

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: STREETWORKS

Report Number: P157058

Luminaire Tested: **UTLD-E01-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157058
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33669)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E01-LED-E-U-SL3-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2218.6 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 24.7
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: 28.75 FT



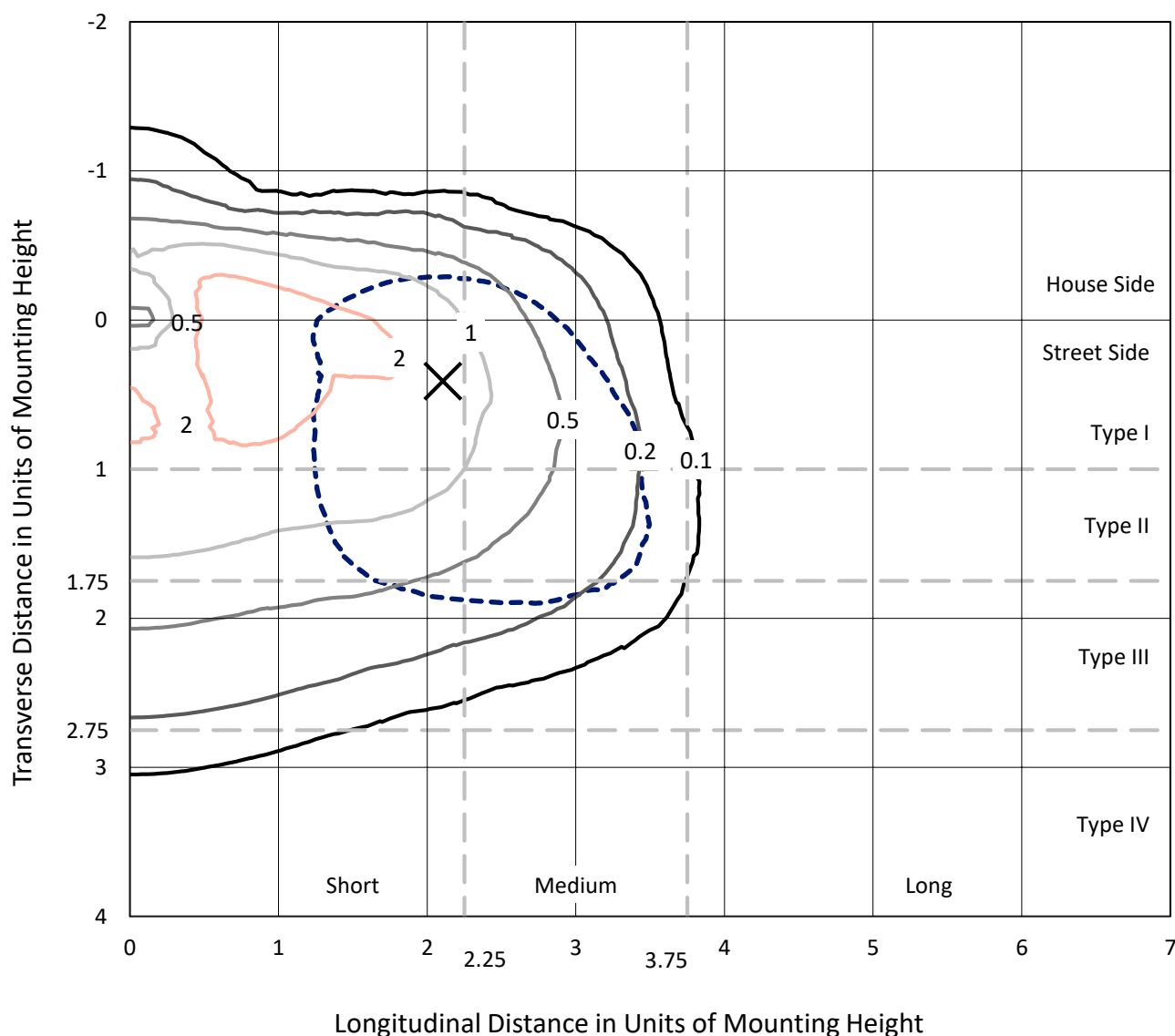
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

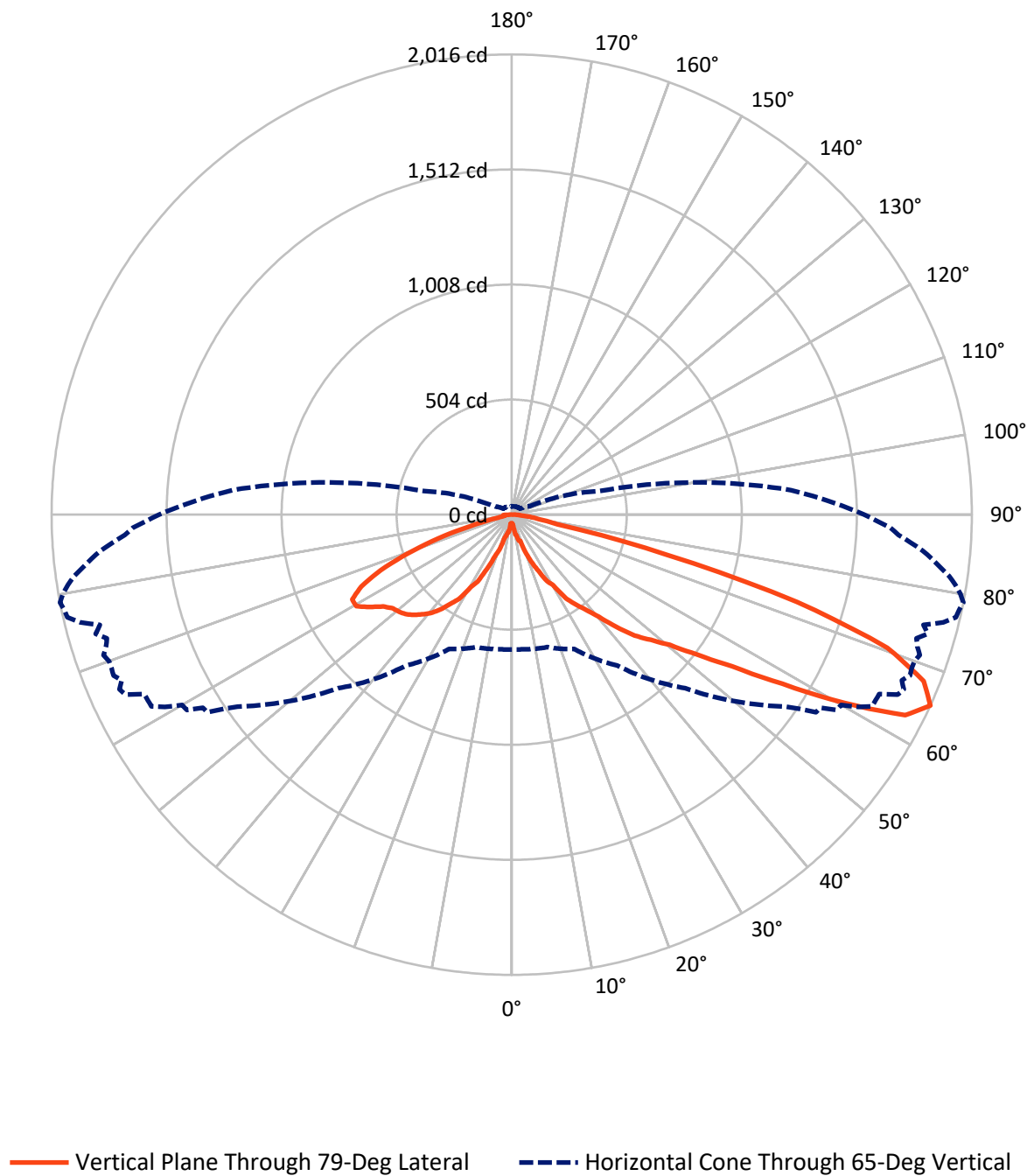


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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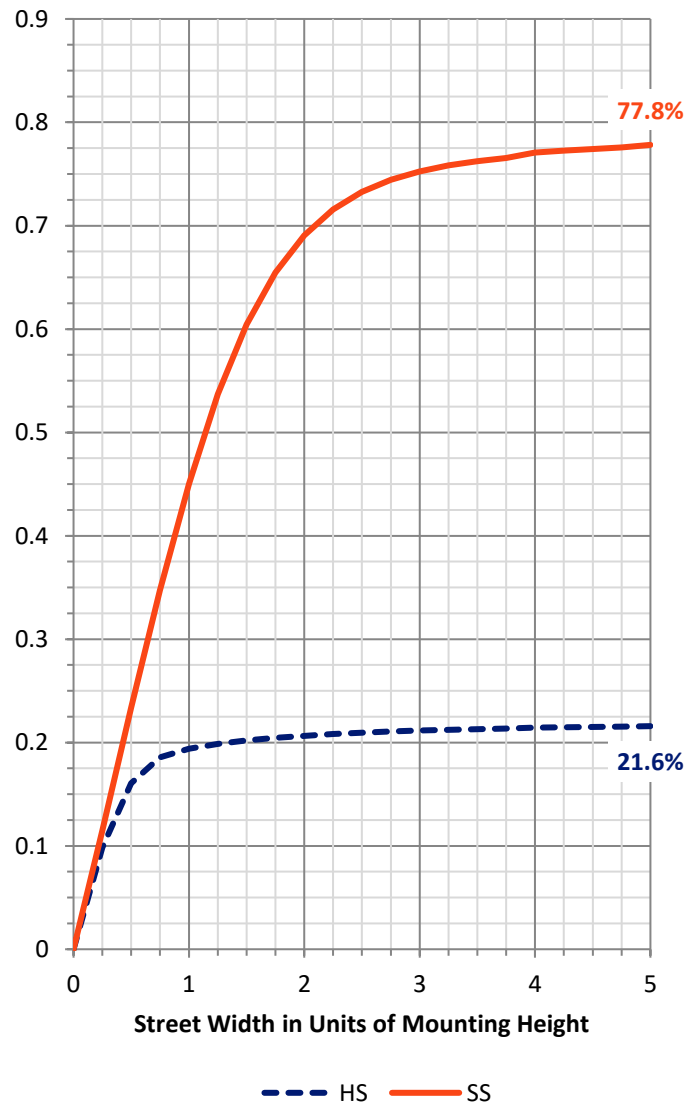
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.4	0.0	485.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	1733.3	0.0	1733.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	2218.6	0.0	2218.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.2
10°-20°	34.0	1.5
20°-30°	104.8	4.7
30°-40°	201.7	9.1
40°-50°	333.3	15.0
50°-60°	501.3	22.6
60°-70°	671.5	30.3
70°-80°	315.6	14.2
80°-90°	51.3	2.3
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°	2218.6	100.0
0°-180°	2218.6	100.0

Coefficient of Utilization



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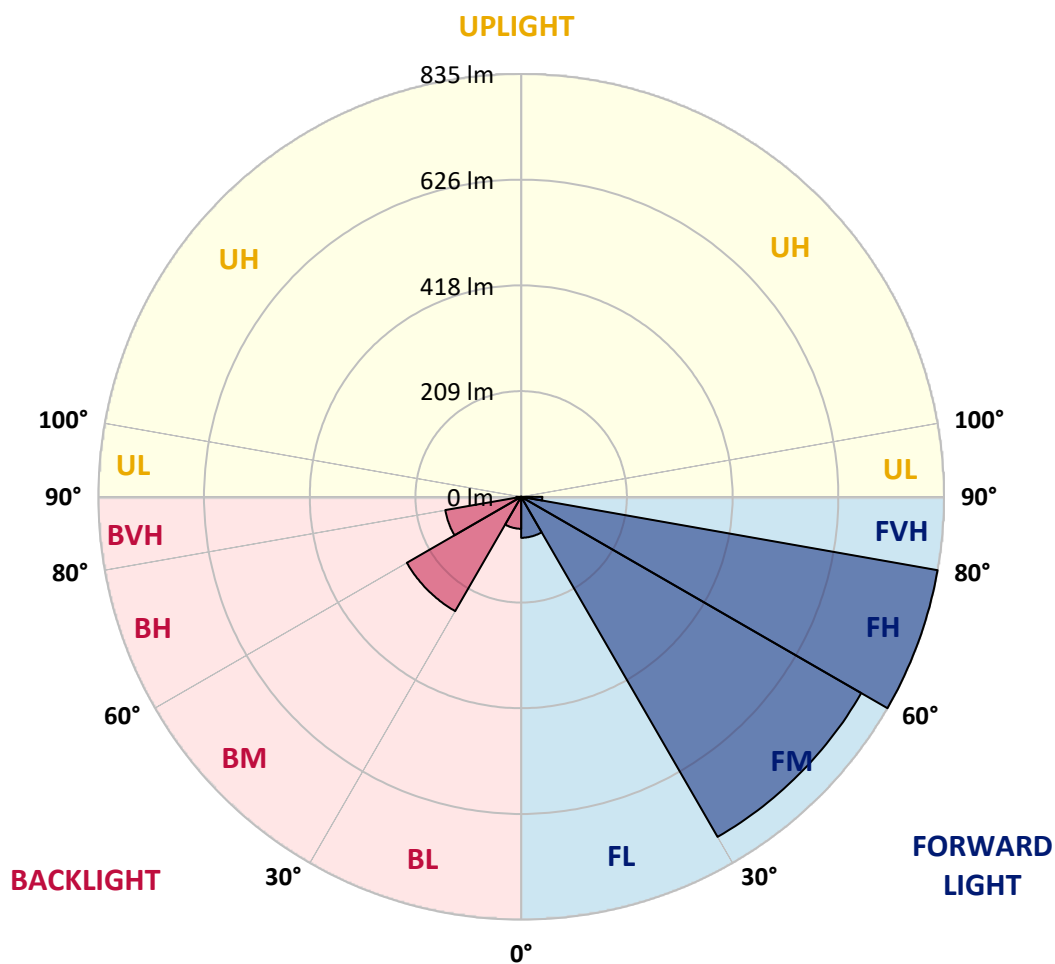
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	80.9	3.6			
FM	(30°-60°)	775.5	35.0			
FH	(60°-80°)	835.0	37.6			G1/1800
FVH	(80°-90°)	41.9	1.9			G1/100
BL	(0°-30°)	63.2	2.8	B0/110		
BM	(30°-60°)	260.8	11.8	B1/1000		
BH	(60°-80°)	152.1	6.9	B1/500		G1/500
BVH	(80°-90°)	9.4	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	63.3	62.9	62.9	63.3	62.5	62.0	54.0	52.3	50.6	49.4	48.1
5°	52.3	52.7	52.3	52.3	53.6	51.9	57.0	57.8	59.9	60.8	62.5
7.5°	84.0	84.4	83.6	82.7	67.9	54.4	52.7	52.7	52.7	54.4	54.0
10°	89.0	89.0	88.2	87.4	84.8	81.0	59.1	59.5	69.6	62.0	73.4
12.5°	124.5	125.3	123.6	117.7	90.7	112.7	113.5	112.3	111.4	108.5	105.9
15°	134.2	137.1	132.1	125.8	146.4	124.5	119.4	118.2	117.3	117.3	124.1
17.5°	185.3	186.1	182.3	170.5	154.9	148.5	146.9	146.0	145.6	145.6	146.4
20°	221.1	223.7	195.4	203.8	188.6	171.8	165.8	165.8	166.3	162.9	158.2
22.5°	243.5	242.6	229.6	234.6	208.0	192.0	206.8	210.6	214.8	216.5	219.0
25°	289.1	288.6	256.2	234.2	227.9	215.6	218.6	222.4	225.3	232.1	244.8
27.5°	294.1	293.7	270.5	260.8	226.2	246.4	276.8	283.2	287.0	287.8	287.0
30°	331.7	330.8	313.1	272.2	258.3	268.4	297.5	303.8	307.2	309.7	309.7
32.5°	370.5	370.5	337.2	286.1	278.1	306.8	349.8	351.9	354.5	354.9	355.7
35°	399.2	390.3	351.9	321.1	308.9	339.3	393.3	394.6	402.2	422.0	427.9
37.5°	414.4	415.2	400.9	363.8	365.0	399.2	483.2	484.9	486.1	491.2	498.4
40°	438.9	443.1	433.0	410.2	420.3	474.3	561.3	566.7	571.4	572.2	586.2
42.5°	463.8	467.1	467.6	474.3	483.2	552.8	636.8	642.3	641.4	647.8	668.9
45°	505.6	510.6	519.1	527.1	546.9	625.4	711.9	720.3	713.6	729.6	743.1
47.5°	559.1	562.9	577.3	598.4	606.4	689.1	790.4	792.5	798.4	815.3	820.4
50°	606.4	611.0	629.2	657.0	666.8	744.8	850.3	851.2	860.9	884.9	875.2
52.5°	642.3	647.3	663.0	706.4	721.6	806.9	896.7	897.2	914.0	936.4	916.6
55°	662.1	667.6	678.1	727.5	757.1	852.9	951.6	954.1	978.2	990.4	975.2
57.5°	663.0	668.0	680.3	723.3	772.3	900.5	1027.6	1040.2	1065.5	1080.7	1080.7
60°	655.4	661.7	673.5	710.6	786.6	953.7	1144.5	1170.6	1211.1	1225.9	1259.2
62.5°	635.5	638.5	645.7	688.3	807.7	1017.4	1312.8	1356.3	1416.2	1425.5	1493.4
65°	590.4	592.1	600.9	649.5	806.9	1075.7	1465.6	1522.6	1589.7	1596.0	1661.0
67.5°	531.3	535.1	541.8	588.3	730.5	1053.3	1478.7	1552.9	1605.3	1607.4	1661.8
70°	439.7	438.0	446.0	479.0	588.7	883.2	1336.9	1406.5	1442.0	1456.7	1493.9
72.5°	288.2	289.1	283.2	303.4	396.7	622.0	1076.9	1154.6	1170.6	1206.5	1225.1
75°	162.0	158.7	165.0	181.9	223.7	374.3	733.0	801.8	835.1	864.7	880.7
77.5°	96.2	94.9	105.5	129.1	180.6	251.1	422.8	457.0	484.5	507.2	536.4
80°	44.7	47.7	46.8	53.2	98.3	214.8	293.7	307.2	319.0	332.1	349.8
82.5°	21.9	24.1	27.9	29.1	34.6	108.5	262.1	275.6	287.0	300.0	317.8
85°	14.3	14.8	20.7	21.1	21.5	32.9	128.3	148.5	156.6	178.5	208.9
87.5°	5.1	7.2	15.2	13.5	13.5	16.0	43.5	47.7	49.8	54.4	60.8
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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	47.7	47.7	46.0	44.3	43.5	43.5	42.2	42.2	41.8	41.4	40.5
5°	62.0	62.9	62.9	62.9	62.5	62.0	61.6	60.8	59.9	58.2	57.0
7.5°	52.7	51.9	51.1	49.4	49.8	51.1	52.3	54.0	56.5	57.8	58.2
10°	74.3	76.4	76.0	76.4	76.0	76.8	76.8	77.6	77.2	77.6	78.5
12.5°	101.7	93.3	85.2	83.6	83.1	82.7	83.6	83.1	85.2	86.5	86.5
15°	127.9	136.7	137.1	141.8	140.9	134.2	127.0	124.9	123.2	123.2	119.0
17.5°	146.9	149.8	150.2	149.0	150.7	150.2	148.1	145.6	142.6	137.1	129.1
20°	175.1	179.3	181.9	184.4	189.5	185.7	184.8	201.7	203.8	205.5	203.8
22.5°	222.4	222.0	220.7	214.0	210.6	210.2	211.4	214.8	214.4	215.6	216.9
25°	250.7	250.2	253.6	265.9	269.2	281.5	278.1	278.1	280.2	282.3	278.9
27.5°	284.8	288.6	293.3	292.9	298.8	297.1	296.7	300.0	300.0	295.8	298.4
30°	311.9	323.7	339.7	344.8	341.4	341.4	346.0	350.7	349.4	349.0	349.8
32.5°	360.8	372.6	362.5	373.9	367.1	378.1	395.4	407.2	411.4	411.0	417.4
35°	439.7	441.8	435.5	440.1	448.2	450.3	452.0	452.0	446.9	455.3	459.1
37.5°	506.8	496.3	505.6	500.1	506.0	512.7	511.9	503.9	501.3	515.3	514.0
40°	592.1	575.2	587.0	584.0	587.4	589.5	580.2	574.8	581.5	585.7	584.9
42.5°	654.9	663.8	664.2	663.0	665.9	666.3	649.5	652.0	660.0	658.7	654.5
45°	722.9	737.6	729.6	741.9	743.1	726.7	722.9	733.9	736.4	732.2	727.1
47.5°	805.6	815.3	801.8	820.4	820.8	802.2	810.7	818.2	819.9	811.5	819.1
50°	876.9	877.8	874.8	889.1	880.7	871.4	890.0	894.2	890.4	879.0	890.8
52.5°	935.6	924.2	936.0	955.8	933.0	934.3	962.1	958.8	947.0	957.9	949.9
55°	999.3	989.2	1017.4	1026.7	1005.6	1025.0	1044.4	1039.8	1026.3	1048.7	1033.0
57.5°	1095.1	1097.6	1122.5	1129.7	1120.8	1163.9	1173.1	1171.9	1172.3	1187.1	1180.3
60°	1267.7	1292.6	1321.3	1343.2	1357.6	1408.6	1409.5	1410.3	1426.8	1433.9	1458.0
62.5°	1488.8	1554.6	1570.7	1597.3	1650.4	1699.4	1688.8	1690.1	1711.2	1694.3	1725.5
65°	1667.3	1737.4	1788.0	1791.8	1866.1	1880.8	1856.8	1882.1	1877.9	1877.9	1891.4
67.5°	1684.2	1756.3	1801.9	1821.8	1907.8	1904.0	1880.8	1918.8	1896.4	1915.4	1910.0
70°	1533.1	1587.1	1634.4	1676.6	1754.2	1750.0	1751.3	1803.6	1800.7	1815.4	1800.2
72.5°	1268.9	1316.6	1342.8	1419.6	1439.8	1436.9	1468.5	1472.8	1496.4	1528.5	1508.6
75°	950.3	981.6	983.7	1034.7	1026.7	1017.0	1021.7	1038.5	994.6	966.8	944.4
77.5°	580.2	587.4	580.7	574.3	553.7	533.4	544.4	535.1	506.8	488.7	467.1
80°	365.4	374.3	377.7	397.9	392.5	409.8	422.8	435.9	439.7	424.1	408.9
82.5°	338.4	341.4	351.5	372.2	376.0	398.4	401.3	409.3	395.4	386.5	359.1
85°	217.7	224.5	245.2	232.1	249.8	250.2	241.0	240.1	213.1	199.2	167.5
87.5°	66.7	68.4	76.4	76.8	86.9	88.6	91.6	88.6	79.3	66.7	55.3
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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	40.1	39.7	39.2	39.2	39.2	38.8	38.8	38.8	38.8	38.4	38.4
5°	54.4	52.3	49.8	46.4	43.0	41.8	41.8	40.9	40.5	40.1	39.7
7.5°	58.2	57.8	57.8	57.8	57.0	56.1	55.3	51.5	43.9	40.5	40.1
10°	78.5	81.0	85.2	89.5	90.3	90.3	89.5	87.8	86.1	84.0	77.2
12.5°	86.1	86.1	84.8	83.6	85.2	89.0	92.8	94.5	94.1	93.3	92.8
15°	117.7	117.7	117.3	116.5	116.5	116.0	116.5	118.6	121.1	123.6	123.6
17.5°	129.1	128.3	128.7	130.0	124.9	123.6	123.2	121.1	120.7	122.4	123.6
20°	201.7	198.8	190.3	189.5	187.8	186.9	186.5	184.0	182.7	186.1	186.5
22.5°	215.2	219.0	216.5	229.1	208.5	209.3	222.8	230.4	230.4	229.1	227.0
25°	282.7	280.2	283.2	284.0	279.8	283.2	276.8	273.5	268.8	268.4	269.2
27.5°	299.2	306.4	307.6	319.5	326.6	323.2	336.3	330.8	326.2	322.4	325.8
30°	355.3	353.2	356.6	357.9	362.5	360.0	355.3	357.9	361.7	367.6	362.9
32.5°	422.8	426.2	429.2	430.0	432.5	429.2	429.6	438.0	443.5	437.2	427.5
35°	463.4	463.4	468.8	468.0	463.4	465.0	479.4	482.8	476.9	472.6	479.4
37.5°	515.3	514.4	514.8	516.1	513.1	529.2	536.8	528.3	522.0	535.1	529.6
40°	579.0	584.9	579.8	580.7	593.3	602.6	594.6	588.3	603.9	594.2	586.2
42.5°	658.3	652.8	645.7	660.4	672.2	665.9	656.6	672.7	668.0	654.5	677.7
45°	736.8	729.6	730.9	744.0	748.6	735.5	744.0	755.4	734.3	756.2	764.7
47.5°	806.0	809.4	824.2	836.4	820.4	824.2	836.8	819.5	835.6	852.0	850.3
50°	879.0	893.8	903.9	901.8	890.8	914.9	903.5	897.2	931.3	936.0	941.0
52.5°	947.8	970.2	972.3	959.2	976.1	989.6	974.0	1017.9	1032.2	1035.6	1049.9
55°	1045.3	1065.5	1057.1	1054.1	1096.3	1086.6	1118.3	1172.7	1179.5	1193.0	1195.5
57.5°	1207.3	1222.5	1213.7	1247.8	1282.0	1276.1	1370.6	1398.5	1436.9	1444.5	1451.7
60°	1487.5	1475.7	1475.7	1549.1	1540.3	1601.1	1669.4	1677.0	1718.4	1721.3	1729.8
62.5°	1729.8	1724.7	1764.4	1785.9	1781.7	1892.2	1910.0	1934.8	1930.2	1938.6	1887.6
65°	1869.0	1854.7	1896.4	1868.2	1948.8	1998.1	2004.5	2016.3	1996.5	1968.2	1936.1
67.5°	1870.7	1873.2	1877.5	1858.5	1950.5	1953.8	1964.4	1947.1	1930.2	1857.2	1824.3
70°	1766.9	1783.4	1747.5	1781.7	1818.4	1798.5	1791.8	1746.6	1702.3	1625.9	1561.0
72.5°	1478.7	1456.7	1435.2	1460.9	1443.2	1406.9	1363.5	1307.3	1225.1	1167.2	1104.8
75°	892.9	852.0	873.5	836.0	782.8	768.0	718.7	703.0	637.2	553.2	521.6
77.5°	445.6	403.0	408.5	376.4	335.9	302.6	251.5	205.9	164.2	127.0	103.8
80°	373.0	352.4	331.7	297.9	263.7	219.0	173.4	122.8	83.6	61.2	52.3
82.5°	321.1	315.2	274.7	242.2	204.2	166.3	117.3	81.0	52.3	40.5	37.6
85°	148.5	133.8	116.0	111.0	87.4	71.3	53.2	39.2	30.4	27.0	24.9
87.5°	53.6	46.0	42.6	36.7	32.1	29.1	27.4	26.6	26.6	26.6	25.3
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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	38.4	38.4	38.0	38.0	38.0	38.0	38.0	37.6	37.6	37.6	38.4
5°	39.7	39.2	39.2	38.8	38.8	38.8	38.4	38.4	38.0	39.2	52.7
7.5°	40.1	40.5	40.5	40.5	40.5	40.5	40.1	40.1	40.1	44.7	51.9
10°	68.8	66.3	65.8	65.0	64.1	63.7	62.9	61.6	63.3	86.1	59.9
12.5°	90.3	80.6	73.0	71.7	70.9	69.6	69.6	66.3	69.2	82.3	64.1
15°	122.8	119.8	111.4	103.4	104.2	104.2	103.4	103.0	95.4	96.2	97.5
17.5°	126.6	132.9	137.6	127.0	117.3	111.0	112.7	121.5	109.3	104.7	124.9
20°	186.1	188.2	189.1	183.1	170.1	170.1	172.2	174.3	164.6	162.9	162.5
22.5°	223.2	225.8	224.1	226.6	223.2	221.1	216.9	212.3	207.2	186.9	200.0
25°	270.1	276.4	279.8	274.3	266.3	256.6	253.6	254.0	262.5	261.2	276.8
27.5°	330.0	326.6	322.4	326.2	329.6	319.0	315.2	311.4	309.3	341.4	303.8
30°	351.5	349.0	354.5	349.0	348.1	352.8	357.0	350.3	349.8	375.6	344.3
32.5°	432.1	430.4	417.8	422.8	428.3	429.2	428.7	435.9	431.7	437.2	361.7
35°	470.9	462.1	474.3	476.0	470.1	477.7	477.7	476.0	487.4	465.0	376.0
37.5°	523.3	529.6	537.6	540.2	546.5	532.6	544.0	546.1	563.8	492.5	365.4
40°	606.8	611.5	616.5	615.7	609.4	624.6	609.8	615.7	635.5	508.5	353.6
42.5°	684.5	688.7	696.3	695.9	698.4	690.8	702.6	698.4	700.9	512.7	338.9
45°	766.8	777.3	770.1	785.8	781.5	778.6	785.8	783.2	757.5	520.7	314.0
47.5°	860.0	857.5	864.7	864.7	867.6	872.7	865.1	867.2	806.4	526.2	287.0
50°	941.5	945.3	952.4	951.6	957.9	952.0	959.2	935.6	846.9	522.9	252.4
52.5°	1047.4	1062.6	1054.6	1058.8	1052.0	1062.6	1040.6	1029.7	902.2	506.8	216.9
55°	1223.4	1199.7	1214.9	1198.0	1199.3	1196.4	1168.5	1160.9	982.8	498.4	176.4
57.5°	1443.6	1441.1	1429.7	1408.6	1403.6	1385.4	1362.2	1335.2	1111.5	495.8	143.1
60°	1710.8	1700.6	1665.2	1645.4	1609.1	1572.4	1552.1	1519.2	1248.7	484.9	118.2
62.5°	1883.4	1840.3	1814.6	1767.3	1733.6	1690.9	1658.0	1596.8	1287.5	460.4	104.7
65°	1891.8	1851.7	1807.8	1752.1	1697.7	1660.6	1601.1	1544.1	1229.3	397.9	87.4
67.5°	1769.8	1726.4	1639.5	1598.1	1544.9	1501.0	1429.3	1379.5	1080.7	319.5	69.2
70°	1524.7	1451.2	1371.1	1315.4	1270.2	1218.7	1151.2	1096.8	862.6	235.1	53.6
72.5°	1055.8	1013.6	939.8	911.5	867.2	842.3	806.4	784.9	610.2	161.6	44.3
75°	513.6	481.9	437.6	446.9	415.7	422.4	427.1	402.2	337.2	91.6	38.4
77.5°	95.8	100.4	89.5	89.5	90.7	86.5	87.4	94.9	94.5	46.4	32.5
80°	49.0	48.1	46.4	45.6	43.5	42.2	40.5	39.7	38.4	33.3	28.3
82.5°	35.4	33.3	31.2	30.0	28.7	27.0	25.7	26.2	28.7	32.9	30.4
85°	22.8	21.9	20.3	19.8	19.4	19.0	19.4	20.3	27.4	39.2	30.0
87.5°	24.5	22.4	20.3	19.4	19.0	18.1	17.7	19.0	29.1	42.6	25.7
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):

	125°	135°	145°	155°	165°	175°	180°
0°	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	39.2	42.2	51.9	59.5	60.3	60.3	59.9
5°	59.1	40.9	38.0	38.8	37.1	37.6	37.1
7.5°	37.6	37.6	38.4	53.2	59.9	62.5	60.8
10°	44.7	59.5	60.3	62.9	63.3	62.9	62.5
12.5°	86.9	85.7	65.4	69.6	90.7	92.0	91.6
15°	93.7	92.8	113.1	93.7	97.1	97.9	97.1
17.5°	122.4	122.4	122.0	112.3	126.2	126.2	125.8
20°	144.7	150.7	146.4	140.5	123.6	124.1	124.1
22.5°	205.1	167.5	159.9	153.2	138.8	138.8	138.4
25°	211.4	188.2	168.0	146.9	134.6	147.3	146.0
27.5°	272.6	196.6	157.8	149.4	133.8	130.0	130.0
30°	268.4	207.6	176.4	136.3	129.1	123.6	121.1
32.5°	284.0	205.5	155.7	124.1	105.1	103.0	100.4
35°	275.1	195.0	133.4	98.7	80.6	76.8	76.8
37.5°	265.9	166.3	107.6	73.4	64.1	61.2	61.6
40°	234.2	133.8	74.7	56.5	56.5	57.0	57.0
42.5°	200.0	92.8	54.9	48.5	51.1	52.7	52.3
45°	157.4	62.5	44.3	44.7	48.1	49.4	49.4
47.5°	112.3	46.4	40.5	41.8	45.6	47.3	46.8
50°	76.4	39.7	38.0	40.1	43.9	44.7	44.7
52.5°	55.3	37.6	36.3	38.4	42.2	43.0	43.0
55°	46.0	36.7	35.4	37.1	40.5	41.4	41.8
57.5°	43.5	36.7	35.0	36.7	39.2	40.1	40.1
60°	43.5	37.1	35.9	36.7	38.0	38.8	39.2
62.5°	44.3	39.2	37.6	37.6	37.6	38.0	38.0
65°	46.0	43.0	40.5	39.2	37.6	36.3	36.7
67.5°	48.1	46.8	44.7	41.4	36.7	34.2	34.2
70°	49.8	50.6	49.8	43.0	35.9	31.6	31.2
72.5°	49.4	53.6	50.6	43.5	35.0	29.5	29.1
75°	46.4	49.8	43.9	39.2	32.9	27.9	27.0
77.5°	40.5	36.7	30.4	30.4	27.4	24.9	24.1
80°	32.5	24.5	20.3	21.5	20.7	15.6	13.5
82.5°	25.7	16.0	15.2	16.0	15.6	11.4	9.7
85°	21.1	11.0	11.0	12.2	11.0	8.4	6.3
87.5°	16.5	6.3	7.2	6.8	6.8	5.1	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)