

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: P179241

Luminaire Tested: **UTLD-E02-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P179241
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P34324)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-SL2-HSS-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 52.1
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

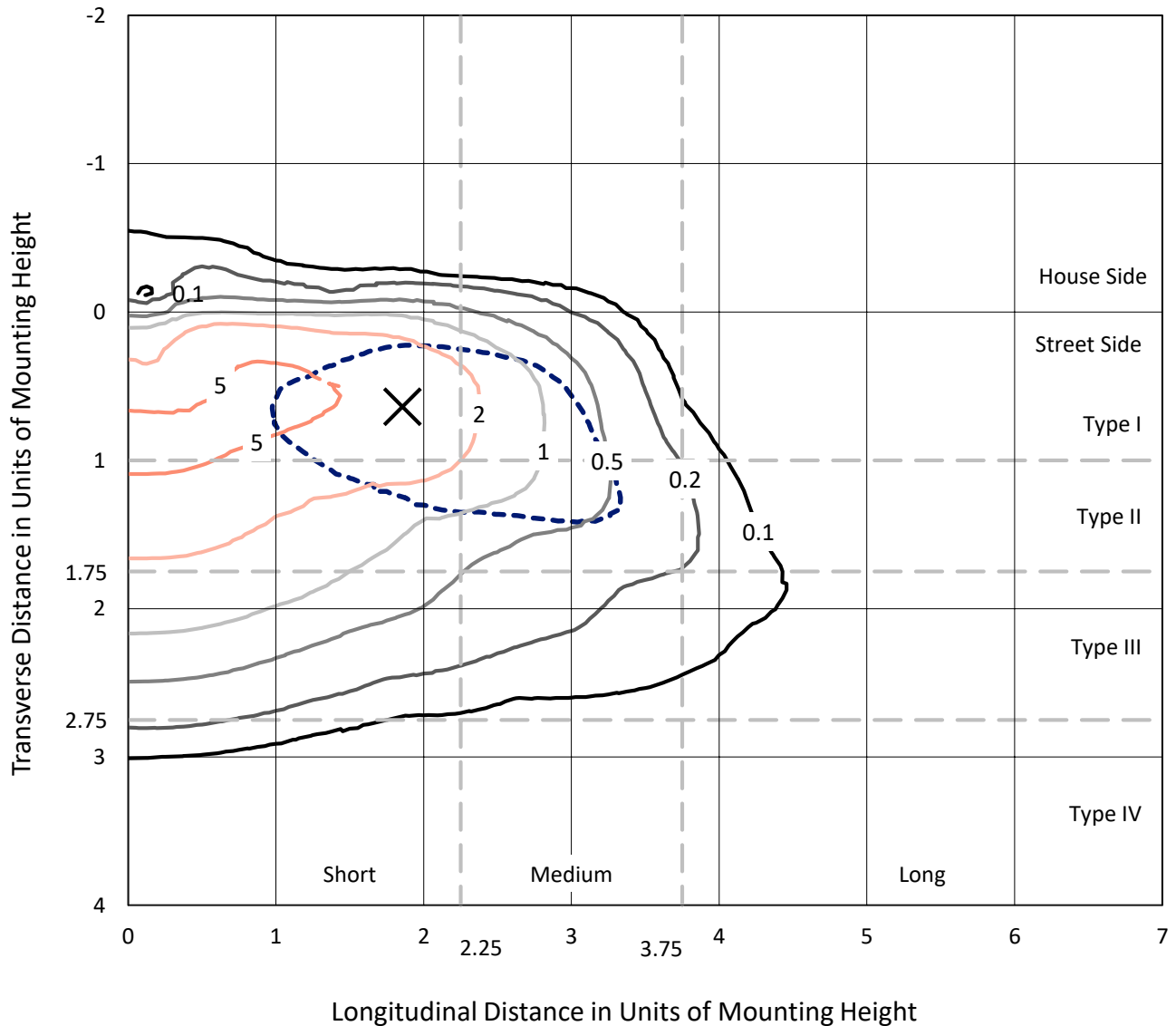


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

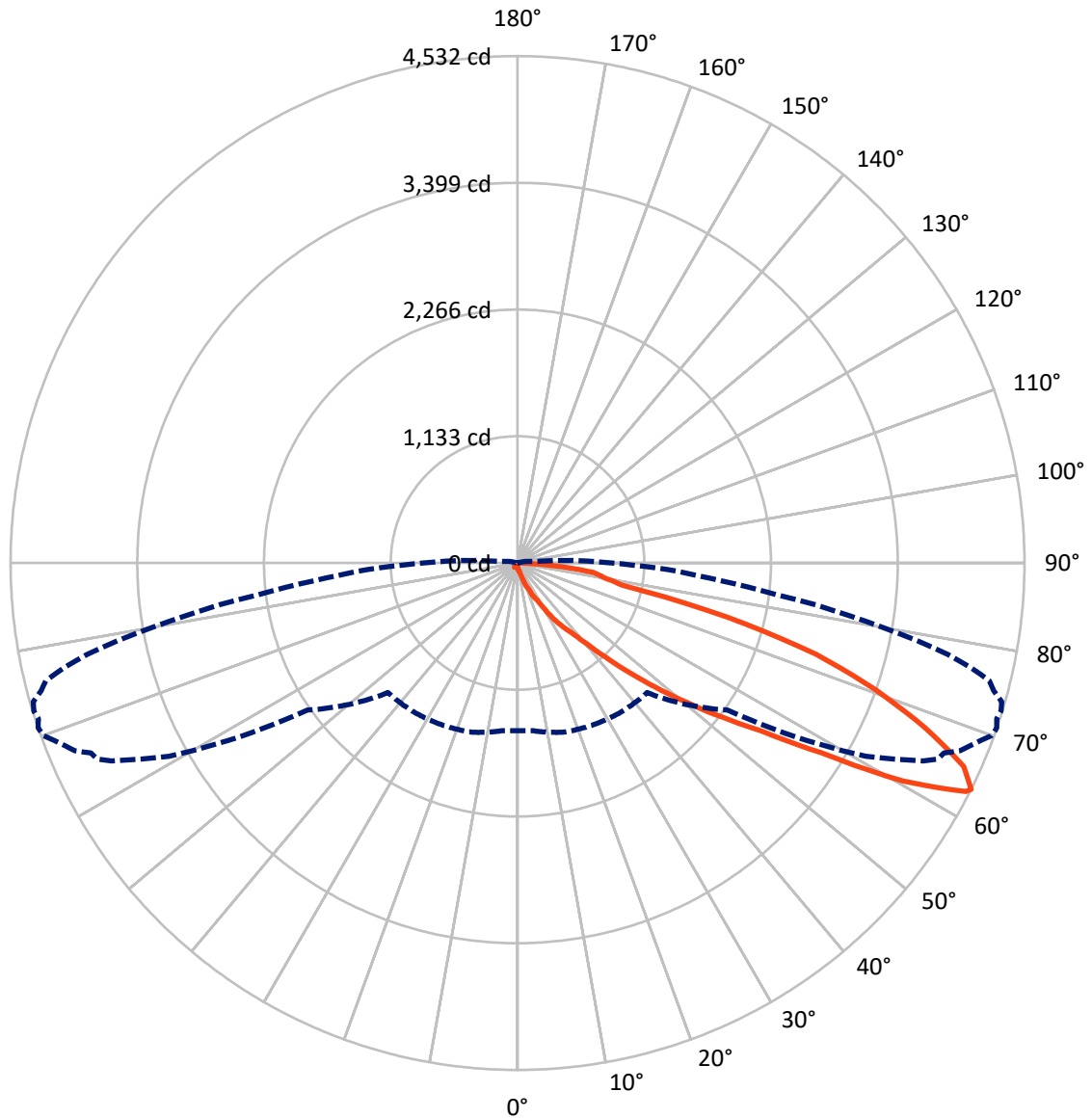


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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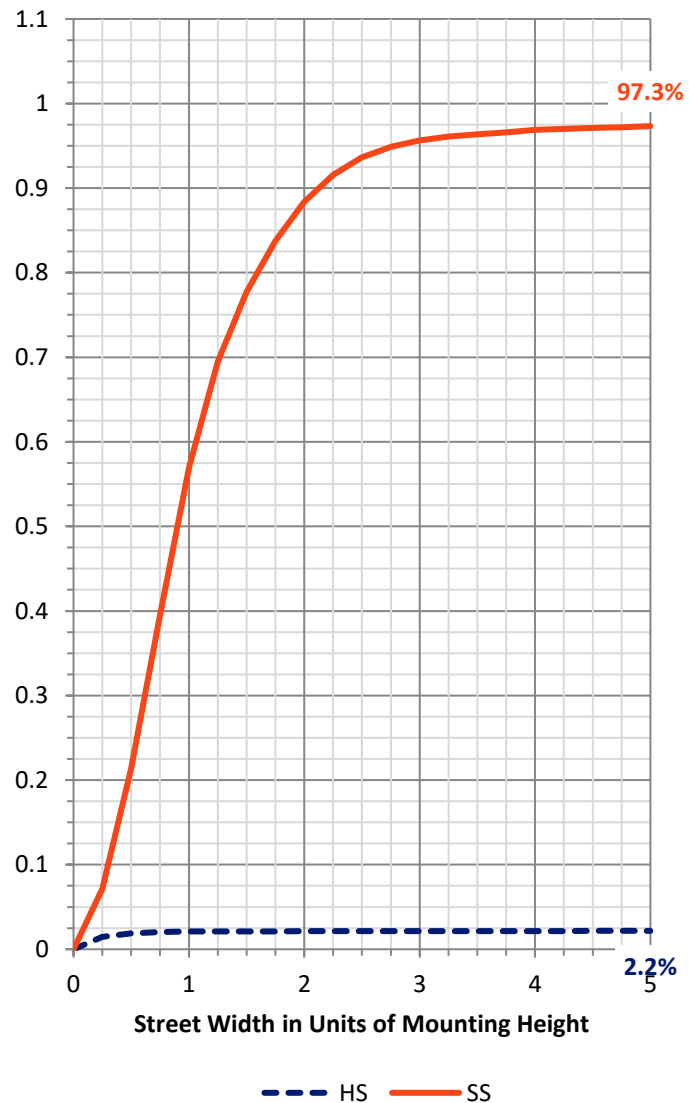
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	73.9	0.0	73.9
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	3259.1	0.0	3259.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	3333.0	0.0	3333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	26.4	0.8
20°-30°	80.9	2.4
30°-40°	249.3	7.5
40°-50°	592.3	17.8
50°-60°	855.7	25.7
60°-70°	1058.9	31.8
70°-80°	402.1	12.1
80°-90°	62.7	1.9
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°	3333.0	100.0
0°-180°	3333.0	100.0

Coefficient of Utilization



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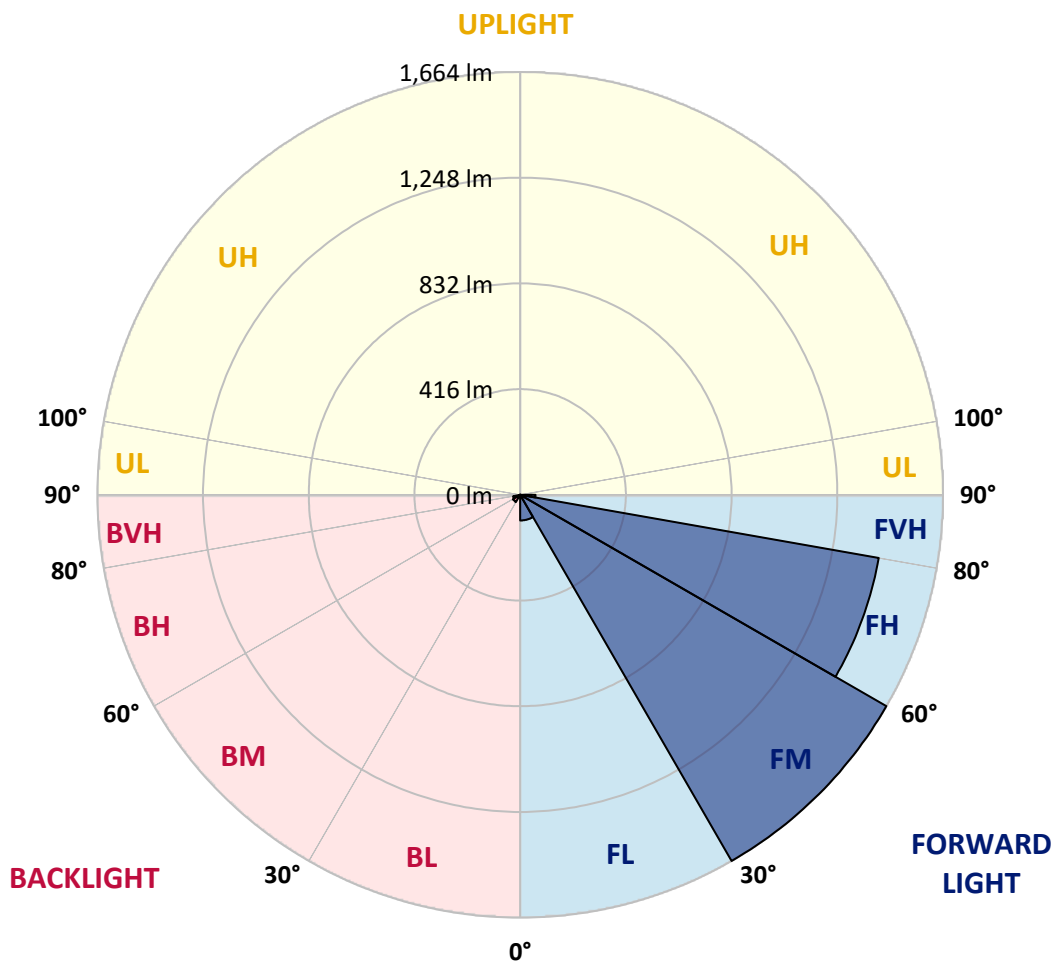
CATALOG NUMBER: UTLD-E02-LED-E-U-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	101.0	3.0			
FM	(30°-60°)	1664.4	49.9			
FH	(60°-80°)	1433.2	43.0			G1/1800
FVH	(80°-90°)	60.5	1.8			G1/100
BL	(0°-30°)	11.0	0.3	B0/110		
BM	(30°-60°)	32.8	1.0	B0/220		
BH	(60°-80°)	27.8	0.8	B0/110		G0/110
BVH	(80°-90°)	2.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	63.6	62.6	60.5	60.5	59.5	59.5	58.5	57.5	57.5	57.5	56.4
5°	74.9	73.9	70.8	67.7	67.7	65.7	61.6	60.5	59.5	58.5	58.5
7.5°	122.1	121.1	119.0	115.9	110.8	75.9	67.7	66.7	65.7	64.6	63.6
10°	136.5	136.5	135.4	131.3	126.2	118.0	107.7	78.0	75.9	77.0	80.0
12.5°	183.7	178.5	181.6	176.5	148.8	139.6	142.6	132.4	130.3	129.3	100.6
15°	196.0	190.9	181.6	182.6	186.8	198.0	161.1	151.9	146.7	143.7	143.7
17.5°	215.5	215.5	216.5	216.5	208.3	212.4	209.3	185.7	184.7	180.6	179.6
20°	264.7	262.7	234.0	220.6	243.2	248.3	249.3	214.5	207.3	206.2	212.4
22.5°	280.1	278.1	272.9	278.1	249.3	280.1	322.2	321.2	313.0	308.9	283.2
25°	357.1	354.0	335.5	287.3	306.8	307.8	348.9	352.0	349.9	357.1	378.6
27.5°	412.5	416.6	374.5	343.7	323.2	367.3	444.3	453.5	453.5	443.3	444.3
30°	525.4	523.3	477.1	399.2	389.9	395.1	489.5	521.3	547.9	531.5	550.0
32.5°	755.2	745.0	674.2	531.5	466.9	488.4	586.9	624.9	618.7	609.5	625.9
35°	1087.7	1080.5	934.8	798.3	671.1	620.8	693.6	757.3	743.9	773.7	785.0
37.5°	1321.6	1303.2	1240.6	1103.1	978.9	895.8	926.6	901.9	898.9	919.4	917.3
40°	1494.0	1495.0	1473.5	1361.6	1271.3	1225.2	1229.3	1138.0	1131.8	1139.0	1124.6
42.5°	1578.2	1585.3	1602.8	1547.4	1510.4	1515.6	1556.6	1479.6	1476.6	1458.1	1402.7
45°	1629.5	1638.7	1692.0	1710.5	1699.2	1750.5	1862.4	1799.8	1804.9	1821.3	1742.3
47.5°	1635.6	1649.0	1718.7	1774.1	1819.3	1922.9	2094.3	2108.6	2124.0	2137.4	2078.9
50°	1575.1	1580.2	1668.4	1748.5	1815.2	2010.1	2270.8	2360.0	2387.7	2387.7	2338.5
52.5°	1465.3	1472.5	1556.6	1643.8	1707.4	2006.0	2384.7	2546.8	2608.4	2610.4	2539.6
55°	1418.1	1426.3	1489.9	1566.9	1598.7	1906.5	2454.4	2716.1	2780.7	2792.0	2750.0
57.5°	1418.1	1427.3	1478.6	1523.8	1540.2	1790.6	2496.5	2914.1	2987.0	3056.8	3054.7
60°	1481.7	1492.0	1533.0	1529.9	1514.5	1708.5	2478.0	3156.3	3274.3	3391.3	3525.7
62.5°	1518.6	1523.8	1580.2	1596.6	1593.5	1647.9	2333.4	3336.9	3519.5	3689.9	3981.3
63°	1498.1	1504.3	1566.9	1596.6	1623.3	1638.7	2293.3	3356.4	3562.6	3713.5	4036.7
65°	1387.3	1388.3	1455.0	1492.0	1672.6	1637.7	2078.9	3318.4	3570.8	3720.7	4080.8
67.5°	1099.0	1105.1	1151.3	1213.9	1381.1	1662.3	1786.4	2883.4	3138.9	3258.9	3660.1
70°	578.7	604.4	642.3	725.5	954.3	1411.9	1495.0	2124.0	2371.3	2549.9	3010.6
72.5°	175.5	163.2	212.4	310.9	485.3	976.9	1311.4	1500.2	1642.8	1820.3	2310.8
75°	79.0	81.1	92.3	132.4	212.4	524.3	1146.2	1232.4	1251.8	1312.4	1610.0
77.5°	45.1	46.2	54.4	74.9	110.8	261.7	868.1	1105.1	1089.7	1111.3	1165.7
80°	29.8	30.8	39.0	53.4	61.6	128.3	492.5	861.9	912.2	967.6	1007.6
82.5°	16.4	16.4	24.6	43.1	40.0	61.6	193.9	564.4	654.7	712.1	832.2
85°	7.2	8.2	14.4	28.7	24.6	28.7	93.4	191.9	219.6	230.9	287.3
87.5°	2.1	2.1	4.1	10.3	10.3	13.3	27.7	86.2	91.3	98.5	120.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	56.4	56.4	54.4	53.4	50.3	50.3	48.2	49.3	46.2	45.1	43.1
5°	57.5	57.5	57.5	57.5	56.4	56.4	56.4	56.4	56.4	56.4	55.4
7.5°	62.6	62.6	62.6	62.6	61.6	60.5	58.5	58.5	57.5	57.5	57.5
10°	80.0	79.0	77.0	75.9	74.9	73.9	71.8	72.9	70.8	71.8	69.8
12.5°	95.4	93.4	90.3	87.2	86.2	85.2	83.1	82.1	81.1	83.1	82.1
15°	148.8	147.8	148.8	143.7	117.0	115.9	117.0	114.9	112.9	109.8	105.7
17.5°	177.5	174.4	164.2	160.1	161.1	158.0	149.8	133.4	124.2	120.1	118.0
20°	227.8	228.8	230.9	230.9	226.8	221.6	216.5	215.5	209.3	187.8	179.6
22.5°	272.9	272.9	267.8	262.7	256.5	257.6	250.4	234.0	228.8	222.7	219.6
25°	392.0	385.8	371.5	366.3	361.2	347.8	330.4	321.2	318.1	314.0	300.6
27.5°	443.3	435.1	432.0	425.8	407.4	385.8	378.6	373.5	378.6	354.0	336.6
30°	536.7	535.6	532.5	519.2	496.6	479.2	480.2	475.1	441.2	415.6	399.2
32.5°	632.1	624.9	649.5	624.9	604.4	611.6	602.3	570.5	546.9	520.2	517.2
35°	781.9	781.9	761.4	734.7	737.8	742.9	698.8	665.9	650.6	639.3	616.7
37.5°	919.4	913.2	875.3	860.9	877.3	848.6	799.3	777.8	772.7	753.2	717.2
40°	1106.1	1069.2	1040.5	1037.4	1035.3	968.6	940.9	943.0	916.3	877.3	836.3
42.5°	1362.7	1303.2	1281.6	1283.7	1209.8	1156.4	1146.2	1120.5	1085.6	1041.5	1004.6
45°	1658.2	1600.7	1601.8	1537.1	1443.7	1397.6	1387.3	1347.3	1304.2	1252.9	1199.5
47.5°	1979.4	1938.3	1958.8	1829.5	1747.5	1720.8	1655.1	1592.5	1542.2	1479.6	1412.9
50°	2268.7	2290.3	2245.1	2132.2	2072.7	2036.8	1959.9	1881.9	1817.2	1721.8	1631.5
52.5°	2539.6	2580.7	2509.9	2406.2	2414.4	2345.7	2286.2	2207.2	2121.0	2008.1	1912.7
55°	2810.5	2819.7	2761.2	2727.4	2725.3	2681.2	2654.5	2598.1	2482.1	2368.3	2325.2
57.5°	3152.2	3140.9	3099.9	3153.2	3157.3	3171.7	3200.4	3141.9	3107.0	3023.9	2957.2
60°	3645.8	3636.5	3655.0	3812.0	3843.8	3939.2	3959.7	3961.8	3932.0	3958.7	3796.6
62.5°	4081.8	4118.8	4238.8	4311.7	4386.6	4479.0	4499.5	4461.5	4481.0	4483.1	4356.8
63°	4145.5	4174.2	4298.4	4360.9	4432.8	4509.7	4532.3	4503.6	4521.0	4503.6	4408.1
65°	4173.2	4186.5	4332.2	4315.8	4407.1	4441.0	4383.5	4372.2	4436.9	4344.5	4327.1
67.5°	3763.8	3844.8	3942.3	3942.3	4013.1	4005.9	3929.0	3945.4	3946.4	3910.5	3901.3
70°	3147.1	3311.2	3331.8	3405.6	3454.9	3411.8	3395.4	3406.7	3320.5	3340.0	3253.8
72.5°	2503.7	2680.2	2713.0	2850.5	2864.9	2767.4	2791.0	2723.3	2628.9	2570.4	2451.4
75°	1822.4	1934.2	2031.7	2070.7	2071.7	1979.4	1939.3	1783.4	1644.8	1478.6	1434.5
77.5°	1272.4	1260.1	1297.0	1275.4	1130.8	1084.6	954.3	878.3	807.5	684.4	616.7
80°	1028.2	1016.9	1034.3	988.1	925.5	873.2	779.8	710.1	631.1	577.7	495.6
82.5°	877.3	923.5	934.8	869.1	837.3	793.2	685.4	609.5	532.5	463.8	399.2
85°	334.5	399.2	394.0	410.4	411.5	388.9	342.7	271.9	215.5	174.4	141.6
87.5°	129.3	144.7	135.4	134.4	135.4	124.2	105.7	93.4	79.0	63.6	53.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	42.1	40.0	40.0	38.0	38.0	36.9	36.9	35.9	35.9	34.9	34.9
5°	55.4	55.4	54.4	52.3	47.2	45.1	41.0	38.0	36.9	35.9	34.9
7.5°	57.5	57.5	56.4	56.4	55.4	54.4	53.4	50.3	45.1	41.0	38.0
10°	69.8	67.7	68.7	70.8	69.8	69.8	68.7	67.7	65.7	63.6	51.3
12.5°	81.1	80.0	78.0	73.9	71.8	70.8	70.8	69.8	68.7	67.7	65.7
15°	102.6	99.5	98.5	95.4	93.4	90.3	91.3	90.3	88.2	84.1	74.9
17.5°	113.9	111.8	108.8	109.8	107.7	101.6	91.3	88.2	85.2	82.1	79.0
20°	176.5	173.4	167.3	157.0	144.7	138.5	133.4	128.3	129.3	128.3	120.1
22.5°	206.2	187.8	176.5	168.3	165.2	165.2	161.1	163.2	149.8	145.7	128.3
25°	277.0	263.7	249.3	241.1	237.0	227.8	210.4	198.0	184.7	180.6	167.3
27.5°	331.4	319.1	319.1	305.8	283.2	265.8	248.3	238.1	221.6	210.4	196.0
30°	399.2	383.8	364.3	339.6	318.1	301.7	289.4	264.7	249.3	234.0	205.2
32.5°	498.7	470.0	445.3	422.8	403.3	370.4	350.9	330.4	298.6	265.8	251.4
35°	591.0	555.1	527.4	503.8	463.8	441.2	411.5	365.3	331.4	315.0	282.2
37.5°	681.3	647.5	620.8	574.6	538.7	500.7	451.5	417.6	387.9	346.8	301.7
40°	799.3	761.4	707.0	667.0	619.8	556.1	519.2	478.2	427.9	377.6	339.6
42.5°	954.3	893.7	849.6	799.3	713.1	672.1	621.8	549.0	485.3	440.2	377.6
45°	1141.0	1078.4	1031.2	932.7	870.1	807.5	731.6	646.4	582.8	512.0	458.7
47.5°	1339.1	1296.0	1195.4	1096.9	1035.3	942.0	854.7	766.5	678.3	615.7	519.2
50°	1586.4	1477.6	1366.8	1296.0	1196.4	1091.8	989.2	877.3	800.4	703.9	610.5
52.5°	1833.7	1683.8	1603.8	1499.1	1363.7	1243.6	1124.6	1015.8	907.1	803.4	692.6
55°	2167.1	2017.3	1897.3	1746.4	1592.5	1455.0	1331.9	1197.5	1078.4	945.0	824.0
57.5°	2776.6	2611.4	2439.1	2213.3	2025.5	1859.3	1693.1	1534.0	1356.5	1212.9	1066.1
60°	3687.8	3514.4	3277.4	3013.7	2723.3	2464.7	2227.7	1989.6	1770.0	1593.5	1366.8
62.5°	4287.1	4108.5	3888.9	3576.0	3269.2	2926.5	2630.9	2300.5	2055.3	1801.8	1592.5
63°	4346.6	4156.8	3936.1	3639.6	3315.3	2994.2	2694.6	2334.4	2083.0	1828.5	1612.0
65°	4255.3	4137.3	3932.0	3683.7	3432.3	3119.4	2792.0	2438.0	2153.8	1895.2	1641.8
67.5°	3802.7	3748.4	3615.0	3479.5	3254.8	3037.3	2737.6	2425.7	2124.0	1878.8	1644.8
70°	3220.9	3146.0	3041.4	2987.0	2832.1	2647.4	2441.1	2196.9	1979.4	1738.2	1525.8
72.5°	2407.2	2259.5	2175.3	2084.0	1985.5	1856.2	1736.2	1598.7	1422.2	1293.9	1080.5
75°	1260.1	1095.9	984.0	852.7	747.0	639.3	581.8	542.8	483.3	417.6	369.4
77.5°	511.0	426.9	344.8	293.5	220.6	176.5	150.8	133.4	123.1	109.8	101.6
80°	428.9	342.7	276.0	209.3	153.9	111.8	83.1	64.6	55.4	48.2	44.1
82.5°	346.8	297.6	247.3	195.0	149.8	121.1	89.3	63.6	46.2	36.9	31.8
85°	110.8	97.5	75.9	63.6	52.3	44.1	36.9	29.8	26.7	24.6	22.6
87.5°	46.2	35.9	32.8	29.8	28.7	27.7	27.7	25.7	23.6	20.5	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P179241

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CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9
2.5°	33.9	33.9	32.8	33.9	31.8	29.8	28.7	27.7	26.7	26.7	26.7
5°	34.9	33.9	32.8	31.8	28.7	26.7	24.6	22.6	25.7	22.6	15.4
7.5°	35.9	34.9	32.8	31.8	28.7	25.7	23.6	14.4	9.2	9.2	10.3
10°	48.2	45.1	44.1	41.0	38.0	27.7	17.4	9.2	8.2	12.3	14.4
12.5°	52.3	49.3	46.2	43.1	35.9	29.8	14.4	12.3	15.4	12.3	13.3
15°	70.8	60.5	57.5	54.4	48.2	34.9	16.4	16.4	15.4	13.3	15.4
17.5°	78.0	66.7	63.6	61.6	47.2	22.6	18.5	19.5	15.4	17.4	14.4
20°	112.9	100.6	91.3	87.2	63.6	32.8	25.7	18.5	19.5	15.4	17.4
22.5°	129.3	120.1	110.8	108.8	71.8	35.9	29.8	25.7	18.5	18.5	16.4
25°	160.1	147.8	132.4	119.0	75.9	45.1	35.9	25.7	21.5	17.4	16.4
27.5°	181.6	161.1	147.8	139.6	82.1	47.2	34.9	28.7	21.5	16.4	14.4
30°	189.8	178.5	160.1	139.6	83.1	49.3	36.9	27.7	21.5	16.4	15.4
32.5°	231.9	206.2	179.6	164.2	89.3	52.3	35.9	27.7	20.5	15.4	14.4
35°	248.3	223.7	195.0	173.4	93.4	50.3	34.9	24.6	18.5	14.4	11.3
37.5°	275.0	239.1	211.4	184.7	94.4	47.2	31.8	23.6	16.4	12.3	10.3
40°	294.5	264.7	223.7	193.9	94.4	44.1	29.8	20.5	14.4	10.3	8.2
42.5°	340.7	288.3	247.3	212.4	96.5	40.0	26.7	17.4	12.3	7.2	6.2
45°	389.9	339.6	285.3	243.2	98.5	36.9	23.6	15.4	9.2	5.1	3.1
47.5°	459.7	394.0	332.5	279.1	99.5	33.9	21.5	13.3	7.2	3.1	2.1
50°	526.4	455.6	380.7	326.3	101.6	30.8	18.5	11.3	5.1	2.1	1.0
52.5°	604.4	517.2	441.2	364.3	102.6	28.7	16.4	9.2	3.1	1.0	0.0
55°	715.2	622.8	516.1	435.1	104.7	25.7	13.3	7.2	2.1	1.0	0.0
57.5°	935.8	810.6	679.3	562.3	114.9	22.6	11.3	5.1	1.0	1.0	0.0
60°	1204.6	1065.1	891.7	722.4	135.4	19.5	9.2	3.1	1.0	0.0	0.0
62.5°	1399.6	1220.0	1013.8	831.1	149.8	16.4	8.2	2.1	1.0	1.0	0.0
63°	1431.4	1237.5	1023.0	838.3	150.8	16.4	7.2	2.1	1.0	0.0	0.0
65°	1455.0	1253.9	1035.3	849.6	153.9	14.4	6.2	2.1	1.0	1.0	0.0
67.5°	1435.5	1218.0	1005.6	828.1	156.0	12.3	5.1	2.1	1.0	1.0	1.0
70°	1302.1	1108.2	922.5	756.2	144.7	10.3	4.1	2.1	1.0	1.0	1.0
72.5°	935.8	834.2	663.9	545.9	110.8	9.2	4.1	3.1	1.0	2.1	2.1
75°	315.0	282.2	235.0	208.3	64.6	6.2	3.1	3.1	1.0	2.1	2.1
77.5°	90.3	84.1	72.9	66.7	32.8	5.1	3.1	3.1	1.0	3.1	3.1
80°	39.0	35.9	31.8	27.7	14.4	4.1	3.1	4.1	1.0	4.1	3.1
82.5°	28.7	25.7	22.6	18.5	8.2	4.1	4.1	5.1	1.0	4.1	4.1
85°	20.5	18.5	15.4	13.3	6.2	4.1	4.1	5.1	2.1	5.1	5.1
87.5°	16.4	14.4	12.3	9.2	6.2	4.1	4.1	6.2	2.1	6.2	5.1
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):

	165°	175°	180°
0°	33.9	33.9	33.9
2.5°	26.7	27.7	27.7
5°	13.3	14.4	14.4
7.5°	11.3	12.3	12.3
10°	15.4	15.4	15.4
12.5°	14.4	15.4	15.4
15°	16.4	17.4	17.4
17.5°	14.4	18.5	19.5
20°	16.4	16.4	16.4
22.5°	16.4	17.4	17.4
25°	15.4	15.4	15.4
27.5°	15.4	15.4	15.4
30°	13.3	15.4	15.4
32.5°	13.3	13.3	13.3
35°	12.3	12.3	12.3
37.5°	10.3	11.3	11.3
40°	8.2	8.2	8.2
42.5°	5.1	5.1	5.1
45°	3.1	3.1	3.1
47.5°	2.1	2.1	2.1
50°	1.0	1.0	1.0
52.5°	1.0	1.0	1.0
55°	0.0	1.0	1.0
57.5°	0.0	0.0	1.0
60°	0.0	0.0	1.0
62.5°	0.0	0.0	1.0
63°	0.0	0.0	1.0
65°	1.0	0.0	1.0
67.5°	1.0	1.0	1.0
70°	1.0	1.0	1.0
72.5°	2.1	1.0	2.1
75°	2.1	2.1	2.1
77.5°	3.1	2.1	2.1
80°	3.1	3.1	2.1
82.5°	4.1	3.1	1.0
85°	4.1	4.1	2.1
87.5°	5.1	5.1	2.1
90°	0.0	0.0	0.0

(END OF REPORT)