

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: McGRAW-EDISON

Report Number: P158088

Luminaire Tested: **VTS-E02-LED-E1-SL2-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158088  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E02-LED-E1-SL2-8030  
Description: VENTUS LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

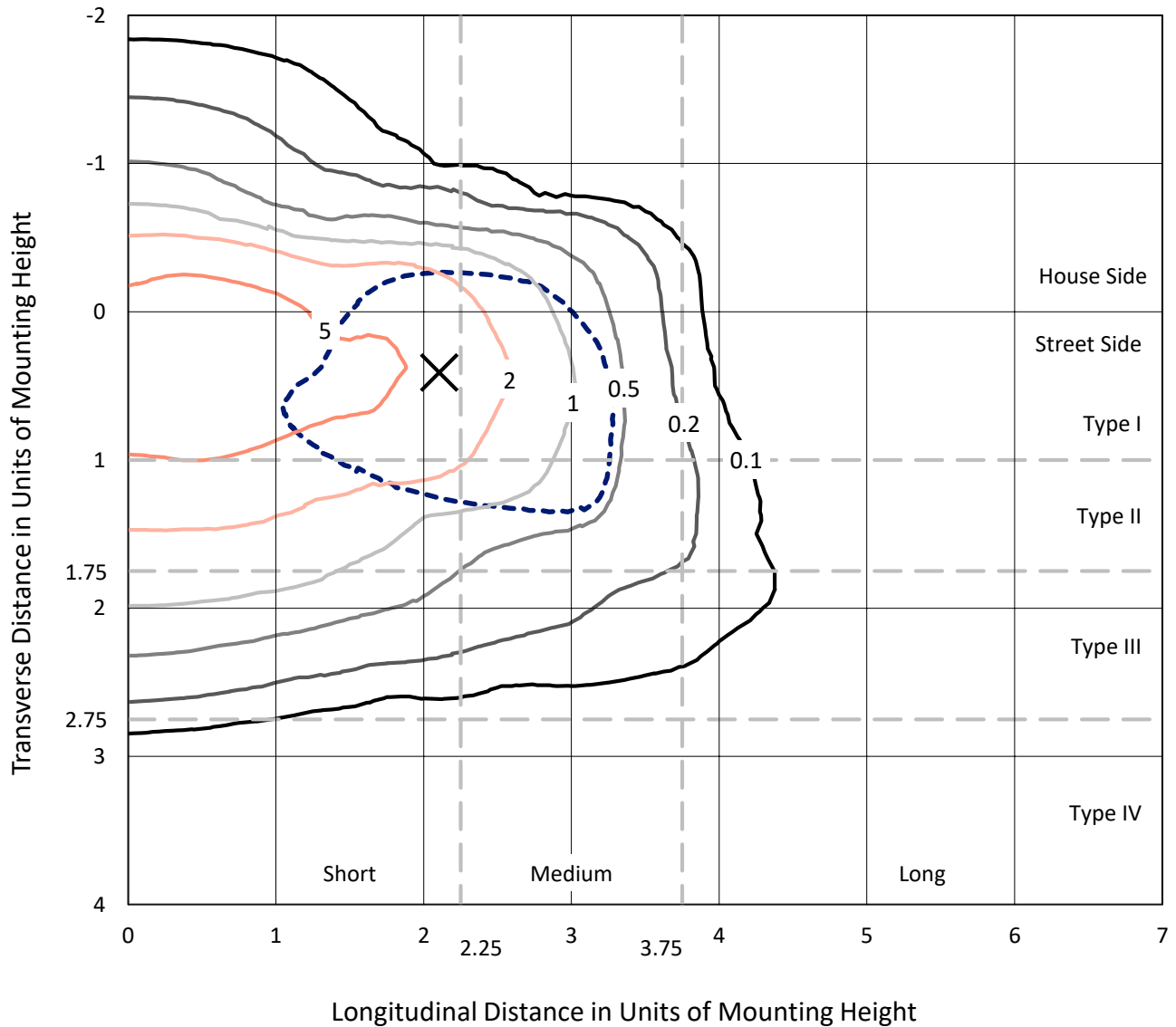
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5078.7 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 52.1  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

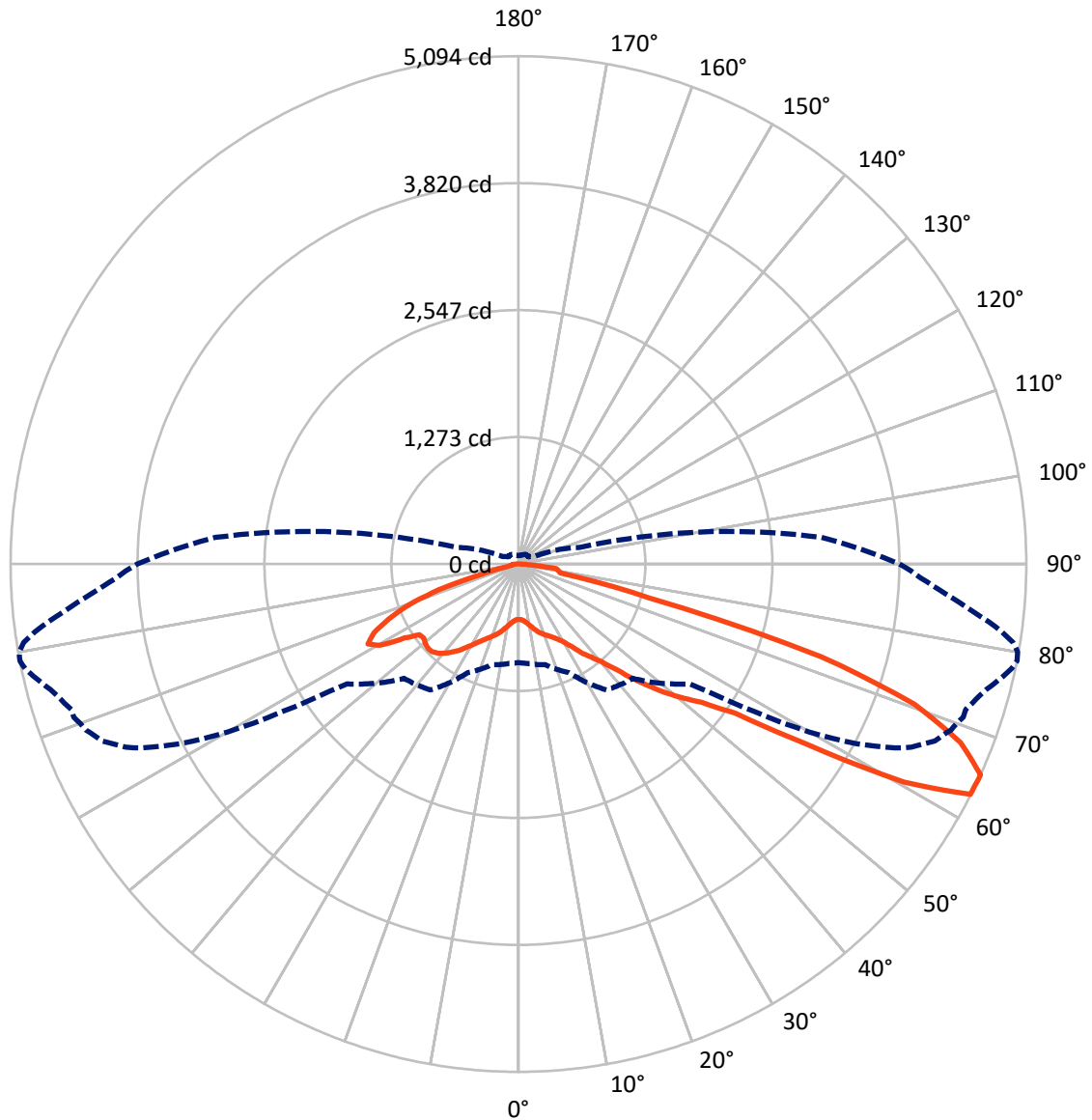
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1167.0	0.0	1167.0
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3911.7	0.0	3911.7
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5078.7	0.0	5078.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.0	1.1
10°-20°	178.6	3.5
20°-30°	307.8	6.1
30°-40°	504.2	9.9
40°-50°	844.4	16.6
50°-60°	1142.1	22.5
60°-70°	1406.5	27.7
70°-80°	544.4	10.7
80°-90°	95.7	1.9
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°	5078.7	100.0
0°-180°	5078.7	100.0



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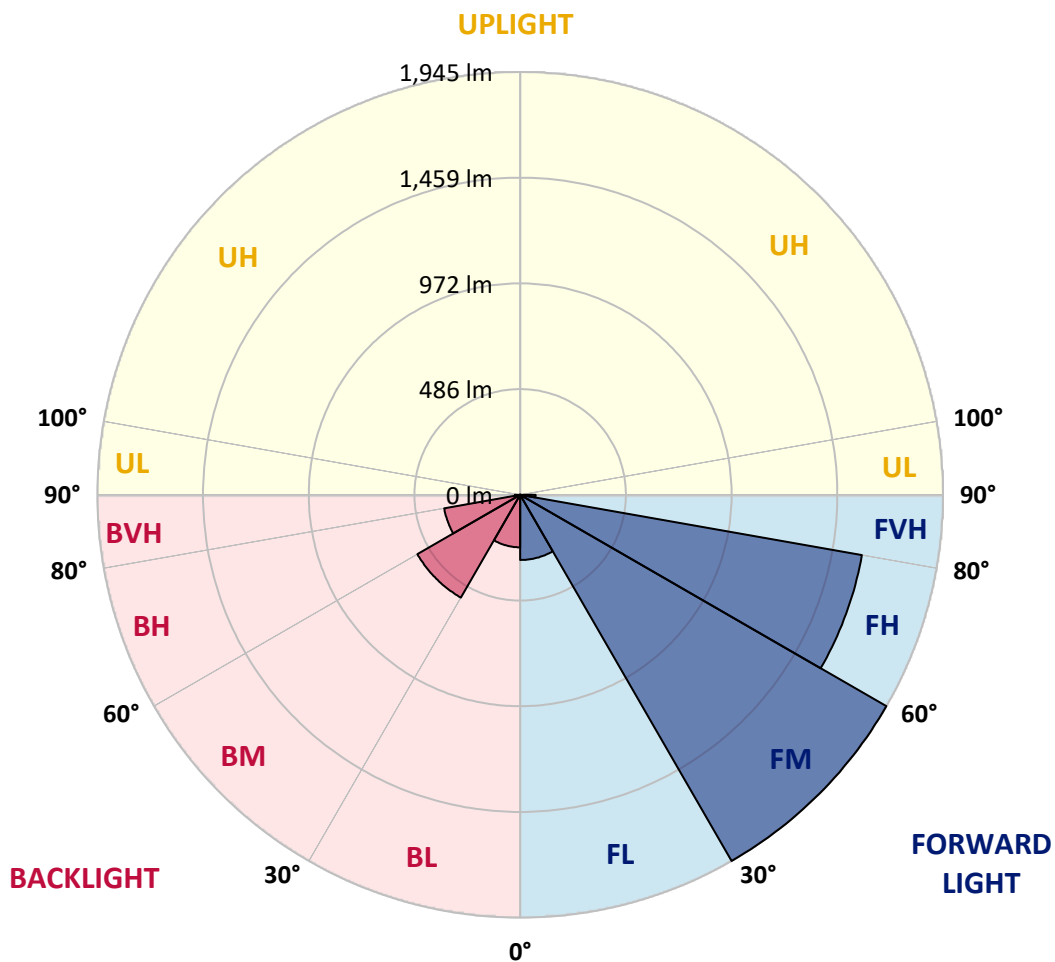
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.8	5.9			
FM	(30°-60°)	1944.9	38.3			
FH	(60°-80°)	1595.9	31.4			G1/1800
FVH	(80°-90°)	71.0	1.4			G1/100
BL	(0°-30°)	241.5	4.8	B1/500		
BM	(30°-60°)	545.7	10.7	B1/1000		
BH	(60°-80°)	355.0	7.0	B1/500		G1/500
BVH	(80°-90°)	24.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	556.7	555.0	556.7	558.0	559.1	560.4	560.1	559.7	559.4	559.7	559.7
5°	561.4	561.1	562.8	564.1	566.5	568.2	570.2	570.2	570.2	569.9	570.5
7.5°	576.6	576.3	578.0	579.3	581.3	584.7	587.4	588.8	588.4	588.4	588.4
10°	601.6	600.2	600.2	600.2	602.9	605.3	611.4	612.1	613.4	612.7	613.1
12.5°	625.9	626.2	625.2	624.2	624.6	629.3	638.1	639.7	640.1	641.1	641.8
15°	647.8	647.5	645.1	642.8	645.8	653.9	665.4	668.4	668.4	670.5	671.8
17.5°	668.1	667.4	663.0	659.0	662.0	675.9	693.8	695.8	698.8	699.8	701.2
20°	692.1	690.7	685.7	674.9	674.9	693.8	717.4	719.4	722.1	722.8	725.2
22.5°	725.5	722.1	711.3	691.7	686.3	708.3	737.3	738.3	740.3	743.0	745.1
25°	763.3	764.0	746.4	712.3	700.5	723.5	756.6	758.2	762.0	764.0	766.3
27.5°	802.5	803.5	783.9	741.4	721.4	744.4	782.5	784.6	789.0	791.3	795.0
30°	847.0	848.4	829.5	786.6	756.2	775.1	821.0	826.4	830.1	833.2	839.3
32.5°	954.0	945.9	932.8	887.2	839.3	837.9	883.2	889.2	894.3	900.7	906.4
35°	1088.7	1093.8	1100.6	1069.8	1027.6	996.9	1000.6	997.3	1002.0	1011.4	1017.2
37.5°	1195.4	1206.6	1235.9	1255.9	1254.2	1248.1	1191.4	1191.4	1194.4	1189.4	1188.7
40°	1279.2	1286.2	1346.3	1423.6	1488.8	1520.9	1476.0	1469.6	1472.9	1446.9	1448.0
42.5°	1322.4	1332.8	1419.3	1555.0	1684.3	1787.2	1773.4	1769.0	1758.9	1752.5	1748.4
45°	1344.3	1356.8	1459.8	1646.1	1834.5	1993.5	2065.1	2064.4	2055.3	2047.9	2044.5
47.5°	1333.2	1344.0	1453.7	1673.8	1913.5	2126.5	2284.9	2294.6	2291.9	2302.7	2307.1
50°	1260.2	1274.1	1384.1	1614.0	1880.4	2178.8	2437.1	2455.3	2480.0	2495.5	2516.1
52.5°	1194.4	1205.9	1305.1	1517.2	1771.7	2136.3	2528.9	2566.4	2600.2	2631.9	2656.5
55°	1125.5	1137.0	1224.1	1416.6	1662.0	2010.7	2570.8	2625.5	2678.2	2731.8	2781.1
57.5°	1099.6	1111.7	1176.5	1338.6	1572.2	1886.2	2591.4	2681.2	2766.9	2858.1	2952.6
60°	1167.1	1177.9	1227.2	1340.6	1503.7	1761.6	2549.9	2691.0	2838.5	2988.7	3133.9
62.5°	1146.5	1152.2	1213.7	1389.5	1591.1	1638.7	2369.9	2556.3	2770.7	2990.8	3213.2
65°	989.2	1000.3	1046.5	1201.2	1542.1	1622.2	2095.8	2283.2	2536.0	2796.3	3094.4
67.5°	709.6	694.1	729.9	865.3	1196.4	1619.4	1787.2	1926.0	2124.2	2323.7	2568.1
70°	322.4	315.0	343.0	450.0	721.8	1279.8	1511.1	1558.0	1631.6	1766.0	1931.1
72.5°	127.3	126.9	145.2	186.0	341.3	823.7	1270.7	1297.7	1323.7	1382.1	1453.4
75°	83.4	83.4	88.8	100.3	168.1	397.7	1074.9	1099.6	1139.4	1155.9	1186.3
77.5°	62.8	63.1	65.5	68.2	92.8	209.3	758.6	846.0	913.5	963.8	1000.6
80°	44.6	46.6	51.0	52.7	60.4	119.2	428.7	491.9	568.2	649.5	751.8
82.5°	33.4	35.8	43.2	45.2	47.9	67.9	193.4	219.4	256.2	332.2	477.7
85°	15.5	17.2	29.7	32.4	34.8	39.2	98.2	109.7	124.6	136.4	159.0
87.5°	2.4	1.7	5.1	7.1	11.1	11.5	33.8	40.2	43.5	52.3	54.4
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	559.7	560.1	560.4	559.7	560.1	560.1	559.4	559.1	559.1	559.1	559.4
5°	570.5	571.2	570.5	570.9	572.2	571.9	571.2	570.9	572.2	572.6	571.6
7.5°	589.8	590.1	588.8	590.5	591.1	591.5	591.5	592.1	592.1	593.2	592.1
10°	614.4	614.4	616.8	616.5	616.8	617.5	617.8	619.2	620.2	620.2	620.8
12.5°	642.8	643.1	645.5	645.8	647.2	647.5	649.5	648.2	651.6	651.6	652.6
15°	672.2	674.5	674.9	678.2	678.9	679.2	681.9	681.9	684.3	684.6	685.3
17.5°	701.2	703.2	704.6	707.3	709.6	710.6	711.7	713.7	715.4	716.0	717.7
20°	726.2	728.2	729.5	732.2	734.3	736.0	737.0	739.3	741.0	741.7	744.1
22.5°	747.1	748.5	750.8	754.5	755.2	757.2	760.3	762.0	762.6	764.7	767.4
25°	769.4	771.4	772.8	776.1	778.8	782.2	784.9	787.6	788.3	791.0	793.4
27.5°	799.1	801.1	801.5	808.2	810.9	815.6	818.7	822.7	824.7	827.1	831.8
30°	843.0	847.7	849.7	857.5	858.8	864.2	869.6	871.0	874.0	874.4	882.1
32.5°	910.2	916.9	919.6	927.7	929.7	934.8	937.8	944.9	945.3	948.6	950.3
35°	1020.2	1018.5	1029.0	1031.0	1037.1	1041.5	1044.5	1044.5	1050.9	1051.3	1053.3
37.5°	1170.4	1167.1	1169.8	1157.6	1160.7	1155.3	1154.2	1155.6	1152.9	1153.6	1153.2
40°	1410.8	1395.6	1379.8	1342.3	1334.2	1318.7	1306.5	1296.7	1287.3	1277.1	1270.4
42.5°	1712.3	1690.3	1666.7	1606.6	1578.6	1548.6	1519.2	1502.3	1468.5	1448.0	1436.8
45°	2028.3	2002.6	1969.5	1919.6	1879.7	1847.7	1794.0	1768.7	1716.3	1690.3	1655.2
47.5°	2287.2	2287.6	2260.9	2210.2	2167.7	2146.4	2113.0	2064.1	2004.6	1971.2	1908.8
50°	2513.7	2513.4	2511.7	2481.3	2451.6	2428.3	2399.0	2354.7	2306.1	2268.3	2196.7
52.5°	2681.2	2703.5	2712.9	2712.6	2708.9	2698.1	2675.8	2637.6	2588.4	2567.1	2510.0
55°	2819.6	2868.2	2893.5	2948.9	2954.0	2971.9	2952.3	2952.6	2923.6	2925.6	2907.4
57.5°	3029.3	3118.0	3169.0	3291.6	3353.0	3427.3	3414.1	3476.2	3498.8	3527.5	3565.7
60°	3267.3	3433.0	3553.9	3797.6	3896.9	4017.1	4083.2	4153.8	4205.1	4257.8	4296.6
62.5°	3437.4	3655.2	3853.7	4201.0	4330.0	4456.6	4540.0	4625.4	4683.1	4720.9	4749.0
65°	3367.9	3608.6	3843.2	4207.5	4347.9	4439.7	4539.0	4588.3	4646.0	4677.4	4717.6
67.5°	2861.8	3103.2	3354.7	3784.5	3931.3	4058.2	4135.6	4199.4	4245.9	4285.8	4332.0
70°	2128.2	2392.2	2652.2	3123.4	3308.8	3492.1	3583.2	3662.2	3710.9	3751.0	3802.0
72.5°	1531.7	1697.1	1859.5	2387.1	2572.5	2809.5	2904.0	2991.8	3054.9	3052.9	3106.9
75°	1219.4	1286.6	1358.8	1631.3	1764.3	1964.1	2017.1	2066.4	2036.7	1979.7	1976.3
77.5°	1015.2	1042.8	1067.1	1152.6	1172.1	1219.7	1193.4	1166.1	1077.9	1003.7	964.5
80°	824.1	878.8	914.5	975.3	1000.3	1014.5	1018.2	1008.7	976.3	931.4	859.9
82.5°	612.7	716.7	787.6	907.1	951.0	960.1	977.7	966.9	945.6	909.1	857.8
85°	179.6	203.2	232.9	316.0	370.3	416.6	463.9	487.2	501.7	481.4	428.4
87.5°	63.1	71.2	79.7	109.7	116.8	141.1	138.4	163.4	164.4	171.5	164.1
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	559.1	559.1	559.1	559.4	559.4	559.4	558.7	558.4	558.7	559.4	559.4
5°	572.2	572.6	573.2	571.9	572.2	573.2	572.6	572.2	572.6	573.2	572.6
7.5°	593.5	593.8	593.2	594.5	594.5	595.2	596.2	595.2	595.5	595.9	596.2
10°	621.2	621.5	622.2	623.2	623.5	624.2	624.9	625.9	625.9	625.2	626.9
12.5°	654.3	653.9	654.6	655.9	656.6	657.6	659.7	659.7	661.0	660.7	662.4
15°	686.7	688.4	688.7	691.1	692.1	693.8	696.1	697.5	697.5	699.5	700.2
17.5°	719.1	720.4	721.8	723.8	725.2	726.2	728.9	730.6	730.2	733.9	733.9
20°	744.1	746.8	748.5	749.8	752.2	753.9	755.9	757.9	759.3	761.6	762.3
22.5°	768.4	770.1	772.4	774.1	776.8	778.8	781.2	782.9	785.2	788.3	789.3
25°	795.4	798.1	800.8	803.1	805.2	807.5	811.6	815.3	818.7	821.4	822.4
27.5°	832.9	835.9	839.9	841.6	844.7	846.7	852.8	857.5	859.2	863.9	865.3
30°	883.5	886.9	890.9	892.9	898.3	901.0	907.5	912.5	914.2	920.0	921.0
32.5°	956.7	958.8	966.9	966.5	974.0	981.7	985.4	989.5	996.9	1000.0	1001.0
35°	1058.4	1063.1	1068.8	1068.5	1077.9	1082.3	1089.8	1094.1	1099.6	1099.2	1105.0
37.5°	1156.6	1158.3	1160.3	1164.7	1171.5	1177.5	1180.2	1184.6	1188.7	1194.8	1202.2
40°	1263.6	1267.7	1268.0	1270.4	1273.8	1281.5	1286.6	1291.3	1305.1	1313.9	1318.3
42.5°	1424.0	1423.0	1416.2	1420.6	1422.6	1434.4	1438.2	1452.7	1468.2	1486.8	1491.8
45°	1630.3	1616.7	1612.7	1611.0	1621.8	1627.9	1643.1	1670.1	1686.3	1703.8	1712.3
47.5°	1884.1	1841.9	1822.0	1817.6	1828.8	1854.8	1859.8	1886.5	1907.8	1920.6	1929.0
50°	2138.3	2105.3	2063.4	2049.2	2046.2	2070.1	2075.9	2098.2	2119.8	2123.5	2119.1
52.5°	2457.7	2403.7	2334.5	2309.5	2289.6	2291.3	2296.0	2305.4	2319.3	2313.5	2301.7
55°	2866.2	2804.8	2770.7	2723.4	2693.3	2687.9	2667.3	2639.0	2638.0	2641.7	2606.2
57.5°	3546.4	3520.8	3535.3	3530.2	3500.5	3518.4	3425.6	3399.3	3378.3	3341.9	3309.1
60°	4331.0	4357.4	4387.4	4456.6	4453.6	4523.1	4458.6	4442.4	4422.9	4310.4	4255.4
62.5°	4797.9	4808.4	4852.6	4917.1	4980.6	5047.1	5077.1	5087.6	5046.7	4954.9	4840.1
65°	4716.6	4762.8	4805.7	4861.4	4926.5	4993.1	5056.5	5093.7	5084.2	5023.4	4897.2
67.5°	4346.9	4395.5	4458.3	4516.7	4586.9	4644.7	4714.2	4782.4	4784.4	4754.0	4666.3
70°	3807.4	3863.8	3928.6	3961.4	4037.3	4089.6	4147.4	4214.9	4236.8	4240.5	4138.3
72.5°	3095.4	3119.1	3150.8	3133.6	3148.8	3182.2	3166.7	3172.1	3088.7	3104.2	2977.9
75°	1885.1	1863.5	1767.7	1680.2	1573.5	1491.5	1511.1	1354.4	1200.2	1192.4	1081.0
77.5°	956.1	921.6	862.2	800.4	710.0	606.3	519.9	426.7	348.1	303.2	260.3
80°	814.3	790.0	757.2	712.3	646.5	569.9	479.7	408.8	343.0	274.5	219.8
82.5°	779.2	704.9	657.3	619.8	548.6	477.7	428.4	379.8	333.2	291.0	230.6
85°	386.5	342.0	289.3	256.6	197.5	154.6	144.8	119.2	111.1	85.7	72.2
87.5°	130.0	106.3	79.3	66.8	53.3	43.5	42.9	38.1	37.8	34.4	31.7
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°	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	559.1	559.7	559.7	559.1	559.4	558.7	559.1	559.4	558.4	558.0	557.0
5°	572.9	572.6	572.6	572.9	573.9	574.3	572.6	573.2	573.6	571.9	568.2
7.5°	595.9	595.9	596.9	596.5	598.6	597.9	597.5	597.5	597.5	594.2	588.1
10°	626.9	626.9	627.9	629.3	629.6	628.9	628.9	629.3	631.0	624.2	614.8
12.5°	661.7	663.4	663.0	663.0	667.1	666.1	664.7	666.1	667.8	658.3	644.8
15°	700.5	701.5	702.2	704.6	703.9	706.3	706.9	706.3	707.9	695.8	673.2
17.5°	735.6	737.6	738.3	741.0	741.0	741.4	744.1	743.0	743.4	729.5	697.1
20°	764.7	766.7	767.7	770.7	771.4	772.8	773.8	774.4	776.1	759.6	716.7
22.5°	793.7	795.4	797.1	799.1	801.8	803.5	804.8	805.5	808.5	789.3	735.3
25°	826.1	829.8	831.5	834.9	837.6	840.3	842.3	842.6	847.7	823.7	750.5
27.5°	869.3	874.4	877.1	882.5	885.2	887.9	887.2	891.3	898.3	863.2	762.3
30°	926.0	932.4	934.1	939.5	943.9	946.6	949.7	953.0	957.8	907.1	768.0
32.5°	1005.0	1014.8	1017.2	1020.2	1026.6	1031.4	1033.4	1038.8	1040.1	948.6	766.3
35°	1113.4	1109.0	1120.5	1123.2	1132.3	1136.0	1138.4	1145.5	1140.1	993.9	755.2
37.5°	1211.3	1209.9	1221.1	1227.2	1239.0	1236.3	1242.0	1246.7	1227.5	1026.0	734.6
40°	1330.8	1329.1	1344.6	1346.7	1364.9	1360.9	1363.2	1366.9	1324.1	1048.2	697.1
42.5°	1497.6	1498.3	1514.8	1516.8	1519.2	1526.6	1514.5	1515.1	1426.7	1054.3	635.4
45°	1717.4	1729.2	1719.0	1719.4	1718.7	1704.5	1689.3	1671.4	1533.4	1033.4	555.7
47.5°	1930.4	1922.3	1909.4	1897.6	1887.8	1865.6	1843.3	1812.9	1625.5	983.8	466.9
50°	2112.7	2094.4	2083.0	2050.2	2026.9	1997.9	1966.8	1932.1	1701.1	912.2	383.8
52.5°	2282.2	2263.2	2220.4	2186.3	2152.9	2114.4	2078.2	2037.4	1768.0	830.5	320.4
55°	2563.7	2547.2	2504.3	2441.8	2400.6	2347.6	2300.0	2244.7	1903.4	764.3	278.5
57.5°	3219.0	3204.8	3114.7	3075.2	3020.8	2887.8	2868.2	2781.8	2266.3	756.6	253.9
60°	4141.6	4080.9	4005.9	3897.9	3770.6	3726.7	3628.8	3513.7	2850.3	777.8	234.0
62.5°	4708.1	4569.7	4459.6	4335.1	4217.9	4117.3	4010.3	3896.5	3149.1	749.8	209.3
65°	4750.7	4587.9	4442.4	4296.3	4164.6	4039.3	3935.4	3821.6	3051.9	644.5	177.2
67.5°	4516.4	4344.9	4186.2	4020.4	3887.4	3774.3	3642.0	3532.6	2777.7	501.7	147.5
70°	4033.3	3882.7	3746.0	3567.4	3457.0	3319.2	3235.2	3098.5	2421.2	342.0	121.9
72.5°	2905.0	2791.6	2747.0	2622.4	2478.0	2396.9	2358.1	2225.4	1789.3	212.3	99.6
75°	981.4	1009.4	945.3	847.0	895.0	821.0	851.1	787.9	756.9	121.9	83.7
77.5°	217.7	204.6	189.1	175.6	174.5	164.1	173.9	164.4	175.9	77.6	73.9
80°	171.8	135.7	115.5	105.3	99.9	96.9	94.5	91.8	83.7	66.2	68.2
82.5°	185.7	140.1	102.6	82.0	70.2	65.8	64.8	62.1	61.4	64.1	68.9
85°	59.4	49.6	42.2	39.8	36.8	35.1	34.4	33.4	40.5	69.9	66.2
87.5°	31.1	27.3	24.3	23.3	20.3	18.9	18.6	18.9	28.4	69.9	47.9
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°	555.7	555.7	555.7	555.7	555.7	555.7	555.7
2.5°	556.0	555.7	555.0	554.7	554.3	552.6	554.0
5°	566.5	563.1	560.1	556.4	554.3	552.6	552.6
7.5°	582.4	572.9	565.1	556.7	551.0	546.6	545.9
10°	602.3	584.0	566.1	551.0	540.2	532.1	531.0
12.5°	621.2	593.5	565.1	540.2	523.3	511.8	511.1
15°	638.7	598.6	557.4	520.6	495.3	480.1	478.4
17.5°	652.6	595.5	539.8	493.2	458.8	440.9	439.9
20°	655.6	583.4	514.8	459.5	423.0	404.1	399.7
22.5°	652.9	561.4	483.8	422.3	380.5	361.6	359.2
25°	644.8	534.8	445.3	379.1	340.3	321.1	316.3
27.5°	630.3	503.4	403.8	337.3	298.8	280.2	275.5
30°	608.7	465.5	359.5	298.1	258.3	243.4	238.7
32.5°	578.6	419.6	316.0	257.9	224.8	213.0	211.0
35°	537.1	367.0	270.4	224.8	200.5	193.4	192.4
37.5°	484.1	314.3	232.3	201.2	183.7	179.3	178.6
40°	414.9	260.3	205.3	184.3	171.5	167.8	167.1
42.5°	343.7	219.8	185.3	170.8	160.4	157.0	156.0
45°	281.2	192.4	170.5	159.7	149.9	146.2	145.8
47.5°	234.6	176.6	158.3	149.6	139.8	135.4	135.7
50°	200.5	162.0	148.2	140.8	129.6	125.6	125.9
52.5°	177.2	147.5	138.8	130.3	120.9	116.8	116.8
55°	159.0	135.7	129.6	120.5	113.1	109.4	109.0
57.5°	144.2	126.3	120.9	113.4	106.0	101.6	101.6
60°	135.0	119.5	115.1	108.4	99.6	94.9	94.5
62.5°	129.6	117.5	113.8	104.3	94.5	89.8	88.8
65°	125.6	122.2	117.5	102.0	90.5	85.4	84.4
67.5°	125.9	133.4	126.6	103.3	89.1	81.7	80.3
70°	127.9	142.1	133.0	106.3	94.9	80.0	77.0
72.5°	117.8	128.6	119.8	101.3	92.5	77.0	73.3
75°	98.2	93.9	86.1	82.4	83.0	69.9	68.5
77.5°	79.7	69.9	62.5	65.5	69.9	59.8	58.4
80°	69.2	56.7	53.0	58.1	63.5	51.0	47.6
82.5°	64.8	47.9	45.6	60.4	66.5	43.9	38.5
85°	57.1	39.2	35.8	71.2	66.5	33.1	30.7
87.5°	38.1	23.3	22.3	52.3	45.6	23.0	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)