

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: P164926

Luminaire Tested: **VTS-E04-LED-E1-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P164926
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-E04-LED-E1-SL2-HSS-7030
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6618.7 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

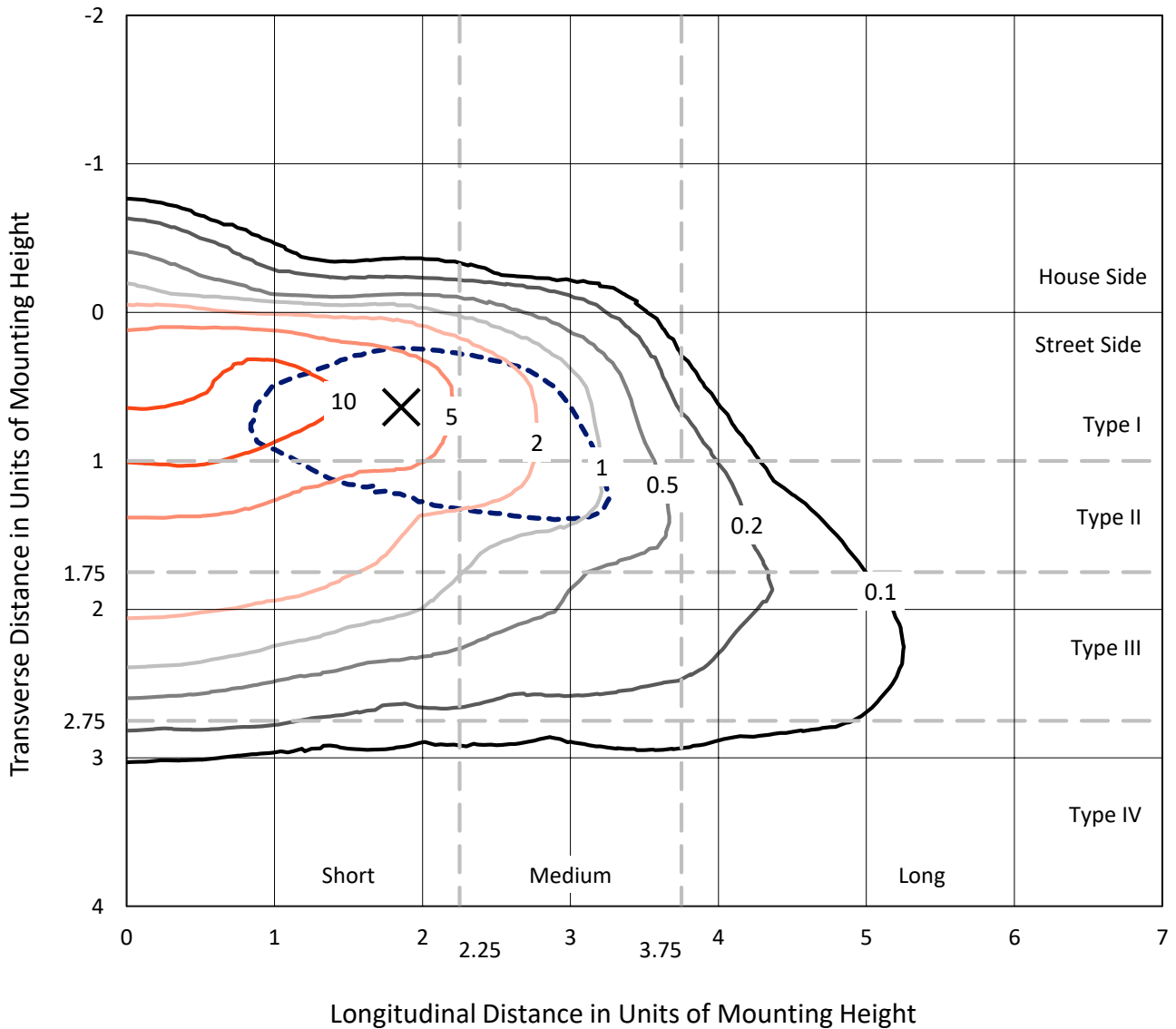
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

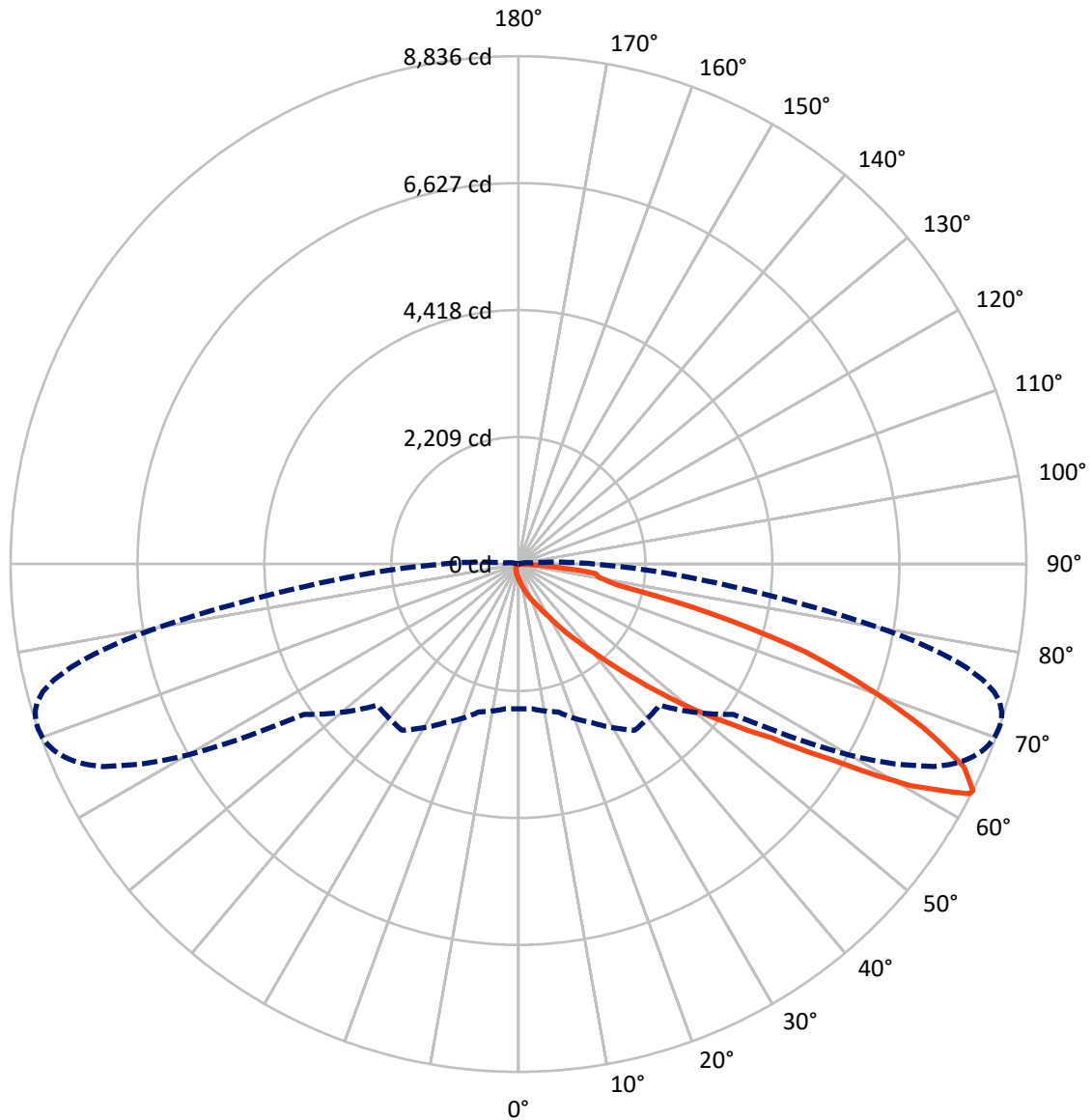
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 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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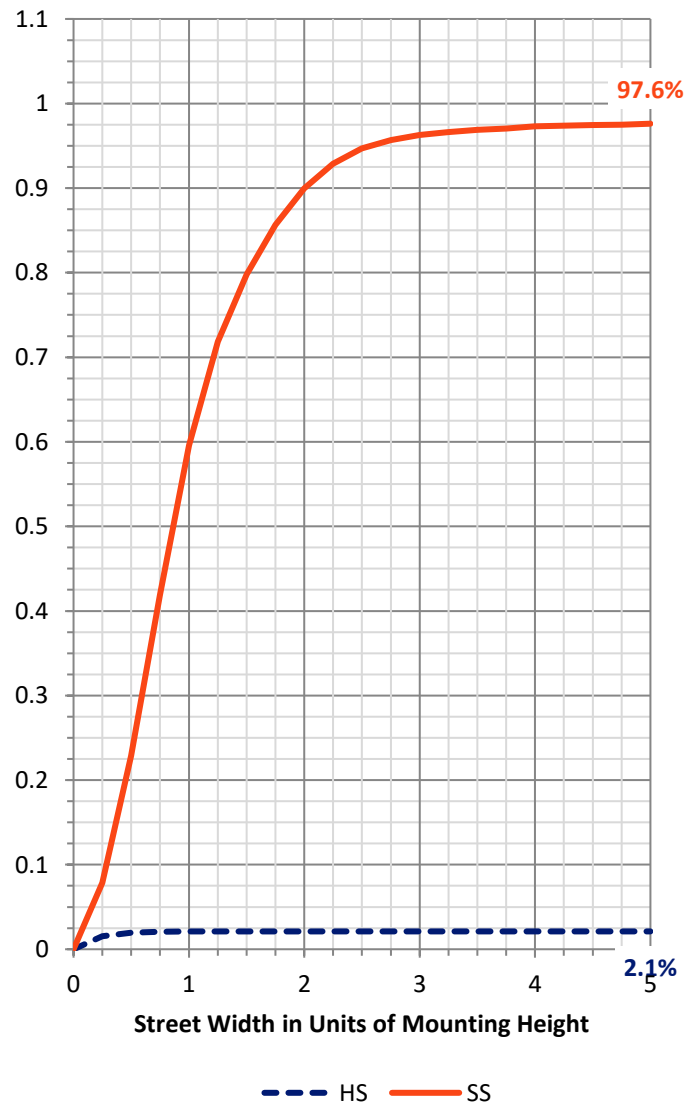
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	140.5	0.0	140.5
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	6478.2	0.0	6478.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	6618.7	0.0	6618.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	0.4
10°-20°	108.8	1.6
20°-30°	221.0	3.3
30°-40°	540.1	8.2
40°-50°	1207.8	18.2
50°-60°	1698.3	25.7
60°-70°	1997.1	30.2
70°-80°	721.1	10.9
80°-90°	96.4	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°	6618.7	100.0
0°-180°	6618.7	100.0



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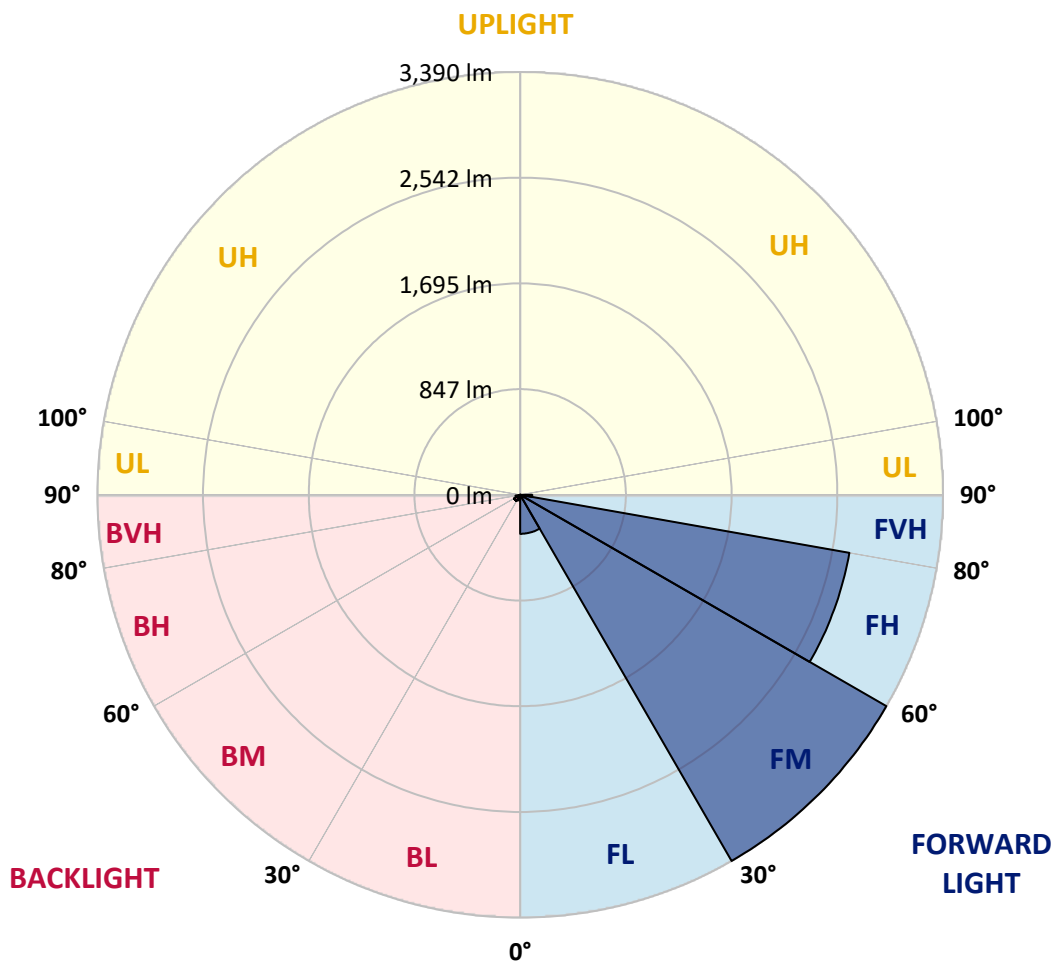
CATALOG NUMBER: VTS-E04-LED-E1-SL2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.8	4.7			
FM	(30°-60°)	3389.6	51.2			
FH	(60°-80°)	2679.7	40.5			G2/5000
FVH	(80°-90°)	96.2	1.5			G1/100
BL	(0°-30°)	45.2	0.7	B0/110		
BM	(30°-60°)	56.6	0.9	B0/220		
BH	(60°-80°)	38.5	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°	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9
2.5°	332.1	335.7	333.3	327.3	320.0	310.5	302.0	302.0	300.8	297.2	298.4
5°	435.6	436.8	432.0	417.5	404.3	383.8	361.0	358.5	356.1	352.6	351.4
7.5°	536.7	541.4	536.7	521.0	494.5	463.3	427.2	423.6	416.3	416.3	411.5
10°	640.1	640.1	635.3	617.3	593.2	548.7	502.9	496.9	488.5	486.1	478.9
12.5°	713.5	713.5	711.1	701.5	682.2	642.6	587.2	581.2	570.4	566.7	558.3
15°	742.4	742.4	743.6	752.0	753.3	735.2	677.4	672.6	661.8	652.1	648.6
17.5°	760.4	759.2	759.2	771.3	792.9	805.0	767.7	762.8	750.8	746.0	734.0
20°	800.2	797.8	790.5	790.5	811.0	853.1	853.1	851.9	838.7	835.0	829.0
22.5°	859.1	856.7	835.0	817.0	826.6	879.6	928.9	926.5	921.7	916.9	913.3
25°	955.4	947.0	909.6	856.7	848.3	904.9	986.6	992.7	996.3	996.3	998.7
27.5°	1101.0	1090.2	1024.0	925.3	888.0	945.7	1050.4	1062.5	1073.3	1075.7	1086.5
30°	1303.1	1283.9	1188.8	1044.4	959.0	1005.9	1144.3	1157.5	1173.2	1178.0	1194.8
32.5°	1635.2	1624.4	1533.0	1316.3	1133.4	1123.9	1275.5	1292.3	1312.7	1321.1	1341.6
35°	2140.6	2143.0	2068.4	1873.5	1620.8	1488.4	1510.1	1524.5	1531.7	1557.0	1567.8
37.5°	2483.5	2489.5	2506.4	2429.4	2248.9	2114.1	1944.4	1960.1	1922.8	1926.4	1927.6
40°	2671.2	2690.4	2789.2	2863.8	2849.3	2771.1	2635.1	2643.5	2573.7	2558.1	2482.3
42.5°	2796.3	2821.6	2979.3	3210.2	3328.2	3399.2	3367.9	3364.3	3310.1	3289.7	3225.9
45°	2874.6	2897.4	3096.0	3436.5	3708.4	3915.4	4000.8	4010.4	3964.7	3944.2	3891.3
47.5°	2870.9	2897.4	3110.4	3520.7	3921.4	4252.3	4493.0	4504.9	4532.6	4514.6	4518.2
50°	2712.1	2737.4	2951.6	3377.5	3858.8	4406.3	4846.7	4885.2	4929.7	4959.8	4974.3
52.5°	2519.6	2537.7	2727.8	3132.1	3591.7	4342.5	5056.0	5122.2	5188.4	5245.0	5284.6
55°	2448.6	2469.0	2618.2	2954.0	3377.5	4075.4	5153.5	5251.0	5344.9	5437.5	5513.3
57.5°	2485.9	2505.1	2612.3	2869.7	3250.0	3793.8	5181.2	5332.8	5486.8	5637.2	5786.4
60°	2623.1	2643.5	2735.0	2947.9	3216.3	3631.4	5072.9	5324.4	5580.6	5843.0	6089.6
62.5°	2568.9	2577.3	2712.1	3085.2	3456.9	3493.0	4679.4	5030.8	5421.9	5826.2	6224.4
63°	2517.2	2526.8	2664.0	3047.8	3530.4	3472.6	4557.9	4928.5	5341.2	5776.8	6210.0
65°	2282.6	2283.7	2388.4	2691.7	3448.5	3508.7	4016.5	4370.2	4844.3	5366.5	5914.0
67.5°	1703.8	1695.4	1796.5	2027.5	2707.3	3509.9	3447.3	3645.9	3975.6	4438.8	4929.7
70°	604.1	590.8	754.4	1074.5	1686.9	2870.9	2962.4	2975.6	3067.1	3317.4	3625.4
72.5°	196.1	199.8	240.6	393.5	777.3	1932.4	2682.0	2641.1	2617.1	2615.8	2656.8
75°	78.2	79.4	96.2	174.5	349.0	931.3	2348.8	2371.6	2380.0	2392.0	2405.3
77.5°	37.3	40.9	54.1	97.5	173.2	460.8	1680.9	1874.6	1985.3	2070.8	2122.6
80°	13.2	15.6	30.1	60.1	80.6	211.8	885.6	1068.5	1230.9	1440.3	1620.8
82.5°	0.0	0.0	6.0	42.1	44.5	85.4	363.4	425.9	487.3	631.7	811.0
85°	0.0	0.0	0.0	12.1	13.2	14.5	122.8	148.0	166.1	193.7	223.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.6	7.2	18.0	27.7
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9
2.5°	296.0	294.8	294.8	292.4	291.2	288.8	287.6	283.9	282.8	282.8	282.8
5°	350.1	345.3	342.9	336.9	333.3	332.1	326.1	323.7	320.0	321.3	315.2
7.5°	410.3	401.9	398.3	389.8	387.5	379.0	376.6	370.6	367.0	359.8	357.4
10°	476.5	465.7	459.7	446.4	442.8	436.8	429.6	422.3	416.3	409.1	405.5
12.5°	552.3	542.7	537.9	519.8	511.4	502.9	493.4	483.7	474.1	468.1	459.7
15°	641.3	625.7	620.9	604.1	589.6	578.8	565.5	553.5	546.3	534.3	525.8
17.5°	729.1	713.5	709.9	684.6	669.0	661.8	647.4	631.7	618.4	606.5	593.2
20°	817.0	806.2	796.5	772.5	755.7	743.6	724.3	708.7	697.9	681.1	664.2
22.5°	904.9	894.0	886.8	861.5	845.9	829.0	812.2	795.3	779.7	759.2	740.0
25°	995.1	987.9	984.2	961.4	947.0	931.3	914.4	895.2	875.9	853.1	832.7
27.5°	1088.9	1091.3	1084.1	1079.3	1063.7	1052.8	1026.4	1013.2	998.7	971.0	945.7
30°	1208.0	1215.3	1212.9	1216.5	1206.9	1199.6	1179.2	1162.4	1145.5	1119.0	1090.2
32.5°	1358.5	1368.1	1372.9	1386.2	1381.4	1378.9	1372.9	1348.8	1336.8	1291.1	1279.1
35°	1590.7	1585.9	1606.3	1617.1	1612.3	1610.0	1602.7	1589.5	1575.1	1542.5	1512.5
37.5°	1892.7	1897.5	1904.7	1883.1	1868.6	1867.5	1845.8	1832.5	1812.1	1776.0	1739.9
40°	2446.2	2416.1	2382.5	2291.0	2251.3	2228.4	2164.6	2146.6	2111.7	2062.3	2025.1
42.5°	3165.7	3135.6	3034.6	2881.8	2800.0	2686.9	2635.1	2571.3	2522.0	2441.4	2398.1
45°	3880.5	3793.8	3781.8	3603.7	3502.7	3353.5	3260.8	3153.7	3041.8	2935.9	2858.9
47.5°	4483.3	4464.0	4405.1	4296.8	4202.9	4077.8	3958.7	3793.8	3678.3	3527.9	3389.6
50°	4965.8	4964.6	4942.9	4880.4	4802.2	4701.1	4596.4	4456.9	4325.7	4141.6	3993.6
52.5°	5326.8	5346.0	5353.3	5334.0	5303.9	5214.9	5162.0	5045.2	4934.5	4778.1	4618.0
55°	5591.5	5662.5	5698.6	5739.5	5731.1	5699.8	5697.4	5621.6	5571.1	5447.1	5334.0
57.5°	5918.8	6035.5	6147.4	6346.0	6353.1	6423.0	6459.1	6495.2	6504.7	6455.4	6418.1
60°	6335.1	6573.3	6785.1	7200.3	7308.6	7479.4	7590.1	7710.4	7812.7	7821.1	7818.7
62.5°	6628.7	6995.7	7337.4	7953.5	8164.0	8361.4	8509.4	8626.1	8697.1	8769.3	8802.9
63°	6637.1	7039.0	7402.4	8037.7	8259.1	8446.8	8587.6	8695.9	8770.5	8813.8	8835.5
65°	6433.8	6921.1	7354.2	7987.1	8195.3	8384.3	8457.6	8528.6	8564.7	8581.5	8517.8
67.5°	5453.1	5929.6	6435.0	7142.5	7320.5	7546.8	7607.0	7643.1	7659.9	7656.3	7602.1
70°	4077.8	4477.3	5039.2	5847.8	6083.6	6305.0	6442.2	6501.2	6520.4	6514.4	6433.8
72.5°	2846.9	3081.5	3544.7	4444.8	4766.1	5050.0	5219.7	5307.5	5325.6	5289.5	5214.9
75°	2390.9	2402.9	2507.5	2999.7	3300.5	3603.7	3795.0	3850.4	3814.3	3704.8	3514.7
77.5°	2134.5	2161.1	2161.1	2234.4	2293.4	2377.6	2395.7	2260.9	2104.5	1902.3	1738.7
80°	1790.5	1883.1	1948.1	2002.2	2008.2	1991.4	1946.8	1871.1	1750.7	1596.7	1425.8
82.5°	1087.8	1270.7	1345.3	1624.4	1761.5	1854.2	1847.0	1745.9	1654.5	1494.5	1348.8
85°	274.4	296.0	321.3	417.5	468.1	571.5	636.5	666.6	677.4	622.1	563.1
87.5°	26.5	18.0	30.1	22.9	32.5	24.0	32.5	30.1	37.3	39.7	43.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9
2.5°	280.4	279.1	278.0	276.8	275.5	274.4	272.0	272.0	269.5	268.3	267.1
5°	311.6	309.2	308.1	305.6	302.0	299.6	296.0	291.2	287.6	286.4	283.9
7.5°	351.4	345.3	342.9	339.3	334.5	327.3	322.4	318.9	312.9	309.2	302.0
10°	395.9	389.8	382.7	375.4	368.2	359.8	353.7	349.0	339.3	334.5	326.1
12.5°	452.4	441.6	433.1	423.6	413.9	404.3	397.1	382.7	374.2	363.4	356.1
15°	510.2	500.5	490.9	478.9	464.4	448.8	441.6	428.3	417.5	400.7	391.1
17.5°	579.9	561.9	547.5	533.0	519.8	505.3	490.9	470.5	454.8	440.4	421.2
20°	648.6	626.9	611.2	592.0	572.8	549.9	533.0	518.6	496.9	477.7	457.3
22.5°	721.9	700.3	675.0	655.8	629.3	611.2	588.4	564.3	542.7	517.4	492.1
25°	811.0	788.1	759.2	734.0	703.9	678.7	651.0	623.3	596.8	568.0	535.4
27.5°	920.5	896.4	865.1	835.0	795.3	764.1	737.6	700.3	666.6	630.5	593.2
30°	1058.8	1032.4	993.9	950.5	910.9	875.9	838.7	789.4	752.0	708.7	660.6
32.5°	1239.4	1208.0	1156.3	1115.4	1066.1	1020.3	968.6	919.3	866.4	809.8	754.4
35°	1466.8	1437.9	1377.7	1317.6	1263.4	1209.3	1144.3	1087.8	1013.2	944.6	873.5
37.5°	1702.6	1650.8	1595.5	1530.6	1463.1	1398.2	1318.7	1240.5	1155.1	1080.5	991.5
40°	1972.1	1909.6	1863.8	1794.0	1699.0	1606.3	1533.0	1435.5	1328.4	1228.5	1123.9
42.5°	2341.5	2271.8	2189.9	2084.0	2015.4	1907.1	1812.1	1696.6	1555.8	1443.9	1317.6
45°	2768.7	2673.6	2594.2	2491.9	2408.9	2274.2	2163.5	2009.4	1868.6	1721.8	1567.8
47.5°	3256.0	3138.1	3022.5	2921.5	2789.2	2656.8	2516.0	2352.4	2171.9	2010.6	1827.7
50°	3815.5	3648.2	3488.2	3358.3	3176.6	3023.8	2870.9	2686.9	2487.1	2301.8	2093.6
52.5°	4437.6	4243.9	4032.1	3832.3	3621.8	3425.6	3241.5	3029.8	2807.2	2581.0	2348.8
55°	5188.4	5042.8	4793.8	4539.9	4258.3	3996.0	3758.9	3496.7	3225.9	2928.7	2684.4
57.5°	6364.0	6293.0	6084.8	5831.0	5464.0	5145.1	4743.2	4421.9	4029.7	3620.6	3305.3
60°	7957.1	7869.2	7752.5	7546.8	7255.6	6822.4	6379.6	5880.3	5283.5	4716.8	4178.9
62.5°	8806.6	8775.3	8680.3	8538.2	8266.3	7924.6	7478.2	6929.5	6255.7	5567.4	4881.6
63°	8831.8	8792.1	8710.3	8565.9	8326.5	7995.6	7557.6	7024.5	6365.2	5663.7	4963.4
65°	8490.1	8474.5	8391.4	8233.8	8070.2	7817.5	7478.2	7019.7	6466.2	5803.3	5106.6
67.5°	7530.0	7483.0	7355.5	7307.3	7193.0	7017.3	6758.6	6443.4	6047.5	5526.5	4924.9
70°	6368.8	6299.0	6139.0	6053.5	5914.0	5803.3	5645.7	5420.6	5176.4	4813.0	4364.2
72.5°	5137.9	4993.5	4846.7	4624.1	4429.2	4231.8	4057.3	3898.5	3630.2	3483.4	3142.9
75°	3336.6	3074.3	2822.8	2485.9	2182.7	1914.4	1653.2	1520.9	1245.4	1133.4	973.4
77.5°	1583.5	1436.7	1239.4	1086.5	891.6	728.0	594.4	446.4	350.1	274.4	209.3
80°	1277.8	1153.9	1034.8	896.4	749.6	598.0	458.4	342.9	243.0	168.4	119.1
82.5°	1139.5	1004.7	857.9	762.8	663.0	542.7	445.2	363.4	268.3	196.1	133.6
85°	442.8	373.0	287.6	234.6	182.9	150.4	136.0	93.8	73.4	57.7	44.5
87.5°	38.5	31.3	25.3	16.9	18.0	9.6	10.8	7.2	6.0	6.0	4.8
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9	253.9
2.5°	265.9	264.7	263.5	261.1	261.1	258.7	257.5	256.3	250.3	237.0	226.2
5°	279.1	276.8	274.4	270.7	268.3	264.7	262.3	258.7	245.4	220.2	198.5
7.5°	298.4	293.6	290.0	282.8	279.1	274.4	270.7	264.7	243.0	204.5	174.5
10°	321.3	312.9	306.8	298.4	291.2	285.2	279.1	270.7	240.6	187.7	152.8
12.5°	349.0	339.3	327.3	317.6	308.1	299.6	291.2	280.4	237.0	173.2	136.0
15°	376.6	362.2	353.7	340.5	327.3	315.2	303.2	293.6	238.3	157.6	121.5
17.5°	407.9	393.5	375.4	361.0	346.6	330.9	316.5	297.2	232.2	145.6	110.7
20°	438.0	417.5	400.7	382.7	362.2	342.9	324.9	308.1	227.4	133.6	101.1
22.5°	470.5	446.4	424.7	401.9	376.6	355.0	333.3	311.6	219.0	122.8	92.7
25°	510.2	482.5	451.2	423.6	397.1	370.6	342.9	316.5	210.6	113.1	86.7
27.5°	558.3	522.2	490.9	456.0	418.8	385.1	355.0	326.1	202.2	105.9	80.6
30°	619.7	577.5	533.0	488.5	448.8	410.3	368.2	332.1	193.7	98.6	74.6
32.5°	701.5	648.6	594.4	542.7	489.7	440.4	395.9	349.0	188.9	92.7	68.6
35°	809.8	741.2	675.0	610.0	546.3	486.1	428.3	375.4	188.9	85.4	61.4
37.5°	912.0	832.7	748.4	667.8	592.0	522.2	453.6	389.8	179.3	79.4	55.4
40°	1022.7	927.7	829.0	734.0	642.6	555.9	477.7	404.3	170.8	72.2	49.3
42.5°	1192.4	1072.1	943.4	832.7	723.2	616.0	518.6	432.0	160.0	65.0	43.3
45°	1415.0	1262.2	1110.6	975.8	836.3	705.1	589.6	482.5	157.6	59.0	37.3
47.5°	1653.2	1472.8	1294.7	1122.6	959.0	806.2	667.8	539.0	157.6	53.0	32.5
50°	1890.3	1664.1	1474.0	1274.2	1090.2	909.6	744.8	598.0	158.8	48.2	26.5
52.5°	2104.5	1862.7	1649.7	1418.6	1215.3	1005.9	826.6	655.8	156.4	42.1	21.6
55°	2401.7	2117.7	1871.1	1616.0	1377.7	1141.9	938.6	742.4	157.6	37.3	18.0
57.5°	2949.2	2615.8	2318.7	1984.2	1709.8	1405.4	1158.7	920.5	172.1	31.3	13.2
60°	3734.9	3301.7	2884.2	2476.3	2127.4	1765.2	1445.1	1164.8	202.2	25.3	9.6
62.5°	4263.1	3696.4	3198.3	2748.2	2342.7	1963.7	1614.7	1295.9	222.6	20.5	6.0
63°	4317.2	3731.3	3230.7	2766.3	2352.4	1973.3	1622.0	1305.5	223.8	19.2	6.0
65°	4419.5	3791.4	3248.8	2769.9	2342.7	1960.1	1617.1	1304.3	226.2	15.6	4.8
67.5°	4302.8	3698.8	3144.1	2666.4	2258.5	1881.9	1557.0	1256.2	225.0	10.8	3.6
70°	3848.0	3347.5	2860.1	2414.9	2044.3	1703.8	1417.4	1145.5	206.9	7.2	2.4
72.5°	2825.2	2484.7	2106.9	1785.6	1540.1	1279.1	1091.3	860.3	160.0	4.8	1.2
75°	837.4	762.8	641.3	565.5	499.3	412.7	367.0	286.4	81.8	2.4	0.0
77.5°	167.3	151.6	136.0	123.9	116.7	99.9	95.1	78.2	33.7	1.2	0.0
80°	87.8	72.2	61.4	54.1	46.9	38.5	32.5	26.5	6.0	0.0	0.0
82.5°	84.2	56.6	40.9	33.7	28.9	22.9	18.0	13.2	3.6	0.0	0.0
85°	31.3	24.0	18.0	14.5	12.1	10.8	8.4	7.2	0.0	0.0	0.0
87.5°	4.8	3.6	3.6	2.4	2.4	1.2	1.2	1.2	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°	253.9	253.9	253.9	253.9	253.9	253.9	253.9
2.5°	215.4	205.8	200.9	194.9	194.9	193.7	196.1
5°	179.3	166.1	156.4	149.2	150.4	146.8	148.0
7.5°	151.6	138.4	129.9	125.2	123.9	122.8	122.8
10°	131.2	119.1	111.9	108.3	107.1	107.1	107.1
12.5°	116.7	104.7	98.6	96.2	96.2	95.1	95.1
15°	104.7	95.1	89.1	86.7	86.7	85.4	86.7
17.5°	95.1	85.4	80.6	78.2	78.2	77.0	77.0
20°	86.7	78.2	73.4	69.8	69.8	68.6	69.8
22.5°	79.4	71.0	65.0	62.5	61.4	60.1	61.4
25°	72.2	63.8	57.7	54.1	53.0	53.0	51.7
27.5°	66.2	57.7	50.6	46.9	45.7	45.7	44.5
30°	60.1	50.6	43.3	39.7	38.5	38.5	38.5
32.5°	54.1	43.3	37.3	33.7	32.5	32.5	32.5
35°	48.2	37.3	31.3	27.7	26.5	26.5	26.5
37.5°	40.9	31.3	24.0	21.6	20.5	19.2	19.2
40°	34.9	24.0	18.0	15.6	13.2	13.2	13.2
42.5°	28.9	19.2	13.2	9.6	8.4	7.2	8.4
45°	24.0	14.5	8.4	4.8	3.6	3.6	3.6
47.5°	19.2	9.6	3.6	1.2	1.2	1.2	1.2
50°	14.5	6.0	1.2	0.0	0.0	1.2	1.2
52.5°	10.8	3.6	0.0	0.0	0.0	0.0	0.0
55°	6.0	1.2	0.0	0.0	0.0	0.0	0.0
57.5°	3.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.2	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)