

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: P164916

Luminaire Tested: **VTS-E03-LED-E1-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P164916
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-7030
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, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4964 lumens
Efficiency: N/A
Efficacy: 66.0 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

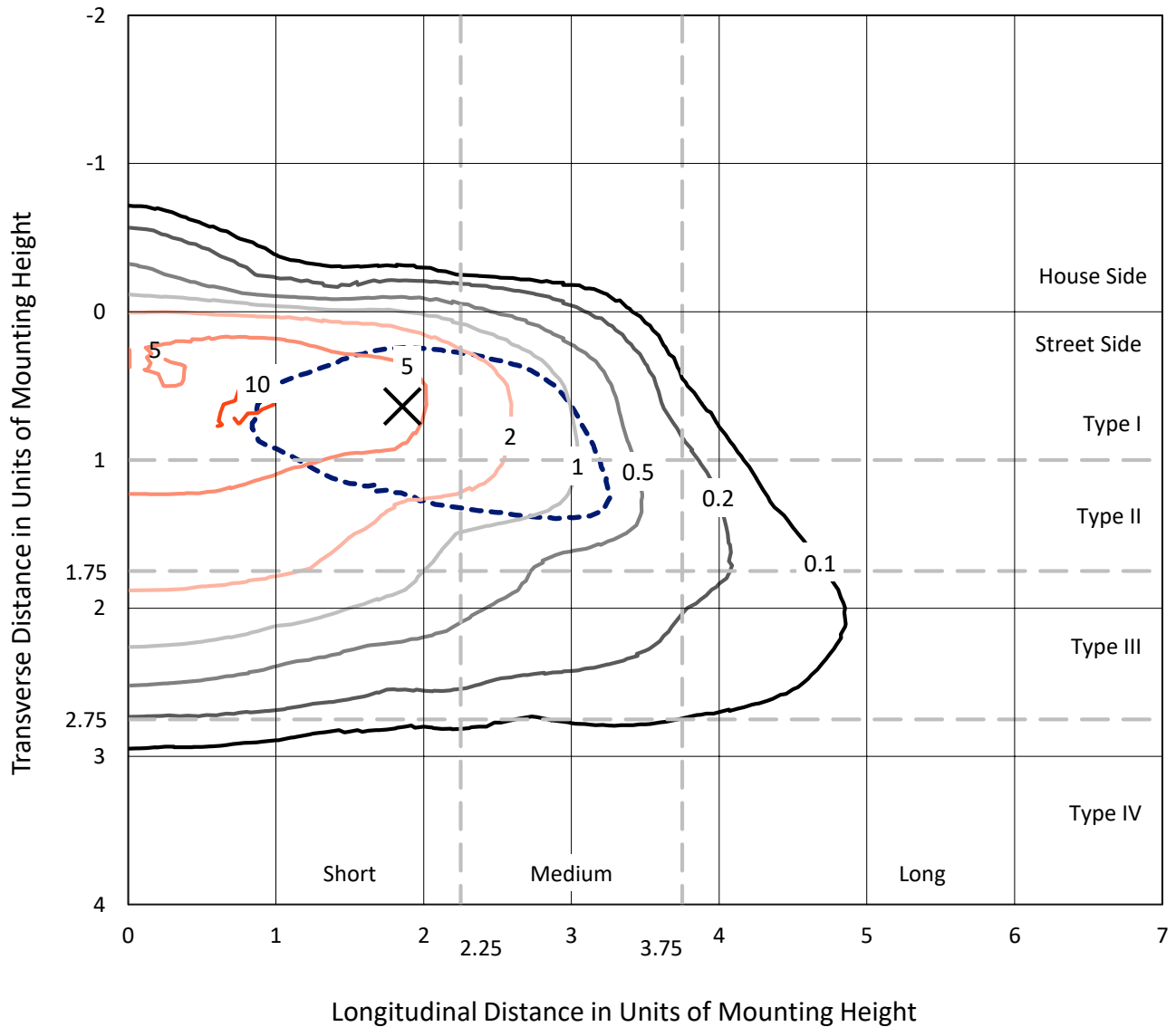
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

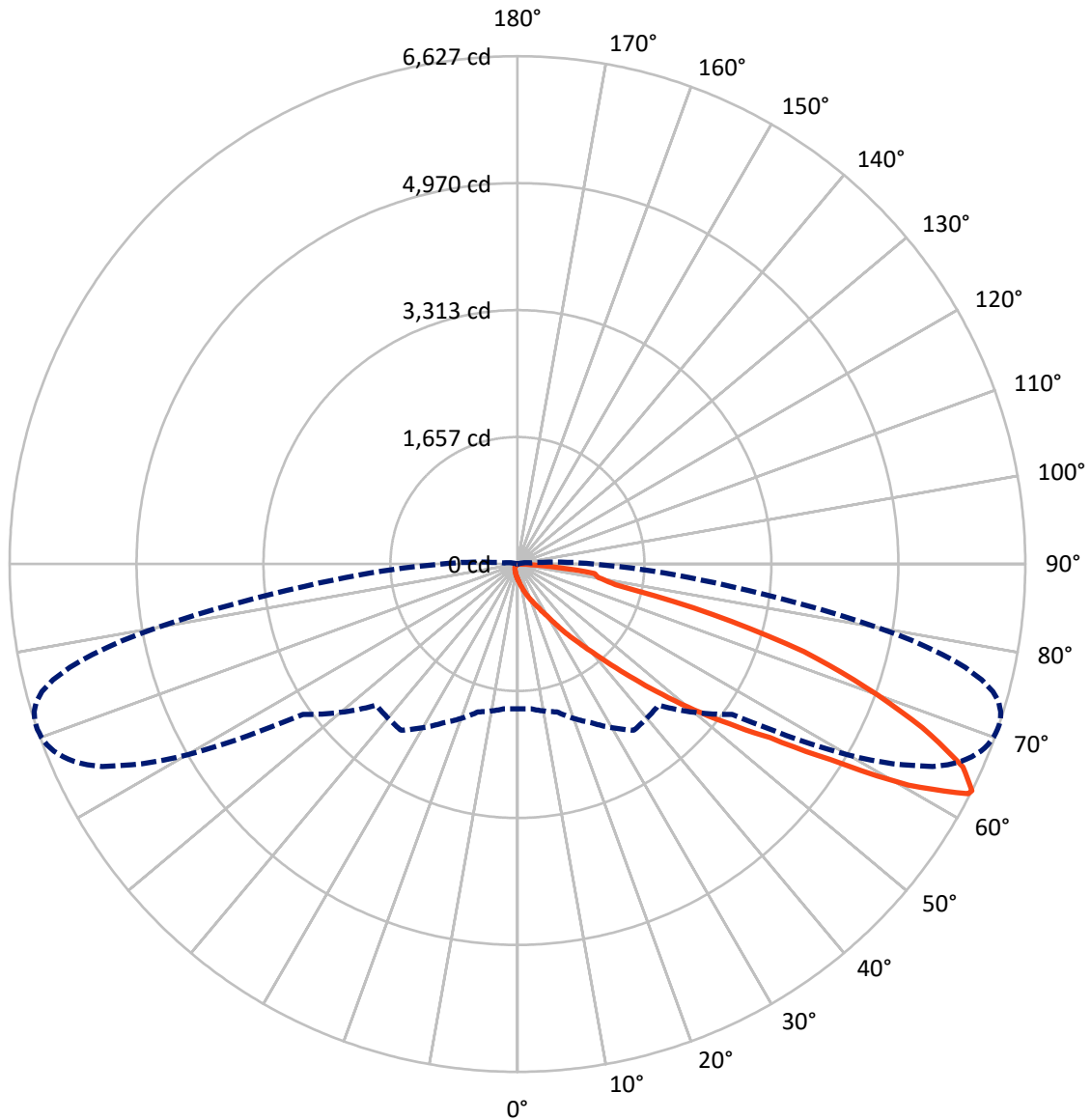
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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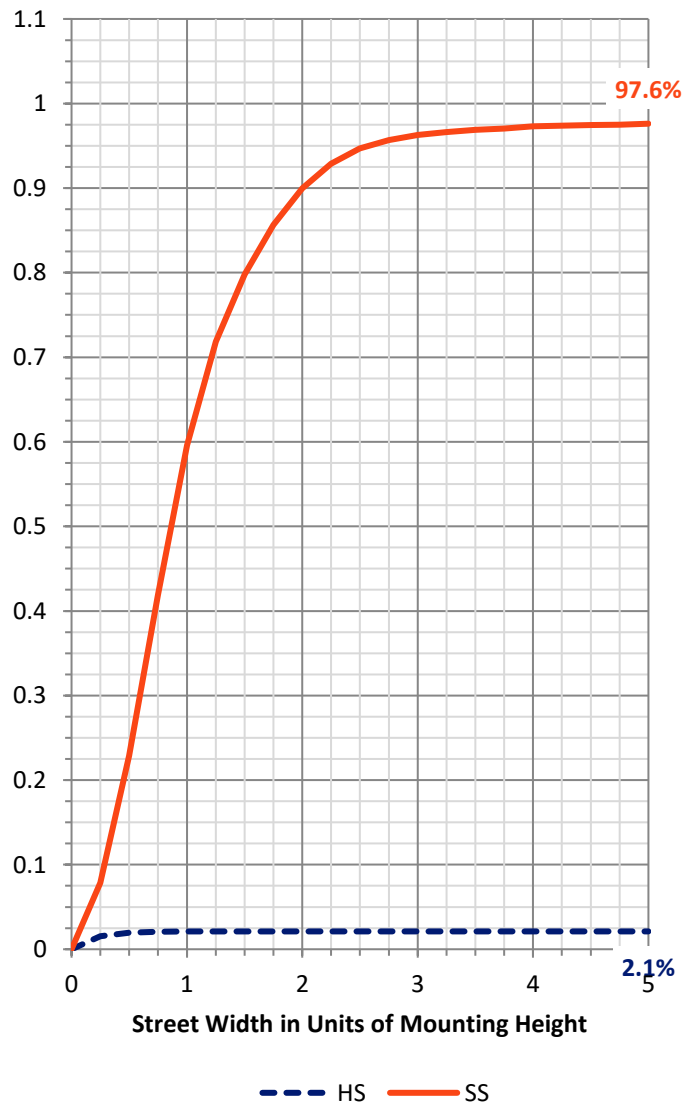
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	105.4	0.0	105.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4858.7	0.0	4858.7
	% Fixture	97.9	0.0	97.9
Total	Lumens	4964.0	0.0	4964.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	0.4
10°-20°	81.6	1.6
20°-30°	165.8	3.3
30°-40°	405.0	8.2
40°-50°	905.8	18.2
50°-60°	1273.7	25.7
60°-70°	1497.8	30.2
70°-80°	540.8	10.9
80°-90°	72.3	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°	4964.0	100.0
0°-180°	4964.0	100.0



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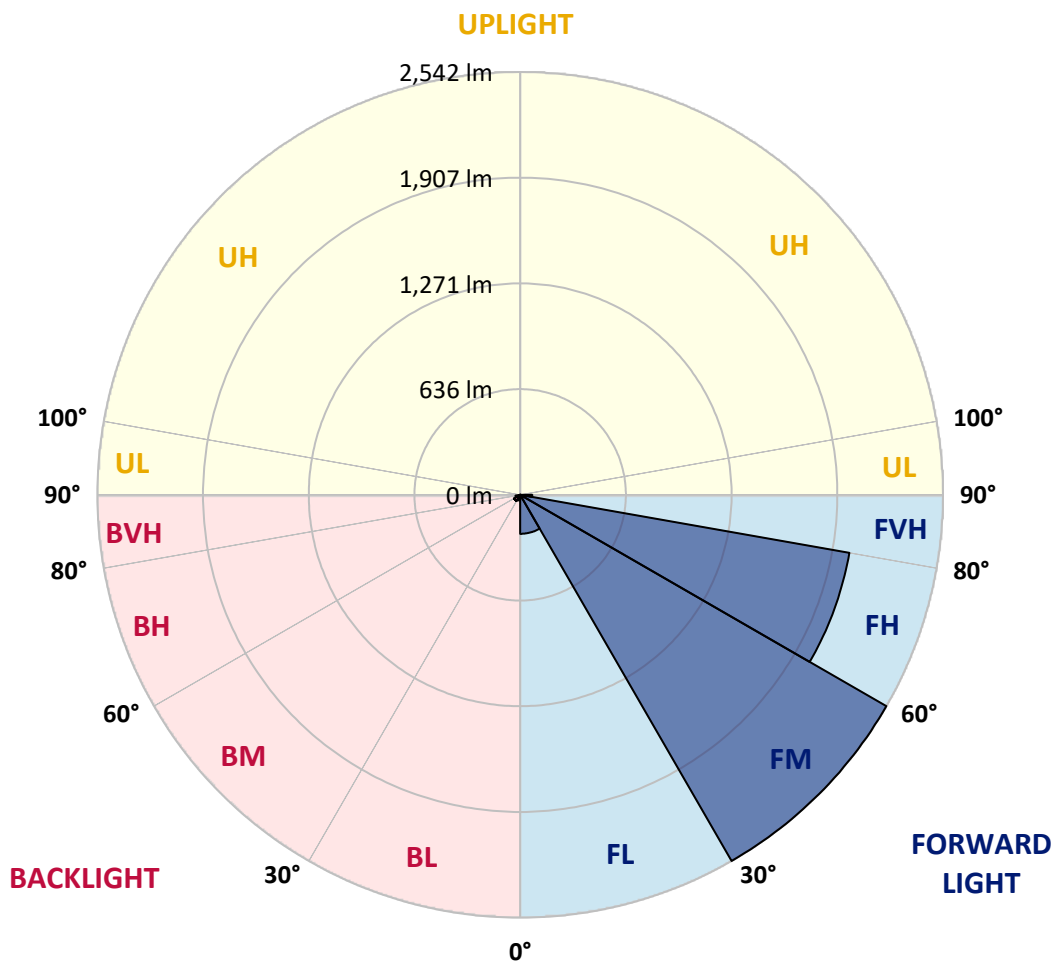
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.6	4.7			
FM	(30°-60°)	2542.2	51.2			
FH	(60°-80°)	2009.8	40.5			G2/5000
FVH	(80°-90°)	72.2	1.5			G1/100
BL	(0°-30°)	33.9	0.7	B0/110		
BM	(30°-60°)	42.5	0.9	B0/220		
BH	(60°-80°)	28.9	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°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	249.1	251.8	249.9	245.5	240.0	232.8	226.5	226.5	225.6	222.9	223.8
5°	326.7	327.6	324.0	313.1	303.2	287.9	270.7	268.9	267.1	264.4	263.5
7.5°	402.5	406.1	402.5	390.7	370.9	347.4	320.4	317.7	312.3	312.3	308.6
10°	480.1	480.1	476.5	463.0	444.9	411.5	377.2	372.7	366.4	364.6	359.2
12.5°	535.1	535.1	533.3	526.1	511.7	481.9	440.4	435.9	427.8	425.0	418.7
15°	556.8	556.8	557.7	564.0	564.9	551.4	508.1	504.4	496.3	489.1	486.4
17.5°	570.3	569.4	569.4	578.5	594.7	603.7	575.7	572.1	563.1	559.5	550.5
20°	600.1	598.3	592.9	592.9	608.2	639.8	639.8	638.9	629.0	626.3	621.8
22.5°	644.4	642.5	626.3	612.7	620.0	659.7	696.7	694.9	691.3	687.6	685.0
25°	716.5	710.2	682.2	642.5	636.2	678.7	740.0	744.5	747.2	747.2	749.0
27.5°	825.7	817.6	768.0	694.0	666.0	709.3	787.8	796.9	805.0	806.8	814.9
30°	977.3	962.9	891.6	783.3	719.3	754.4	858.2	868.2	879.9	883.5	896.1
32.5°	1226.4	1218.3	1149.7	987.2	850.1	842.9	956.6	969.2	984.6	990.9	1006.2
35°	1605.5	1607.3	1551.3	1405.1	1215.6	1116.3	1132.6	1143.4	1148.8	1167.8	1175.9
37.5°	1862.6	1867.1	1879.8	1822.0	1686.7	1585.6	1458.3	1470.1	1442.1	1444.8	1445.7
40°	2003.4	2017.8	2091.9	2147.8	2137.0	2078.3	1976.3	1982.6	1930.3	1918.6	1861.7
42.5°	2097.2	2116.2	2234.5	2407.7	2496.1	2549.4	2525.9	2523.2	2482.6	2467.3	2419.4
45°	2155.9	2173.1	2322.0	2577.3	2781.3	2936.5	3000.6	3007.8	2973.5	2958.2	2918.5
47.5°	2153.2	2173.1	2332.8	2640.5	2941.1	3189.2	3369.7	3378.7	3399.5	3385.9	3388.6
50°	2034.1	2053.1	2213.7	2533.1	2894.1	3304.7	3635.0	3663.9	3697.3	3719.8	3730.7
52.5°	1889.7	1903.2	2045.8	2349.0	2693.7	3256.9	3792.0	3841.7	3891.3	3933.7	3963.5
55°	1836.4	1851.8	1963.7	2215.5	2533.1	3056.5	3865.1	3938.2	4008.6	4078.1	4135.0
57.5°	1864.4	1878.9	1959.2	2152.3	2437.5	2845.4	3885.9	3999.6	4115.1	4227.9	4339.8
60°	1967.3	1982.6	2051.3	2210.9	2412.2	2723.6	3804.7	3993.3	4185.5	4382.2	4567.2
62.5°	1926.7	1933.0	2034.1	2313.9	2592.7	2619.8	3509.6	3773.1	4066.4	4369.6	4668.3
63°	1887.9	1895.1	1998.0	2285.9	2647.8	2604.4	3418.4	3696.4	4005.9	4332.6	4657.5
65°	1711.9	1712.8	1791.3	2018.8	2586.4	2631.5	3012.4	3277.6	3633.2	4024.9	4435.5
67.5°	1277.9	1271.5	1347.3	1520.6	2030.5	2632.4	2585.5	2734.4	2981.7	3329.1	3697.3
70°	453.0	443.1	565.8	805.8	1265.2	2153.2	2221.8	2231.7	2300.3	2488.0	2719.1
72.5°	147.1	149.8	180.5	295.1	583.0	1449.3	2011.5	1980.8	1962.8	1961.9	1992.6
75°	58.6	59.6	72.2	130.9	261.7	698.5	1761.6	1778.7	1785.0	1794.0	1804.0
77.5°	27.9	30.7	40.6	73.1	129.9	345.6	1260.7	1406.0	1489.0	1553.1	1591.9
80°	9.9	11.7	22.6	45.1	60.4	158.8	664.2	801.4	923.2	1080.2	1215.6
82.5°	0.0	0.0	4.5	31.6	33.4	64.1	272.5	319.4	365.5	473.8	608.2
85°	0.0	0.0	0.0	9.0	9.9	10.9	92.1	111.0	124.6	145.3	167.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.7	5.4	13.5	20.8
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°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	222.0	221.1	221.1	219.3	218.4	216.6	215.7	213.0	212.1	212.1	212.1
5°	262.6	259.0	257.2	252.7	249.9	249.1	244.6	242.8	240.0	241.0	236.4
7.5°	307.7	301.4	298.7	292.4	290.6	284.3	282.4	278.0	275.3	269.8	268.0
10°	357.4	349.2	344.8	334.8	332.1	327.6	322.2	316.7	312.3	306.8	304.1
12.5°	414.2	407.0	403.4	389.9	383.6	377.2	370.0	362.8	355.5	351.1	344.8
15°	481.0	469.3	465.6	453.0	442.2	434.1	424.2	415.1	409.7	400.7	394.3
17.5°	546.9	535.1	532.4	513.5	501.8	496.3	485.5	473.8	463.8	454.8	444.9
20°	612.7	604.6	597.4	579.4	566.8	557.7	543.2	531.5	523.4	510.8	498.1
22.5°	678.7	670.5	665.1	646.2	634.4	621.8	609.2	596.5	584.8	569.4	555.0
25°	746.3	740.9	738.2	721.1	710.2	698.5	685.8	671.4	657.0	639.8	624.5
27.5°	816.7	818.5	813.1	809.5	797.7	789.6	769.8	759.9	749.0	728.3	709.3
30°	906.0	911.5	909.6	912.4	905.1	899.7	884.4	871.8	859.1	839.3	817.6
32.5°	1018.9	1026.1	1029.7	1039.6	1036.0	1034.2	1029.7	1011.6	1002.6	968.3	959.3
35°	1193.0	1189.4	1204.7	1212.9	1209.2	1207.5	1202.1	1192.1	1181.3	1156.9	1134.4
37.5°	1419.5	1423.1	1428.6	1412.3	1401.5	1400.6	1384.3	1374.4	1359.1	1332.0	1304.9
40°	1834.6	1812.1	1786.8	1718.2	1688.5	1671.3	1623.5	1609.9	1583.7	1546.8	1518.8
42.5°	2374.3	2351.7	2275.9	2161.4	2100.0	2015.1	1976.3	1928.5	1891.5	1831.1	1798.6
45°	2910.4	2845.4	2836.3	2702.8	2627.0	2515.1	2445.6	2365.3	2281.4	2202.0	2144.2
47.5°	3362.5	3348.0	3303.8	3222.6	3152.2	3058.3	2969.0	2845.4	2758.7	2646.0	2542.2
50°	3724.3	3723.5	3707.2	3660.3	3601.6	3525.8	3447.3	3342.6	3244.3	3106.2	2995.2
52.5°	3995.1	4009.5	4014.9	4000.5	3978.0	3911.1	3871.5	3783.9	3700.9	3583.5	3463.5
55°	4193.6	4246.9	4273.9	4304.6	4298.3	4274.9	4273.1	4216.2	4178.3	4085.3	4000.5
57.5°	4439.1	4526.6	4610.5	4759.5	4764.8	4817.2	4844.3	4871.4	4878.6	4841.6	4813.6
60°	4751.3	4930.0	5088.8	5400.2	5481.4	5609.5	5692.6	5782.8	5859.5	5865.8	5864.0
62.5°	4971.5	5246.8	5503.1	5965.1	6123.0	6271.0	6382.0	6469.6	6522.8	6576.9	6602.2
63°	4977.9	5279.3	5551.8	6028.3	6194.3	6335.1	6440.7	6521.9	6577.9	6610.3	6626.6
65°	4825.3	5190.8	5515.7	5990.4	6146.5	6288.2	6343.2	6396.5	6423.6	6436.2	6388.3
67.5°	4089.9	4447.2	4826.2	5356.9	5490.4	5660.1	5705.2	5732.3	5744.9	5742.2	5701.6
70°	3058.3	3358.0	3779.4	4385.8	4562.7	4728.8	4831.6	4875.9	4890.3	4885.8	4825.3
72.5°	2135.2	2311.1	2658.6	3333.6	3574.6	3787.5	3914.8	3980.6	3994.2	3967.1	3911.1
75°	1793.1	1802.2	1880.7	2249.7	2475.4	2702.8	2846.3	2887.8	2860.7	2778.6	2636.0
77.5°	1600.9	1620.8	1620.8	1675.8	1720.0	1783.2	1796.8	1695.7	1578.4	1426.7	1304.0
80°	1342.8	1412.3	1461.1	1501.7	1506.2	1493.5	1460.1	1403.3	1313.0	1197.5	1069.4
82.5°	815.8	953.0	1008.9	1218.3	1321.1	1390.6	1385.3	1309.4	1240.9	1120.8	1011.6
85°	205.8	222.0	241.0	313.1	351.1	428.7	477.4	499.9	508.1	466.6	422.4
87.5°	19.8	13.5	22.6	17.2	24.4	18.0	24.4	22.6	27.9	29.8	32.5
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°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	210.3	209.3	208.5	207.6	206.7	205.8	204.0	204.0	202.2	201.2	200.4
5°	233.7	231.9	231.0	229.2	226.5	224.7	222.0	218.4	215.7	214.8	213.0
7.5°	263.5	259.0	257.2	254.5	250.9	245.5	241.8	239.2	234.7	231.9	226.5
10°	296.9	292.4	287.0	281.6	276.1	269.8	265.3	261.7	254.5	250.9	244.6
12.5°	339.3	331.2	324.9	317.7	310.4	303.2	297.8	287.0	280.6	272.5	267.1
15°	382.6	375.4	368.2	359.2	348.3	336.6	331.2	321.2	313.1	300.5	293.3
17.5°	435.0	421.4	410.6	399.8	389.9	379.0	368.2	352.9	341.1	330.3	315.9
20°	486.4	470.2	458.4	444.0	429.6	412.4	399.8	388.9	372.7	358.3	342.9
22.5°	541.4	525.2	506.3	491.8	472.0	458.4	441.3	423.2	407.0	388.0	369.1
25°	608.2	591.1	569.4	550.5	527.9	509.0	488.2	467.5	447.6	426.0	401.6
27.5°	690.4	672.3	648.8	626.3	596.5	573.1	553.2	525.2	499.9	472.9	444.9
30°	794.1	774.3	745.4	712.9	683.1	657.0	629.0	592.0	564.0	531.5	495.5
32.5°	929.5	906.0	867.2	836.5	799.5	765.2	726.4	689.5	649.8	607.4	565.8
35°	1100.1	1078.4	1033.3	988.2	947.6	907.0	858.2	815.8	759.9	708.4	655.1
37.5°	1277.0	1238.1	1196.6	1147.9	1097.3	1048.6	989.0	930.4	866.3	810.4	743.6
40°	1479.1	1432.2	1397.9	1345.5	1274.2	1204.7	1149.7	1076.6	996.3	921.4	842.9
42.5°	1756.2	1703.8	1642.4	1563.0	1511.6	1430.4	1359.1	1272.4	1166.8	1082.9	988.2
45°	2076.5	2005.2	1945.7	1868.9	1806.7	1705.6	1622.6	1507.1	1401.5	1291.4	1175.9
47.5°	2442.0	2353.5	2266.9	2191.1	2091.9	1992.6	1887.0	1764.3	1628.9	1508.0	1370.8
50°	2861.6	2736.2	2616.1	2518.7	2382.4	2267.8	2153.2	2015.1	1865.3	1726.3	1570.2
52.5°	3328.2	3182.9	3024.1	2874.3	2716.3	2569.2	2431.1	2272.3	2105.4	1935.7	1761.6
55°	3891.3	3782.1	3595.3	3404.9	3193.7	2997.0	2819.2	2622.5	2419.4	2196.5	2013.3
57.5°	4773.0	4719.7	4563.6	4373.2	4098.0	3858.8	3557.4	3316.4	3022.3	2715.4	2479.0
60°	5967.8	5901.9	5814.4	5660.1	5441.7	5116.8	4784.7	4410.2	3962.6	3537.6	3134.2
62.5°	6604.9	6581.4	6510.2	6403.7	6199.7	5943.4	5608.7	5197.1	4691.8	4175.6	3661.2
63°	6623.9	6594.1	6532.7	6424.4	6244.9	5996.7	5668.2	5268.4	4773.9	4247.8	3722.5
65°	6367.6	6355.9	6293.6	6175.4	6052.7	5863.1	5608.7	5264.8	4849.7	4352.5	3829.9
67.5°	5647.5	5612.2	5516.6	5480.5	5394.8	5263.0	5069.0	4832.5	4535.7	4144.9	3693.6
70°	4776.6	4724.2	4604.2	4540.2	4435.5	4352.5	4234.3	4065.5	3882.3	3609.7	3273.2
72.5°	3853.4	3745.1	3635.0	3468.1	3321.9	3173.9	3043.0	2923.9	2722.6	2612.5	2357.2
75°	2502.4	2305.7	2117.1	1864.4	1637.0	1435.8	1239.9	1140.7	934.0	850.1	730.1
77.5°	1187.6	1077.5	929.5	814.9	668.7	546.0	445.8	334.8	262.6	205.8	157.0
80°	958.4	865.4	776.1	672.3	562.2	448.5	343.8	257.2	182.3	126.3	89.3
82.5°	854.6	753.5	643.4	572.1	497.3	407.0	333.9	272.5	201.2	147.1	100.2
85°	332.1	279.8	215.7	176.0	137.2	112.8	102.0	70.4	55.1	43.3	33.4
87.5°	28.9	23.5	19.0	12.7	13.5	7.2	8.1	5.4	4.5	4.5	3.6
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	199.4	198.5	197.6	195.8	195.8	194.1	193.1	192.2	187.7	177.8	169.7
5°	209.3	207.6	205.8	203.0	201.2	198.5	196.7	194.1	184.1	165.2	148.9
7.5°	223.8	220.2	217.5	212.1	209.3	205.8	203.0	198.5	182.3	153.4	130.9
10°	241.0	234.7	230.1	223.8	218.4	213.9	209.3	203.0	180.5	140.8	114.6
12.5°	261.7	254.5	245.5	238.2	231.0	224.7	218.4	210.3	177.8	129.9	102.0
15°	282.4	271.6	265.3	255.4	245.5	236.4	227.4	220.2	178.7	118.2	91.1
17.5°	305.9	295.1	281.6	270.7	259.9	248.2	237.3	222.9	174.2	109.2	83.0
20°	328.5	313.1	300.5	287.0	271.6	257.2	243.6	231.0	170.5	100.2	75.8
22.5°	352.9	334.8	318.6	301.4	282.4	266.2	249.9	233.7	164.2	92.1	69.5
25°	382.6	361.9	338.4	317.7	297.8	278.0	257.2	237.3	157.9	84.8	65.0
27.5°	418.7	391.7	368.2	342.0	314.1	288.8	266.2	244.6	151.6	79.4	60.4
30°	464.8	433.1	399.8	366.4	336.6	307.7	276.1	249.1	145.3	74.0	56.0
32.5°	526.1	486.4	445.8	407.0	367.3	330.3	296.9	261.7	141.7	69.5	51.5
35°	607.4	555.9	506.3	457.5	409.7	364.6	321.2	281.6	141.7	64.1	46.0
37.5°	684.0	624.5	561.3	500.8	444.0	391.7	340.2	292.4	134.5	59.6	41.5
40°	767.0	695.8	621.8	550.5	481.9	416.9	358.3	303.2	128.1	54.1	37.0
42.5°	894.3	804.1	707.5	624.5	542.4	462.0	388.9	324.0	120.0	48.7	32.5
45°	1061.3	946.6	833.0	731.9	627.2	528.8	442.2	361.9	118.2	44.2	27.9
47.5°	1239.9	1104.6	971.0	842.0	719.3	604.6	500.8	404.3	118.2	39.7	24.4
50°	1417.7	1248.1	1105.5	955.7	817.6	682.2	558.6	448.5	119.1	36.1	19.8
52.5°	1578.4	1397.0	1237.2	1064.0	911.5	754.4	620.0	491.8	117.3	31.6	16.2
55°	1801.3	1588.3	1403.3	1212.0	1033.3	856.4	703.9	556.8	118.2	27.9	13.5
57.5°	2211.9	1961.9	1739.0	1488.1	1282.3	1054.0	869.0	690.4	129.1	23.5	9.9
60°	2801.2	2476.3	2163.2	1857.2	1595.5	1323.9	1083.8	873.6	151.6	19.0	7.2
62.5°	3197.3	2772.3	2398.7	2061.2	1757.0	1472.8	1211.0	971.9	166.9	15.3	4.5
63°	3237.9	2798.5	2423.0	2074.7	1764.3	1480.0	1216.5	979.1	167.9	14.4	4.5
65°	3314.6	2843.6	2436.6	2077.4	1757.0	1470.1	1212.9	978.3	169.7	11.7	3.6
67.5°	3227.1	2774.1	2358.1	1999.8	1693.8	1411.4	1167.8	942.1	168.7	8.1	2.7
70°	2886.0	2510.6	2145.1	1811.2	1533.2	1277.9	1063.1	859.1	155.2	5.4	1.8
72.5°	2118.9	1863.5	1580.2	1339.2	1155.1	959.3	818.5	645.2	120.0	3.6	0.9
75°	628.1	572.1	481.0	424.2	374.5	309.5	275.3	214.8	61.4	1.8	0.0
77.5°	125.4	113.7	102.0	92.9	87.5	74.9	71.3	58.6	25.3	0.9	0.0
80°	65.9	54.1	46.0	40.6	35.2	28.9	24.4	19.8	4.5	0.0	0.0
82.5°	63.2	42.4	30.7	25.3	21.6	17.2	13.5	9.9	2.7	0.0	0.0
85°	23.5	18.0	13.5	10.9	9.0	8.1	6.3	5.4	0.0	0.0	0.0
87.5°	3.6	2.7	2.7	1.8	1.8	0.9	0.9	0.9	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°	190.4	190.4	190.4	190.4	190.4	190.4	190.4
2.5°	161.6	154.3	150.7	146.2	146.2	145.3	147.1
5°	134.5	124.6	117.3	111.9	112.8	110.1	111.0
7.5°	113.7	103.8	97.4	93.9	92.9	92.1	92.1
10°	98.4	89.3	83.9	81.2	80.3	80.3	80.3
12.5°	87.5	78.5	74.0	72.2	72.2	71.3	71.3
15°	78.5	71.3	66.8	65.0	65.0	64.1	65.0
17.5°	71.3	64.1	60.4	58.6	58.6	57.8	57.8
20°	65.0	58.6	55.1	52.3	52.3	51.5	52.3
22.5°	59.6	53.3	48.7	46.9	46.0	45.1	46.0
25°	54.1	47.8	43.3	40.6	39.7	39.7	38.8
27.5°	49.6	43.3	37.9	35.2	34.3	34.3	33.4
30°	45.1	37.9	32.5	29.8	28.9	28.9	28.9
32.5°	40.6	32.5	27.9	25.3	24.4	24.4	24.4
35°	36.1	27.9	23.5	20.8	19.8	19.8	19.8
37.5°	30.7	23.5	18.0	16.2	15.3	14.4	14.4
40°	26.2	18.0	13.5	11.7	9.9	9.9	9.9
42.5°	21.6	14.4	9.9	7.2	6.3	5.4	6.3
45°	18.0	10.9	6.3	3.6	2.7	2.7	2.7
47.5°	14.4	7.2	2.7	0.9	0.9	0.9	0.9
50°	10.9	4.5	0.9	0.0	0.0	0.9	0.9
52.5°	8.1	2.7	0.0	0.0	0.0	0.0	0.0
55°	4.5	0.9	0.0	0.0	0.0	0.0	0.0
57.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.9	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)