

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: P165380

Luminaire Tested: **VTS-F05-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165380  
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-F05-LED-E1-SL4-HSS-8030  
Description: VENTUS LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (35) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

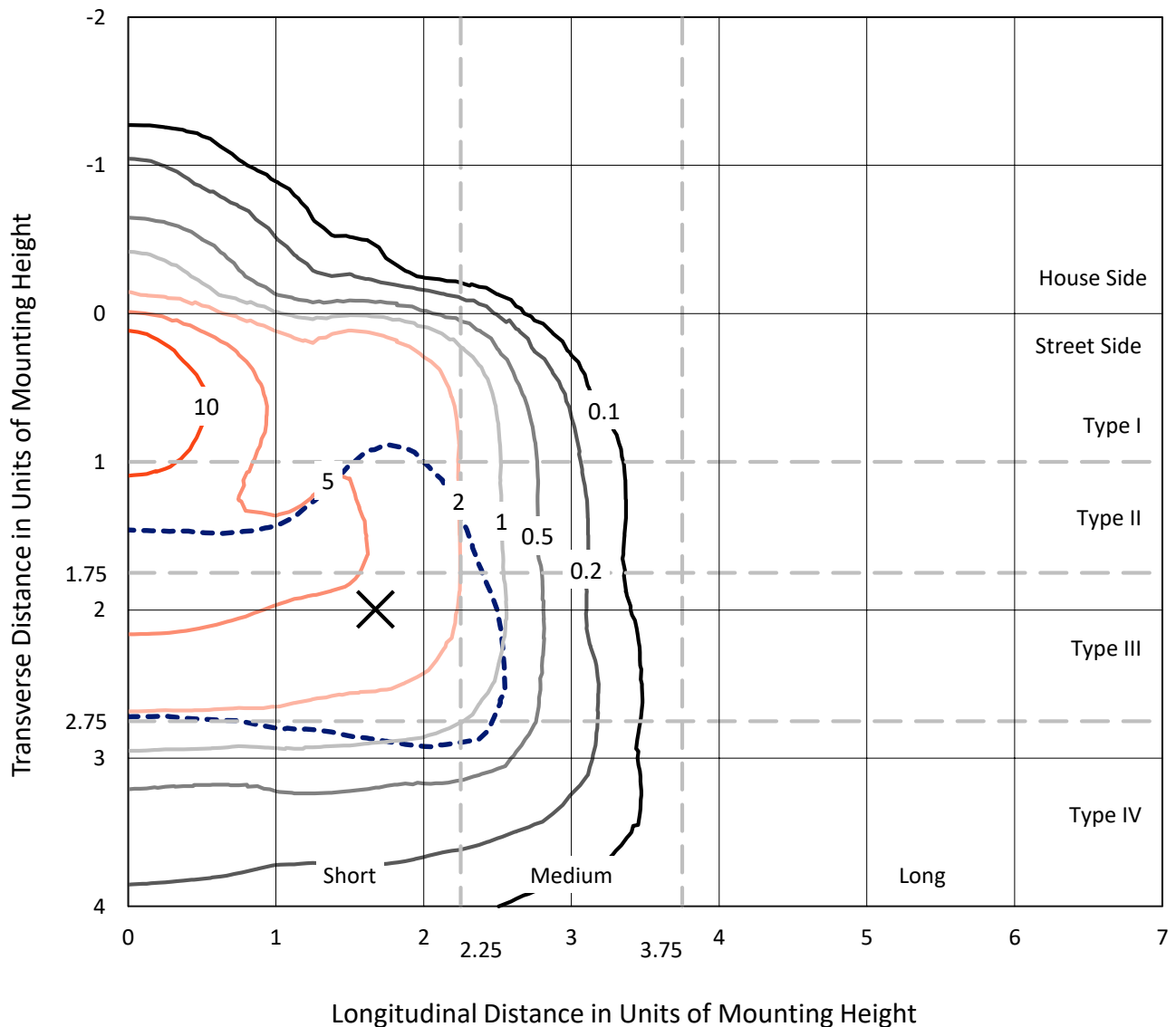
Lumens per Lamp: N/A  
Luminaire Lumens: 7003.9 lumens  
Efficiency: N/A  
Efficacy: 52.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

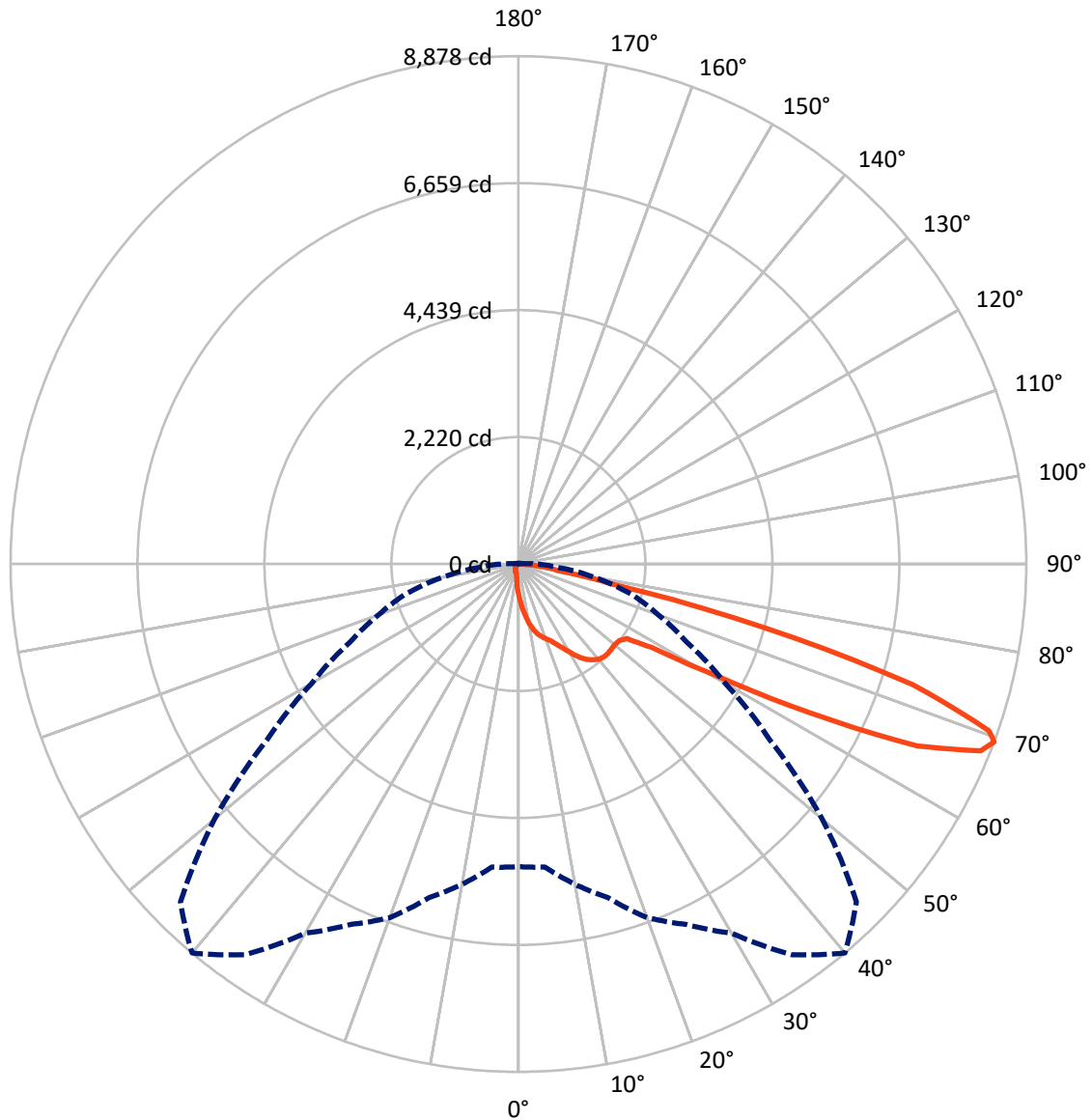


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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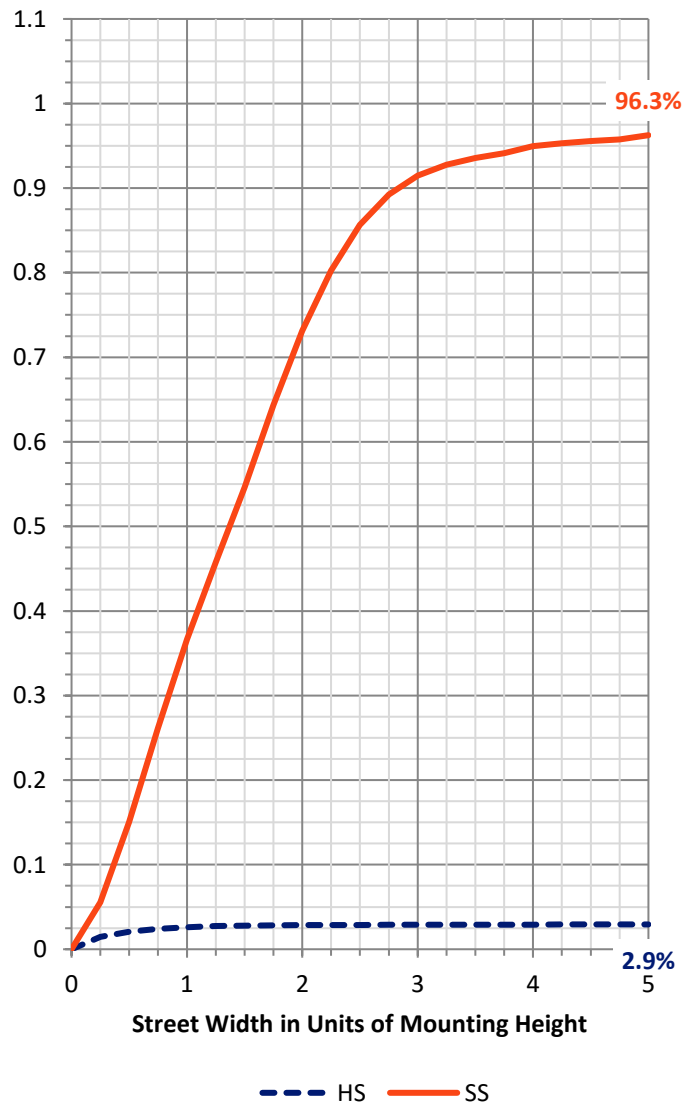
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	208.6	0.0	208.6
	% Fixture	3.0	0.0	3.0
<b>Street Side</b>	Lumens	6795.3	0.0	6795.3
	% Fixture	97.0	0.0	97.0
<b>Total</b>	Lumens	7003.9	0.0	7003.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	0.8
10°-20°	187.4	2.7
20°-30°	358.8	5.1
30°-40°	596.6	8.5
40°-50°	807.3	11.5
50°-60°	1262.5	18.0
60°-70°	2595.8	37.1
70°-80°	1044.5	14.9
80°-90°	96.6	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°	7003.9	100.0
0°-180°	7003.9	100.0



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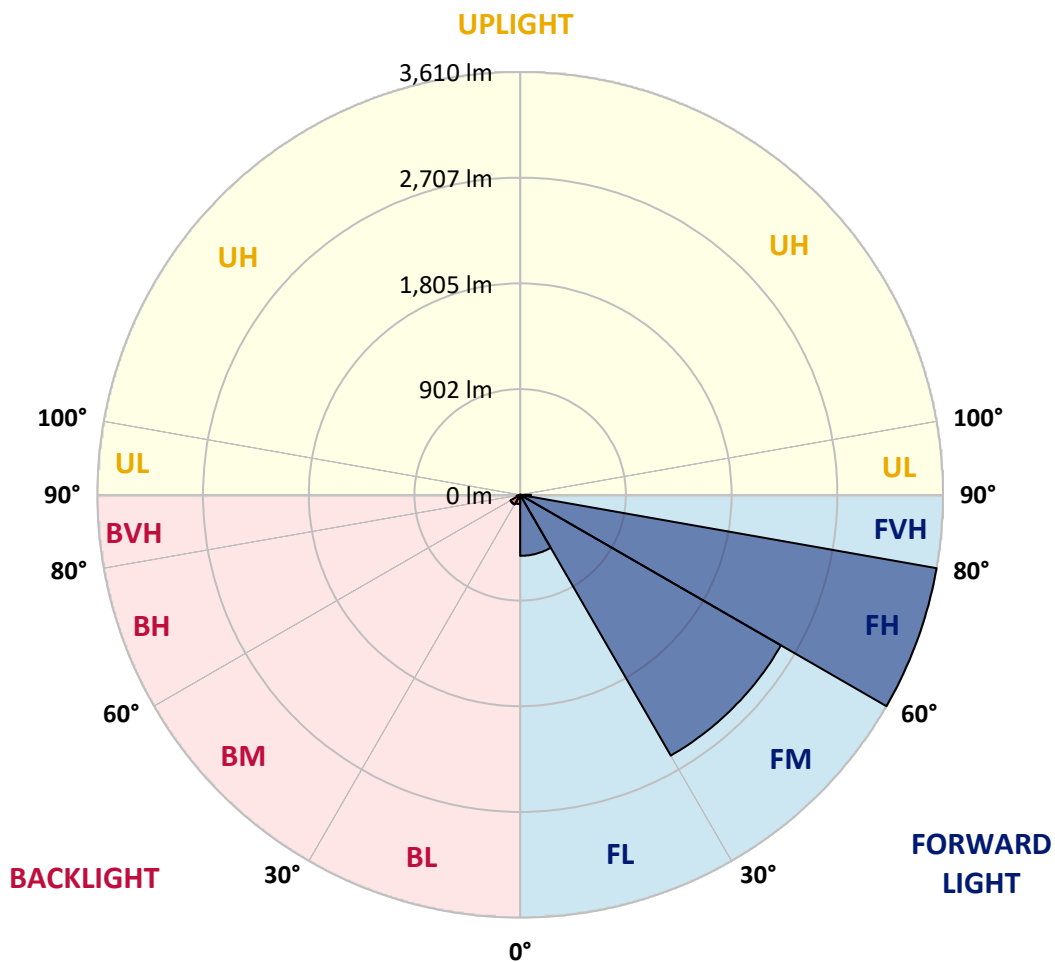
CATALOG NUMBER: VTS-F05-LED-E1-SL4-HSS-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.2	7.4			
FM (30°-60°)	2571.2	36.7			
FH (60°-80°)	3609.8	51.5			G2/5000
FVH (80°-90°)	93.0	1.3			G1/100
BL (0°-30°)	79.3	1.1	B0/110		
BM (30°-60°)	95.2	1.4	B0/220		
BH (60°-80°)	30.4	0.4	B0/110		G0/110
BVH (80°-90°)	3.6	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°	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0
2.5°	705.7	697.6	688.4	688.4	676.9	676.9	670.1	651.7	649.4	639.0	628.7
5°	900.7	893.8	882.3	872.0	862.8	846.7	835.2	813.4	789.4	766.4	745.8
7.5°	1091.2	1087.7	1067.1	1063.6	1048.7	1022.3	999.3	967.2	925.9	893.8	855.9
10°	1267.8	1259.8	1255.2	1235.7	1213.9	1185.2	1149.6	1110.7	1062.5	1011.9	958.0
12.5°	1407.8	1403.2	1382.5	1374.5	1351.6	1322.9	1278.2	1227.6	1179.5	1114.1	1051.0
15°	1512.2	1504.2	1490.4	1477.8	1450.3	1425.0	1383.7	1328.6	1270.1	1199.0	1123.3
17.5°	1599.4	1584.5	1581.0	1561.5	1532.9	1503.0	1457.2	1406.6	1337.8	1266.7	1184.0
20°	1716.4	1695.8	1688.9	1660.2	1626.9	1585.6	1532.9	1469.8	1397.4	1319.5	1234.5
22.5°	1854.1	1839.2	1824.3	1799.0	1756.6	1698.1	1621.2	1552.4	1460.6	1374.5	1282.8
25°	2049.2	2036.6	2012.5	1978.0	1925.2	1855.3	1762.3	1661.4	1553.5	1443.4	1335.5
27.5°	2238.5	2227.0	2209.8	2183.4	2123.7	2046.9	1932.1	1803.6	1667.1	1534.0	1414.7
30°	2416.3	2406.0	2388.8	2362.4	2309.6	2233.9	2104.2	1966.5	1796.7	1641.9	1498.5
32.5°	2608.0	2604.5	2585.0	2547.1	2501.2	2399.1	2258.0	2110.0	1937.9	1758.9	1591.3
35°	2824.8	2798.4	2780.0	2742.1	2664.2	2555.1	2389.9	2228.2	2046.9	1863.3	1676.3
37.5°	3008.4	2983.1	2960.2	2912.0	2816.8	2677.9	2490.9	2313.0	2126.0	1939.0	1748.5
40°	3142.6	3129.9	3102.4	3039.3	2932.6	2767.4	2565.4	2371.5	2183.4	1995.2	1807.1
42.5°	3242.4	3222.9	3192.0	3126.5	3000.4	2812.2	2595.3	2395.7	2209.8	2029.7	1845.0
45°	3279.1	3263.1	3234.4	3163.2	3026.7	2824.8	2594.2	2388.8	2211.0	2040.0	1870.2
47.5°	3257.3	3241.3	3216.0	3149.5	3015.3	2809.9	2573.5	2369.2	2199.5	2043.5	1893.1
50°	3185.1	3175.9	3156.4	3100.1	2979.7	2781.2	2555.1	2358.9	2197.2	2060.7	1925.2
52.5°	3178.2	3172.4	3148.3	3092.1	2969.3	2772.0	2552.8	2364.7	2216.7	2082.5	1948.2
55°	3883.7	3802.3	3619.9	3465.0	3210.3	2907.4	2668.7	2457.6	2299.3	2168.5	2074.4
57.5°	5519.9	5398.3	5158.5	4863.6	4278.4	3703.6	3243.6	2910.8	2746.7	2687.1	2722.6
60°	6286.3	6264.6	6226.7	6086.7	5787.2	5292.8	4742.0	4146.6	3907.9	3887.2	3959.5
62.5°	6650.1	6636.3	6647.8	6630.6	6537.6	6393.0	6234.7	5977.7	5741.3	5588.7	5265.2
65°	6817.6	6826.8	6892.1	6943.7	6955.2	6993.1	7109.0	7429.1	7663.1	7269.6	6371.2
67.5°	6391.9	6445.8	6596.1	6784.3	7004.6	7218.0	7562.2	8236.8	8717.6	8255.2	6979.3
69°	5291.6	5318.0	5685.1	6039.7	6577.7	6954.1	7453.2	8337.8	8878.2	8356.2	6931.1
70°	4166.0	4190.1	4583.7	5065.5	5975.4	6459.6	7112.4	8166.9	8727.9	8221.9	6683.3
72.5°	1879.4	1845.0	1983.7	2241.9	3230.9	3999.7	5141.3	6616.8	7200.8	6586.9	5000.1
75°	1312.6	1297.7	1312.6	1313.7	1467.5	1893.1	2388.8	3586.6	4435.6	3827.6	2388.8
77.5°	1016.5	1006.2	995.9	984.4	1002.8	1123.3	1171.4	1272.4	1652.2	1562.7	911.0
80°	804.3	795.1	820.3	812.3	812.3	826.1	816.9	779.0	707.9	656.3	587.4
82.5°	374.0	376.3	376.3	408.4	492.2	574.8	601.2	563.4	500.3	425.6	343.1
85°	35.5	40.1	67.7	104.4	207.7	234.0	235.2	195.0	195.0	153.8	123.9
87.5°	0.0	1.1	1.1	1.1	10.3	28.7	24.1	6.9	3.4	3.4	5.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0
2.5°	610.4	606.9	593.2	579.4	566.8	553.0	540.4	527.8	514.0	503.7	491.1
5°	713.7	688.4	659.7	632.2	604.6	576.0	546.2	519.8	492.2	467.0	442.8
7.5°	818.0	768.7	729.7	680.4	635.6	590.9	549.6	507.2	468.1	431.4	397.0
10°	906.4	846.7	785.9	722.9	658.6	598.9	541.6	491.1	439.4	394.7	352.3
12.5°	978.7	903.0	828.4	749.2	676.9	601.2	530.1	469.3	408.4	358.0	314.4
15°	1044.1	956.9	867.4	775.6	683.8	597.8	518.6	442.8	380.9	323.6	274.2
17.5°	1096.9	997.0	896.1	792.8	694.2	593.2	503.7	424.5	352.3	292.6	244.4
20°	1142.8	1038.3	929.4	813.4	701.1	592.0	491.1	401.6	327.0	263.9	216.8
22.5°	1185.2	1080.8	963.8	839.8	711.4	590.9	479.6	384.4	305.2	242.1	195.0
25°	1233.4	1123.3	1000.5	867.4	729.7	595.5	472.7	370.6	285.7	221.4	177.8
27.5°	1287.4	1171.4	1044.1	901.8	753.8	604.6	470.4	355.7	268.5	201.9	164.1
30°	1363.0	1228.8	1087.7	936.2	775.6	615.0	468.1	346.5	251.2	187.0	150.3
32.5°	1429.6	1285.1	1135.9	971.8	799.7	625.3	467.0	333.9	235.2	172.1	140.0
35°	1499.6	1336.7	1177.2	1006.2	820.3	636.7	465.8	324.7	220.3	157.2	129.7
37.5°	1560.4	1380.2	1209.3	1036.0	843.3	647.1	467.0	316.7	206.5	144.6	120.5
40°	1612.0	1425.0	1244.9	1063.6	867.4	663.2	468.1	308.7	192.8	133.1	112.5
42.5°	1658.0	1467.5	1282.8	1094.6	895.0	681.5	475.0	301.8	181.3	122.8	104.4
45°	1693.5	1506.5	1324.0	1138.2	939.7	711.4	487.6	297.2	169.8	113.6	97.5
47.5°	1730.2	1563.8	1394.0	1207.0	1005.1	758.4	509.5	296.0	160.6	106.7	91.8
50°	1780.7	1621.2	1456.0	1277.0	1064.8	806.6	535.8	297.2	149.2	99.8	86.0
52.5°	1817.4	1679.7	1536.3	1398.6	1207.0	953.4	637.9	317.8	143.4	94.1	79.1
55°	2034.3	2010.2	2013.6	2036.6	1888.6	1622.3	1067.1	458.9	168.7	106.7	78.0
57.5°	2868.4	2953.3	3002.6	3001.5	2757.1	2286.7	1433.0	589.7	188.2	123.9	92.9
60°	3965.3	3901.0	3810.4	3586.6	3261.9	2610.3	1602.8	634.5	162.9	98.7	84.9
62.5°	4934.8	4558.4	4224.5	3862.0	3436.3	2722.6	1637.3	631.0	142.3	74.6	59.6
65°	5539.4	4862.4	4323.2	3868.8	3367.5	2628.6	1548.9	579.4	120.5	60.8	49.3
67.5°	5684.0	4698.4	3935.4	3356.0	2813.3	2045.8	1137.0	436.0	94.1	50.5	43.6
69°	5368.4	4176.4	3260.8	2603.4	2046.9	1357.3	703.4	275.3	72.3	45.9	40.1
70°	4938.2	3632.5	2656.1	2089.3	1515.7	953.4	492.2	193.9	58.5	42.4	36.7
72.5°	3177.0	1908.0	1305.7	908.7	625.3	379.8	192.8	87.2	44.7	35.5	29.8
75°	1232.2	705.7	511.8	388.9	304.1	211.1	117.1	56.2	37.8	29.8	22.9
77.5°	606.9	464.7	379.8	260.4	151.5	94.1	63.1	43.6	31.0	21.8	14.9
80°	479.6	319.0	190.5	118.2	89.5	67.7	48.2	35.5	22.9	13.8	10.3
82.5°	245.5	134.3	98.7	80.3	66.5	52.8	39.0	25.2	14.9	9.2	8.0
85°	76.8	56.2	50.5	49.3	45.9	37.8	27.5	16.1	9.2	5.7	5.7
87.5°	5.7	8.0	10.3	8.0	9.2	8.0	10.3	6.9	4.6	4.6	3.4
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°	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0	529.0
2.5°	481.9	468.1	455.5	447.4	432.5	426.8	421.1	418.8	408.4	410.7	401.6
5°	421.1	397.0	378.6	360.3	343.1	330.5	320.1	307.5	297.2	292.6	283.4
7.5°	366.0	335.1	311.0	291.4	270.8	254.7	240.9	231.7	222.6	213.4	208.8
10°	317.8	284.5	257.0	237.5	218.0	204.2	193.9	187.0	181.3	177.8	176.7
12.5°	273.1	240.9	215.7	198.5	183.6	176.7	172.1	168.7	167.5	166.4	166.4
15°	238.6	206.5	187.0	174.4	167.5	164.1	162.9	160.6	158.4	157.2	157.2
17.5°	206.5	182.4	168.7	161.8	158.4	156.1	153.8	151.5	149.2	148.0	148.0
20°	184.7	165.2	158.4	153.8	150.3	148.0	144.6	142.3	141.2	140.0	138.9
22.5°	167.5	154.9	150.3	146.9	142.3	138.9	136.6	134.3	132.0	130.8	129.7
25°	154.9	146.9	143.4	138.9	134.3	130.8	127.4	123.9	121.7	120.5	118.2
27.5°	145.7	140.0	135.4	129.7	125.1	121.7	118.2	114.8	112.5	110.2	109.0
30°	137.7	132.0	126.2	121.7	115.9	112.5	107.9	104.4	103.3	101.0	98.7
32.5°	129.7	123.9	118.2	112.5	106.7	102.1	99.8	95.2	92.9	91.8	89.5
35°	120.5	114.8	107.9	103.3	97.5	92.9	89.5	86.0	83.7	81.4	80.3
37.5°	112.5	105.6	98.7	92.9	88.3	83.7	80.3	76.8	74.6	72.3	71.1
40°	103.3	96.4	89.5	83.7	79.1	75.7	72.3	68.8	66.5	65.4	65.4
42.5°	95.2	87.2	80.3	75.7	72.3	67.7	64.2	60.8	59.6	58.5	59.6
45°	87.2	79.1	73.4	68.8	65.4	60.8	57.3	55.0	53.9	55.0	56.2
47.5°	80.3	72.3	66.5	63.1	59.6	56.2	52.8	50.5	50.5	52.8	55.0
50°	73.4	65.4	60.8	58.5	55.0	51.6	47.0	45.9	47.0	49.3	51.6
52.5°	66.5	57.3	53.9	52.8	49.3	45.9	42.4	41.3	42.4	44.7	43.6
55°	59.6	50.5	49.3	48.2	44.7	40.1	36.7	36.7	36.7	35.5	33.3
57.5°	57.3	44.7	43.6	42.4	39.0	34.4	32.1	29.8	28.7	25.2	24.1
60°	59.6	40.1	40.1	37.8	34.4	29.8	26.4	22.9	20.6	18.3	18.3
62.5°	48.2	36.7	35.5	33.3	28.7	24.1	20.6	17.2	16.1	14.9	14.9
65°	39.0	33.3	31.0	27.5	24.1	19.5	16.1	13.8	12.6	12.6	13.8
67.5°	35.5	29.8	26.4	22.9	19.5	14.9	12.6	11.5	11.5	12.6	12.6
69°	33.3	27.5	24.1	20.6	17.2	13.8	11.5	11.5	11.5	11.5	12.6
70°	31.0	26.4	22.9	19.5	14.9	11.5	10.3	10.3	11.5	11.5	12.6
72.5°	24.1	20.6	19.5	16.1	11.5	10.3	9.2	10.3	10.3	11.5	11.5
75°	18.3	14.9	14.9	12.6	9.2	8.0	8.0	9.2	9.2	10.3	10.3
77.5°	12.6	10.3	10.3	9.2	8.0	6.9	6.9	8.0	9.2	9.2	10.3
80°	9.2	8.0	6.9	8.0	6.9	5.7	6.9	8.0	8.0	9.2	9.2
82.5°	6.9	6.9	6.9	6.9	5.7	5.7	6.9	6.9	8.0	9.2	9.2
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.9	6.9	8.0	8.0
87.5°	3.4	3.4	3.4	4.6	4.6	5.7	5.7	5.7	5.7	6.9	6.9
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°	529.0	529.0	529.0	529.0
2.5°	399.3	398.1	393.5	394.7
5°	279.9	273.1	277.6	276.5
7.5°	205.4	204.2	203.1	205.4
10°	175.6	175.6	174.4	175.6
12.5°	165.2	165.2	165.2	165.2
15°	157.2	157.2	156.1	156.1
17.5°	148.0	148.0	148.0	146.9
20°	138.9	137.7	137.7	137.7
22.5°	128.5	127.4	127.4	127.4
25°	118.2	117.1	117.1	117.1
27.5°	107.9	106.7	105.6	105.6
30°	97.5	96.4	95.2	95.2
32.5°	87.2	86.0	84.9	84.9
35°	78.0	78.0	76.8	75.7
37.5°	70.0	70.0	70.0	70.0
40°	64.2	65.4	65.4	65.4
42.5°	60.8	61.9	63.1	64.2
45°	58.5	60.8	61.9	61.9
47.5°	57.3	58.5	59.6	59.6
50°	52.8	51.6	51.6	51.6
52.5°	42.4	40.1	39.0	37.8
55°	31.0	29.8	27.5	27.5
57.5°	21.8	21.8	20.6	20.6
60°	17.2	17.2	16.1	17.2
62.5°	14.9	14.9	14.9	14.9
65°	13.8	13.8	13.8	13.8
67.5°	13.8	13.8	13.8	13.8
69°	12.6	12.6	12.6	12.6
70°	12.6	12.6	12.6	12.6
72.5°	11.5	11.5	11.5	11.5
75°	10.3	11.5	11.5	11.5
77.5°	10.3	10.3	10.3	10.3
80°	9.2	9.2	10.3	10.3
82.5°	9.2	9.2	9.2	9.2
85°	8.0	8.0	9.2	9.2
87.5°	6.9	6.9	8.0	8.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)