

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: P165372

Luminaire Tested: **VTS-F04-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165372
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F04-LED-E1-SL4-HSS
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6638.8 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

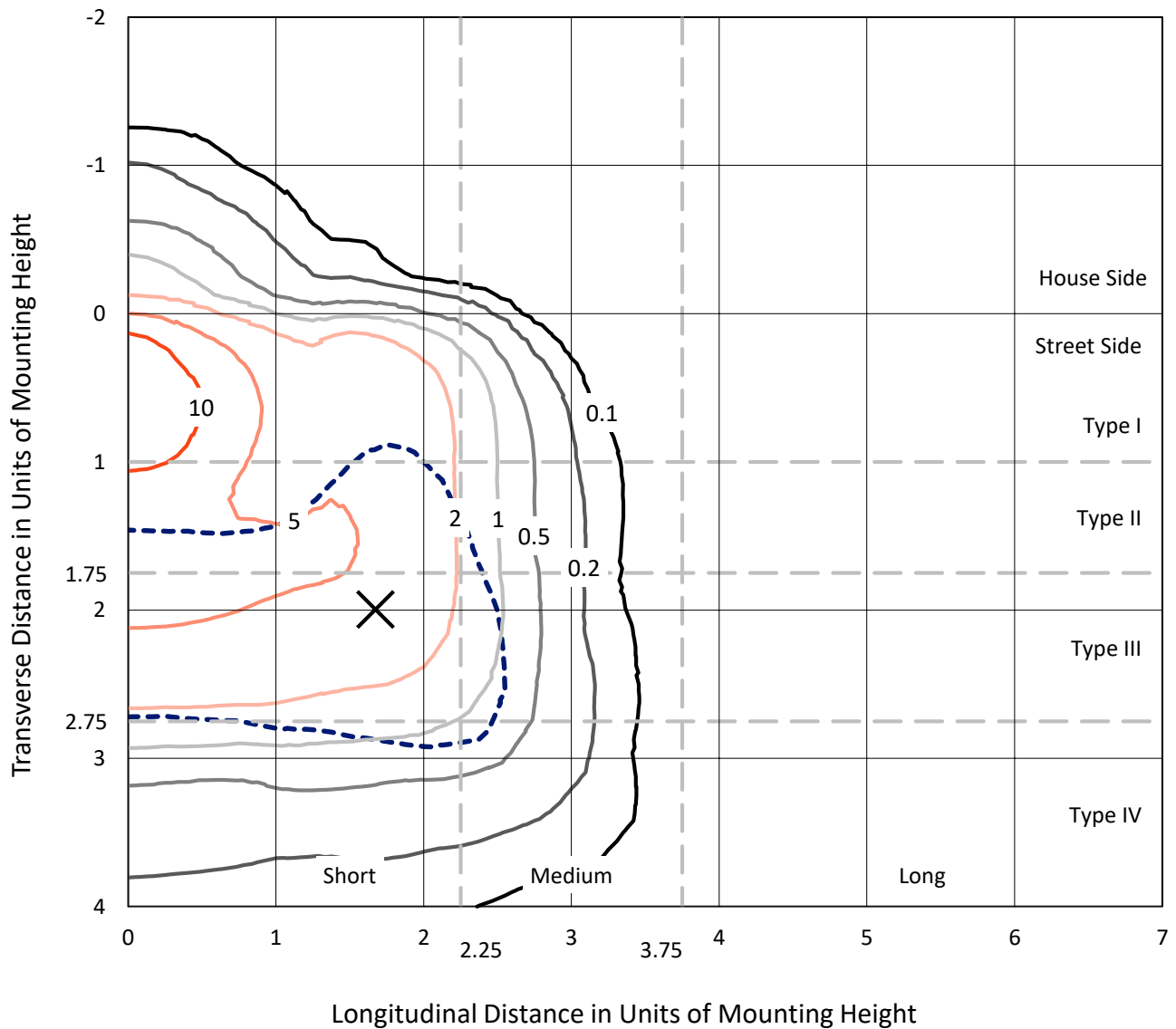
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

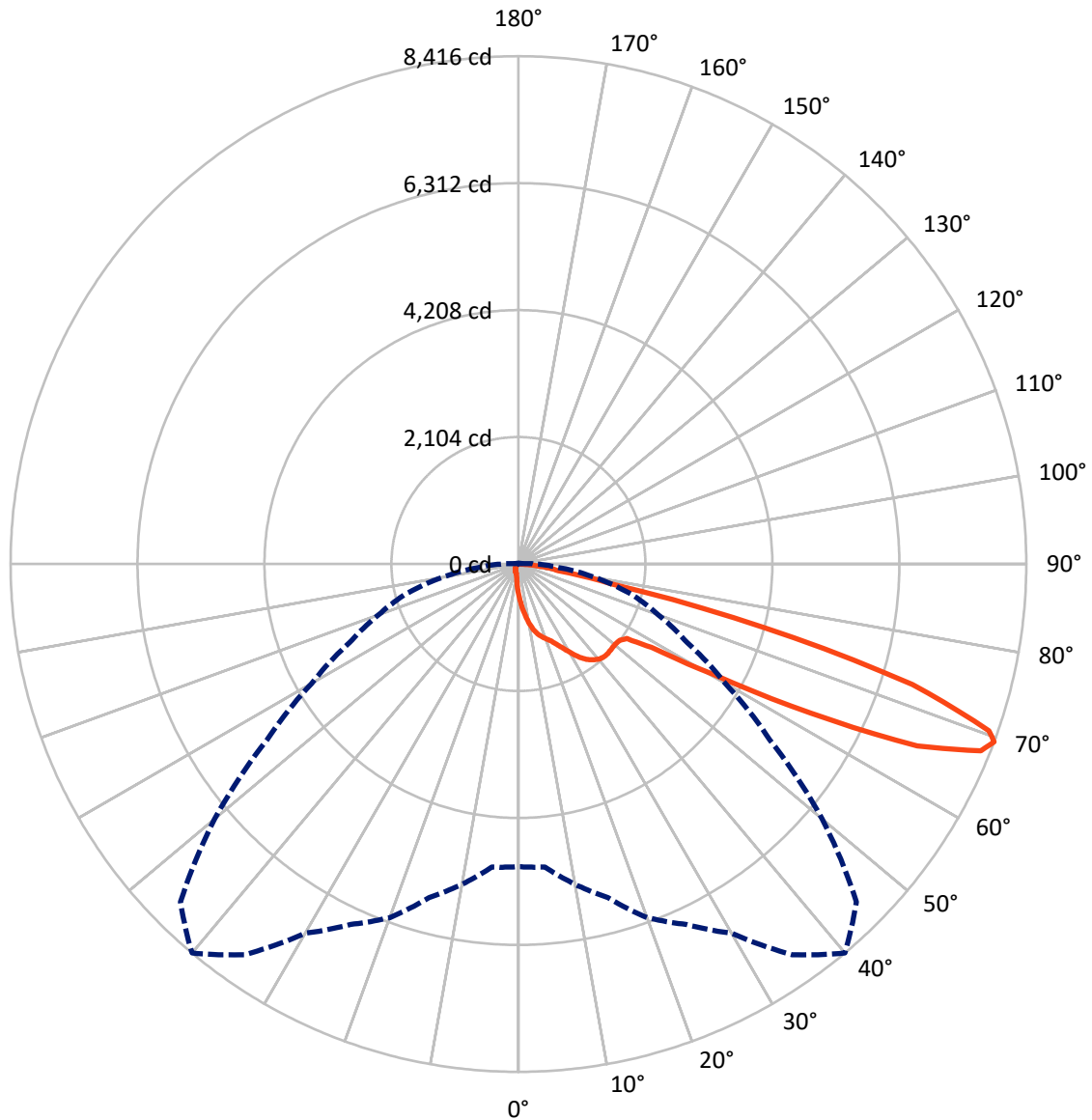


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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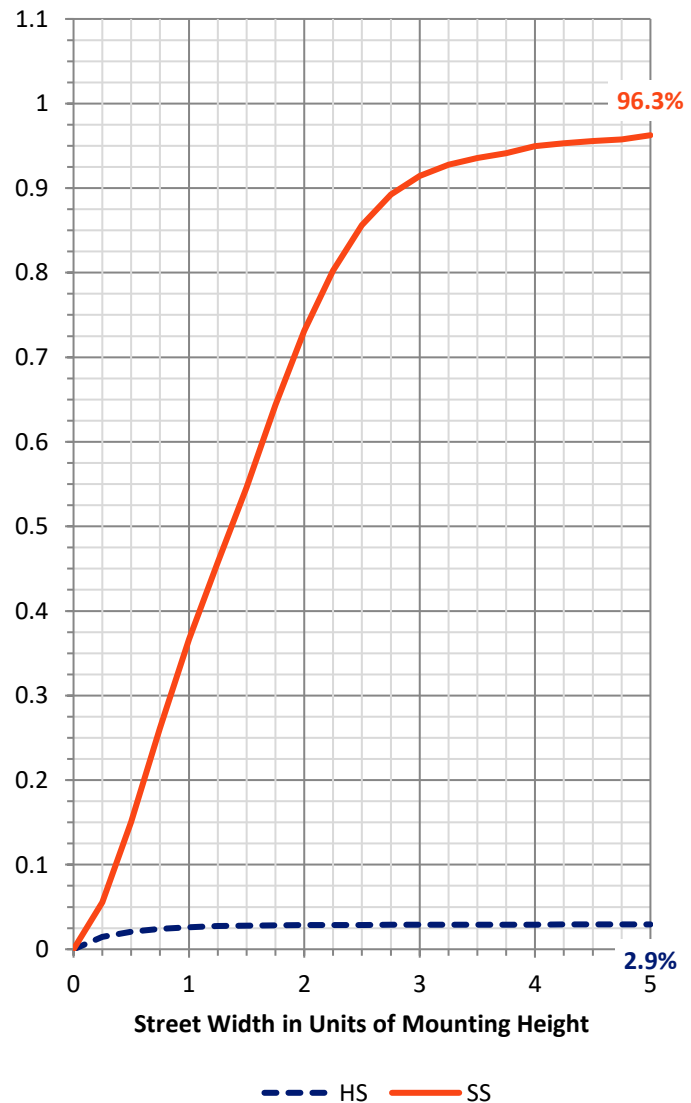
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.7	0.0	197.7
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	6441.1	0.0	6441.1
	% Fixture	97.0	0.0	97.0
Total	Lumens	6638.8	0.0	6638.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	0.8
10°-20°	177.7	2.7
20°-30°	340.0	5.1
30°-40°	565.5	8.5
40°-50°	765.2	11.5
50°-60°	1196.7	18.0
60°-70°	2460.5	37.1
70°-80°	990.1	14.9
80°-90°	91.6	1.4
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°	6638.8	100.0
0°-180°	6638.8	100.0



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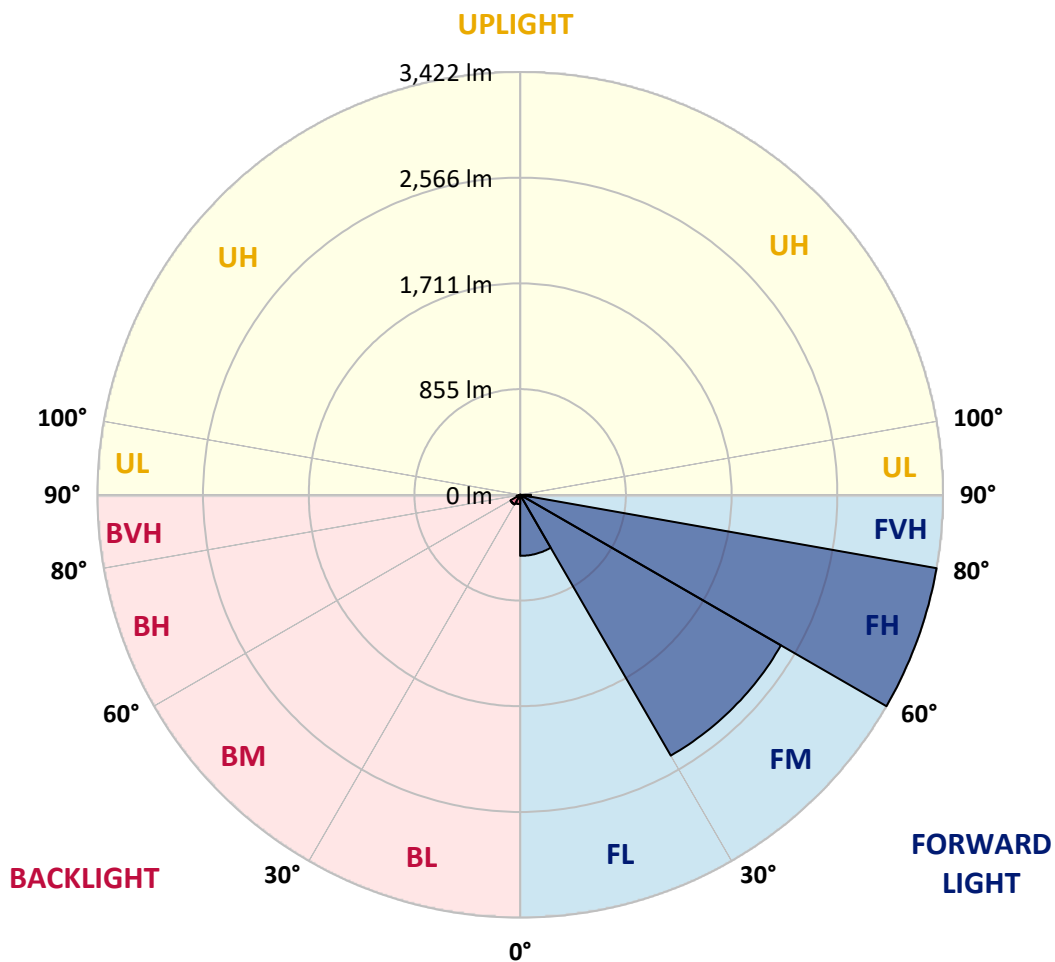
CATALOG NUMBER: VTS-F04-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.1	7.4			
FM	(30°-60°)	2437.2	36.7			
FH	(60°-80°)	3421.7	51.5			G2/5000
FVH	(80°-90°)	88.2	1.3			G1/100
BL	(0°-30°)	75.2	1.1	B0/110		
BM	(30°-60°)	90.3	1.4	B0/220		
BH	(60°-80°)	28.8	0.4	B0/110		G0/110
BVH	(80°-90°)	3.4	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4
2.5°	668.9	661.2	652.5	652.5	641.7	641.7	635.1	617.8	615.6	605.7	596.0
5°	853.7	847.2	836.4	826.5	817.9	802.6	791.7	771.0	748.3	726.5	706.9
7.5°	1034.3	1031.0	1011.4	1008.1	994.0	969.0	947.2	916.8	877.6	847.2	811.3
10°	1201.8	1194.1	1189.7	1171.3	1150.6	1123.4	1089.7	1052.8	1007.1	959.2	908.1
12.5°	1334.4	1330.1	1310.5	1302.9	1281.1	1253.9	1211.5	1163.7	1118.0	1056.0	996.2
15°	1433.4	1425.8	1412.7	1400.8	1374.7	1350.8	1311.6	1259.4	1203.9	1136.5	1064.7
17.5°	1516.1	1501.9	1498.6	1480.1	1453.0	1424.7	1381.2	1333.3	1268.1	1200.6	1122.3
20°	1626.9	1607.4	1600.9	1573.6	1542.1	1503.0	1453.0	1393.2	1324.6	1250.7	1170.2
22.5°	1757.4	1743.3	1729.2	1705.3	1665.1	1609.6	1536.7	1471.5	1384.4	1302.9	1215.9
25°	1942.4	1930.4	1907.6	1874.9	1824.9	1758.6	1670.5	1574.8	1472.5	1368.1	1265.9
27.5°	2121.8	2110.9	2094.6	2069.6	2013.0	1940.2	1831.4	1709.6	1580.2	1454.0	1340.9
30°	2290.4	2280.6	2264.2	2239.3	2189.2	2117.4	1994.5	1864.0	1703.1	1556.3	1420.4
32.5°	2472.0	2468.7	2450.2	2414.4	2370.8	2274.1	2140.3	2000.0	1836.9	1667.2	1508.4
35°	2677.5	2652.5	2635.1	2599.2	2525.3	2422.0	2265.4	2112.0	1940.2	1766.2	1588.9
37.5°	2851.6	2827.7	2805.9	2760.2	2669.9	2538.3	2361.1	2192.5	2015.2	1837.9	1657.4
40°	2978.8	2966.8	2940.7	2880.9	2779.8	2623.2	2431.7	2247.9	2069.6	1891.2	1712.9
42.5°	3073.4	3054.9	3025.6	2963.6	2844.0	2665.6	2460.0	2270.8	2094.6	1923.9	1748.8
45°	3108.2	3093.0	3065.8	2998.4	2868.9	2677.5	2458.9	2264.2	2095.7	1933.6	1772.7
47.5°	3087.5	3072.3	3048.4	2985.3	2858.1	2663.4	2439.4	2245.8	2084.8	1936.9	1794.4
50°	3019.0	3010.3	2991.8	2938.5	2824.4	2636.2	2422.0	2236.0	2082.6	1953.3	1824.9
52.5°	3012.5	3007.1	2984.2	2930.9	2814.6	2627.5	2419.8	2241.5	2101.1	1973.9	1846.7
55°	3681.3	3604.1	3431.2	3284.4	3043.0	2755.9	2529.6	2329.5	2179.5	2055.5	1966.3
57.5°	5232.2	5116.9	4889.6	4610.1	4055.4	3510.6	3074.5	2759.1	2603.6	2547.0	2580.7
60°	5958.6	5938.0	5902.1	5769.4	5485.6	5016.9	4494.8	3930.4	3704.2	3684.6	3753.1
62.5°	6303.4	6290.4	6301.3	6285.0	6196.9	6059.8	5909.7	5666.1	5442.1	5297.4	4990.7
65°	6462.2	6470.9	6532.9	6581.8	6592.7	6628.6	6738.5	7041.9	7263.7	6890.7	6039.1
67.5°	6058.7	6109.8	6252.3	6430.6	6639.5	6841.8	7168.0	7807.5	8263.2	7824.9	6615.6
69°	5015.8	5040.8	5388.8	5724.9	6234.9	6591.7	7064.7	7903.2	8415.5	7920.6	6569.9
70°	3948.8	3971.7	4344.8	4801.5	5664.0	6122.9	6741.7	7741.2	8272.9	7793.4	6334.9
72.5°	1781.4	1748.8	1880.3	2125.0	3062.5	3791.2	4873.3	6271.9	6825.4	6243.6	4739.5
75°	1244.2	1230.0	1244.2	1245.2	1391.0	1794.4	2264.2	3399.6	4204.4	3628.1	2264.2
77.5°	963.6	953.8	944.0	933.1	950.5	1064.7	1110.4	1206.1	1566.1	1481.3	863.5
80°	762.4	753.7	777.6	770.0	770.0	783.1	774.3	738.4	671.0	622.0	556.8
82.5°	354.5	356.7	356.7	387.1	466.6	544.8	569.9	534.0	474.2	403.5	325.2
85°	33.7	38.0	64.2	99.0	196.9	221.8	223.0	184.9	184.9	145.8	117.4
87.5°	0.0	1.1	1.1	1.1	9.8	27.2	22.9	6.5	3.2	3.2	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4
2.5°	578.6	575.3	562.3	549.2	537.3	524.2	512.2	500.3	487.2	477.4	465.5
5°	676.5	652.5	625.4	599.3	573.1	546.0	517.7	492.7	466.6	442.6	419.8
7.5°	775.4	728.6	691.7	644.9	602.5	560.1	520.9	480.7	443.7	408.9	376.3
10°	859.1	802.6	745.0	685.2	624.2	567.7	513.3	465.5	416.5	374.1	333.9
12.5°	927.7	855.9	785.2	710.1	641.7	569.9	502.4	444.8	387.1	339.3	298.0
15°	989.6	907.0	822.2	735.2	648.2	566.6	491.6	419.8	361.1	306.7	259.9
17.5°	1039.7	945.1	849.4	751.5	658.0	562.3	477.4	402.4	333.9	277.3	231.7
20°	1083.2	984.2	880.9	771.0	664.5	561.2	465.5	380.7	309.9	250.2	205.5
22.5°	1123.4	1024.4	913.6	796.1	674.3	560.1	454.6	364.4	289.3	229.5	184.9
25°	1169.1	1064.7	948.4	822.2	691.7	564.5	448.1	351.3	270.8	209.9	168.5
27.5°	1220.3	1110.4	989.6	854.8	714.5	573.1	445.9	337.1	254.5	191.4	155.5
30°	1292.0	1164.8	1031.0	887.4	735.2	583.0	443.7	328.4	238.1	177.3	142.5
32.5°	1355.1	1218.1	1076.7	921.2	758.0	592.7	442.6	316.5	223.0	163.1	132.7
35°	1421.4	1267.0	1115.8	953.8	777.6	603.6	441.6	307.8	208.8	149.0	122.9
37.5°	1479.1	1308.3	1146.3	982.0	799.4	613.4	442.6	300.2	195.7	137.0	114.2
40°	1528.0	1350.8	1180.0	1008.1	822.2	628.6	443.7	292.6	182.7	126.1	106.6
42.5°	1571.5	1391.0	1215.9	1037.5	848.3	646.0	450.3	286.0	171.8	116.4	99.0
45°	1605.2	1428.0	1255.0	1078.9	890.7	674.3	462.2	281.7	160.9	107.6	92.5
47.5°	1640.0	1482.3	1321.4	1144.1	952.7	718.9	482.9	280.6	152.2	101.1	87.0
50°	1687.9	1536.7	1380.1	1210.4	1009.3	764.6	507.9	281.7	141.4	94.6	81.6
52.5°	1722.7	1592.1	1456.2	1325.7	1144.1	903.7	604.7	301.2	135.9	89.2	75.0
55°	1928.2	1905.4	1908.6	1930.4	1790.1	1537.8	1011.4	435.0	159.9	101.1	74.0
57.5°	2718.9	2799.3	2846.1	2845.0	2613.3	2167.5	1358.4	559.0	178.4	117.4	88.1
60°	3758.6	3697.7	3611.8	3399.6	3091.9	2474.2	1519.3	601.4	154.4	93.5	80.5
62.5°	4677.6	4320.8	4004.3	3660.7	3257.2	2580.7	1551.9	598.1	134.9	70.7	56.5
65°	5250.7	4609.0	4097.9	3667.2	3191.9	2491.6	1468.2	549.2	114.2	57.7	46.8
67.5°	5387.7	4453.5	3730.3	3181.0	2666.6	1939.1	1077.7	413.3	89.2	47.9	41.3
69°	5088.6	3958.7	3090.8	2467.7	1940.2	1286.6	666.7	261.0	68.5	43.5	38.0
70°	4680.8	3443.2	2517.7	1980.4	1436.7	903.7	466.6	183.8	55.5	40.2	34.8
72.5°	3011.4	1808.6	1237.6	861.3	592.7	360.0	182.7	82.7	42.4	33.7	28.3
75°	1168.0	668.9	485.1	368.6	288.2	200.1	111.0	53.3	35.9	28.3	21.7
77.5°	575.3	440.4	360.0	246.9	143.6	89.2	59.8	41.3	29.4	20.7	14.1
80°	454.6	302.3	180.6	112.0	84.8	64.2	45.7	33.7	21.7	13.1	9.8
82.5°	232.7	127.3	93.5	76.1	63.1	50.1	37.0	23.9	14.1	8.7	7.6
85°	72.8	53.3	47.9	46.8	43.5	35.9	26.1	15.3	8.7	5.4	5.4
87.5°	5.4	7.6	9.8	7.6	8.7	7.6	9.8	6.5	4.4	4.4	3.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4
2.5°	456.7	443.7	431.8	424.1	410.0	404.6	399.2	397.0	387.1	389.3	380.7
5°	399.2	376.3	358.9	341.5	325.2	313.2	303.4	291.4	281.7	277.3	268.6
7.5°	346.9	317.6	294.7	276.3	256.6	241.4	228.4	219.7	211.0	202.3	197.9
10°	301.2	269.7	243.6	225.1	206.6	193.6	183.8	177.3	171.8	168.5	167.5
12.5°	258.8	228.4	204.5	188.2	174.0	167.5	163.1	159.9	158.8	157.7	157.7
15°	226.2	195.7	177.3	165.3	158.8	155.5	154.4	152.2	150.1	149.0	149.0
17.5°	195.7	172.9	159.9	153.3	150.1	147.9	145.8	143.6	141.4	140.3	140.3
20°	175.1	156.6	150.1	145.8	142.5	140.3	137.0	134.9	133.8	132.7	131.6
22.5°	158.8	146.8	142.5	139.2	134.9	131.6	129.4	127.3	125.1	124.0	122.9
25°	146.8	139.2	135.9	131.6	127.3	124.0	120.7	117.4	115.3	114.2	112.0
27.5°	138.1	132.7	128.3	122.9	118.5	115.3	112.0	108.8	106.6	104.4	103.3
30°	130.5	125.1	119.6	115.3	109.8	106.6	102.2	99.0	97.9	95.7	93.5
32.5°	122.9	117.4	112.0	106.6	101.1	96.8	94.6	90.3	88.1	87.0	84.8
35°	114.2	108.8	102.2	97.9	92.5	88.1	84.8	81.6	79.4	77.2	76.1
37.5°	106.6	100.1	93.5	88.1	83.7	79.4	76.1	72.8	70.7	68.5	67.4
40°	97.9	91.3	84.8	79.4	75.0	71.8	68.5	65.2	63.1	62.0	62.0
42.5°	90.3	82.7	76.1	71.8	68.5	64.2	60.9	57.7	56.5	55.5	56.5
45°	82.7	75.0	69.6	65.2	62.0	57.7	54.4	52.2	51.1	52.2	53.3
47.5°	76.1	68.5	63.1	59.8	56.5	53.3	50.1	47.9	47.9	50.1	52.2
50°	69.6	62.0	57.7	55.5	52.2	48.9	44.6	43.5	44.6	46.8	48.9
52.5°	63.1	54.4	51.1	50.1	46.8	43.5	40.2	39.2	40.2	42.4	41.3
55°	56.5	47.9	46.8	45.7	42.4	38.0	34.8	34.8	34.8	33.7	31.6
57.5°	54.4	42.4	41.3	40.2	37.0	32.6	30.4	28.3	27.2	23.9	22.9
60°	56.5	38.0	38.0	35.9	32.6	28.3	25.0	21.7	19.5	17.4	17.4
62.5°	45.7	34.8	33.7	31.6	27.2	22.9	19.5	16.3	15.3	14.1	14.1
65°	37.0	31.6	29.4	26.1	22.9	18.5	15.3	13.1	12.0	12.0	13.1
67.5°	33.7	28.3	25.0	21.7	18.5	14.1	12.0	10.9	10.9	12.0	12.0
69°	31.6	26.1	22.9	19.5	16.3	13.1	10.9	10.9	10.9	10.9	12.0
70°	29.4	25.0	21.7	18.5	14.1	10.9	9.8	9.8	10.9	10.9	12.0
72.5°	22.9	19.5	18.5	15.3	10.9	9.8	8.7	9.8	9.8	10.9	10.9
75°	17.4	14.1	14.1	12.0	8.7	7.6	7.6	8.7	8.7	9.8	9.8
77.5°	12.0	9.8	9.8	8.7	7.6	6.5	6.5	7.6	8.7	8.7	9.8
80°	8.7	7.6	6.5	7.6	6.5	5.4	6.5	7.6	7.6	8.7	8.7
82.5°	6.5	6.5	6.5	6.5	5.4	5.4	6.5	6.5	7.6	8.7	8.7
85°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	6.5	7.6	7.6
87.5°	3.2	3.2	3.2	4.4	4.4	5.4	5.4	5.4	5.4	6.5	6.5
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):

	165°	170°	175°	180°
0°	501.4	501.4	501.4	501.4
2.5°	378.5	377.4	373.0	374.1
5°	265.4	258.8	263.2	262.1
7.5°	194.7	193.6	192.5	194.7
10°	166.4	166.4	165.3	166.4
12.5°	156.6	156.6	156.6	156.6
15°	149.0	149.0	147.9	147.9
17.5°	140.3	140.3	140.3	139.2
20°	131.6	130.5	130.5	130.5
22.5°	121.8	120.7	120.7	120.7
25°	112.0	111.0	111.0	111.0
27.5°	102.2	101.1	100.1	100.1
30°	92.5	91.3	90.3	90.3
32.5°	82.7	81.6	80.5	80.5
35°	74.0	74.0	72.8	71.8
37.5°	66.4	66.4	66.4	66.4
40°	60.9	62.0	62.0	62.0
42.5°	57.7	58.7	59.8	60.9
45°	55.5	57.7	58.7	58.7
47.5°	54.4	55.5	56.5	56.5
50°	50.1	48.9	48.9	48.9
52.5°	40.2	38.0	37.0	35.9
55°	29.4	28.3	26.1	26.1
57.5°	20.7	20.7	19.5	19.5
60°	16.3	16.3	15.3	16.3
62.5°	14.1	14.1	14.1	14.1
65°	13.1	13.1	13.1	13.1
67.5°	13.1	13.1	13.1	13.1
69°	12.0	12.0	12.0	12.0
70°	12.0	12.0	12.0	12.0
72.5°	10.9	10.9	10.9	10.9
75°	9.8	10.9	10.9	10.9
77.5°	9.8	9.8	9.8	9.8
80°	8.7	8.7	9.8	9.8
82.5°	8.7	8.7	8.7	8.7
85°	7.6	7.6	8.7	8.7
87.5°	6.5	6.5	7.6	7.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)