

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: P164918

Luminaire Tested: **VTS-E03-LED-E1-SL2-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P164918  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E03-LED-E1-SL2-HSS-7050  
Description: VENTUS LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (63) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

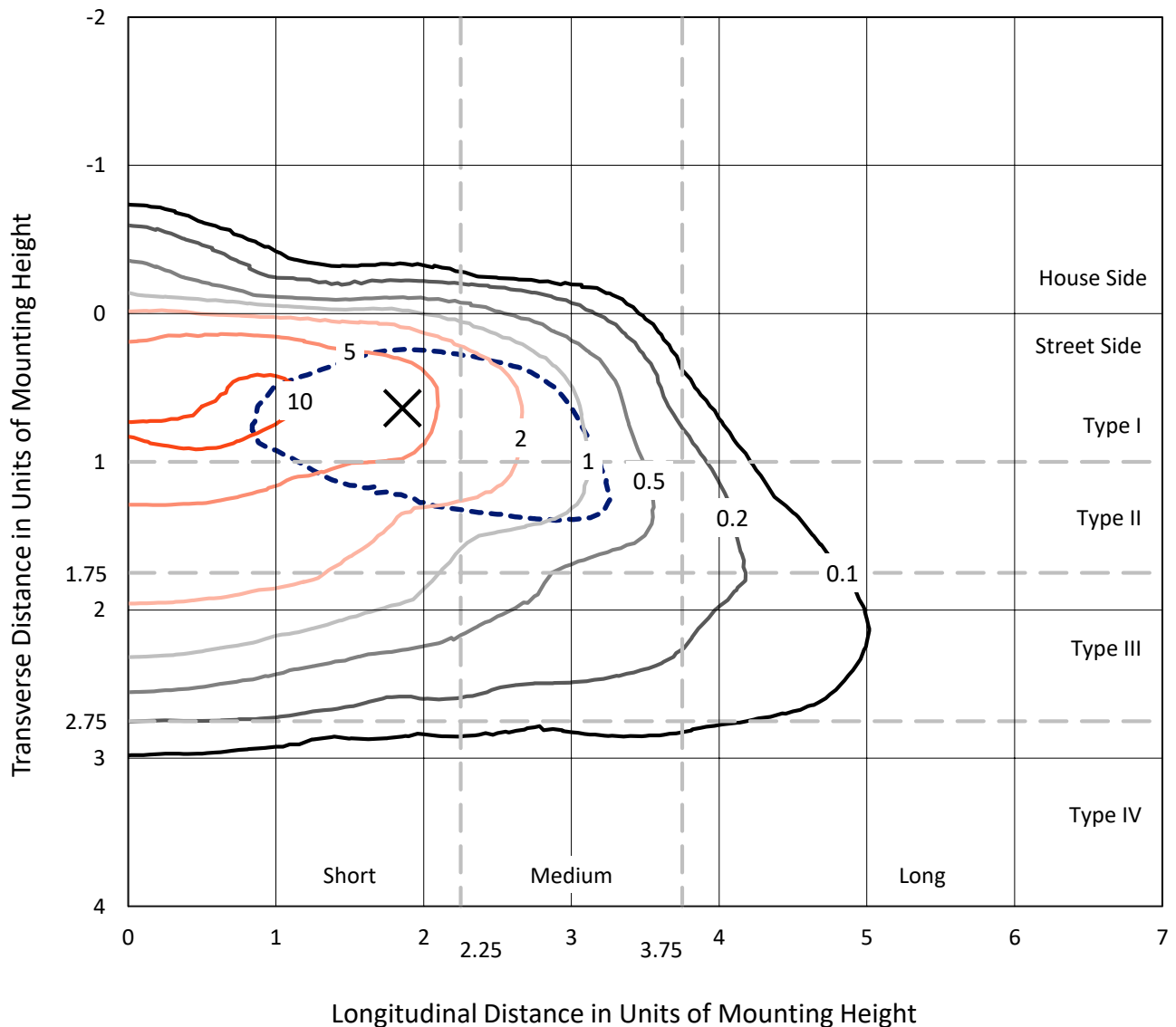
Lumens per Lamp: N/A  
Luminaire Lumens: 5576.9 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 75.2  
Input Voltage (V): NR  
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

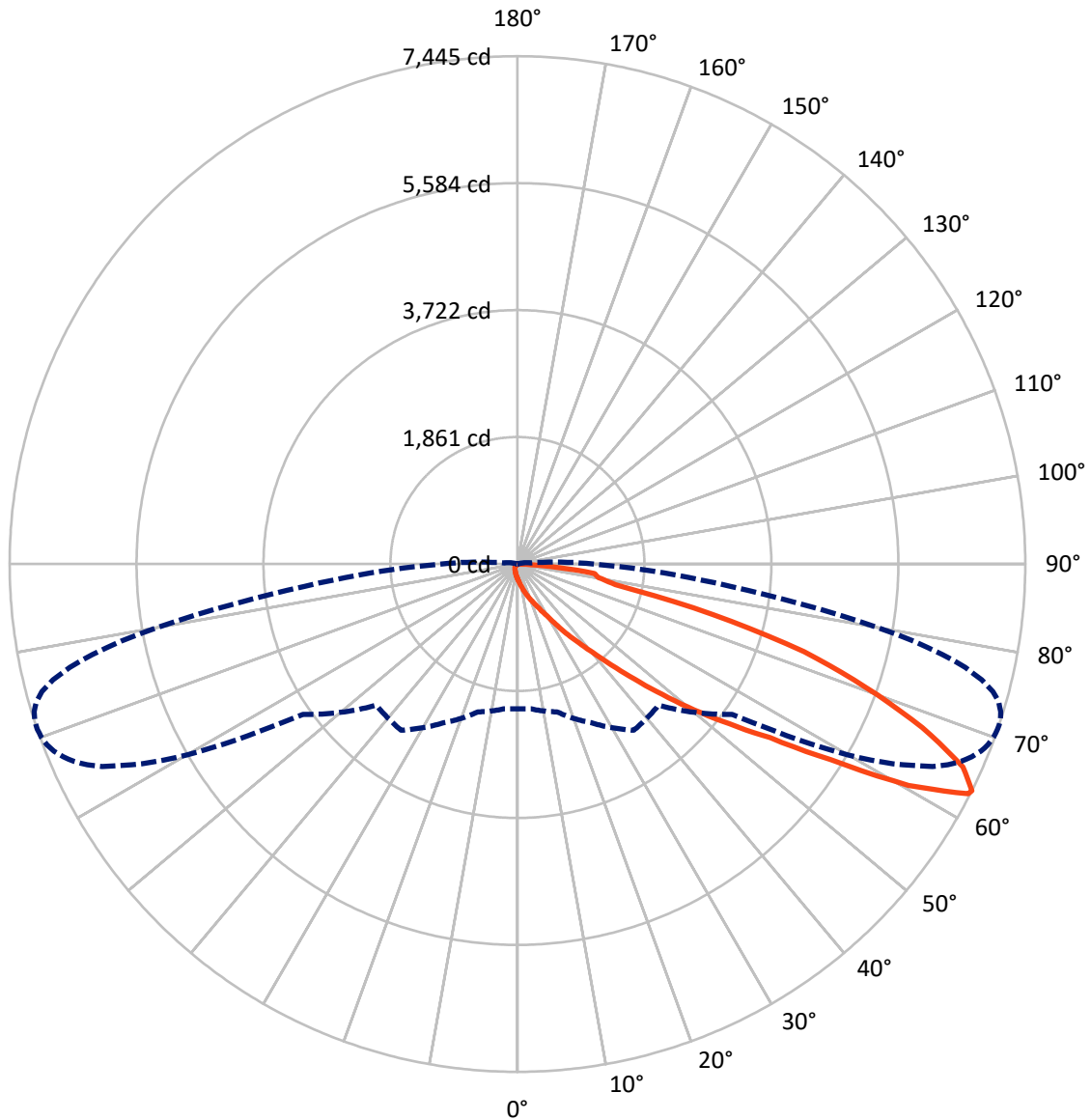
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	118.4	0.0	118.4
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	5458.5	0.0	5458.5
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	5576.9	0.0	5576.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.6	0.4
10°-20°	91.7	1.6
20°-30°	186.3	3.3
30°-40°	455.1	8.2
40°-50°	1017.7	18.2
50°-60°	1431.0	25.7
60°-70°	1682.7	30.2
70°-80°	607.6	10.9
80°-90°	81.3	1.5
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°	5576.9	100.0
0°-180°	5576.9	100.0



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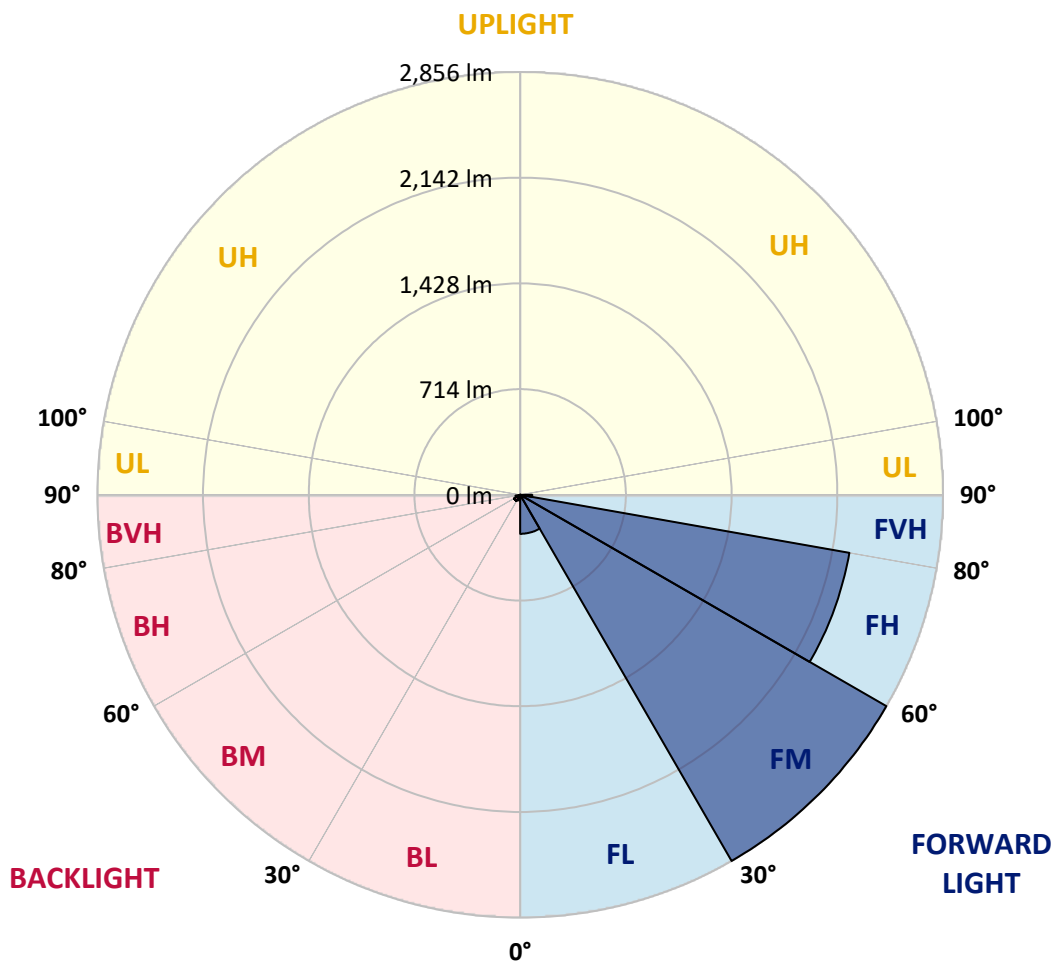
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	263.5	4.7			
FM	(30°-60°)	2856.0	51.2			
FH	(60°-80°)	2257.9	40.5			G2/5000
FVH	(80°-90°)	81.1	1.5			G1/100
BL	(0°-30°)	38.1	0.7	B0/110		
BM	(30°-60°)	47.7	0.9	B0/220		
BH	(60°-80°)	32.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9
2.5°	279.8	282.8	280.8	275.8	269.7	261.6	254.5	254.5	253.5	250.4	251.4
5°	367.0	368.0	364.0	351.8	340.6	323.4	304.1	302.1	300.1	297.1	296.1
7.5°	452.2	456.2	452.2	439.0	416.7	390.3	359.9	356.9	350.8	350.8	346.7
10°	539.4	539.4	535.3	520.1	499.8	462.3	423.8	418.7	411.6	409.6	403.5
12.5°	601.2	601.2	599.2	591.1	574.8	541.4	494.7	489.7	480.6	477.5	470.4
15°	625.5	625.5	626.6	633.6	634.7	619.5	570.8	566.7	557.6	549.5	546.5
17.5°	640.7	639.7	639.7	649.9	668.1	678.3	646.8	642.8	632.7	628.6	618.4
20°	674.2	672.2	666.1	666.1	683.3	718.8	718.8	717.8	706.7	703.6	698.5
22.5°	723.9	721.9	703.6	688.4	696.5	741.1	782.7	780.7	776.6	772.5	769.5
25°	805.0	797.9	766.4	721.9	714.8	762.4	831.3	836.4	839.5	839.5	841.5
27.5°	927.7	918.6	862.8	779.7	748.2	796.9	885.1	895.2	904.3	906.4	915.5
30°	1098.0	1081.8	1001.7	880.0	808.1	847.6	964.2	975.3	988.5	992.6	1006.7
32.5°	1377.8	1368.7	1291.7	1109.1	955.0	947.0	1074.7	1088.9	1106.1	1113.2	1130.4
35°	1803.6	1805.7	1742.8	1578.6	1365.7	1254.1	1272.4	1284.5	1290.6	1311.9	1321.0
37.5°	2092.6	2097.6	2111.8	2047.0	1894.9	1781.3	1638.3	1651.6	1620.1	1623.1	1624.2
40°	2250.7	2266.9	2350.1	2413.0	2400.8	2334.9	2220.3	2227.4	2168.6	2155.4	2091.5
42.5°	2356.1	2377.4	2510.3	2704.9	2804.3	2864.1	2837.8	2834.7	2789.1	2771.8	2718.1
45°	2422.1	2441.4	2608.6	2895.5	3124.7	3299.0	3371.0	3379.1	3340.6	3323.4	3278.8
47.5°	2419.0	2441.4	2620.8	2966.5	3304.1	3582.9	3785.7	3795.8	3819.1	3803.9	3807.0
50°	2285.2	2306.5	2487.0	2845.8	3251.4	3712.7	4083.8	4116.2	4153.7	4179.1	4191.3
52.5°	2123.0	2138.2	2298.4	2639.0	3026.3	3658.9	4260.1	4315.9	4371.7	4419.4	4452.8
55°	2063.1	2080.4	2206.1	2489.0	2845.8	3433.9	4342.3	4424.4	4503.5	4581.6	4645.4
57.5°	2094.6	2110.8	2201.1	2418.0	2738.4	3196.6	4365.6	4493.4	4623.1	4749.8	4875.6
60°	2210.2	2227.4	2304.5	2483.9	2710.0	3059.8	4274.4	4486.3	4702.2	4923.2	5131.1
62.5°	2164.5	2171.6	2285.2	2599.5	2912.8	2943.2	3942.8	4238.9	4568.4	4909.1	5244.6
63°	2121.0	2129.1	2244.6	2568.1	2974.6	2925.9	3840.4	4152.7	4500.4	4867.4	5232.5
65°	1923.3	1924.3	2012.5	2268.0	2905.7	2956.4	3384.2	3682.3	4081.7	4521.7	4983.1
67.5°	1435.6	1428.5	1513.7	1708.3	2281.2	2957.4	2904.6	3072.0	3349.8	3740.1	4153.7
70°	509.0	497.8	635.7	905.3	1421.4	2419.0	2496.1	2507.2	2584.3	2795.2	3054.7
72.5°	165.2	168.3	202.7	331.5	654.9	1628.2	2259.9	2225.4	2205.1	2204.1	2238.6
75°	65.9	66.9	81.1	147.0	294.0	784.7	1979.0	1998.3	2005.4	2015.5	2026.7
77.5°	31.4	34.5	45.6	82.1	146.0	388.3	1416.3	1579.5	1672.8	1744.9	1788.4
80°	11.1	13.2	25.4	50.7	67.9	178.4	746.2	900.3	1037.1	1213.6	1365.7
82.5°	0.0	0.0	5.0	35.5	37.5	72.0	306.2	358.9	410.6	532.2	683.3
85°	0.0	0.0	0.0	10.2	11.1	12.2	103.4	124.7	139.9	163.2	188.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	6.1	15.2	23.3
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9
2.5°	249.4	248.4	248.4	246.4	245.3	243.3	242.3	239.2	238.3	238.3	238.3
5°	295.0	291.0	288.9	283.9	280.8	279.8	274.8	272.7	269.7	270.7	265.6
7.5°	345.7	338.6	335.6	328.5	326.5	319.3	317.3	312.3	309.2	303.2	301.1
10°	401.5	392.4	387.3	376.1	373.1	368.0	361.9	355.9	350.8	344.7	341.7
12.5°	465.4	457.3	453.2	438.0	430.9	423.8	415.7	407.6	399.4	394.4	387.3
15°	540.4	527.2	523.1	509.0	496.8	487.7	476.5	466.4	460.3	450.2	443.0
17.5°	614.4	601.2	598.2	576.9	563.7	557.6	545.5	532.2	521.1	511.0	499.8
20°	688.4	679.3	671.1	650.9	636.7	626.6	610.3	597.1	588.0	573.9	559.6
22.5°	762.4	753.3	747.2	725.9	712.8	698.5	684.4	670.1	657.0	639.7	623.5
25°	838.5	832.4	829.3	810.1	797.9	784.7	770.5	754.3	738.1	718.8	701.6
27.5°	917.5	919.6	913.5	909.4	896.2	887.1	864.8	853.7	841.5	818.2	796.9
30°	1017.9	1024.0	1021.9	1025.0	1016.9	1010.8	993.6	979.4	965.2	942.9	918.6
32.5°	1144.6	1152.8	1156.8	1168.0	1163.9	1161.9	1156.8	1136.5	1126.4	1087.9	1077.7
35°	1340.3	1336.2	1353.5	1362.6	1358.5	1356.6	1350.5	1339.3	1327.1	1299.7	1274.4
37.5°	1594.8	1598.8	1604.9	1586.7	1574.5	1573.5	1555.2	1544.1	1526.8	1496.4	1466.0
40°	2061.1	2035.8	2007.4	1930.4	1896.9	1877.6	1823.9	1808.7	1779.3	1737.7	1706.3
42.5°	2667.4	2642.1	2556.9	2428.2	2359.2	2263.9	2220.3	2166.6	2125.0	2057.1	2020.6
45°	3269.7	3196.6	3186.5	3036.5	2951.3	2825.6	2747.5	2657.3	2563.0	2473.8	2408.9
47.5°	3777.6	3761.3	3711.7	3620.4	3541.4	3435.9	3335.5	3196.6	3099.3	2972.6	2856.0
50°	4184.1	4183.1	4164.8	4112.1	4046.3	3961.1	3872.9	3755.3	3644.8	3489.6	3365.0
52.5°	4488.3	4504.5	4510.6	4494.3	4469.0	4394.0	4349.4	4251.0	4157.8	4025.9	3891.1
55°	4711.3	4771.1	4801.6	4836.0	4829.0	4802.6	4800.6	4736.7	4694.1	4589.6	4494.3
57.5°	4987.1	5085.4	5179.7	5347.0	5353.1	5411.9	5442.3	5472.8	5480.8	5439.3	5407.9
60°	5337.9	5538.6	5717.0	6066.9	6158.1	6302.1	6395.3	6496.7	6582.9	6590.0	6588.0
62.5°	5585.2	5894.5	6182.4	6701.5	6878.9	7045.2	7169.9	7268.3	7328.1	7388.9	7417.3
63°	5592.4	5931.0	6237.2	6772.5	6959.0	7117.2	7235.8	7327.1	7389.9	7426.4	7444.7
65°	5421.0	5831.6	6196.6	6729.9	6905.3	7064.5	7126.3	7186.1	7216.6	7230.7	7177.0
67.5°	4594.8	4996.2	5422.0	6018.2	6168.2	6358.8	6409.5	6440.0	6454.1	6451.1	6405.5
70°	3435.9	3772.5	4246.0	4927.3	5126.0	5312.6	5428.1	5477.8	5494.0	5488.9	5421.0
72.5°	2398.7	2596.4	2986.8	3745.1	4015.8	4255.1	4398.1	4472.1	4487.3	4456.8	4394.0
75°	2014.5	2024.7	2112.8	2527.5	2781.0	3036.5	3197.6	3244.3	3213.9	3121.6	2961.5
77.5°	1798.5	1820.9	1820.9	1882.7	1932.4	2003.4	2018.6	1905.0	1773.2	1602.9	1465.0
80°	1508.6	1586.7	1641.4	1687.0	1692.1	1677.9	1640.4	1576.5	1475.1	1345.3	1201.4
82.5°	916.5	1070.6	1133.5	1368.7	1484.2	1562.3	1556.3	1471.1	1394.0	1259.2	1136.5
85°	231.2	249.4	270.7	351.8	394.4	481.6	536.3	561.7	570.8	524.2	474.5
87.5°	22.3	15.2	25.4	19.3	27.4	20.3	27.4	25.4	31.4	33.4	36.5
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9
2.5°	236.2	235.2	234.2	233.2	232.2	231.2	229.1	229.1	227.1	226.1	225.1
5°	262.6	260.5	259.6	257.5	254.5	252.4	249.4	245.3	242.3	241.3	239.2
7.5°	296.1	291.0	288.9	285.9	281.9	275.8	271.7	268.7	263.6	260.5	254.5
10°	333.6	328.5	322.4	316.3	310.2	303.2	298.0	294.0	285.9	281.9	274.8
12.5°	381.2	372.1	365.0	356.9	348.8	340.6	334.6	322.4	315.3	306.2	300.1
15°	429.9	421.7	413.7	403.5	391.3	378.1	372.1	360.9	351.8	337.6	329.5
17.5°	488.7	473.4	461.3	449.1	438.0	425.8	413.7	396.4	383.3	371.1	354.9
20°	546.5	528.2	515.0	498.8	482.6	463.3	449.1	436.9	418.7	402.5	385.3
22.5°	608.3	590.1	568.7	552.6	530.3	515.0	495.8	475.5	457.3	436.0	414.6
25°	683.3	664.1	639.7	618.4	593.1	571.8	548.5	525.2	502.9	478.6	451.2
27.5°	775.6	755.3	728.9	703.6	670.1	643.8	621.5	590.1	561.7	531.3	499.8
30°	892.2	869.9	837.4	800.9	767.5	738.1	706.7	665.1	633.6	597.1	556.6
32.5°	1044.3	1017.9	974.3	939.8	898.3	859.7	816.1	774.6	730.0	682.3	635.7
35°	1235.9	1211.6	1160.8	1110.2	1064.5	1018.9	964.2	916.5	853.7	795.9	736.0
37.5°	1434.6	1391.0	1344.4	1289.6	1232.8	1178.1	1111.1	1045.3	973.3	910.4	835.4
40°	1661.7	1609.0	1570.4	1511.6	1431.5	1353.5	1291.7	1209.5	1119.3	1035.1	947.0
42.5°	1973.0	1914.2	1845.2	1756.0	1698.2	1606.9	1526.8	1429.5	1310.9	1216.6	1110.2
45°	2332.9	2252.8	2185.9	2099.7	2029.7	1916.2	1822.9	1693.1	1574.5	1450.8	1321.0
47.5°	2743.5	2644.1	2546.8	2461.6	2350.1	2238.6	2120.0	1982.1	1830.0	1694.1	1540.0
50°	3214.9	3073.9	2939.1	2829.6	2676.5	2547.8	2419.0	2263.9	2095.6	1939.5	1764.1
52.5°	3739.0	3575.8	3397.4	3229.1	3051.7	2886.4	2731.3	2552.8	2365.3	2174.7	1979.0
55°	4371.7	4249.0	4039.2	3825.2	3588.0	3367.0	3167.2	2946.3	2718.1	2467.7	2261.9
57.5°	5362.2	5302.4	5127.0	4913.1	4603.9	4335.2	3996.6	3725.9	3395.4	3050.7	2785.0
60°	6704.6	6630.5	6532.2	6358.8	6113.5	5748.5	5375.4	4954.7	4451.8	3974.3	3521.1
62.5°	7420.3	7393.9	7313.9	7194.2	6965.1	6677.2	6301.1	5838.7	5271.0	4691.0	4113.2
63°	7441.6	7408.2	7339.2	7217.5	7015.8	6737.0	6367.9	5918.8	5363.2	4772.2	4182.1
65°	7153.7	7140.5	7070.5	6937.7	6799.9	6586.9	6301.1	5914.7	5448.4	4889.8	4302.7
67.5°	6344.7	6305.1	6197.6	6157.1	6060.8	5912.7	5694.8	5429.1	5095.6	4656.6	4149.6
70°	5366.2	5307.4	5172.6	5100.6	4983.1	4889.8	4757.0	4567.4	4361.5	4055.4	3677.2
72.5°	4329.1	4207.4	4083.8	3896.2	3732.0	3565.7	3418.7	3284.9	3058.7	2935.1	2648.2
75°	2811.4	2590.3	2378.5	2094.6	1839.1	1613.0	1393.0	1281.5	1049.3	955.0	820.2
77.5°	1334.2	1210.5	1044.3	915.5	751.2	613.4	500.8	376.1	295.0	231.2	176.4
80°	1076.7	972.3	871.9	755.3	631.6	503.9	386.3	288.9	204.8	141.9	100.4
82.5°	960.1	846.5	722.9	642.8	558.7	457.3	375.1	306.2	226.1	165.2	112.5
85°	373.1	314.3	242.3	197.7	154.1	126.7	114.6	79.1	61.9	48.6	37.5
87.5°	32.4	26.4	21.3	14.2	15.2	8.1	9.1	6.1	5.0	5.0	4.1
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9	213.9
2.5°	224.0	223.1	222.0	220.0	220.0	218.0	217.0	216.0	210.9	199.7	190.6
5°	235.2	233.2	231.2	228.1	226.1	223.1	221.0	218.0	206.8	185.6	167.3
7.5°	251.4	247.4	244.4	238.3	235.2	231.2	228.1	223.1	204.8	172.3	147.0
10°	270.7	263.6	258.5	251.4	245.3	240.3	235.2	228.1	202.7	158.2	128.7
12.5°	294.0	285.9	275.8	267.6	259.6	252.4	245.3	236.2	199.7	146.0	114.6
15°	317.3	305.2	298.0	286.9	275.8	265.6	255.5	247.4	200.8	132.8	102.4
17.5°	343.7	331.5	316.3	304.1	292.0	278.8	266.6	250.4	195.7	122.7	93.3
20°	369.0	351.8	337.6	322.4	305.2	288.9	273.7	259.6	191.6	112.5	85.1
22.5°	396.4	376.1	357.9	338.6	317.3	299.1	280.8	262.6	184.5	103.4	78.1
25°	429.9	406.5	380.2	356.9	334.6	312.3	288.9	266.6	177.4	95.3	73.0
27.5°	470.4	440.0	413.7	384.2	352.8	324.5	299.1	274.8	170.4	89.2	67.9
30°	522.1	486.6	449.1	411.6	378.1	345.7	310.2	279.8	163.2	83.1	62.9
32.5°	591.1	546.5	500.8	457.3	412.6	371.1	333.6	294.0	159.1	78.1	57.8
35°	682.3	624.5	568.7	514.0	460.3	409.6	360.9	316.3	159.1	72.0	51.7
37.5°	768.5	701.6	630.6	562.7	498.8	440.0	382.2	328.5	151.1	66.9	46.7
40°	861.7	781.6	698.5	618.4	541.4	468.4	402.5	340.6	143.9	60.8	41.6
42.5°	1004.7	903.4	794.9	701.6	609.3	519.1	436.9	364.0	134.8	54.7	36.5
45°	1192.3	1063.5	935.8	822.2	704.6	594.1	496.8	406.5	132.8	49.7	31.4
47.5°	1393.0	1240.9	1090.9	945.9	808.1	679.3	562.7	454.2	132.8	44.6	27.4
50°	1592.7	1402.2	1242.0	1073.7	918.6	766.4	627.5	503.9	133.8	40.6	22.3
52.5°	1773.2	1569.4	1390.0	1195.3	1024.0	847.6	696.5	552.6	131.8	35.5	18.2
55°	2023.6	1784.4	1576.5	1361.6	1160.8	962.2	790.8	625.5	132.8	31.4	15.2
57.5°	2484.9	2204.1	1953.7	1671.8	1440.7	1184.2	976.3	775.6	145.0	26.4	11.1
60°	3147.0	2782.0	2430.2	2086.5	1792.5	1487.3	1217.6	981.4	170.4	21.3	8.1
62.5°	3592.0	3114.5	2694.8	2315.6	1973.9	1654.6	1360.6	1091.9	187.5	17.2	5.0
63°	3637.6	3143.9	2722.2	2330.8	1982.1	1662.7	1366.6	1100.0	188.6	16.2	5.0
65°	3723.8	3194.6	2737.4	2333.9	1973.9	1651.6	1362.6	1099.0	190.6	13.2	4.1
67.5°	3625.5	3116.5	2649.2	2246.7	1903.0	1585.6	1311.9	1058.4	189.6	9.1	3.0
70°	3242.3	2820.5	2409.9	2034.8	1722.5	1435.6	1194.3	965.2	174.4	6.1	2.0
72.5°	2380.5	2093.6	1775.3	1504.6	1297.7	1077.7	919.6	724.9	134.8	4.1	1.0
75°	705.6	642.8	540.4	476.5	420.7	347.7	309.2	241.3	69.0	2.0	0.0
77.5°	140.9	127.8	114.6	104.4	98.3	84.2	80.1	65.9	28.4	1.0	0.0
80°	74.0	60.8	51.7	45.6	39.5	32.4	27.4	22.3	5.0	0.0	0.0
82.5°	71.0	47.7	34.5	28.4	24.3	19.3	15.2	11.1	3.0	0.0	0.0
85°	26.4	20.3	15.2	12.2	10.2	9.1	7.1	6.1	0.0	0.0	0.0
87.5°	4.1	3.0	3.0	2.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0
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):**

	125°	135°	145°	155°	165°	175°	180°
0°	213.9	213.9	213.9	213.9	213.9	213.9	213.9
2.5°	181.5	173.4	169.3	164.3	164.3	163.2	165.2
5°	151.1	139.9	131.8	125.7	126.7	123.7	124.7
7.5°	127.8	116.6	109.5	105.5	104.4	103.4	103.4
10°	110.5	100.4	94.3	91.2	90.3	90.3	90.3
12.5°	98.3	88.2	83.1	81.1	81.1	80.1	80.1
15°	88.2	80.1	75.0	73.0	73.0	72.0	73.0
17.5°	80.1	72.0	67.9	65.9	65.9	64.9	64.9
20°	73.0	65.9	61.9	58.8	58.8	57.8	58.8
22.5°	66.9	59.8	54.7	52.7	51.7	50.7	51.7
25°	60.8	53.7	48.6	45.6	44.6	44.6	43.6
27.5°	55.8	48.6	42.6	39.5	38.5	38.5	37.5
30°	50.7	42.6	36.5	33.4	32.4	32.4	32.4
32.5°	45.6	36.5	31.4	28.4	27.4	27.4	27.4
35°	40.6	31.4	26.4	23.3	22.3	22.3	22.3
37.5°	34.5	26.4	20.3	18.2	17.2	16.2	16.2
40°	29.4	20.3	15.2	13.2	11.1	11.1	11.1
42.5°	24.3	16.2	11.1	8.1	7.1	6.1	7.1
45°	20.3	12.2	7.1	4.1	3.0	3.0	3.0
47.5°	16.2	8.1	3.0	1.0	1.0	1.0	1.0
50°	12.2	5.0	1.0	0.0	0.0	1.0	1.0
52.5°	9.1	3.0	0.0	0.0	0.0	0.0	0.0
55°	5.0	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)