

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: P165345

Luminaire Tested: **VTS-E02-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165345
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-E02-LED-E1-SL4-HSS-8030
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

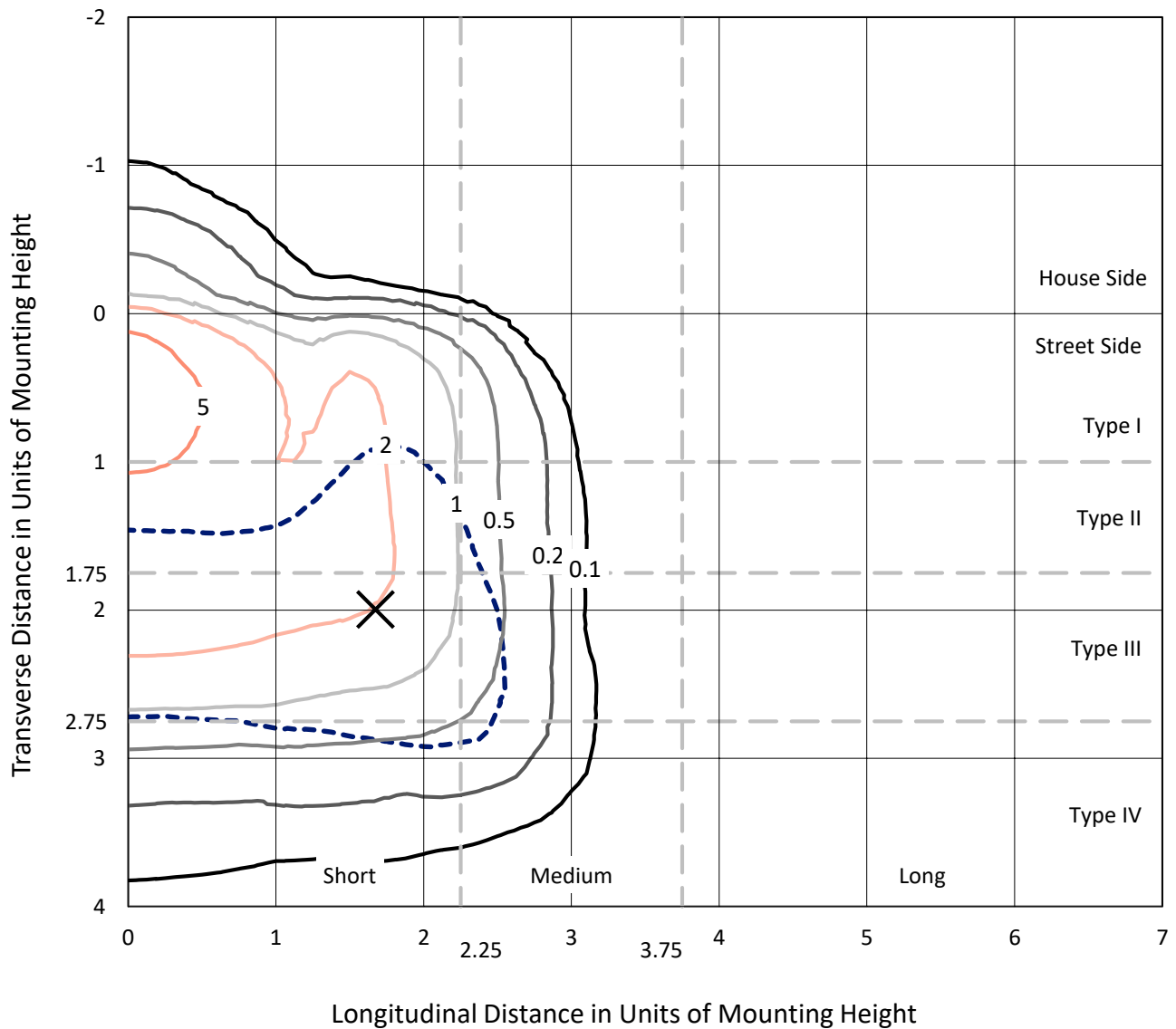
Lumens per Lamp: N/A
Luminaire Lumens: 3393.7 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

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

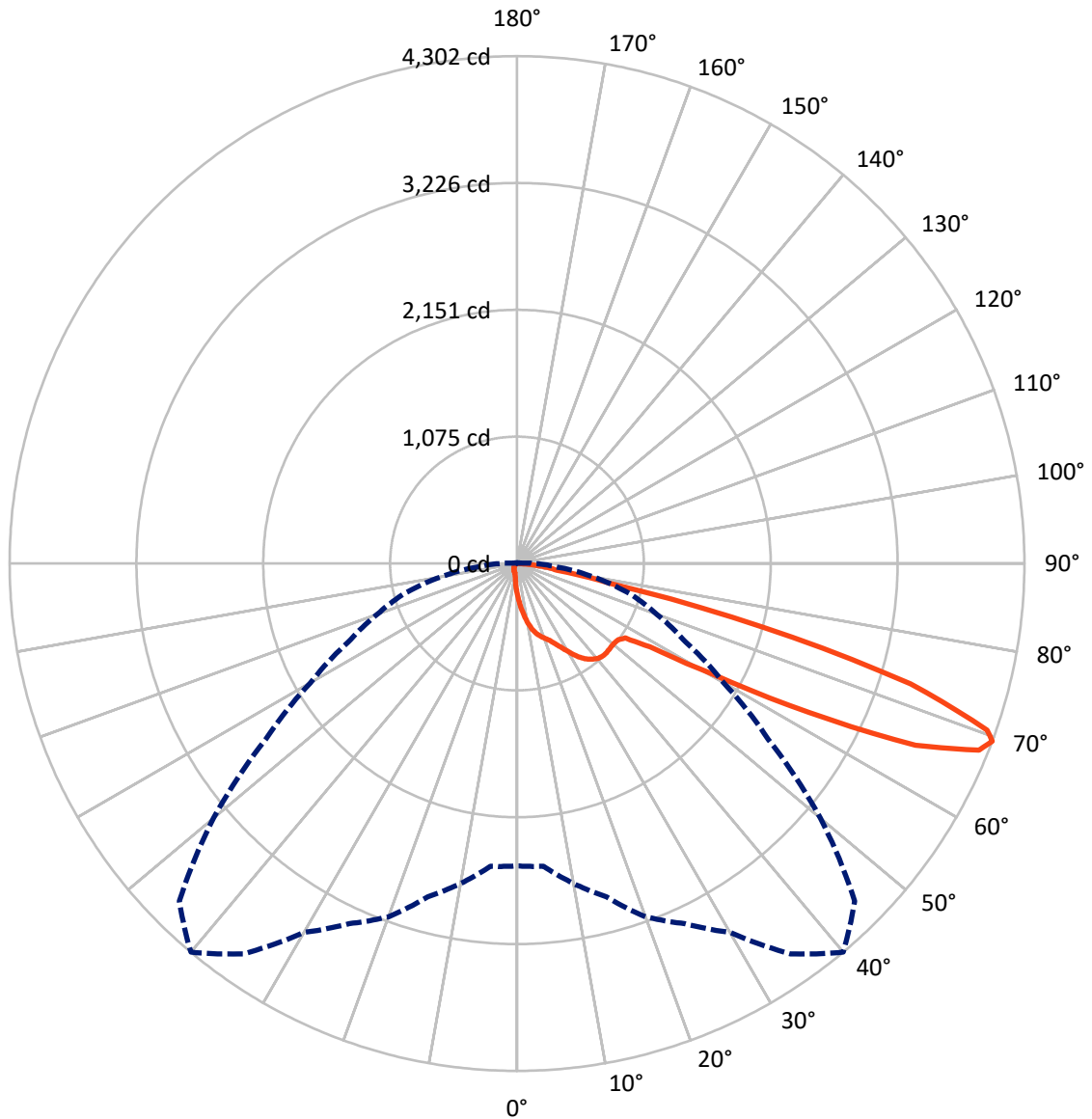
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.6 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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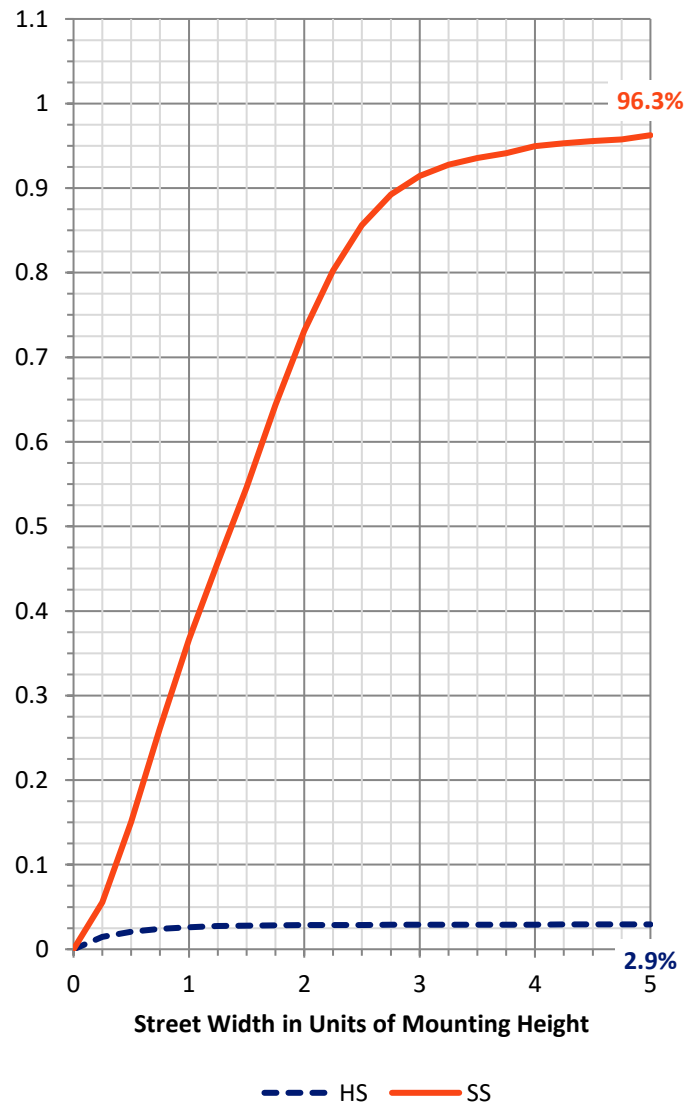
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	101.1	0.0	101.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	3292.6	0.0	3292.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	3393.7	0.0	3393.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	0.8
10°-20°	90.8	2.7
20°-30°	173.8	5.1
30°-40°	289.1	8.5
40°-50°	391.2	11.5
50°-60°	611.8	18.0
60°-70°	1257.8	37.1
70°-80°	506.1	14.9
80°-90°	46.8	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°	3393.7	100.0
0°-180°	3393.7	100.0



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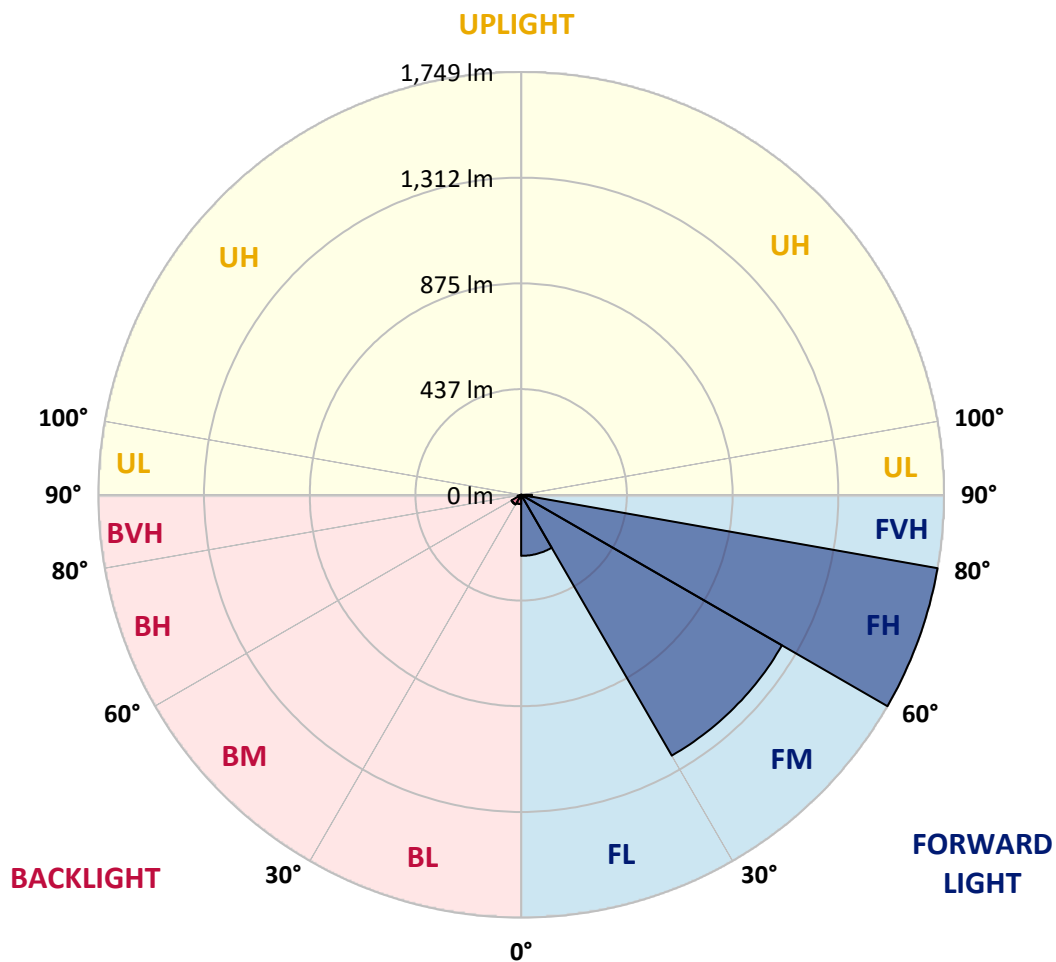
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.6	7.4			
FM	(30°-60°)	1245.9	36.7			
FH	(60°-80°)	1749.1	51.5			G1/1800
FVH	(80°-90°)	45.1	1.3			G1/100
BL	(0°-30°)	38.4	1.1	B0/110		
BM	(30°-60°)	46.1	1.4	B0/220		
BH	(60°-80°)	14.7	0.4	B0/110		G0/110
BVH	(80°-90°)	1.7	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3
2.5°	341.9	338.0	333.5	333.5	328.0	328.0	324.7	315.8	314.7	309.6	304.6
5°	436.4	433.1	427.5	422.5	418.1	410.3	404.7	394.1	382.5	371.4	361.4
7.5°	528.7	527.0	517.0	515.3	508.1	495.4	484.2	468.7	448.6	433.1	414.7
10°	614.3	610.4	608.2	598.7	588.2	574.3	557.0	538.2	514.8	490.3	464.2
12.5°	682.1	679.9	669.9	666.0	654.9	641.0	619.3	594.8	571.5	539.8	509.2
15°	732.7	728.8	722.2	716.0	702.7	690.5	670.5	643.8	615.4	581.0	544.3
17.5°	775.0	767.8	766.1	756.6	742.7	728.3	706.0	681.6	648.2	613.8	573.7
20°	831.7	821.7	818.3	804.4	788.3	768.3	742.7	712.2	677.1	639.3	598.2
22.5°	898.4	891.2	883.9	871.7	851.1	822.8	785.6	752.2	707.7	666.0	621.5
25°	992.9	986.8	975.1	958.4	932.8	899.0	853.9	805.0	752.7	699.4	647.1
27.5°	1084.6	1079.1	1070.7	1058.0	1029.0	991.8	936.2	873.9	807.8	743.3	685.5
30°	1170.8	1165.8	1157.4	1144.7	1119.1	1082.4	1019.6	952.9	870.6	795.5	726.1
32.5°	1263.7	1262.0	1252.5	1234.2	1211.9	1162.5	1094.1	1022.4	939.0	852.3	771.1
35°	1368.7	1355.9	1347.0	1328.7	1290.9	1238.1	1158.0	1079.6	991.8	902.8	812.2
37.5°	1457.7	1445.5	1434.3	1411.0	1364.8	1297.6	1206.9	1120.8	1030.1	939.5	847.2
40°	1522.7	1516.6	1503.2	1472.7	1421.0	1340.9	1243.1	1149.1	1058.0	966.8	875.6
42.5°	1571.1	1561.6	1546.6	1514.9	1453.8	1362.6	1257.5	1160.8	1070.7	983.5	894.0
45°	1588.9	1581.1	1567.2	1532.7	1466.6	1368.7	1257.0	1157.4	1071.3	988.4	906.2
47.5°	1578.3	1570.5	1558.3	1526.0	1461.0	1361.5	1247.0	1148.0	1065.7	990.1	917.3
50°	1543.3	1538.8	1529.4	1502.1	1443.8	1347.6	1238.1	1143.0	1064.6	998.5	932.8
52.5°	1539.9	1537.2	1525.5	1498.3	1438.8	1343.1	1237.0	1145.8	1074.1	1009.0	944.0
55°	1881.8	1842.4	1754.0	1678.9	1555.5	1408.8	1293.1	1190.8	1114.1	1050.7	1005.1
57.5°	2674.6	2615.7	2499.5	2356.6	2073.1	1794.6	1571.6	1410.4	1330.9	1302.0	1319.2
60°	3046.0	3035.4	3017.1	2949.2	2804.1	2564.6	2297.7	2009.2	1893.5	1883.5	1918.5
62.5°	3222.2	3215.5	3221.1	3212.8	3167.7	3097.7	3020.9	2896.4	2781.9	2708.0	2551.2
65°	3303.4	3307.8	3339.5	3364.5	3370.1	3388.4	3444.6	3599.7	3713.1	3522.4	3087.1
67.5°	3097.1	3123.2	3196.1	3287.2	3394.0	3497.4	3664.2	3991.1	4224.0	4000.0	3381.8
69°	2564.0	2576.8	2754.7	2926.5	3187.2	3369.5	3611.4	4040.0	4301.9	4048.9	3358.4
70°	2018.6	2030.3	2221.0	2454.5	2895.3	3129.9	3446.3	3957.2	4229.0	3983.8	3238.3
72.5°	910.6	894.0	961.2	1086.3	1565.5	1938.0	2491.2	3206.1	3489.1	3191.6	2422.8
75°	636.0	628.8	636.0	636.5	711.0	917.3	1157.4	1737.8	2149.2	1854.6	1157.4
77.5°	492.6	487.6	482.6	477.0	485.9	544.3	567.6	616.5	800.5	757.2	441.4
80°	389.7	385.3	397.5	393.6	393.6	400.3	395.8	377.5	343.0	318.0	284.6
82.5°	181.2	182.3	182.3	197.9	238.5	278.5	291.3	273.0	242.4	206.2	166.2
85°	17.2	19.4	32.8	50.6	100.6	113.4	114.0	94.5	94.5	74.5	60.0
87.5°	0.0	0.5	0.5	0.5	5.0	13.9	11.7	3.3	1.7	1.7	2.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3
2.5°	295.8	294.1	287.4	280.7	274.6	268.0	261.8	255.7	249.0	244.0	237.9
5°	345.8	333.5	319.7	306.3	293.0	279.1	264.6	251.8	238.5	226.3	214.6
7.5°	396.4	372.5	353.6	329.7	308.0	286.3	266.3	245.7	226.8	209.0	192.4
10°	439.2	410.3	380.8	350.3	319.1	290.2	262.4	237.9	212.9	191.2	170.7
12.5°	474.2	437.5	401.4	363.0	328.0	291.3	256.8	227.4	197.9	173.5	152.3
15°	505.9	463.7	420.3	375.8	331.4	289.7	251.3	214.6	184.6	156.8	132.9
17.5°	531.5	483.1	434.2	384.2	336.3	287.4	244.0	205.7	170.7	141.8	118.4
20°	553.7	503.1	450.3	394.1	339.7	286.9	237.9	194.6	158.4	127.9	105.1
22.5°	574.3	523.7	467.0	406.9	344.7	286.3	232.4	186.3	147.9	117.3	94.5
25°	597.6	544.3	484.8	420.3	353.6	288.5	229.1	179.6	138.4	107.3	86.2
27.5°	623.8	567.6	505.9	437.0	365.2	293.0	227.9	172.3	130.1	97.8	79.5
30°	660.4	595.4	527.0	453.6	375.8	298.0	226.8	167.9	121.7	90.6	72.8
32.5°	692.7	622.7	550.4	470.9	387.5	303.0	226.3	161.8	114.0	83.4	67.8
35°	726.6	647.7	570.4	487.6	397.5	308.5	225.7	157.3	106.7	76.2	62.8
37.5°	756.1	668.8	586.0	502.0	408.6	313.6	226.3	153.4	100.1	70.1	58.4
40°	781.1	690.5	603.2	515.3	420.3	321.3	226.8	149.6	93.4	64.5	54.5
42.5°	803.3	711.0	621.5	530.4	433.6	330.2	230.2	146.2	87.8	59.5	50.6
45°	820.6	730.0	641.5	551.5	455.3	344.7	236.3	144.0	82.3	55.0	47.3
47.5°	838.4	757.7	675.5	584.9	487.0	367.5	246.9	143.4	77.8	51.7	44.5
50°	862.8	785.6	705.5	618.7	515.9	390.8	259.6	144.0	72.3	48.4	41.7
52.5°	880.6	813.9	744.4	677.7	584.9	462.0	309.1	154.0	69.5	45.6	38.4
55°	985.7	974.0	975.7	986.8	915.1	786.1	517.0	222.4	81.7	51.7	37.8
57.5°	1389.9	1431.0	1454.9	1454.3	1335.9	1108.0	694.4	285.7	91.2	60.0	45.0
60°	1921.3	1890.2	1846.3	1737.8	1580.5	1264.8	776.6	307.4	78.9	47.8	41.2
62.5°	2391.1	2208.7	2046.9	1871.3	1665.0	1319.2	793.3	305.8	68.9	36.1	28.9
65°	2684.1	2356.1	2094.8	1874.6	1631.7	1273.6	750.5	280.7	58.4	29.5	23.9
67.5°	2754.1	2276.5	1906.9	1626.1	1363.1	991.3	550.9	211.3	45.6	24.5	21.1
69°	2601.2	2023.6	1580.0	1261.4	991.8	657.7	340.8	133.4	35.0	22.2	19.4
70°	2392.7	1760.1	1287.0	1012.4	734.4	462.0	238.5	94.0	28.4	20.6	17.8
72.5°	1539.4	924.5	632.7	440.3	303.0	184.0	93.4	42.3	21.7	17.2	14.4
75°	597.1	341.9	248.0	188.4	147.3	102.3	56.7	27.2	18.3	14.4	11.1
77.5°	294.1	225.1	184.0	126.2	73.4	45.6	30.6	21.1	15.0	10.6	7.2
80°	232.4	154.6	92.3	57.3	43.3	32.8	23.4	17.2	11.1	6.7	5.0
82.5°	119.0	65.1	47.8	38.9	32.2	25.6	18.9	12.2	7.2	4.5	3.9
85°	37.2	27.2	24.5	23.9	22.2	18.3	13.3	7.8	4.5	2.8	2.8
87.5°	2.8	3.9	5.0	3.9	4.5	3.9	5.0	3.3	2.2	2.2	1.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3	256.3
2.5°	233.5	226.8	220.7	216.8	209.6	206.8	204.0	202.9	197.9	199.0	194.6
5°	204.0	192.4	183.4	174.6	166.2	160.1	155.1	149.0	144.0	141.8	137.3
7.5°	177.3	162.4	150.7	141.2	131.2	123.4	116.7	112.3	107.9	103.4	101.2
10°	154.0	137.9	124.5	115.1	105.6	98.9	94.0	90.6	87.8	86.2	85.6
12.5°	132.3	116.7	104.5	96.2	89.0	85.6	83.4	81.7	81.2	80.6	80.6
15°	115.6	100.1	90.6	84.5	81.2	79.5	78.9	77.8	76.7	76.2	76.2
17.5°	100.1	88.4	81.7	78.4	76.7	75.6	74.5	73.4	72.3	71.7	71.7
20°	89.5	80.0	76.7	74.5	72.8	71.7	70.1	68.9	68.4	67.8	67.3
22.5°	81.2	75.0	72.8	71.2	68.9	67.3	66.2	65.1	63.9	63.4	62.8
25°	75.0	71.2	69.5	67.3	65.1	63.4	61.7	60.0	58.9	58.4	57.3
27.5°	70.6	67.8	65.6	62.8	60.6	58.9	57.3	55.6	54.5	53.4	52.8
30°	66.7	63.9	61.1	58.9	56.1	54.5	52.3	50.6	50.0	48.9	47.8
32.5°	62.8	60.0	57.3	54.5	51.7	49.5	48.4	46.1	45.0	44.5	43.3
35°	58.4	55.6	52.3	50.0	47.3	45.0	43.3	41.7	40.6	39.5	38.9
37.5°	54.5	51.1	47.8	45.0	42.8	40.6	38.9	37.2	36.1	35.0	34.5
40°	50.0	46.7	43.3	40.6	38.4	36.7	35.0	33.4	32.2	31.7	31.7
42.5°	46.1	42.3	38.9	36.7	35.0	32.8	31.1	29.5	28.9	28.4	28.9
45°	42.3	38.4	35.6	33.4	31.7	29.5	27.8	26.7	26.1	26.7	27.2
47.5°	38.9	35.0	32.2	30.6	28.9	27.2	25.6	24.5	24.5	25.6	26.7
50°	35.6	31.7	29.5	28.4	26.7	25.0	22.8	22.2	22.8	23.9	25.0
52.5°	32.2	27.8	26.1	25.6	23.9	22.2	20.6	20.0	20.6	21.7	21.1
55°	28.9	24.5	23.9	23.4	21.7	19.4	17.8	17.8	17.8	17.2	16.1
57.5°	27.8	21.7	21.1	20.6	18.9	16.7	15.6	14.4	13.9	12.2	11.7
60°	28.9	19.4	19.4	18.3	16.7	14.4	12.8	11.1	10.0	8.9	8.9
62.5°	23.4	17.8	17.2	16.1	13.9	11.7	10.0	8.3	7.8	7.2	7.2
65°	18.9	16.1	15.0	13.3	11.7	9.5	7.8	6.7	6.1	6.1	6.7
67.5°	17.2	14.4	12.8	11.1	9.5	7.2	6.1	5.6	5.6	6.1	6.1
69°	16.1	13.3	11.7	10.0	8.3	6.7	5.6	5.6	5.6	5.6	6.1
70°	15.0	12.8	11.1	9.5	7.2	5.6	5.0	5.0	5.6	5.6	6.1
72.5°	11.7	10.0	9.5	7.8	5.6	5.0	4.5	5.0	5.0	5.6	5.6
75°	8.9	7.2	7.2	6.1	4.5	3.9	3.9	4.5	4.5	5.0	5.0
77.5°	6.1	5.0	5.0	4.5	3.9	3.3	3.3	3.9	4.5	4.5	5.0
80°	4.5	3.9	3.3	3.9	3.3	2.8	3.3	3.9	3.9	4.5	4.5
82.5°	3.3	3.3	3.3	3.3	2.8	2.8	3.3	3.3	3.9	4.5	4.5
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.3	3.3	3.9	3.9
87.5°	1.7	1.7	1.7	2.2	2.2	2.8	2.8	2.8	2.8	3.3	3.3
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):

	165°	170°	175°	180°
0°	256.3	256.3	256.3	256.3
2.5°	193.5	192.9	190.7	191.2
5°	135.6	132.3	134.5	134.0
7.5°	99.5	98.9	98.4	99.5
10°	85.1	85.1	84.5	85.1
12.5°	80.0	80.0	80.0	80.0
15°	76.2	76.2	75.6	75.6
17.5°	71.7	71.7	71.7	71.2
20°	67.3	66.7	66.7	66.7
22.5°	62.3	61.7	61.7	61.7
25°	57.3	56.7	56.7	56.7
27.5°	52.3	51.7	51.1	51.1
30°	47.3	46.7	46.1	46.1
32.5°	42.3	41.7	41.2	41.2
35°	37.8	37.8	37.2	36.7
37.5°	33.9	33.9	33.9	33.9
40°	31.1	31.7	31.7	31.7
42.5°	29.5	30.0	30.6	31.1
45°	28.4	29.5	30.0	30.0
47.5°	27.8	28.4	28.9	28.9
50°	25.6	25.0	25.0	25.0
52.5°	20.6	19.4	18.9	18.3
55°	15.0	14.4	13.3	13.3
57.5°	10.6	10.6	10.0	10.0
60°	8.3	8.3	7.8	8.3
62.5°	7.2	7.2	7.2	7.2
65°	6.7	6.7	6.7	6.7
67.5°	6.7	6.7	6.7	6.7
69°	6.1	6.1	6.1	6.1
70°	6.1	6.1	6.1	6.1
72.5°	5.6	5.6	5.6	5.6
75°	5.0	5.6	5.6	5.6
77.5°	5.0	5.0	5.0	5.0
80°	4.5	4.5	5.0	5.0
82.5°	4.5	4.5	4.5	4.5
85°	3.9	3.9	4.5	4.5
87.5°	3.3	3.3	3.9	3.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)