

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: P165415

Luminaire Tested: **VTS-E09-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165415  
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-E09-LED-E1-SL4-HSS-8030  
Description: VENTUS LED SITE LUMINAIRE  
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (189) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

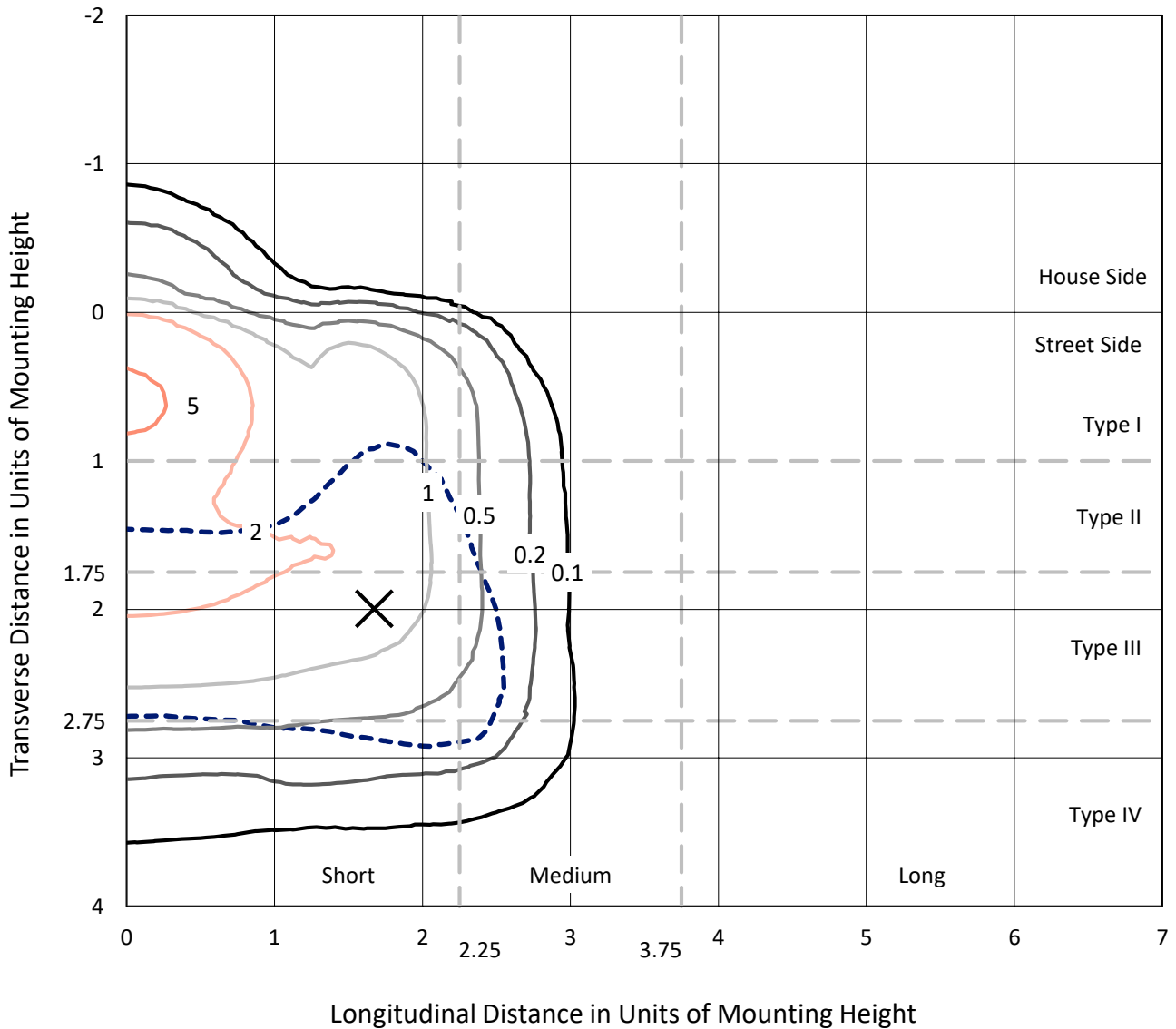
Lumens per Lamp: N/A  
Luminaire Lumens: 15271.5 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.5' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 225.7  
Input Voltage (V): NR  
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

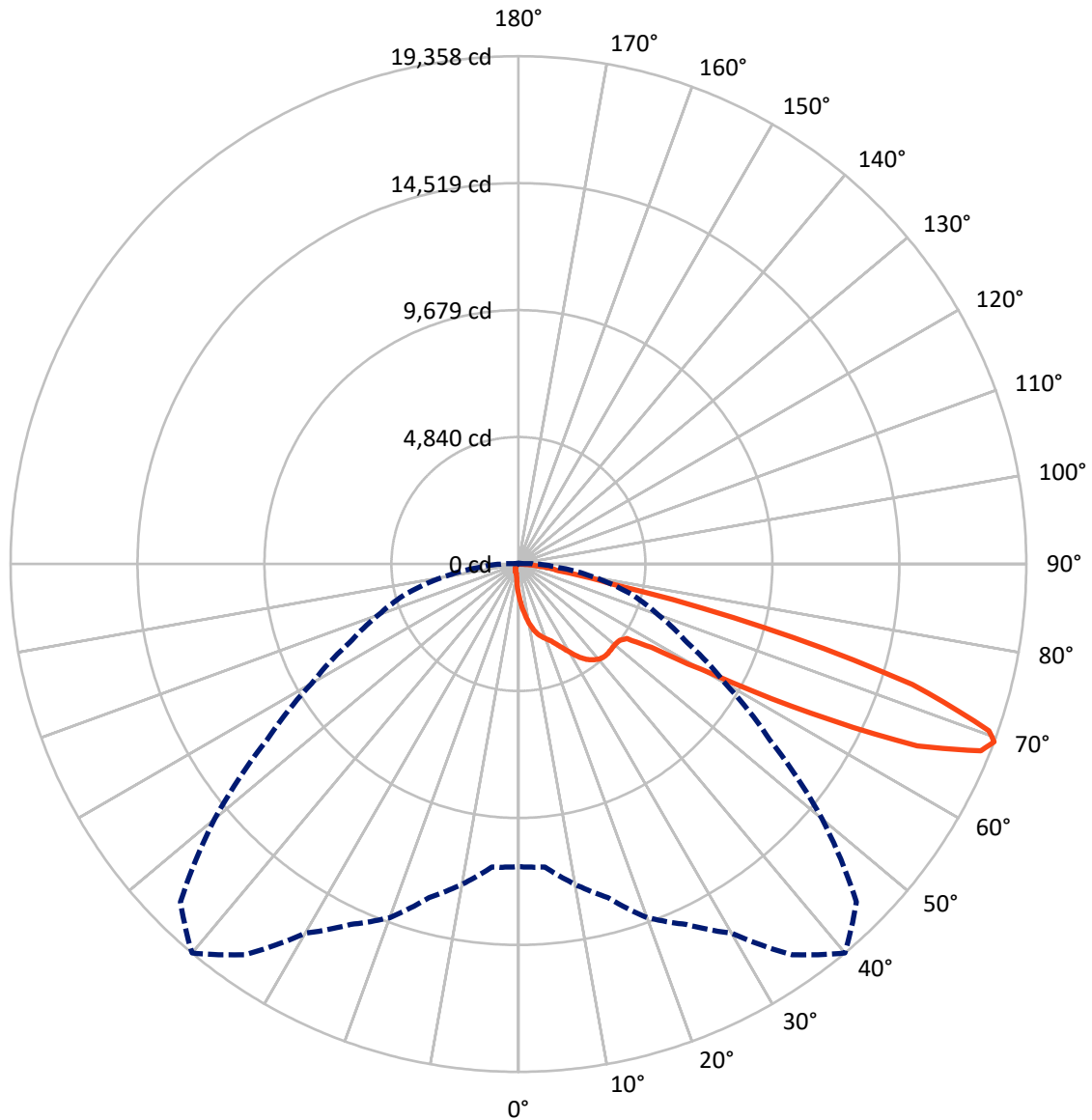


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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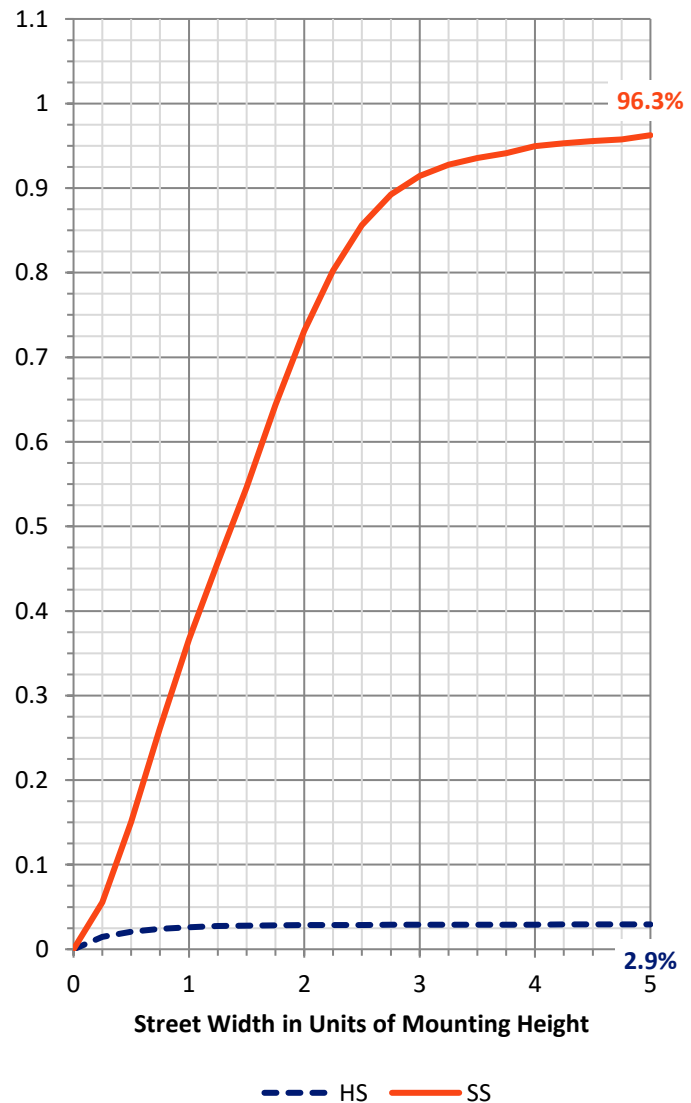
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	454.8	0.0	454.8
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	14816.7	0.0	14816.7
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	15271.5	0.0	15271.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.5	0.8
10°-20°	408.7	2.7
20°-30°	782.2	5.1
30°-40°	1300.9	8.5
40°-50°	1760.3	11.5
50°-60°	2752.9	18.0
60°-70°	5659.9	37.1
70°-80°	2277.5	14.9
80°-90°	210.7	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°	15271.5	100.0
0°-180°	15271.5	100.0



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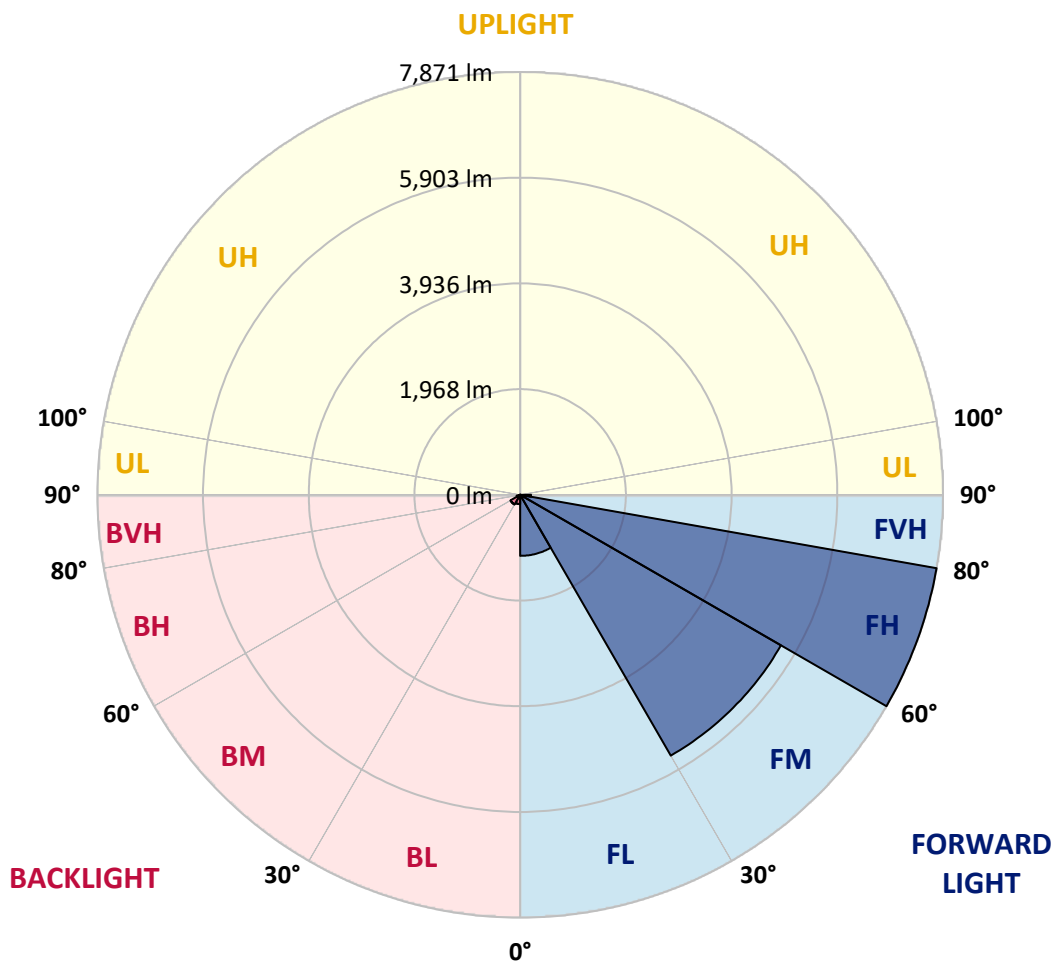
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.5	7.4			
FM	(30°-60°)	5606.4	36.7			
FH	(60°-80°)	7871.0	51.5			G4/12000
FVH	(80°-90°)	202.8	1.3			G2/225
BL	(0°-30°)	173.0	1.1	B1/500		
BM	(30°-60°)	207.6	1.4	B0/220		
BH	(60°-80°)	66.3	0.4	B0/110		G0/110
BVH	(80°-90°)	7.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1538.6	1521.0	1501.0	1501.0	1476.0	1476.0	1461.0	1421.0	1416.0	1393.4	1370.9
5°	1963.8	1948.8	1923.9	1901.3	1881.4	1846.3	1821.2	1773.6	1721.2	1671.1	1626.1
7.5°	2379.2	2371.6	2326.6	2319.0	2286.5	2229.1	2179.0	2108.9	2018.8	1948.8	1866.3
10°	2764.5	2746.8	2736.8	2694.3	2646.9	2584.3	2506.7	2421.7	2316.6	2206.5	2088.9
12.5°	3069.7	3059.6	3014.5	2997.0	2947.1	2884.5	2786.9	2676.8	2571.8	2429.2	2291.5
15°	3297.2	3279.8	3249.7	3222.2	3162.2	3107.2	3017.1	2896.9	2769.5	2614.4	2449.2
17.5°	3487.4	3454.9	3447.3	3404.8	3342.4	3277.2	3177.2	3067.1	2917.0	2761.9	2581.7
20°	3742.5	3697.5	3682.5	3619.9	3547.4	3457.4	3342.4	3204.7	3047.0	2877.0	2691.8
22.5°	4042.7	4010.2	3977.7	3922.7	3830.2	3702.6	3535.0	3384.9	3184.7	2997.0	2797.0
25°	4468.1	4440.6	4388.0	4313.0	4197.8	4045.3	3842.6	3622.5	3387.3	3147.1	2912.0
27.5°	4880.8	4855.8	4818.2	4760.8	4630.6	4463.1	4212.8	3932.7	3635.0	3344.8	3084.6
30°	5268.7	5246.0	5208.5	5151.1	5035.9	4870.8	4588.1	4287.9	3917.7	3580.0	3267.3
32.5°	5686.5	5678.9	5636.3	5553.8	5453.7	5231.2	4923.4	4600.7	4225.5	3835.2	3469.8
35°	6159.2	6101.6	6061.7	5979.1	5809.1	5571.3	5211.1	4858.3	4463.1	4062.8	3655.0
37.5°	6559.5	6504.5	6454.4	6349.4	6141.8	5839.0	5431.2	5043.4	4635.6	4227.9	3812.5
40°	6852.1	6824.6	6764.6	6627.0	6394.4	6034.2	5593.8	5171.0	4760.8	4350.5	3940.2
42.5°	7069.8	7027.3	6959.8	6817.2	6542.1	6131.7	5658.8	5223.6	4818.2	4425.5	4022.8
45°	7149.9	7114.9	7052.4	6897.2	6599.5	6159.2	5656.4	5208.5	4820.8	4448.0	4077.8
47.5°	7102.3	7067.4	7012.2	6867.2	6574.6	6126.7	5611.4	5166.0	4795.8	4455.6	4127.8
50°	6944.8	6924.7	6882.2	6759.6	6496.9	6064.1	5571.3	5143.5	4790.7	4493.1	4197.8
52.5°	6929.8	6917.3	6864.7	6742.1	6474.5	6044.1	5566.3	5156.1	4833.3	4540.7	4247.9
55°	8468.2	8290.6	7892.9	7555.2	6999.8	6339.4	5818.9	5358.6	5013.5	4728.3	4523.1
57.5°	12035.7	11770.6	11247.7	10604.8	9328.9	8075.5	7072.4	6346.8	5989.1	5859.0	5936.5
60°	13706.8	13659.4	13576.8	13271.6	12618.6	11540.5	10339.6	9041.3	8520.8	8475.8	8633.4
62.5°	14500.0	14469.9	14495.0	14457.5	14254.8	13939.6	13594.3	13034.0	12518.5	12185.8	11480.3
65°	14865.2	14885.3	15027.8	15140.3	15165.4	15247.9	15500.7	16198.6	16708.9	15850.9	13892.0
67.5°	13937.0	14054.6	14382.4	14792.6	15273.0	15738.3	16488.8	17959.8	19008.0	17999.9	15218.0
69°	11537.9	11595.5	12395.9	13169.0	14342.3	15163.0	16251.2	18179.9	19358.3	18220.0	15112.8
70°	9083.7	9136.2	9994.4	11045.1	13029.0	14084.7	15508.1	17807.3	19030.5	17927.3	14572.5
72.5°	4097.8	4022.8	4325.4	4888.3	7044.8	8721.0	11210.2	14427.4	15700.8	14362.4	10902.4
75°	2862.0	2829.5	2862.0	2864.4	3199.7	4127.8	5208.5	7820.3	9671.6	8345.8	5208.5
77.5°	2216.5	2194.0	2171.5	2146.5	2186.6	2449.2	2554.2	2774.3	3602.4	3407.4	1986.3
80°	1753.7	1733.7	1788.7	1771.2	1771.2	1801.3	1781.2	1698.6	1543.5	1430.9	1280.8
82.5°	815.5	820.5	820.5	890.5	1073.3	1253.3	1310.9	1228.4	1090.8	928.1	748.0
85°	77.5	87.5	147.7	227.7	452.9	510.3	512.9	425.2	425.2	335.3	270.1
87.5°	0.0	2.4	2.4	2.4	22.5	62.6	52.6	15.0	7.4	7.4	12.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1331.0	1323.4	1293.4	1263.4	1235.9	1205.8	1178.3	1150.8	1120.7	1098.2	1070.7
5°	1556.1	1501.0	1438.5	1378.5	1318.3	1255.9	1190.9	1133.3	1073.3	1018.2	965.6
7.5°	1783.7	1676.1	1591.0	1483.5	1386.0	1288.4	1198.3	1105.8	1020.7	940.7	865.6
10°	1976.3	1846.3	1713.6	1576.2	1435.9	1305.9	1180.9	1070.7	958.1	860.6	768.1
12.5°	2134.0	1968.9	1806.3	1633.6	1476.0	1310.9	1155.8	1023.2	890.5	780.6	685.5
15°	2276.5	2086.4	1891.2	1691.2	1491.1	1303.5	1130.7	965.6	830.5	705.5	598.0
17.5°	2391.7	2174.0	1953.8	1728.7	1513.6	1293.4	1098.2	925.6	768.1	637.9	532.9
20°	2491.8	2264.0	2026.4	1773.6	1528.6	1290.9	1070.7	875.7	713.0	575.5	472.8
22.5°	2584.3	2356.6	2101.5	1831.2	1551.1	1288.4	1045.7	838.1	665.4	527.9	425.2
25°	2689.4	2449.2	2181.5	1891.2	1591.0	1298.4	1030.8	808.1	622.9	482.8	387.7
27.5°	2807.0	2554.2	2276.5	1966.3	1643.6	1318.3	1025.8	775.5	585.3	440.3	357.8
30°	2972.0	2679.4	2371.6	2041.3	1691.2	1341.0	1020.7	755.5	547.8	407.7	327.7
32.5°	3117.2	2802.0	2476.7	2119.0	1743.7	1363.5	1018.2	728.0	512.9	375.2	305.2
35°	3269.7	2914.6	2566.8	2194.0	1788.7	1388.4	1015.7	707.9	480.4	342.7	282.7
37.5°	3402.4	3009.5	2636.8	2259.0	1838.8	1411.0	1018.2	690.5	450.3	315.2	262.7
40°	3514.9	3107.2	2714.3	2319.0	1891.2	1446.0	1020.7	673.0	420.4	290.2	245.2
42.5°	3615.0	3199.7	2797.0	2386.6	1951.4	1486.1	1035.8	658.0	395.3	267.7	227.7
45°	3692.5	3284.8	2886.9	2481.7	2048.9	1551.1	1063.3	647.9	370.2	247.6	212.7
47.5°	3772.6	3409.8	3039.6	2631.8	2191.6	1653.6	1110.8	645.5	350.2	232.6	200.1
50°	3882.7	3535.0	3174.6	2784.4	2321.6	1758.8	1168.3	647.9	325.3	217.7	187.6
52.5°	3962.8	3662.4	3349.8	3049.6	2631.8	2078.9	1391.0	692.9	312.6	205.1	172.6
55°	4435.6	4383.0	4390.4	4440.6	4117.9	3537.4	2326.6	1000.7	367.8	232.6	170.1
57.5°	6254.3	6439.4	6546.9	6544.5	6011.6	4986.0	3124.7	1285.8	410.3	270.1	202.7
60°	8646.0	8505.9	8308.3	7820.3	7112.4	5691.5	3494.9	1383.5	355.2	215.1	185.2
62.5°	10759.9	9939.3	9211.3	8420.8	7492.6	5936.5	3569.9	1375.9	310.2	162.6	130.0
65°	12078.3	10602.2	9426.5	8435.7	7342.5	5731.4	3377.3	1263.4	262.7	132.6	107.6
67.5°	12393.5	10244.5	8581.0	7317.5	6134.2	4460.6	2479.2	950.7	205.1	110.1	95.1
69°	11705.5	9106.3	7109.9	5676.4	4463.1	2959.5	1533.6	600.4	157.5	100.1	87.5
70°	10767.4	7920.4	5791.4	4555.6	3304.8	2078.9	1073.3	422.8	127.6	92.5	80.1
72.5°	6927.3	4160.3	2847.0	1981.3	1363.5	828.1	420.4	190.2	97.5	77.5	65.0
75°	2686.8	1538.6	1115.8	848.0	663.0	460.3	255.2	122.6	82.5	65.0	50.0
77.5°	1323.4	1013.1	828.1	567.9	330.3	205.1	137.6	95.1	67.6	47.6	32.5
80°	1045.7	695.5	415.3	257.7	195.1	147.7	105.1	77.5	50.0	30.1	22.5
82.5°	535.4	292.7	215.1	175.2	145.1	115.2	85.1	55.0	32.5	20.1	17.5
85°	167.6	122.6	110.1	107.6	100.1	82.5	60.0	35.1	20.1	12.5	12.5
87.5°	12.5	17.5	22.5	17.5	20.1	17.5	22.5	15.0	10.0	10.0	7.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1050.7	1020.7	993.2	975.6	943.1	930.7	918.2	913.2	890.5	895.6	875.7
5°	918.2	865.6	825.5	785.6	748.0	720.5	697.9	670.4	647.9	637.9	617.9
7.5°	798.0	730.6	678.0	635.5	590.4	555.4	525.3	505.3	485.4	465.3	455.3
10°	692.9	620.4	560.4	517.9	475.4	445.3	422.8	407.7	395.3	387.7	385.3
12.5°	595.4	525.3	470.3	432.8	400.3	385.3	375.2	367.8	365.2	362.8	362.8
15°	520.3	450.3	407.7	380.3	365.2	357.8	355.2	350.2	345.3	342.7	342.7
17.5°	450.3	397.7	367.8	352.8	345.3	340.3	335.3	330.3	325.3	322.7	322.7
20°	402.7	360.2	345.3	335.3	327.7	322.7	315.2	310.2	307.8	305.2	302.8
22.5°	365.2	337.7	327.7	320.2	310.2	302.8	297.8	292.7	287.7	285.2	282.7
25°	337.7	320.2	312.6	302.8	292.7	285.2	277.7	270.1	265.2	262.7	257.7
27.5°	317.7	305.2	295.2	282.7	272.7	265.2	257.7	250.2	245.2	240.2	237.6
30°	300.2	287.7	275.1	265.2	252.6	245.2	235.2	227.7	225.1	220.1	215.1
32.5°	282.7	270.1	257.7	245.2	232.6	222.7	217.7	207.7	202.7	200.1	195.1
35°	262.7	250.2	235.2	225.1	212.7	202.7	195.1	187.6	182.6	177.6	175.2
37.5°	245.2	230.2	215.1	202.7	192.6	182.6	175.2	167.6	162.6	157.5	155.1
40°	225.1	210.1	195.1	182.6	172.6	165.1	157.5	150.1	145.1	142.7	142.7
42.5°	207.7	190.2	175.2	165.1	157.5	147.7	140.1	132.6	130.0	127.6	130.0
45°	190.2	172.6	160.1	150.1	142.7	132.6	125.0	120.0	117.6	120.0	122.6
47.5°	175.2	157.5	145.1	137.6	130.0	122.6	115.2	110.1	110.1	115.2	120.0
50°	160.1	142.7	132.6	127.6	120.0	112.6	102.5	100.1	102.5	107.6	112.6
52.5°	145.1	125.0	117.6	115.2	107.6	100.1	92.5	90.1	92.5	97.5	95.1
55°	130.0	110.1	107.6	105.1	97.5	87.5	80.1	80.1	80.1	77.5	72.6
57.5°	125.0	97.5	95.1	92.5	85.1	75.0	70.0	65.0	62.6	55.0	52.6
60°	130.0	87.5	87.5	82.5	75.0	65.0	57.6	50.0	45.0	40.0	40.0
62.5°	105.1	80.1	77.5	72.6	62.6	52.6	45.0	37.5	35.1	32.5	32.5
65°	85.1	72.6	67.6	60.0	52.6	42.5	35.1	30.1	27.5	27.5	30.1
67.5°	77.5	65.0	57.6	50.0	42.5	32.5	27.5	25.1	25.1	27.5	27.5
69°	72.6	60.0	52.6	45.0	37.5	30.1	25.1	25.1	25.1	25.1	27.5
70°	67.6	57.6	50.0	42.5	32.5	25.1	22.5	22.5	25.1	25.1	27.5
72.5°	52.6	45.0	42.5	35.1	25.1	22.5	20.1	22.5	22.5	25.1	25.1
75°	40.0	32.5	32.5	27.5	20.1	17.5	17.5	20.1	20.1	22.5	22.5
77.5°	27.5	22.5	22.5	20.1	17.5	15.0	15.0	17.5	20.1	20.1	22.5
80°	20.1	17.5	15.0	17.5	15.0	12.5	15.0	17.5	17.5	20.1	20.1
82.5°	15.0	15.0	15.0	15.0	12.5	12.5	15.0	15.0	17.5	20.1	20.1
85°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	15.0	15.0	17.5	17.5
87.5°	7.4	7.4	7.4	10.0	10.0	12.5	12.5	12.5	12.5	15.0	15.0
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°	1153.4	1153.4	1153.4	1153.4
2.5°	870.6	868.1	858.0	860.6
5°	610.4	595.4	605.4	603.0
7.5°	447.9	445.3	442.8	447.9
10°	382.8	382.8	380.3	382.8
12.5°	360.2	360.2	360.2	360.2
15°	342.7	342.7	340.3	340.3
17.5°	322.7	322.7	322.7	320.2
20°	302.8	300.2	300.2	300.2
22.5°	280.1	277.7	277.7	277.7
25°	257.7	255.2	255.2	255.2
27.5°	235.2	232.6	230.2	230.2
30°	212.7	210.1	207.7	207.7
32.5°	190.2	187.6	185.2	185.2
35°	170.1	170.1	167.6	165.1
37.5°	152.7	152.7	152.7	152.7
40°	140.1	142.7	142.7	142.7
42.5°	132.6	135.1	137.6	140.1
45°	127.6	132.6	135.1	135.1
47.5°	125.0	127.6	130.0	130.0
50°	115.2	112.6	112.6	112.6
52.5°	92.5	87.5	85.1	82.5
55°	67.6	65.0	60.0	60.0
57.5°	47.6	47.6	45.0	45.0
60°	37.5	37.5	35.1	37.5
62.5°	32.5	32.5	32.5	32.5
65°	30.1	30.1	30.1	30.1
67.5°	30.1	30.1	30.1	30.1
69°	27.5	27.5	27.5	27.5
70°	27.5	27.5	27.5	27.5
72.5°	25.1	25.1	25.1	25.1
75°	22.5	25.1	25.1	25.1
77.5°	22.5	22.5	22.5	22.5
80°	20.1	20.1	22.5	22.5
82.5°	20.1	20.1	20.1	20.1
85°	17.5	17.5	20.1	20.1
87.5°	15.0	15.0	17.5	17.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)