88.4	77.1	67.5	62.6	61.1	61.1	59.4
30°	80.3	67.5	57.8	53.0	51.4	51.4	51.4
32.5°	72.3	57.8	49.7	45.0	43.4	43.4	43.4
35°	64.3	49.7	41.7	37.0	35.3	35.3	35.3
37.5°	54.6	41.7	32.1	28.9	27.3	25.7	25.7
40°	46.6	32.1	24.1	20.9	17.7	17.7	17.7
42.5°	38.5	25.7	17.7	12.9	11.2	9.7	11.2
45°	32.1	19.3	11.2	6.4	4.8	4.8	4.8
47.5°	25.7	12.9	4.8	1.6	1.6	1.6	1.6
50°	19.3	8.0	1.6	0.0	0.0	1.6	1.6
52.5°	14.4	4.8	0.0	0.0	0.0	0.0	0.0
55°	8.0	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.8	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.2	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)