

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: P159633

Luminaire Tested: **VTS-F02-LED-E1-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159633
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F02-LED-E1-T4-8030
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4147.5 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

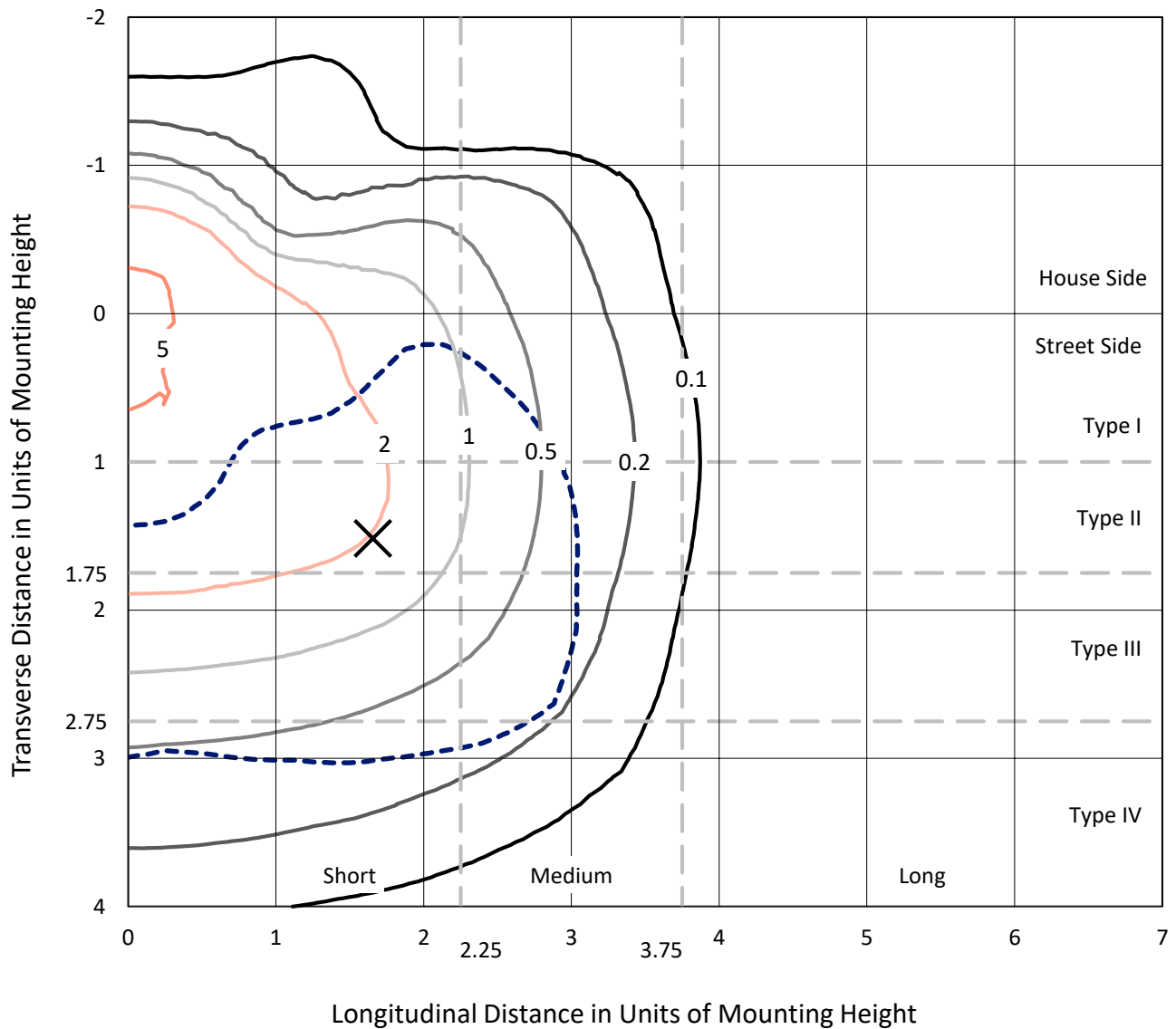
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

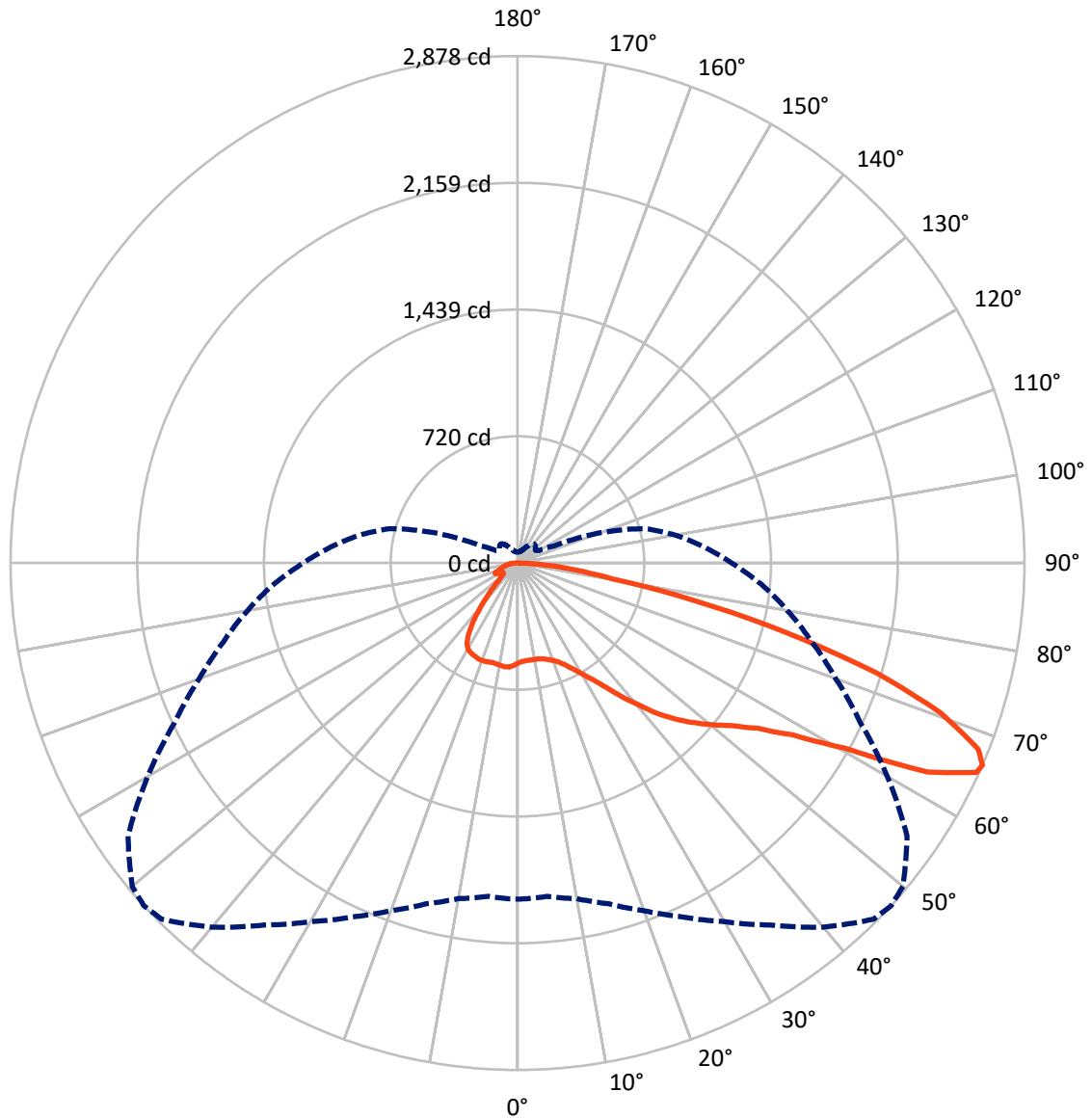


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	858.7	0.0	858.7
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	3288.8	0.0	3288.8
	% Fixture	79.3	0.0	79.3
Total	Lumens	4147.5	0.0	4147.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.3
10°-20°	164.0	4.0
20°-30°	279.8	6.7
30°-40°	422.4	10.2
40°-50°	549.0	13.2
50°-60°	753.1	18.2
60°-70°	1158.6	27.9
70°-80°	669.7	16.1
80°-90°	96.2	2.3
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°	4147.5	100.0
0°-180°	4147.5	100.0



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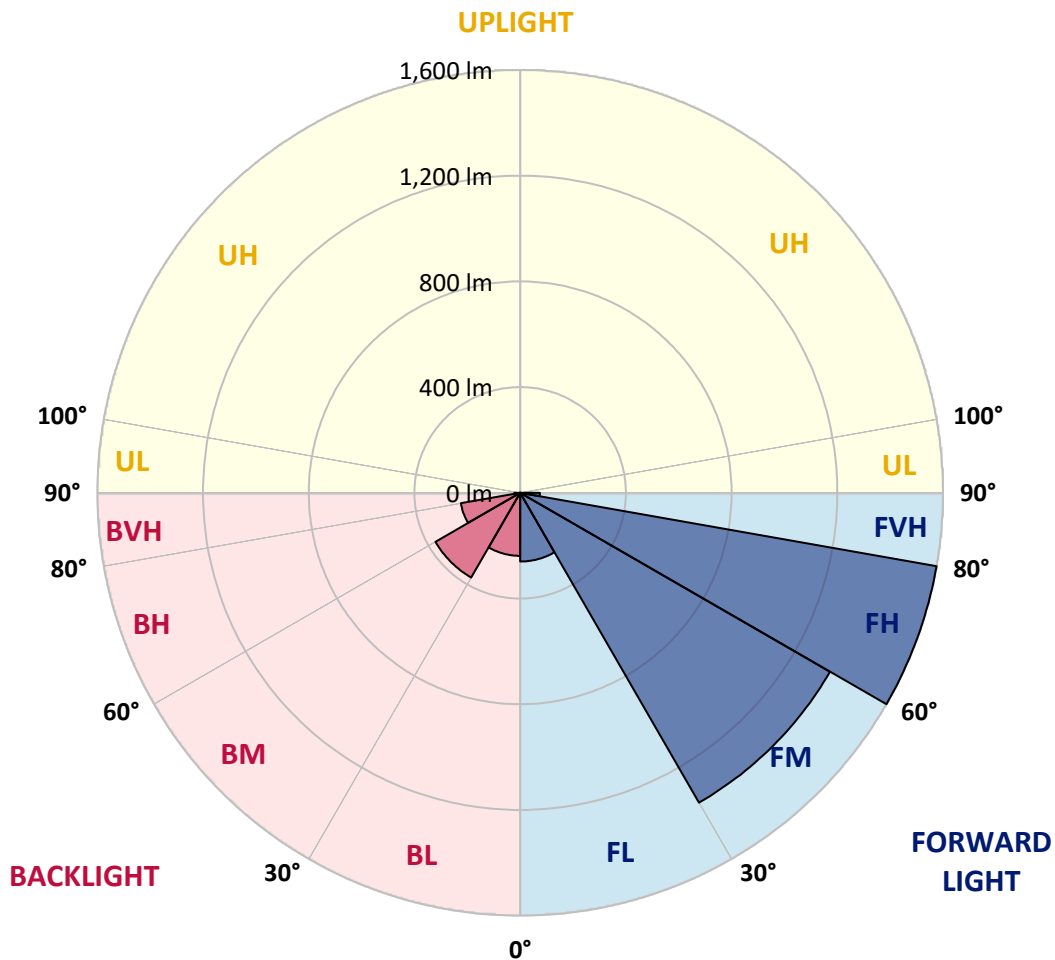
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.0	6.3			
FM	(30°-60°)	1354.0	32.6			
FH	(60°-80°)	1600.4	38.6			G1/1800
FVH	(80°-90°)	74.5	1.8			G1/100
BL	(0°-30°)	238.6	5.8	B1/500		
BM	(30°-60°)	370.5	8.9	B1/1000		
BH	(60°-80°)	227.9	5.5	B1/500		G1/500
BVH	(80°-90°)	21.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4
2.5°	552.9	553.2	553.5	553.5	554.3	554.3	555.7	556.6	556.8	558.5	559.6
5°	542.6	542.3	542.6	543.2	544.6	545.7	548.5	550.4	552.1	554.9	556.3
7.5°	538.2	538.7	539.3	539.6	540.7	543.5	546.0	547.9	551.3	554.6	556.0
10°	544.0	544.8	544.0	544.6	544.6	547.1	548.2	549.6	552.1	555.2	556.0
12.5°	557.7	559.3	557.7	556.3	555.2	557.4	556.8	555.7	557.1	557.9	557.9
15°	580.2	580.2	579.1	577.2	574.4	574.7	572.2	569.7	568.5	566.6	565.2
17.5°	602.3	601.7	599.2	596.7	594.7	593.9	590.3	586.9	583.0	580.0	576.6
20°	623.7	625.9	622.9	619.3	616.2	614.2	611.5	604.8	600.0	595.0	591.7
22.5°	660.8	658.8	655.5	650.2	647.1	643.8	637.9	630.7	623.4	617.3	613.1
25°	699.0	697.0	692.3	688.4	683.9	681.1	674.7	665.8	658.8	649.4	643.8
27.5°	739.9	738.3	732.7	729.6	726.6	723.2	717.6	708.4	702.0	691.2	685.3
30°	786.2	785.9	778.4	777.8	773.4	769.8	765.9	758.0	751.6	740.8	733.8
32.5°	835.5	834.4	829.1	827.4	830.5	828.0	822.4	814.3	806.0	799.6	791.8
35°	905.8	903.8	900.7	902.1	904.1	911.1	902.4	895.4	885.4	877.1	866.2
37.5°	957.0	954.2	957.9	965.7	976.8	982.1	989.6	989.9	985.2	974.0	964.6
40°	1004.1	1003.0	1011.4	1022.3	1042.9	1057.9	1072.1	1079.1	1080.8	1073.5	1059.3
42.5°	1044.0	1047.3	1058.5	1075.2	1104.2	1127.0	1153.5	1170.0	1180.3	1176.4	1170.0
45°	1091.4	1093.0	1106.7	1127.9	1155.5	1193.4	1228.2	1256.1	1274.2	1273.9	1266.7
47.5°	1150.7	1151.0	1162.7	1187.5	1217.1	1255.5	1299.6	1336.6	1360.6	1361.7	1356.1
50°	1221.2	1220.7	1233.5	1256.9	1288.4	1325.5	1372.3	1418.6	1452.0	1452.0	1443.9
52.5°	1312.1	1311.0	1317.9	1338.6	1368.9	1408.0	1454.5	1508.0	1544.2	1552.0	1534.5
55°	1433.3	1435.0	1436.7	1454.8	1480.7	1511.6	1565.1	1614.5	1663.0	1667.4	1657.1
57.5°	1573.5	1567.9	1579.9	1609.5	1639.0	1677.7	1715.6	1773.9	1831.3	1841.1	1839.7
60°	1792.6	1785.3	1797.6	1835.2	1867.8	1928.8	1993.8	2069.0	2137.0	2157.1	2132.8
62.5°	1994.1	2003.0	2019.7	2063.5	2110.8	2192.2	2289.8	2418.8	2547.8	2618.1	2613.0
65°	1975.9	1967.6	1999.6	2059.3	2145.1	2248.8	2370.0	2525.5	2711.4	2852.4	2865.0
66°	1908.8	1900.1	1934.7	2003.0	2101.1	2216.5	2351.1	2509.4	2699.4	2858.8	2878.1
67.5°	1797.9	1789.2	1828.2	1890.4	1991.5	2136.7	2282.2	2455.3	2652.9	2805.6	2821.2
70°	1583.8	1572.1	1602.5	1672.7	1754.7	1895.1	2033.6	2217.0	2419.9	2542.0	2547.8
72.5°	1341.6	1314.3	1346.7	1400.7	1459.2	1575.5	1696.1	1821.5	1983.2	2096.1	2128.4
75°	973.5	987.7	997.2	1032.8	1071.6	1167.7	1238.5	1343.6	1468.7	1550.4	1576.3
77.5°	516.4	537.9	551.3	586.9	651.0	724.3	801.0	865.9	948.1	993.8	1025.6
80°	289.8	304.9	326.6	354.8	386.0	442.3	487.7	521.2	532.9	540.9	548.2
82.5°	159.4	197.6	229.9	249.4	267.8	290.4	317.4	345.3	354.2	340.8	333.9
85°	24.8	36.5	111.2	135.7	147.7	165.0	184.5	205.1	205.4	176.7	192.9
87.5°	7.0	7.8	15.9	24.0	23.4	19.0	23.4	42.6	25.1	12.5	14.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4
2.5°	560.2	560.7	562.1	563.5	564.9	566.3	567.1	568.5	569.7	571.3	573.3
5°	557.9	559.3	561.8	564.9	567.7	570.2	572.2	574.9	577.5	579.7	583.0
7.5°	557.9	560.7	564.9	568.3	570.8	573.8	576.9	579.7	582.5	584.7	586.9
10°	558.2	561.0	565.2	569.1	571.9	575.2	577.7	580.2	583.3	584.7	587.5
12.5°	559.3	560.5	563.5	567.4	570.8	574.1	576.6	579.1	582.5	583.0	585.0
15°	564.9	563.2	564.1	566.9	570.5	573.3	576.1	578.0	580.2	579.7	581.4
17.5°	575.2	571.0	569.4	569.7	571.3	573.3	574.4	574.7	574.9	572.4	572.7
20°	589.2	583.3	579.4	577.5	575.2	573.3	570.2	566.6	563.2	558.2	557.7
22.5°	610.1	601.4	597.2	591.9	585.3	576.9	569.4	560.5	553.2	545.7	542.9
25°	640.4	631.5	627.1	618.7	606.7	594.7	583.9	571.9	561.3	552.4	548.2
27.5°	681.1	672.2	667.5	658.8	644.1	632.1	617.0	604.2	591.4	578.3	573.0
30°	730.5	722.7	717.4	710.4	697.6	684.5	666.9	647.1	626.8	605.9	595.6
32.5°	788.7	780.1	776.2	768.1	754.7	741.0	721.5	696.2	662.2	629.3	608.7
35°	861.4	851.7	847.2	836.6	821.0	801.0	780.1	746.1	700.1	654.4	620.7
37.5°	958.7	937.0	922.2	898.0	872.9	844.7	814.9	780.1	725.7	669.1	622.3
40°	1044.8	1022.8	994.4	959.5	920.5	881.8	847.8	808.2	749.1	679.7	617.0
42.5°	1151.8	1112.8	1067.4	1020.3	968.5	920.8	880.4	833.9	765.0	682.5	602.3
45°	1249.7	1203.1	1142.4	1079.7	1015.3	955.4	909.9	858.1	778.7	682.5	584.4
47.5°	1338.8	1283.1	1210.4	1132.3	1057.4	991.9	940.3	882.9	797.9	691.2	579.1
50°	1421.3	1357.2	1274.5	1183.9	1099.7	1029.8	974.3	914.7	827.2	713.5	591.9
52.5°	1508.3	1440.3	1339.4	1243.3	1150.4	1075.5	1016.4	954.0	865.1	748.6	614.5
55°	1622.3	1542.6	1428.0	1322.1	1220.1	1137.4	1070.2	1001.1	906.6	788.1	642.1
57.5°	1802.0	1686.4	1571.8	1434.2	1338.0	1229.0	1155.5	1076.0	974.0	839.7	683.6
60°	2116.7	1974.5	1836.9	1678.6	1559.9	1445.9	1334.7	1231.0	1108.1	956.2	774.8
62.5°	2565.9	2421.6	2205.3	2011.6	1832.4	1681.4	1536.4	1404.6	1246.9	1080.8	887.1
65°	2834.3	2669.1	2411.3	2151.0	1933.3	1746.0	1580.2	1418.8	1248.6	1086.6	921.1
66°	2855.8	2699.4	2424.1	2149.0	1923.0	1728.7	1556.2	1389.3	1214.8	1059.9	909.9
67.5°	2815.9	2681.3	2397.9	2111.1	1880.1	1670.2	1493.0	1317.9	1142.6	999.1	872.9
70°	2534.7	2437.5	2194.4	1925.8	1695.3	1510.2	1323.2	1154.9	988.8	868.1	774.5
72.5°	2077.9	1954.8	1784.8	1604.2	1422.7	1258.6	1088.6	945.3	806.0	718.2	651.9
75°	1526.4	1415.5	1228.2	1115.6	995.8	892.7	778.1	642.4	543.5	499.4	483.3
77.5°	967.6	847.2	689.2	564.9	485.8	417.5	329.1	261.7	209.6	218.2	241.6
80°	488.8	421.1	315.2	248.9	215.2	178.9	141.6	107.3	78.3	89.5	101.2
82.5°	313.8	262.0	208.7	164.4	138.8	122.3	97.8	71.1	53.0	59.6	73.0
85°	189.0	159.7	127.4	104.2	90.6	75.5	55.5	39.3	39.0	41.8	51.6
87.5°	28.7	41.0	23.7	25.4	26.8	28.7	25.4	21.5	18.7	24.2	30.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4	567.4
2.5°	575.2	575.8	576.9	578.3	578.0	580.0	581.1	580.0	582.5	582.5	583.9
5°	585.8	586.7	588.6	590.0	590.6	592.2	592.8	592.5	593.1	593.3	593.9
7.5°	588.9	591.1	591.9	592.8	593.1	593.6	593.6	593.1	593.1	592.8	593.3
10°	588.0	588.9	589.4	589.2	589.2	588.6	588.3	588.0	588.0	587.5	588.3
12.5°	585.3	585.3	585.3	584.7	584.7	584.4	584.4	584.4	585.0	585.3	586.7
15°	579.7	579.7	580.2	580.0	580.8	582.2	583.9	585.0	586.4	586.7	587.5
17.5°	571.0	571.3	573.0	576.6	580.2	584.4	587.5	588.3	587.2	584.4	582.5
20°	556.0	559.6	566.3	574.9	583.0	588.3	589.7	586.4	581.1	573.8	569.9
22.5°	542.6	549.9	561.8	576.1	586.1	589.7	585.5	577.7	568.3	559.9	554.0
25°	547.9	556.3	568.8	581.1	587.5	585.5	577.2	566.0	556.0	546.2	536.8
27.5°	570.2	578.6	587.5	591.1	588.9	581.6	569.9	557.9	544.6	530.6	518.9
30°	591.4	596.1	596.7	593.1	585.0	573.3	559.6	545.7	528.7	512.0	497.2
32.5°	598.1	592.5	582.5	572.2	561.0	549.0	533.1	514.7	496.6	477.7	461.2
35°	596.1	573.6	548.7	526.7	513.4	499.7	485.2	460.7	440.3	424.2	413.6
37.5°	578.6	537.3	499.1	467.1	446.2	430.0	408.6	388.2	370.7	363.4	354.8
40°	554.0	491.1	438.1	393.2	371.5	350.9	326.9	311.3	306.3	299.6	299.9
42.5°	518.9	437.0	368.7	317.2	293.5	270.9	253.9	244.7	245.0	239.4	240.5
45°	481.9	382.6	296.8	245.5	222.1	202.9	193.4	190.6	190.9	191.2	189.5
47.5°	459.3	340.3	238.0	186.2	165.5	154.7	149.7	148.3	148.5	148.8	146.9
50°	455.9	318.3	198.7	142.4	129.0	122.9	120.4	119.0	119.0	117.9	116.2
52.5°	465.4	312.7	179.5	123.5	110.6	105.1	103.1	102.0	100.3	98.1	95.0
55°	480.5	317.7	173.6	117.1	104.5	98.9	96.4	95.9	93.1	88.9	83.9
57.5°	508.3	335.8	177.5	118.7	105.6	100.6	98.9	98.4	94.5	88.1	81.7
60°	588.3	388.5	197.0	128.2	113.7	109.5	109.5	108.7	103.4	94.2	85.0
62.5°	698.7	465.7	223.5	141.3	124.9	124.3	129.0	129.3	119.8	105.1	90.6
65°	751.9	501.9	232.7	144.1	127.9	134.3	143.8	143.8	130.4	110.1	91.4
66°	752.2	501.1	229.9	140.7	124.6	132.9	142.7	142.7	128.8	108.7	90.0
67.5°	733.0	485.5	220.7	134.6	117.1	124.9	133.5	133.2	120.7	103.1	86.1
70°	657.4	429.5	194.5	124.6	108.1	108.4	111.5	109.5	101.2	89.2	78.3
72.5°	566.9	359.2	168.6	118.2	101.2	95.9	93.4	91.7	86.4	79.1	72.5
75°	434.8	279.0	146.9	112.3	95.0	85.8	82.5	81.1	77.5	73.3	68.0
77.5°	266.4	191.2	124.6	102.8	88.1	79.7	76.1	73.3	69.7	65.8	62.1
80°	114.8	115.4	99.8	87.2	76.6	66.9	62.1	58.8	56.9	55.5	53.5
82.5°	80.3	82.8	76.1	67.7	58.5	51.6	47.4	46.5	46.8	46.8	46.3
85°	60.2	59.1	53.2	48.5	44.3	39.9	36.5	36.2	37.3	37.3	36.5
87.5°	34.8	35.1	30.1	28.1	29.3	25.1	22.9	23.1	25.9	25.6	25.1
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):

	160°	165°	170°	175°	180°
0°	567.4	567.4	567.4	567.4	567.4
2.5°	583.9	584.7	584.4	585.3	584.4
5°	594.7	594.5	594.2	595.3	593.9
7.5°	593.1	593.3	593.3	593.3	593.1
10°	588.9	590.0	590.6	591.7	591.4
12.5°	587.5	589.2	590.8	592.5	592.8
15°	587.8	588.9	589.7	590.6	590.8
17.5°	580.5	580.2	579.4	578.8	578.3
20°	565.7	564.4	563.0	560.7	561.8
22.5°	547.4	543.5	539.0	535.4	535.1
25°	525.9	518.6	511.4	506.7	505.0
27.5°	506.9	498.3	490.8	486.6	485.5
30°	484.4	476.6	469.9	466.3	464.0
32.5°	450.9	444.8	436.4	433.6	433.4
35°	404.4	399.6	393.8	392.7	391.3
37.5°	351.7	350.0	347.3	343.9	343.4
40°	295.4	296.5	295.7	293.7	290.7
42.5°	241.1	243.0	243.3	244.7	246.1
45°	192.0	193.7	193.7	195.1	196.8
47.5°	147.4	146.3	147.2	148.5	149.4
50°	111.5	110.6	109.2	108.1	107.0
52.5°	89.7	88.1	84.2	83.1	81.9
55°	79.1	76.1	73.3	72.2	72.2
57.5°	76.1	72.2	69.1	67.7	67.2
60°	76.6	71.1	67.2	64.9	64.1
62.5°	79.1	71.3	66.1	63.5	62.7
65°	78.9	70.8	65.8	63.0	62.1
66°	77.5	70.0	65.2	62.7	62.1
67.5°	75.2	68.8	64.7	62.4	61.6
70°	70.8	66.6	63.5	61.6	60.8
72.5°	67.2	64.4	61.6	59.4	58.8
75°	63.8	61.0	58.5	57.4	56.6
77.5°	58.8	56.3	54.9	53.8	53.2
80°	52.1	50.4	48.8	47.7	46.8
82.5°	45.4	43.2	41.5	40.7	40.1
85°	37.1	35.7	33.2	31.5	31.2
87.5°	24.8	23.4	22.6	21.2	19.8
90°	0.0	0.0	0.0	0.0	0.0

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