

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: P159414

Luminaire Tested: **VTS-F02-LED-E1-T3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159414  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)  
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-T3-7030  
Description: VENTUS LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4612 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

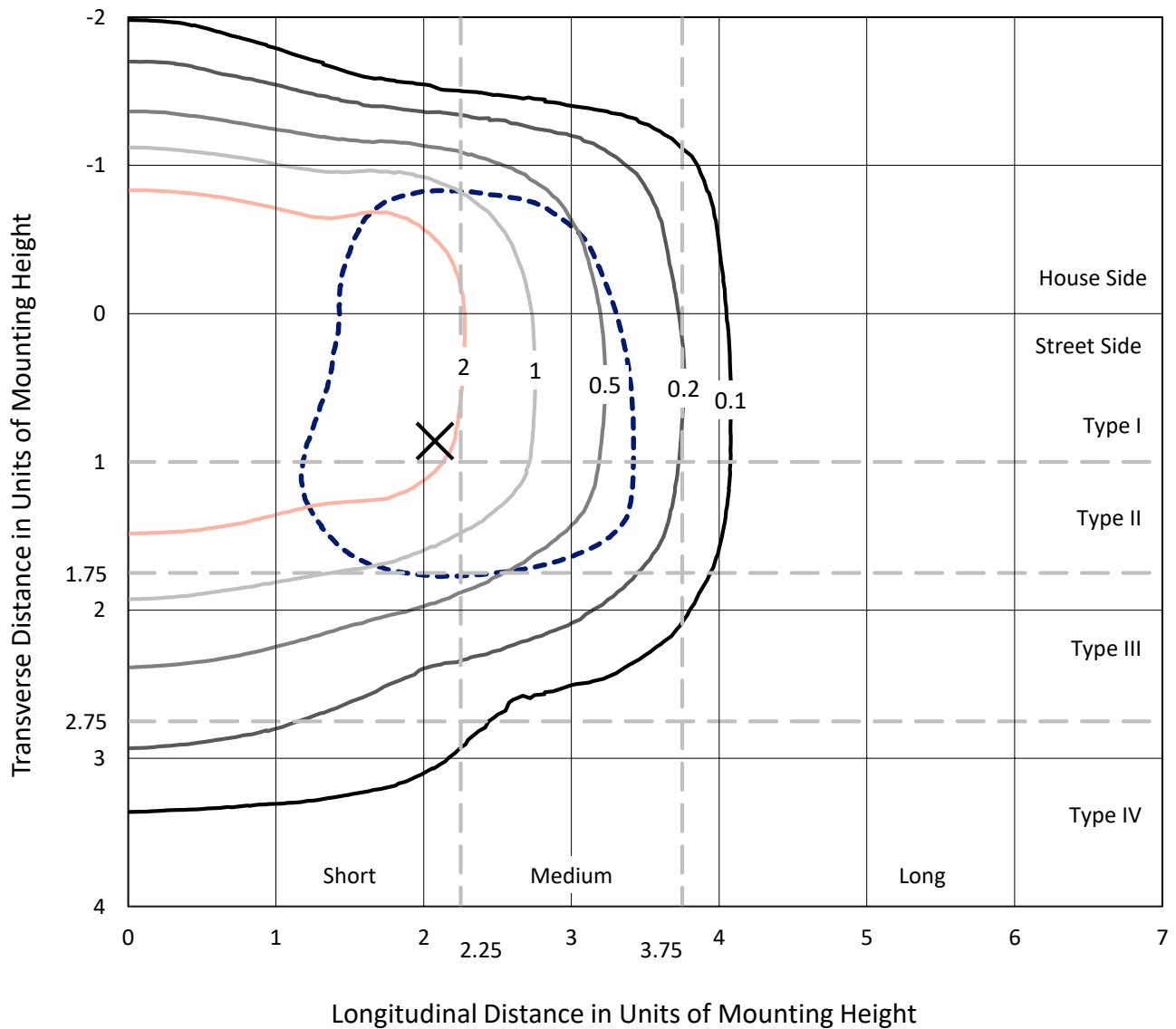
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

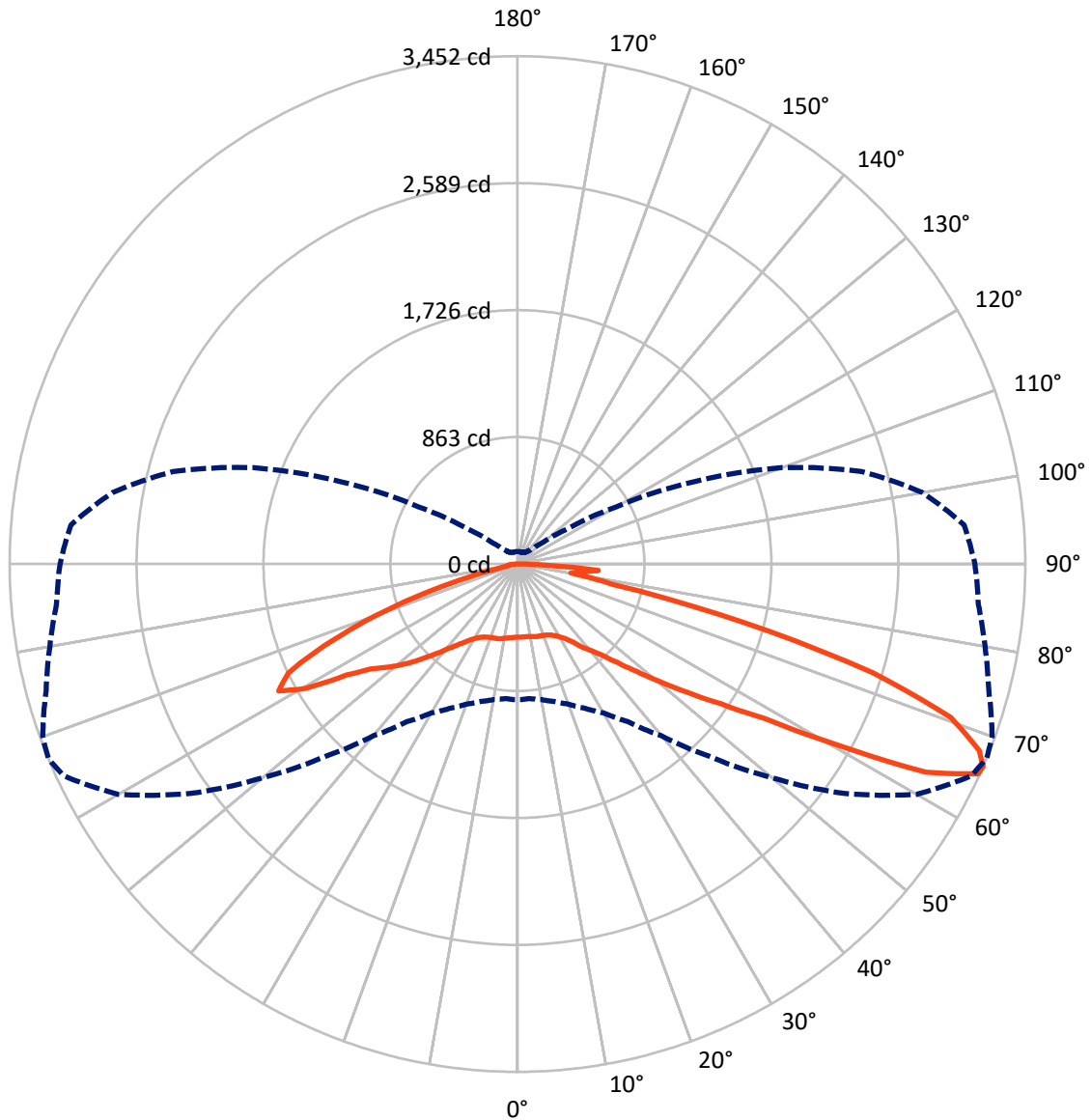


Based on 10 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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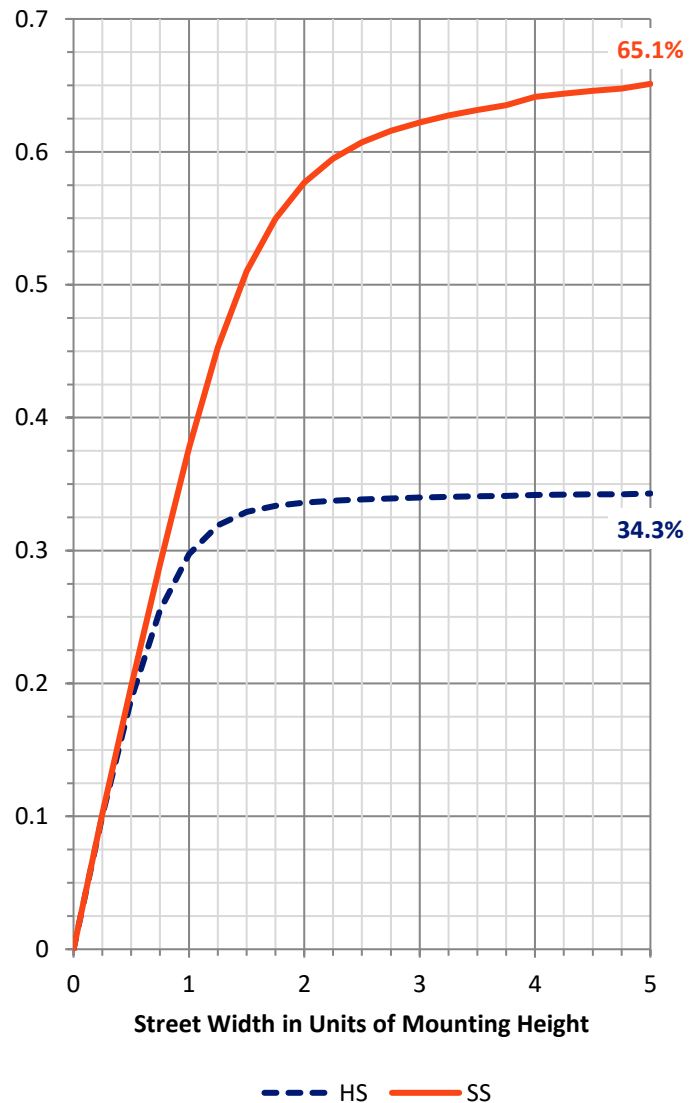
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1595.9	0.0	1595.9
	% Fixture	34.6	0.0	34.6
<b>Street Side</b>	Lumens	3016.0	0.0	3016.0
	% Fixture	65.4	0.0	65.4
<b>Total</b>	Lumens	4612.0	0.0	4612.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.8	1.0
10°-20°	141.4	3.1
20°-30°	243.1	5.3
30°-40°	392.9	8.5
40°-50°	651.0	14.1
50°-60°	1021.8	22.2
60°-70°	1396.9	30.3
70°-80°	614.3	13.3
80°-90°	102.8	2.2
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°	4612.0	100.0
0°-180°	4612.0	100.0



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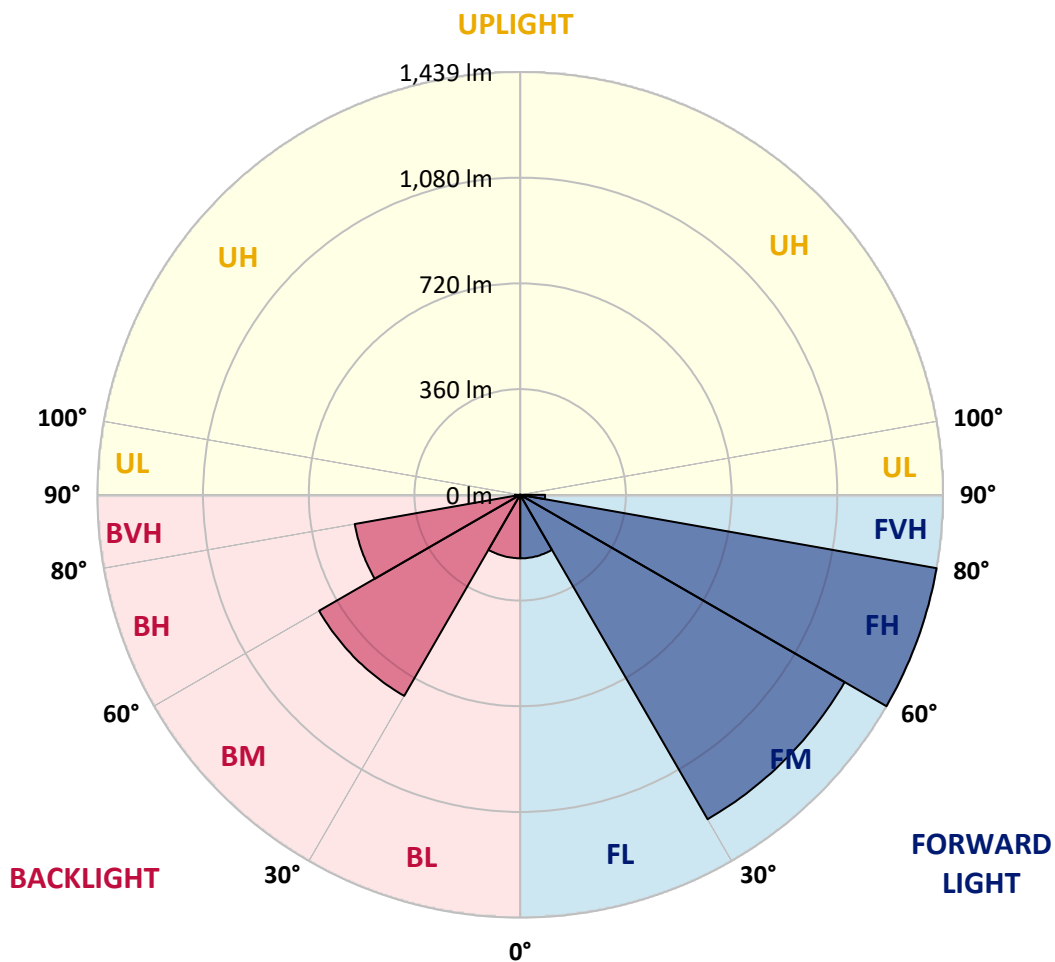
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.3	4.7			
FM	(30°-60°)	1275.3	27.7			
FH	(60°-80°)	1439.5	31.2			G1/1800
FVH	(80°-90°)	84.8	1.8			G1/100
BL	(0°-30°)	215.9	4.7	B1/500		
BM	(30°-60°)	790.3	17.1	B1/1000		
BH	(60°-80°)	571.8	12.4	B2/1000		G2/1000
BVH	(80°-90°)	18.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6
2.5°	496.7	496.7	497.0	496.7	496.7	496.4	497.6	497.6	497.6	497.3	498.2
5°	495.5	495.5	495.8	495.8	496.1	495.8	496.7	497.0	497.0	497.0	497.9
7.5°	492.5	493.4	492.8	493.1	493.4	494.3	495.5	496.1	496.7	497.6	497.9
10°	486.2	487.7	487.4	488.3	488.6	491.3	492.2	493.4	495.5	496.7	497.6
12.5°	477.4	478.3	478.6	479.8	481.0	484.4	486.8	488.9	491.9	494.9	497.9
15°	470.5	471.1	471.1	472.3	474.1	477.1	480.1	483.8	488.3	493.4	498.2
17.5°	472.6	474.1	472.9	472.6	473.2	475.0	477.7	480.7	486.2	491.9	497.6
20°	486.5	486.8	486.2	484.7	483.5	483.8	483.8	484.4	487.7	492.2	496.7
22.5°	497.9	499.1	498.8	499.1	498.8	500.0	499.4	498.2	497.0	497.3	499.4
25°	507.9	509.1	509.1	510.0	511.5	513.9	515.7	515.4	513.6	511.2	510.3
27.5°	524.2	524.2	524.2	525.1	527.2	530.2	533.2	535.0	536.5	534.1	529.0
30°	549.8	550.1	549.2	549.5	551.0	554.9	558.6	561.3	564.3	564.0	557.4
32.5°	577.9	579.1	578.8	580.0	582.1	585.7	589.6	593.8	597.8	600.2	596.0
35°	614.1	615.3	615.6	617.4	619.8	625.2	630.6	636.1	640.3	642.1	641.2
37.5°	673.5	673.8	672.6	669.8	670.8	675.0	681.3	690.1	692.8	694.6	698.8
40°	762.4	761.5	756.7	754.3	752.8	754.6	753.4	760.3	766.7	767.0	766.7
42.5°	870.4	867.7	863.2	862.6	862.0	861.4	858.0	858.3	864.1	865.6	863.8
45°	977.8	974.5	971.1	974.2	970.5	979.9	982.6	989.8	990.7	993.8	989.2
47.5°	1065.8	1066.1	1066.1	1070.4	1077.6	1095.4	1111.4	1125.3	1130.4	1137.6	1138.5
50°	1132.5	1134.3	1140.0	1153.6	1169.0	1198.8	1225.7	1250.7	1273.3	1281.8	1304.1
52.5°	1171.4	1176.2	1188.3	1210.9	1238.4	1277.0	1319.2	1361.7	1400.9	1434.1	1460.6
55°	1164.5	1168.1	1189.2	1224.5	1267.3	1319.2	1378.3	1439.8	1501.1	1557.1	1600.6
57.5°	1119.8	1122.2	1143.4	1183.2	1236.5	1306.2	1389.8	1481.1	1567.1	1657.6	1731.8
60°	1061.3	1064.9	1084.5	1115.9	1171.7	1245.9	1342.7	1466.7	1603.9	1746.2	1885.0
62.5°	1023.9	1023.0	1040.2	1068.3	1110.2	1177.4	1270.6	1417.5	1607.5	1848.2	2122.3
65°	961.8	959.1	976.9	1008.8	1054.4	1119.5	1207.9	1349.0	1569.5	1886.8	2275.6
66°	923.2	917.8	935.6	967.8	1013.4	1082.7	1167.5	1306.8	1523.4	1849.1	2259.3
67.5°	855.6	852.9	861.4	886.7	920.5	985.6	1074.0	1214.2	1414.2	1735.7	2139.8
70°	695.5	689.5	696.1	707.5	720.5	736.5	790.8	902.1	1071.3	1382.8	1723.9
72.5°	473.8	470.8	483.2	500.7	535.3	551.6	573.0	591.1	650.8	871.6	1202.5
75°	360.4	362.2	377.9	406.9	451.5	499.7	546.8	564.0	544.1	526.9	682.5
77.5°	202.1	212.6	231.6	268.4	315.8	383.9	466.0	556.4	601.7	590.5	552.2
80°	83.2	81.7	91.1	111.3	127.6	183.4	280.5	393.9	521.2	601.7	589.0
82.5°	23.2	23.8	30.8	39.5	51.0	64.8	101.3	162.9	265.4	412.9	540.5
85°	7.2	7.2	10.0	14.8	17.5	20.2	25.6	42.2	72.1	143.9	291.6
87.5°	1.5	1.5	2.1	4.2	4.5	4.5	5.7	7.8	6.9	6.3	28.4
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6
2.5°	497.3	496.7	497.0	497.3	497.0	497.0	496.7	496.4	496.7	496.7	497.6
5°	497.0	496.7	497.0	497.0	497.0	497.3	497.3	497.3	498.2	498.2	499.7
7.5°	497.6	497.6	498.2	498.2	498.2	498.2	498.5	499.1	500.7	500.4	503.1
10°	498.8	499.4	501.0	501.3	501.3	502.2	502.8	504.0	505.5	506.1	508.5
12.5°	500.4	503.4	506.1	506.7	507.6	509.1	510.0	510.6	513.3	514.2	517.2
15°	502.2	506.4	509.7	510.9	512.1	513.9	515.1	516.0	518.4	519.7	523.3
17.5°	502.5	507.3	511.2	513.0	514.5	516.6	518.4	520.3	523.0	524.8	528.4
20°	502.2	508.5	514.5	516.9	518.4	522.4	525.1	527.5	530.8	532.6	536.2
22.5°	505.5	512.7	520.9	523.9	526.3	531.7	535.3	539.3	543.5	544.7	547.4
25°	513.3	520.9	531.1	535.3	539.6	546.8	551.9	557.7	561.9	562.5	563.4
27.5°	526.6	533.5	545.9	552.2	559.2	569.4	577.0	582.7	588.7	588.7	588.1
30°	553.4	554.9	567.9	576.1	586.3	601.4	612.5	618.9	623.4	623.4	618.3
32.5°	588.1	586.3	598.1	606.8	621.0	642.1	657.2	662.0	666.8	665.3	656.6
35°	638.2	633.1	639.7	653.0	668.9	697.9	713.6	724.4	727.5	723.2	709.4
37.5°	701.2	700.6	703.9	718.7	736.5	773.9	789.9	796.8	794.4	786.9	762.4
40°	767.9	766.1	763.9	773.9	793.8	838.7	867.1	870.7	867.4	856.2	825.5
42.5°	856.8	856.8	846.9	849.6	866.2	916.6	950.0	961.5	961.8	945.5	904.5
45°	979.3	978.1	960.6	956.4	969.0	1018.5	1061.6	1068.0	1068.0	1046.5	1001.6
47.5°	1126.5	1125.0	1107.8	1093.0	1095.4	1148.8	1184.7	1194.3	1185.9	1169.9	1116.5
50°	1292.3	1289.6	1272.1	1258.3	1252.2	1306.2	1336.7	1341.2	1328.8	1309.8	1251.9
52.5°	1460.6	1468.8	1458.5	1451.0	1453.1	1488.1	1519.4	1498.0	1491.7	1471.2	1413.0
55°	1635.9	1660.9	1683.5	1676.9	1684.7	1718.8	1724.8	1696.5	1685.0	1670.2	1605.4
57.5°	1812.3	1885.3	1959.5	1980.3	1999.6	2048.4	2041.5	1995.1	2003.8	2025.8	1952.8
60°	2058.7	2269.5	2457.7	2492.4	2552.4	2594.0	2603.4	2594.3	2635.1	2623.6	2559.1
62.5°	2437.2	2788.6	3050.4	3115.5	3175.8	3173.7	3142.0	3109.5	3149.6	3149.6	2981.0
65°	2707.4	3106.2	3386.3	3440.3	3437.9	3365.2	3290.4	3225.3	3219.6	3174.9	2928.5
66°	2720.1	3130.6	3405.0	3452.1	3434.0	3317.0	3227.4	3144.8	3109.5	3047.3	2794.9
67.5°	2606.1	3061.5	3344.1	3385.1	3337.5	3169.8	3046.4	2935.7	2884.5	2779.8	2542.2
70°	2137.7	2631.1	3042.2	3126.1	3072.1	2859.7	2690.9	2541.3	2443.2	2292.1	2120.8
72.5°	1560.5	1942.6	2387.7	2524.1	2515.6	2320.2	2184.2	2047.2	1918.5	1780.9	1655.8
75°	1014.3	1263.7	1511.9	1591.5	1553.2	1440.1	1342.7	1262.8	1140.6	1045.0	1021.8
77.5°	579.1	707.5	669.2	659.3	611.3	493.4	328.1	230.1	207.8	259.4	284.4
80°	551.0	499.4	409.0	368.9	339.0	231.0	121.2	85.4	74.8	76.6	82.3
82.5°	621.3	647.5	529.6	442.4	385.1	281.1	153.5	71.5	52.2	61.8	69.4
85°	465.7	655.7	649.9	550.7	451.8	323.9	181.6	54.6	31.4	43.4	56.7
87.5°	94.4	155.3	149.6	131.5	111.9	78.1	30.5	17.2	15.7	21.4	32.6
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°	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6	497.6
2.5°	498.2	498.2	498.8	499.7	500.0	500.0	500.7	500.0	501.3	501.6	501.9
5°	501.0	501.9	502.5	504.0	504.9	505.5	506.4	505.8	507.0	507.3	507.9
7.5°	504.0	505.5	506.7	507.3	508.5	508.5	508.8	508.2	507.9	507.0	506.7
10°	509.4	510.3	511.8	511.2	510.6	508.5	506.7	504.0	502.5	499.7	498.2
12.5°	518.1	518.7	518.7	516.0	512.1	507.3	502.8	498.2	494.6	491.6	489.8
15°	524.2	525.4	523.9	520.0	514.2	507.6	501.6	495.5	490.7	486.8	484.4
17.5°	528.7	528.4	525.7	520.3	514.8	509.1	503.7	497.3	491.3	485.6	482.0
20°	535.6	532.6	527.8	522.1	516.3	511.5	507.3	501.3	494.9	487.1	481.7
22.5°	545.0	539.6	532.6	526.6	521.2	516.6	511.8	506.7	500.0	491.3	483.8
25°	558.3	548.9	541.1	535.0	530.2	525.1	519.7	513.0	506.4	497.3	488.3
27.5°	578.5	564.6	554.6	549.2	544.7	537.7	530.8	523.0	514.5	505.2	494.9
30°	602.9	586.3	574.8	570.0	564.6	556.7	549.2	538.4	526.6	515.4	502.8
32.5°	631.5	614.7	603.2	599.6	590.8	581.8	571.2	556.7	541.4	524.8	509.7
35°	675.0	653.6	643.0	634.6	622.5	611.6	593.8	574.8	552.8	530.8	512.1
37.5°	719.6	697.9	687.0	675.3	659.6	639.7	615.9	588.7	559.5	532.3	509.4
40°	779.3	755.8	741.9	723.8	698.5	667.4	632.1	595.1	559.5	525.7	497.9
42.5°	849.0	827.3	805.9	776.0	735.3	690.1	640.6	592.9	549.8	510.9	481.7
45°	945.5	908.4	874.3	826.4	767.0	703.3	641.5	583.0	533.2	490.1	457.5
47.5°	1054.1	1006.1	945.8	870.7	789.6	708.5	632.8	564.3	507.0	460.2	424.6
50°	1179.2	1105.7	1013.1	906.0	801.0	701.5	611.9	532.9	470.8	417.1	379.1
52.5°	1322.5	1210.3	1074.0	931.0	799.2	680.4	577.6	491.6	422.2	365.2	327.8
55°	1481.4	1324.3	1132.2	947.0	782.9	639.4	523.6	433.4	361.9	305.8	272.9
57.5°	1761.6	1524.3	1243.2	968.4	748.9	577.3	455.1	359.8	295.3	247.6	216.2
60°	2282.2	1873.8	1453.4	1018.8	697.6	499.4	368.9	282.3	228.3	193.6	170.4
62.5°	2604.3	2119.9	1555.9	1011.6	614.4	393.0	273.9	209.3	166.8	143.9	129.4
65°	2528.0	2023.4	1430.8	868.9	478.0	278.7	181.3	136.9	114.6	102.8	95.9
66°	2424.2	1915.4	1324.9	778.1	416.5	232.8	149.6	114.9	98.6	89.9	86.3
67.5°	2206.8	1718.2	1142.8	623.1	312.2	173.4	110.4	90.2	80.2	75.7	73.3
70°	1847.0	1384.3	808.3	367.9	169.2	94.1	70.6	62.7	60.3	58.8	57.9
72.5°	1428.1	1002.2	472.3	181.0	85.4	60.9	53.7	50.4	49.5	49.5	49.8
75°	899.7	576.1	211.4	87.2	57.9	49.2	45.8	44.3	44.6	44.9	44.6
77.5°	298.9	198.8	88.1	61.8	50.4	44.6	41.9	41.3	41.9	42.2	42.2
80°	86.0	75.1	63.6	54.6	46.1	41.6	39.2	38.9	40.4	40.7	40.1
82.5°	66.0	61.8	57.6	52.8	44.3	39.2	38.3	38.6	39.5	38.9	36.2
85°	60.6	60.0	43.1	42.8	38.6	37.4	36.5	36.8	35.9	32.6	29.6
87.5°	34.1	31.7	24.4	24.7	28.7	29.6	24.4	25.9	24.1	21.1	19.3
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):**

	160°	165°	170°	175°	180°
0°	497.6	497.6	497.6	497.6	497.6
2.5°	502.5	502.2	502.2	503.1	501.9
5°	508.2	507.9	507.9	508.8	507.9
7.5°	505.5	504.6	504.0	503.7	503.7
10°	496.4	495.5	493.7	493.1	492.5
12.5°	487.1	486.2	484.1	484.1	483.5
15°	481.3	480.1	478.6	477.7	477.1
17.5°	478.3	476.5	474.7	473.8	473.2
20°	477.1	474.7	472.6	471.1	471.1
22.5°	477.4	474.4	472.0	470.2	469.6
25°	480.4	475.9	472.9	471.1	470.5
27.5°	484.7	479.2	475.3	472.9	472.0
30°	490.4	482.9	477.4	474.4	473.2
32.5°	494.3	483.8	476.8	472.6	471.1
35°	494.0	480.4	472.0	466.6	464.8
37.5°	488.6	472.6	461.4	454.8	451.8
40°	476.5	458.1	446.4	440.0	436.4
42.5°	459.0	439.1	428.6	421.6	417.7
45°	431.6	412.0	399.0	393.6	388.5
47.5°	393.6	373.7	362.5	354.7	351.4
50°	348.9	329.0	317.3	310.9	307.9
52.5°	300.1	281.1	272.6	266.6	262.4
55°	249.4	231.9	228.3	221.7	217.8
57.5°	201.8	191.5	188.2	181.6	178.2
60°	157.7	154.4	150.8	146.6	144.8
62.5°	122.1	119.1	118.2	115.5	115.2
65°	93.2	93.5	92.9	92.3	91.7
66°	84.7	84.4	84.7	84.1	83.8
67.5°	72.1	73.3	74.2	73.9	73.9
70°	58.5	59.4	60.6	60.3	60.3
72.5°	50.1	51.6	52.2	51.9	51.9
75°	45.2	46.7	46.7	46.1	45.8
77.5°	42.2	42.8	42.2	41.6	41.0
80°	39.2	38.6	37.7	36.8	36.2
82.5°	34.1	32.6	31.7	30.2	30.2
85°	27.4	26.2	24.1	22.6	21.1
87.5°	17.8	17.2	15.7	11.8	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)