

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: P164915

Luminaire Tested: **VTS-E03-LED-E1-SL2-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P164915  
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-8030  
Description: VENTUS LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

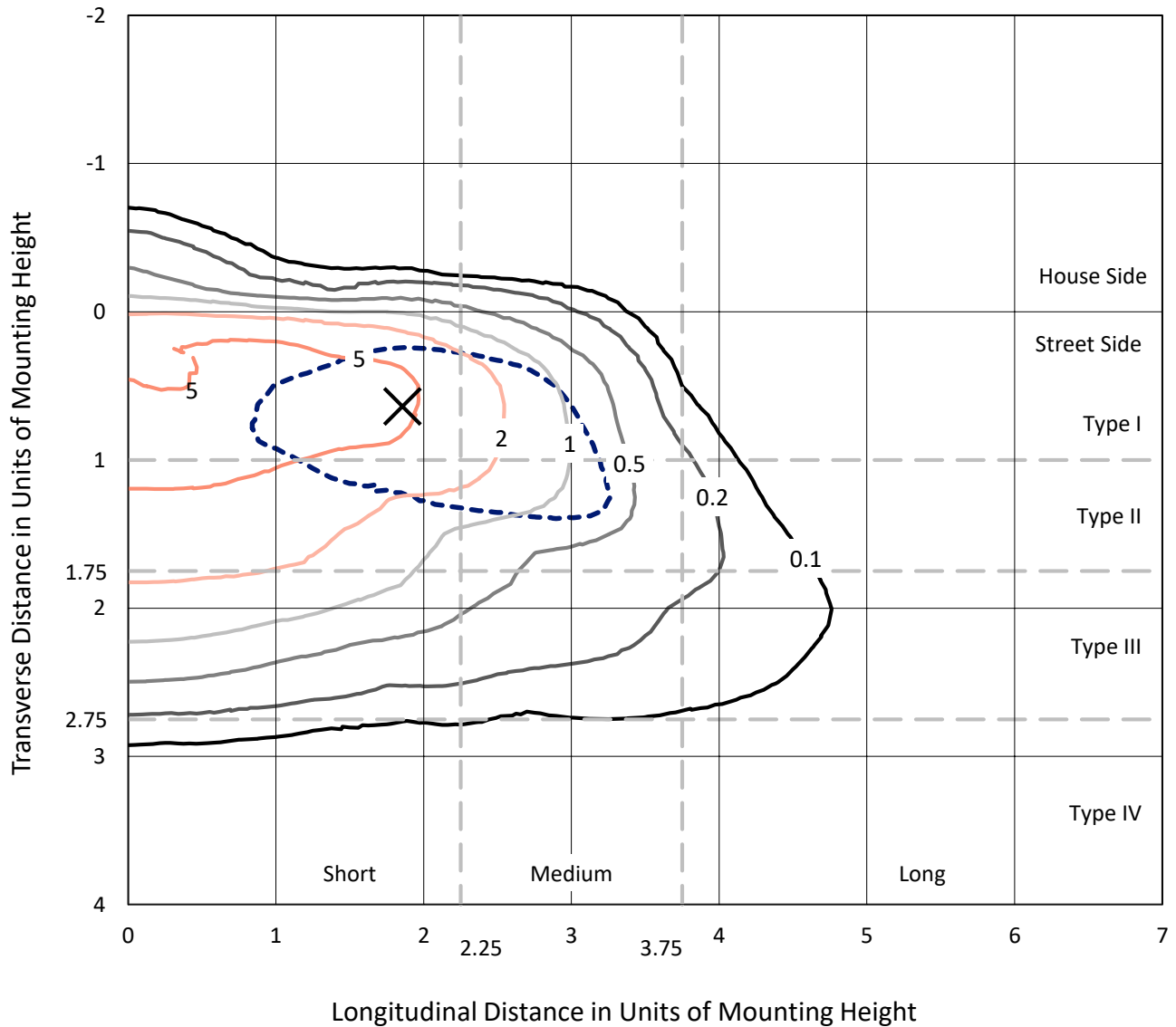
Lumens per Lamp: N/A  
Luminaire Lumens: 4587.1 lumens  
Efficiency: N/A  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 75.2  
Input Voltage (V): NR  
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

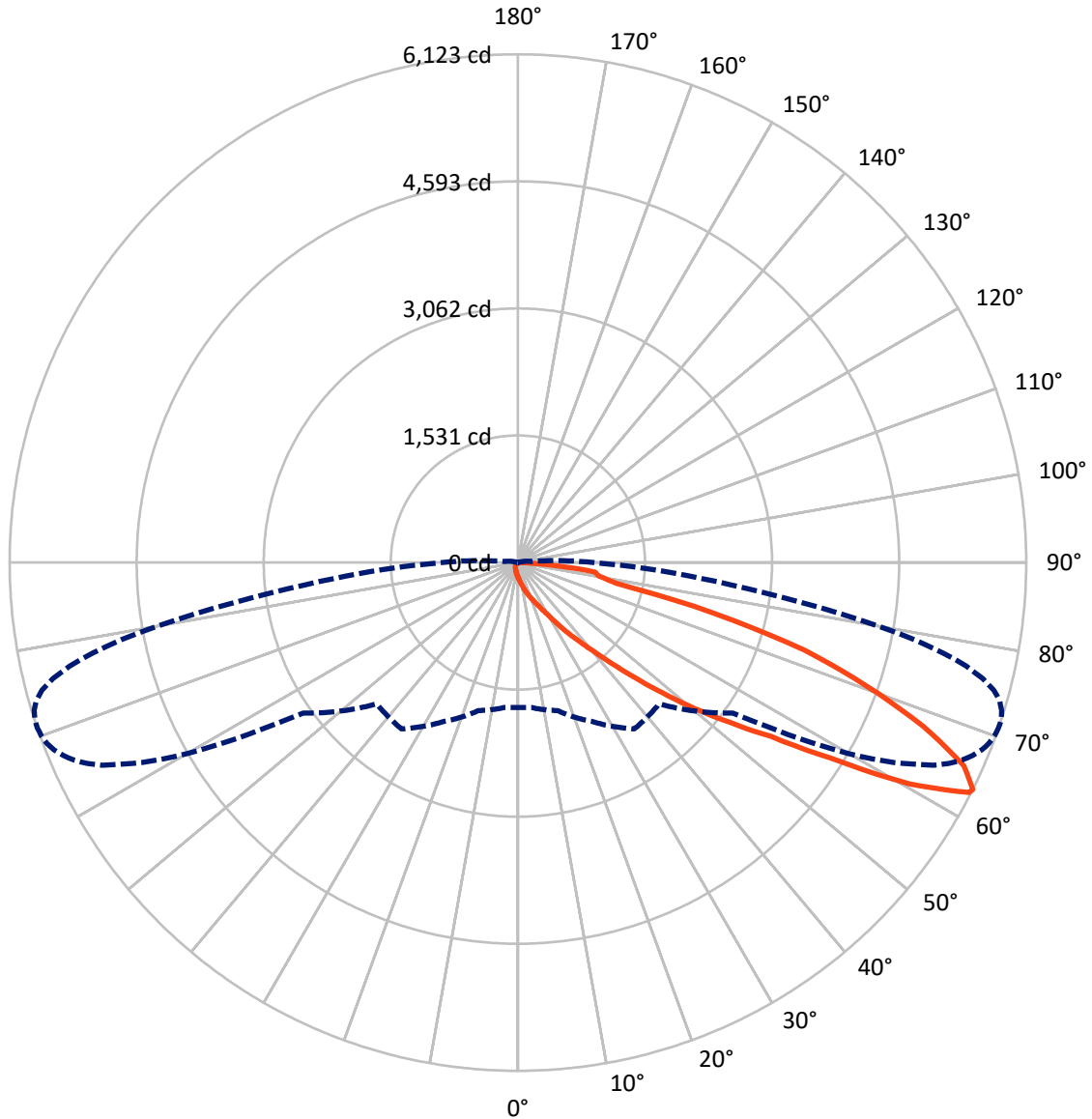
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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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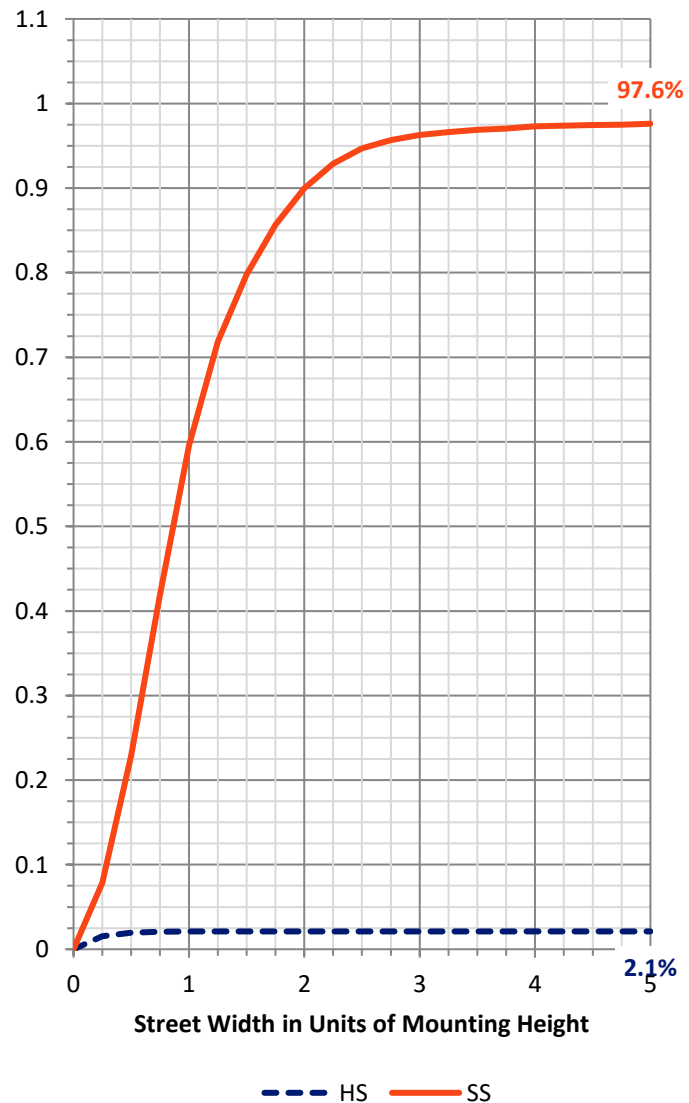
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	97.4	0.0	97.4
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	4489.7	0.0	4489.7
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	4587.1	0.0	4587.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.4	0.4
10°-20°	75.4	1.6
20°-30°	153.2	3.3
30°-40°	374.3	8.2
40°-50°	837.1	18.2
50°-60°	1177.0	25.7
60°-70°	1384.1	30.2
70°-80°	499.8	10.9
80°-90°	66.8	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°	4587.1	100.0
0°-180°	4587.1	100.0



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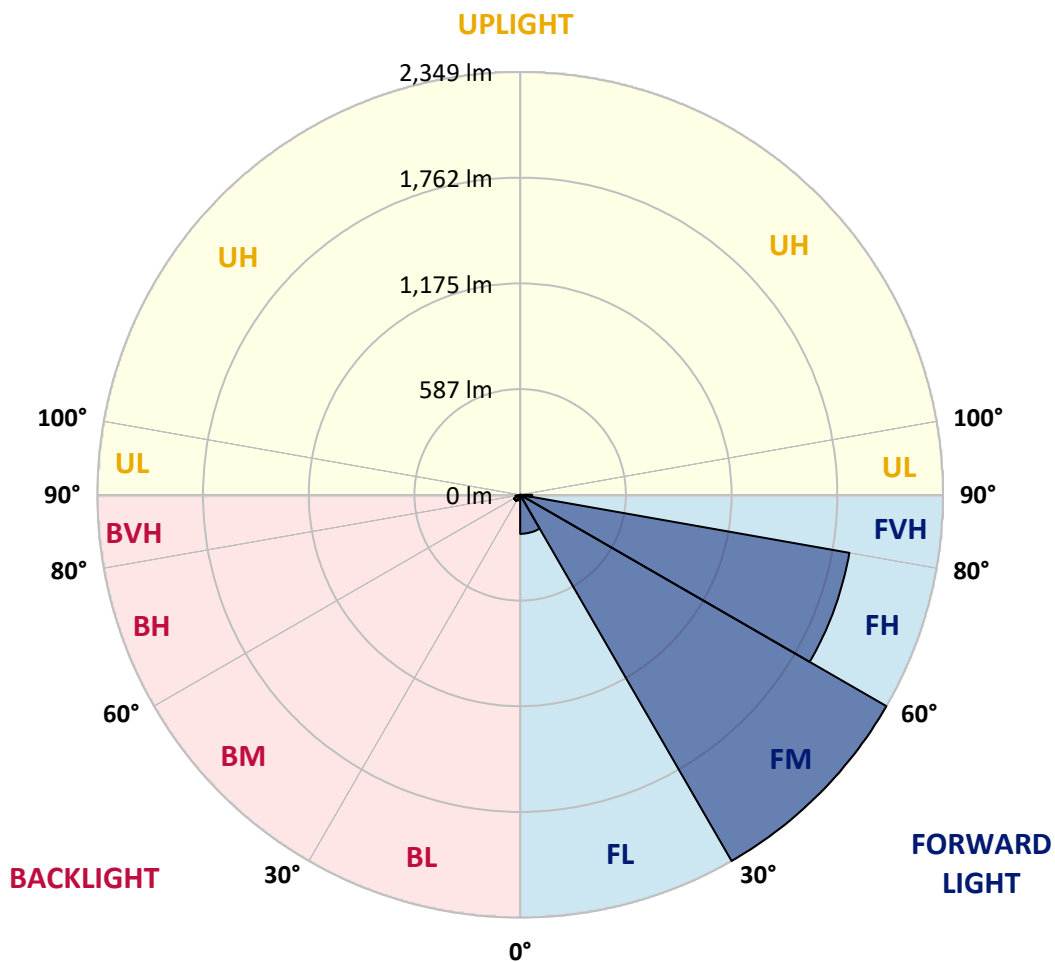
CATALOG NUMBER: VTS-E03-LED-E1-SL2-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	216.8	4.7			
FM	(30°-60°)	2349.1	51.2			
FH	(60°-80°)	1857.1	40.5			G2/5000
FVH	(80°-90°)	66.7	1.5			G1/100
BL	(0°-30°)	31.3	0.7	B0/110		
BM	(30°-60°)	39.2	0.9	B0/220		
BH	(60°-80°)	26.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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°	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
2.5°	230.2	232.6	231.0	226.8	221.8	215.2	209.3	209.3	208.5	206.0	206.8
5°	301.9	302.7	299.4	289.4	280.2	266.0	250.2	248.5	246.8	244.3	243.5
7.5°	371.9	375.2	371.9	361.1	342.7	321.1	296.0	293.6	288.5	288.5	285.2
10°	443.7	443.7	440.3	427.8	411.1	380.3	348.6	344.4	338.6	336.9	331.9
12.5°	494.5	494.5	492.8	486.2	472.8	445.3	406.9	402.8	395.3	392.8	386.9
15°	514.5	514.5	515.4	521.2	522.0	509.5	469.5	466.1	458.6	452.0	449.5
17.5°	527.0	526.2	526.2	534.6	549.5	557.9	532.0	528.7	520.4	517.0	508.7
20°	554.6	552.9	547.9	547.9	562.0	591.2	591.2	590.4	581.2	578.7	574.6
22.5°	595.4	593.7	578.7	566.2	572.9	609.6	643.8	642.1	638.8	635.4	632.9
25°	662.1	656.3	630.4	593.7	587.9	627.1	683.8	688.0	690.5	690.5	692.1
27.5°	763.0	755.5	709.7	641.3	615.4	655.4	728.0	736.3	743.8	745.5	753.0
30°	903.1	889.8	823.9	723.8	664.6	697.2	793.1	802.2	813.1	816.4	828.1
32.5°	1133.3	1125.8	1062.4	912.3	785.5	778.9	884.0	895.6	909.8	915.6	929.8
35°	1483.5	1485.2	1433.5	1298.4	1123.3	1031.5	1046.6	1056.5	1061.6	1079.1	1086.6
37.5°	1721.2	1725.3	1737.0	1683.7	1558.6	1465.2	1347.6	1358.5	1332.6	1335.1	1335.9
40°	1851.3	1864.6	1933.0	1984.7	1974.7	1920.5	1826.3	1832.1	1783.7	1772.9	1720.3
42.5°	1938.0	1955.5	2064.8	2224.8	2306.6	2355.8	2334.1	2331.6	2294.1	2279.9	2235.7
45°	1992.2	2008.1	2145.6	2381.6	2570.1	2713.5	2772.7	2779.4	2747.7	2733.5	2696.9
47.5°	1989.7	2008.1	2155.6	2440.0	2717.7	2947.0	3113.8	3122.1	3141.3	3128.8	3131.3
50°	1879.6	1897.2	2045.6	2340.8	2674.3	3053.8	3359.0	3385.7	3416.5	3437.4	3447.4
52.5°	1746.2	1758.7	1890.5	2170.7	2489.2	3009.6	3504.0	3549.9	3595.8	3635.0	3662.5
55°	1697.0	1711.2	1814.6	2047.3	2340.8	2824.4	3571.6	3639.2	3704.2	3768.4	3820.9
57.5°	1722.9	1736.2	1810.4	1988.9	2252.4	2629.3	3590.8	3695.9	3802.6	3906.8	4010.2
60°	1817.9	1832.1	1895.5	2043.0	2229.0	2516.7	3515.7	3690.0	3867.6	4049.4	4220.4
62.5°	1780.4	1786.2	1879.6	2138.1	2395.8	2420.8	3243.1	3486.6	3757.6	4037.8	4313.8
63°	1744.5	1751.2	1846.3	2112.3	2446.7	2406.6	3158.8	3415.7	3701.7	4003.6	4303.8
65°	1581.9	1582.7	1655.3	1865.5	2390.0	2431.7	2783.6	3028.7	3357.3	3719.2	4098.7
67.5°	1180.8	1175.0	1245.0	1405.1	1876.3	2432.5	2389.1	2526.8	2755.2	3076.3	3416.5
70°	418.6	409.5	522.9	744.7	1169.1	1989.7	2053.1	2062.2	2125.6	2299.1	2512.6
72.5°	135.9	138.4	166.8	272.7	538.7	1339.3	1858.8	1830.4	1813.8	1812.9	1841.3
75°	54.2	55.0	66.7	120.9	241.9	645.5	1627.8	1643.6	1649.5	1657.8	1667.0
77.5°	25.8	28.4	37.5	67.6	120.1	319.4	1165.0	1299.2	1375.9	1435.2	1471.0
80°	9.2	10.8	20.9	41.7	55.9	146.8	613.8	740.5	853.1	998.2	1123.3
82.5°	0.0	0.0	4.2	29.2	30.8	59.2	251.8	295.2	337.7	437.8	562.0
85°	0.0	0.0	0.0	8.4	9.2	10.0	85.1	102.6	115.1	134.2	155.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	5.0	12.5	19.2
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°	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
2.5°	205.1	204.3	204.3	202.7	201.8	200.1	199.3	196.8	196.0	196.0	196.0
5°	242.7	239.3	237.7	233.5	231.0	230.2	226.0	224.3	221.8	222.7	218.5
7.5°	284.3	278.5	276.0	270.2	268.5	262.7	261.0	256.8	254.4	249.3	247.7
10°	330.2	322.7	318.6	309.4	306.9	302.7	297.7	292.7	288.5	283.5	281.0
12.5°	382.8	376.1	372.8	360.2	354.4	348.6	341.9	335.2	328.5	324.4	318.6
15°	444.5	433.6	430.3	418.6	408.6	401.1	391.9	383.6	378.6	370.3	364.4
17.5°	505.3	494.5	492.0	474.5	463.7	458.6	448.7	437.8	428.6	420.3	411.1
20°	566.2	558.7	552.0	535.4	523.7	515.4	502.0	491.2	483.7	472.0	460.3
22.5°	627.1	619.6	614.6	597.1	586.3	574.6	562.9	551.2	540.4	526.2	512.9
25°	689.7	684.6	682.1	666.3	656.3	645.5	633.8	620.4	607.1	591.2	577.1
27.5°	754.7	756.4	751.3	748.0	737.2	729.7	711.3	702.2	692.1	672.9	655.4
30°	837.2	842.2	840.6	843.1	836.4	831.4	817.2	805.6	793.9	775.5	755.5
32.5°	941.5	948.2	951.5	960.7	957.3	955.7	951.5	934.8	926.4	894.8	886.4
35°	1102.4	1099.1	1113.3	1120.8	1117.4	1115.8	1110.8	1101.6	1091.6	1069.0	1048.2
37.5°	1311.7	1315.1	1320.1	1305.1	1295.1	1294.2	1279.2	1270.0	1255.9	1230.8	1205.8
40°	1695.3	1674.5	1651.2	1587.7	1560.3	1544.4	1500.2	1487.7	1463.5	1429.3	1403.5
42.5°	2194.0	2173.1	2103.1	1997.2	1940.5	1862.1	1826.3	1782.1	1747.9	1692.0	1662.0
45°	2689.4	2629.3	2620.9	2497.5	2427.5	2324.1	2259.9	2185.6	2108.1	2034.7	1981.4
47.5°	3107.1	3093.8	3053.0	2977.9	2912.8	2826.1	2743.5	2629.3	2549.2	2445.0	2349.1
50°	3441.5	3440.7	3425.7	3382.3	3328.1	3258.1	3185.5	3088.8	2997.9	2870.3	2767.8
52.5°	3691.7	3705.0	3710.0	3696.7	3675.9	3614.1	3577.5	3496.6	3419.8	3311.4	3200.5
55°	3875.1	3924.4	3949.4	3977.7	3971.9	3950.2	3948.6	3896.0	3861.0	3775.1	3696.7
57.5°	4102.0	4182.9	4260.4	4398.0	4403.0	4451.4	4476.4	4501.4	4508.1	4473.9	4448.1
60°	4390.5	4555.6	4702.4	4990.1	5065.2	5183.6	5260.3	5343.7	5414.5	5420.4	5418.7
62.5°	4594.0	4848.3	5085.2	5512.1	5658.0	5794.8	5897.4	5978.3	6027.5	6077.5	6100.8
63°	4599.8	4878.4	5130.2	5570.5	5723.9	5854.0	5951.6	6026.7	6078.4	6108.3	6123.4
65°	4458.9	4796.6	5096.8	5535.4	5679.7	5810.7	5861.5	5910.7	5935.8	5947.4	5903.2
67.5°	3779.3	4109.5	4459.7	4950.1	5073.5	5230.2	5272.0	5297.0	5308.6	5306.2	5268.6
70°	2826.1	3103.0	3492.4	4052.8	4216.2	4369.7	4464.7	4505.6	4518.9	4514.8	4458.9
72.5°	1973.0	2135.6	2456.7	3080.4	3303.1	3499.9	3617.5	3678.3	3690.9	3665.8	3614.1
75°	1657.0	1665.3	1737.8	2078.9	2287.4	2497.5	2630.1	2668.5	2643.5	2567.6	2435.9
77.5°	1479.3	1497.7	1497.7	1548.6	1589.4	1647.8	1660.3	1566.9	1458.5	1318.4	1205.0
80°	1240.9	1305.1	1350.1	1387.6	1391.8	1380.1	1349.2	1296.7	1213.3	1106.6	988.2
82.5°	753.9	880.6	932.3	1125.8	1220.8	1285.0	1280.1	1210.0	1146.6	1035.7	934.8
85°	190.2	205.1	222.7	289.4	324.4	396.1	441.1	462.0	469.5	431.1	390.3
87.5°	18.3	12.5	20.9	15.9	22.5	16.7	22.5	20.9	25.8	27.5	30.0
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
2.5°	194.3	193.4	192.6	191.8	191.0	190.2	188.5	188.5	186.8	185.9	185.1
5°	216.0	214.3	213.5	211.8	209.3	207.6	205.1	201.8	199.3	198.5	196.8
7.5°	243.5	239.3	237.7	235.2	231.8	226.8	223.5	221.0	216.8	214.3	209.3
10°	274.4	270.2	265.2	260.2	255.2	249.3	245.1	241.9	235.2	231.8	226.0
12.5°	313.6	306.1	300.2	293.6	286.9	280.2	275.2	265.2	259.3	251.8	246.8
15°	353.6	346.9	340.2	331.9	321.9	311.0	306.1	296.8	289.4	277.7	271.0
17.5°	401.9	389.4	379.4	369.4	360.2	350.2	340.2	326.1	315.2	305.2	291.9
20°	449.5	434.5	423.6	410.3	397.0	381.1	369.4	359.4	344.4	331.1	316.9
22.5°	500.3	485.3	467.8	454.5	436.2	423.6	407.8	391.1	376.1	358.6	341.1
25°	562.0	546.2	526.2	508.7	487.8	470.3	451.1	432.0	413.6	393.6	371.1
27.5°	638.0	621.2	599.6	578.7	551.2	529.5	511.2	485.3	462.0	437.0	411.1
30°	733.8	715.5	688.8	658.8	631.3	607.1	581.2	547.1	521.2	491.2	457.8
32.5°	858.9	837.2	801.4	773.0	738.8	707.1	671.3	637.1	600.4	561.2	522.9
35°	1016.5	996.5	954.8	913.1	875.6	838.1	793.1	753.9	702.2	654.6	605.4
37.5°	1180.0	1144.1	1105.8	1060.7	1014.0	969.0	913.9	859.8	800.6	748.9	687.1
40°	1366.8	1323.4	1291.7	1243.4	1177.5	1113.3	1062.4	994.9	920.6	851.4	778.9
42.5°	1622.8	1574.4	1517.7	1444.3	1396.8	1321.7	1255.9	1175.8	1078.2	1000.7	913.1
45°	1918.8	1852.9	1797.9	1727.0	1669.5	1576.1	1499.4	1392.6	1295.1	1193.3	1086.6
47.5°	2256.5	2174.8	2094.8	2024.7	1933.0	1841.3	1743.7	1630.3	1505.2	1393.4	1266.7
50°	2644.3	2528.4	2417.5	2327.4	2201.5	2095.6	1989.7	1862.1	1723.7	1595.2	1451.0
52.5°	3075.4	2941.2	2794.4	2656.0	2510.0	2374.1	2246.5	2099.8	1945.5	1788.7	1627.8
55°	3595.8	3494.9	3322.3	3146.3	2951.2	2769.4	2605.1	2423.4	2235.7	2029.7	1860.4
57.5°	4410.5	4361.3	4217.1	4041.1	3786.8	3565.8	3287.3	3064.6	2792.8	2509.2	2290.7
60°	5514.6	5453.7	5372.8	5230.2	5028.4	4728.3	4421.4	4075.3	3661.7	3268.9	2896.2
62.5°	6103.4	6081.6	6015.8	5917.4	5728.9	5492.1	5182.7	4802.4	4335.5	3858.5	3383.2
63°	6120.8	6093.3	6036.6	5936.6	5770.6	5541.3	5237.7	4868.3	4411.4	3925.2	3439.8
65°	5884.1	5873.2	5815.6	5706.4	5593.0	5417.9	5182.7	4865.0	4481.4	4021.9	3539.1
67.5°	5218.6	5186.0	5097.7	5064.3	4985.1	4863.3	4684.0	4465.5	4191.2	3830.1	3413.1
70°	4413.8	4365.5	4254.6	4195.4	4098.7	4021.9	3912.7	3756.7	3587.5	3335.6	3024.6
72.5°	3560.8	3460.7	3359.0	3204.7	3069.6	2932.8	2811.9	2701.9	2515.9	2414.1	2178.2
75°	2312.4	2130.6	1956.4	1722.9	1512.7	1326.8	1145.8	1054.1	863.1	785.5	674.6
77.5°	1097.4	995.7	858.9	753.0	617.9	504.5	412.0	309.4	242.7	190.2	145.1
80°	885.6	799.7	717.2	621.2	519.5	414.4	317.7	237.7	168.4	116.7	82.5
82.5°	789.7	696.3	594.6	528.7	459.5	376.1	308.5	251.8	185.9	135.9	92.6
85°	306.9	258.5	199.3	162.6	126.8	104.2	94.2	65.0	50.9	40.0	30.8
87.5°	26.7	21.7	17.5	11.7	12.5	6.7	7.5	5.0	4.2	4.2	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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
2.5°	184.3	183.5	182.6	180.9	180.9	179.3	178.5	177.6	173.4	164.3	156.8
5°	193.4	191.8	190.2	187.6	185.9	183.5	181.8	179.3	170.1	152.6	137.6
7.5°	206.8	203.5	201.0	196.0	193.4	190.2	187.6	183.5	168.4	141.7	120.9
10°	222.7	216.8	212.6	206.8	201.8	197.6	193.4	187.6	166.8	130.1	105.9
12.5°	241.9	235.2	226.8	220.1	213.5	207.6	201.8	194.3	164.3	120.1	94.2
15°	261.0	251.0	245.1	236.0	226.8	218.5	210.2	203.5	165.1	109.2	84.2
17.5°	282.7	272.7	260.2	250.2	240.2	229.3	219.3	206.0	160.9	100.9	76.7
20°	303.5	289.4	277.7	265.2	251.0	237.7	225.1	213.5	157.6	92.6	70.0
22.5°	326.1	309.4	294.4	278.5	261.0	246.0	231.0	216.0	151.8	85.1	64.2
25°	353.6	334.4	312.7	293.6	275.2	256.8	237.7	219.3	145.9	78.4	60.1
27.5°	386.9	361.9	340.2	316.0	290.2	266.9	246.0	226.0	140.1	73.4	55.9
30°	429.5	400.3	369.4	338.6	311.0	284.3	255.2	230.2	134.2	68.4	51.7
32.5°	486.2	449.5	412.0	376.1	339.4	305.2	274.4	241.9	130.9	64.2	47.6
35°	561.2	513.7	467.8	422.8	378.6	336.9	296.8	260.2	130.9	59.2	42.5
37.5°	632.1	577.1	518.7	462.8	410.3	361.9	314.4	270.2	124.3	55.0	38.4
40°	708.8	642.9	574.6	508.7	445.3	385.3	331.1	280.2	118.4	50.0	34.2
42.5°	826.4	743.0	653.8	577.1	501.2	426.9	359.4	299.4	110.9	45.0	30.0
45°	980.7	874.7	769.7	676.3	579.6	488.7	408.6	334.4	109.2	40.9	25.8
47.5°	1145.8	1020.7	897.3	778.0	664.6	558.7	462.8	373.6	109.2	36.7	22.5
50°	1310.0	1153.3	1021.5	883.1	755.5	630.4	516.2	414.4	110.1	33.4	18.3
52.5°	1458.5	1290.9	1143.3	983.2	842.2	697.2	572.9	454.5	108.4	29.2	15.0
55°	1664.5	1467.7	1296.7	1119.9	954.8	791.4	650.5	514.5	109.2	25.8	12.5
57.5°	2043.9	1812.9	1606.9	1375.1	1185.0	974.0	803.0	638.0	119.3	21.7	9.2
60°	2588.4	2288.2	1998.9	1716.2	1474.4	1223.3	1001.5	807.2	140.1	17.5	6.7
62.5°	2954.5	2561.7	2216.5	1904.7	1623.6	1360.9	1119.1	898.1	154.2	14.2	4.2
63°	2992.0	2586.0	2239.0	1917.2	1630.3	1367.6	1124.1	904.8	155.1	13.3	4.2
65°	3062.9	2627.6	2251.5	1919.6	1623.6	1358.5	1120.8	904.0	156.8	10.8	3.3
67.5°	2982.1	2563.4	2179.0	1847.9	1565.2	1304.2	1079.1	870.6	155.9	7.5	2.5
70°	2666.8	2319.9	1982.2	1673.6	1416.8	1180.8	982.4	793.9	143.4	5.0	1.7
72.5°	1958.0	1722.0	1460.2	1237.5	1067.4	886.4	756.4	596.2	110.9	3.3	0.8
75°	580.4	528.7	444.5	391.9	346.1	286.0	254.4	198.5	56.7	1.7	0.0
77.5°	115.9	105.1	94.2	85.9	80.9	69.2	65.9	54.2	23.3	0.8	0.0
80°	60.9	50.0	42.5	37.5	32.5	26.7	22.5	18.3	4.2	0.0	0.0
82.5°	58.4	39.2	28.4	23.3	20.0	15.9	12.5	9.2	2.5	0.0	0.0
85°	21.7	16.7	12.5	10.0	8.4	7.5	5.8	5.0	0.0	0.0	0.0
87.5°	3.3	2.5	2.5	1.7	1.7	0.8	0.8	0.8	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°	176.0	176.0	176.0	176.0	176.0	176.0	176.0
2.5°	149.3	142.6	139.3	135.1	135.1	134.2	135.9
5°	124.3	115.1	108.4	103.4	104.2	101.7	102.6
7.5°	105.1	95.9	90.0	86.7	85.9	85.1	85.1
10°	90.9	82.5	77.5	75.0	74.2	74.2	74.2
12.5°	80.9	72.6	68.4	66.7	66.7	65.9	65.9
15°	72.6	65.9	61.7	60.1	60.1	59.2	60.1
17.5°	65.9	59.2	55.9	54.2	54.2	53.4	53.4
20°	60.1	54.2	50.9	48.4	48.4	47.6	48.4
22.5°	55.0	49.2	45.0	43.3	42.5	41.7	42.5
25°	50.0	44.2	40.0	37.5	36.7	36.7	35.9
27.5°	45.9	40.0	35.0	32.5	31.7	31.7	30.8
30°	41.7	35.0	30.0	27.5	26.7	26.7	26.7
32.5°	37.5	30.0	25.8	23.3	22.5	22.5	22.5
35°	33.4	25.8	21.7	19.2	18.3	18.3	18.3
37.5°	28.4	21.7	16.7	15.0	14.2	13.3	13.3
40°	24.2	16.7	12.5	10.8	9.2	9.2	9.2
42.5°	20.0	13.3	9.2	6.7	5.8	5.0	5.8
45°	16.7	10.0	5.8	3.3	2.5	2.5	2.5
47.5°	13.3	6.7	2.5	0.8	0.8	0.8	0.8
50°	10.0	4.2	0.8	0.0	0.0	0.8	0.8
52.5°	7.5	2.5	0.0	0.0	0.0	0.0	0.0
55°	4.2	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)