

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: P266525

Luminaire Tested: **UTLD-AF24-90-D-U-T4W-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-26)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-T4W-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6334.5 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

Input Watts (W): 94
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



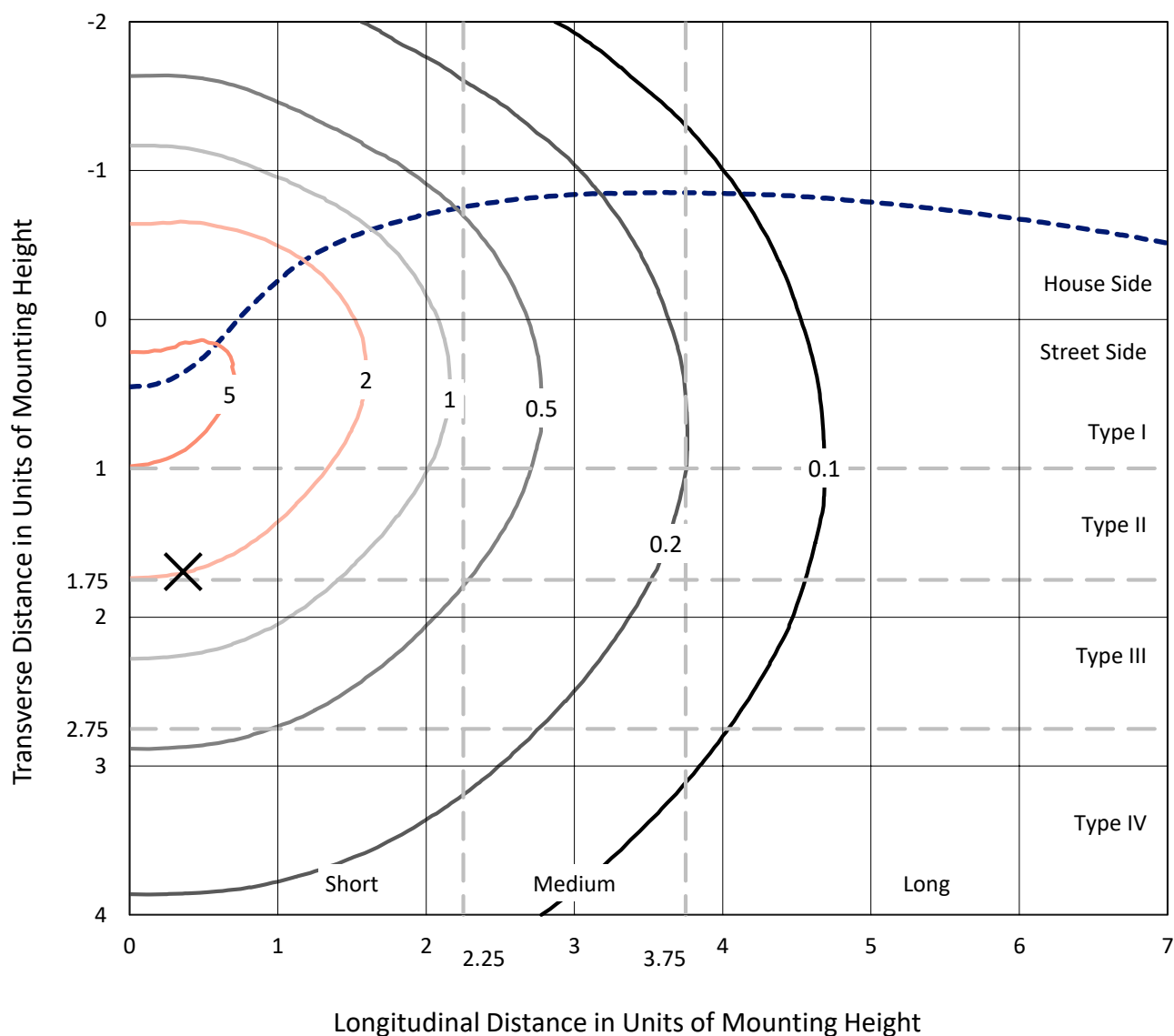
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

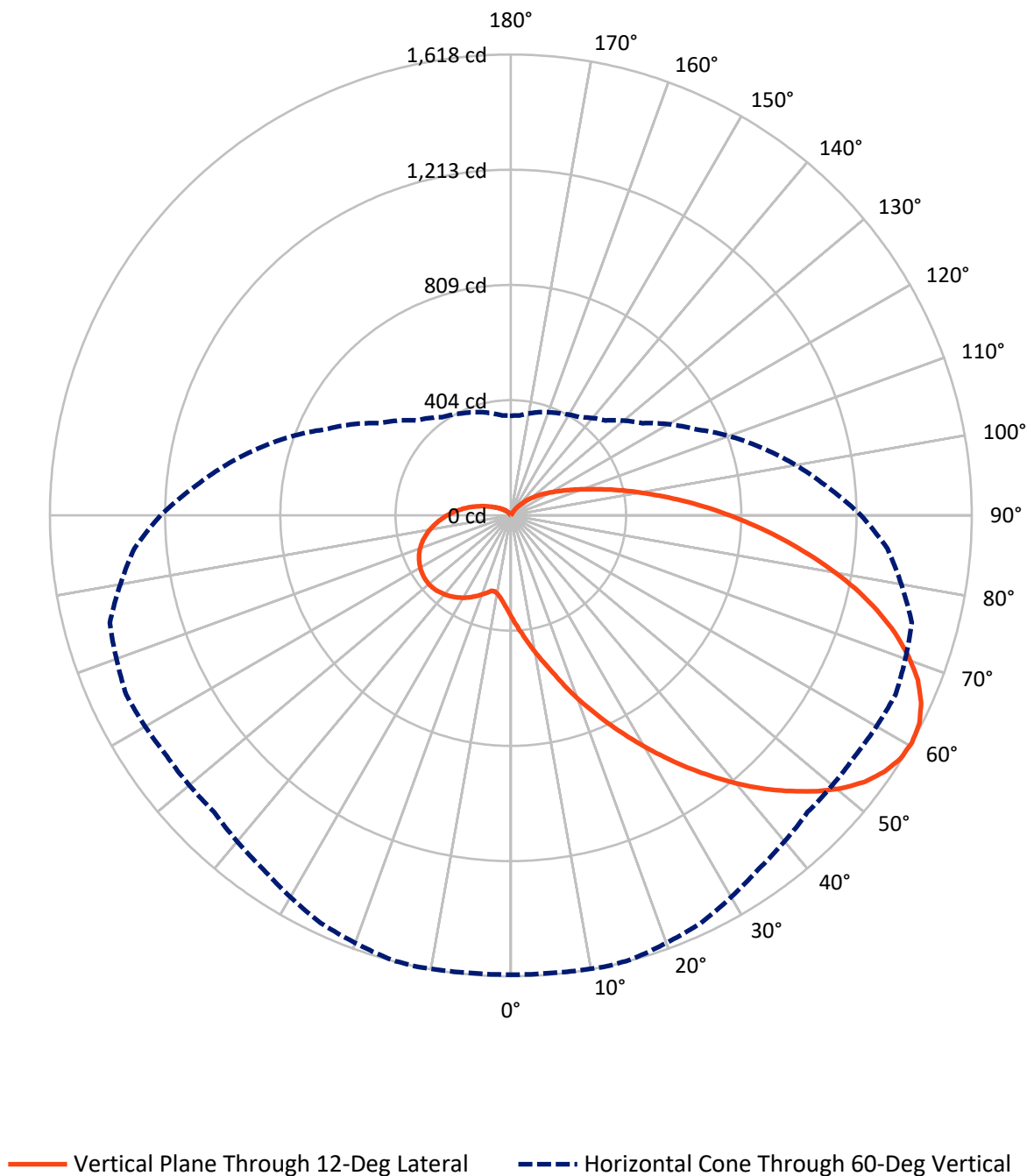


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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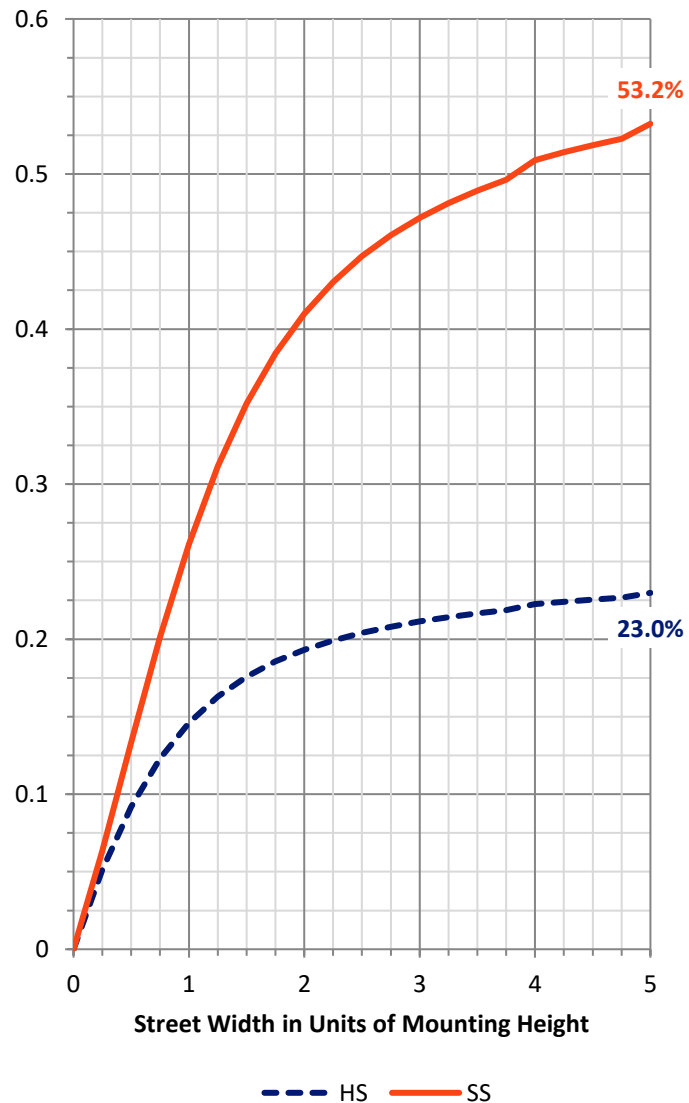
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1557.4	358.6	1916.0
	% Fixture	24.6	5.7	30.2
Street Side	Lumens	3675.2	743.2	4418.5
	% Fixture	58.0	11.7	69.8
Total	Lumens	5232.6	1101.9	6334.5
	% Fixture	82.6	17.4	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	0.6
10°-20°	124.2	2.0
20°-30°	266.4	4.2
30°-40°	466.4	7.4
40°-50°	702.4	11.1
50°-60°	917.0	14.5
60°-70°	1021.3	16.1
70°-80°	953.4	15.1
80°-90°	745.9	11.8
90°-100°	504.1	8.0
100°-110°	304.6	4.8
110°-120°	167.8	2.6
120°-130°	83.5	1.3
130°-140°	33.4	0.5
140°-150°	8.0	0.1
150°-160°	0.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5232.6	82.6
0°-180°	6334.5	100.0

Coefficient of Utilization



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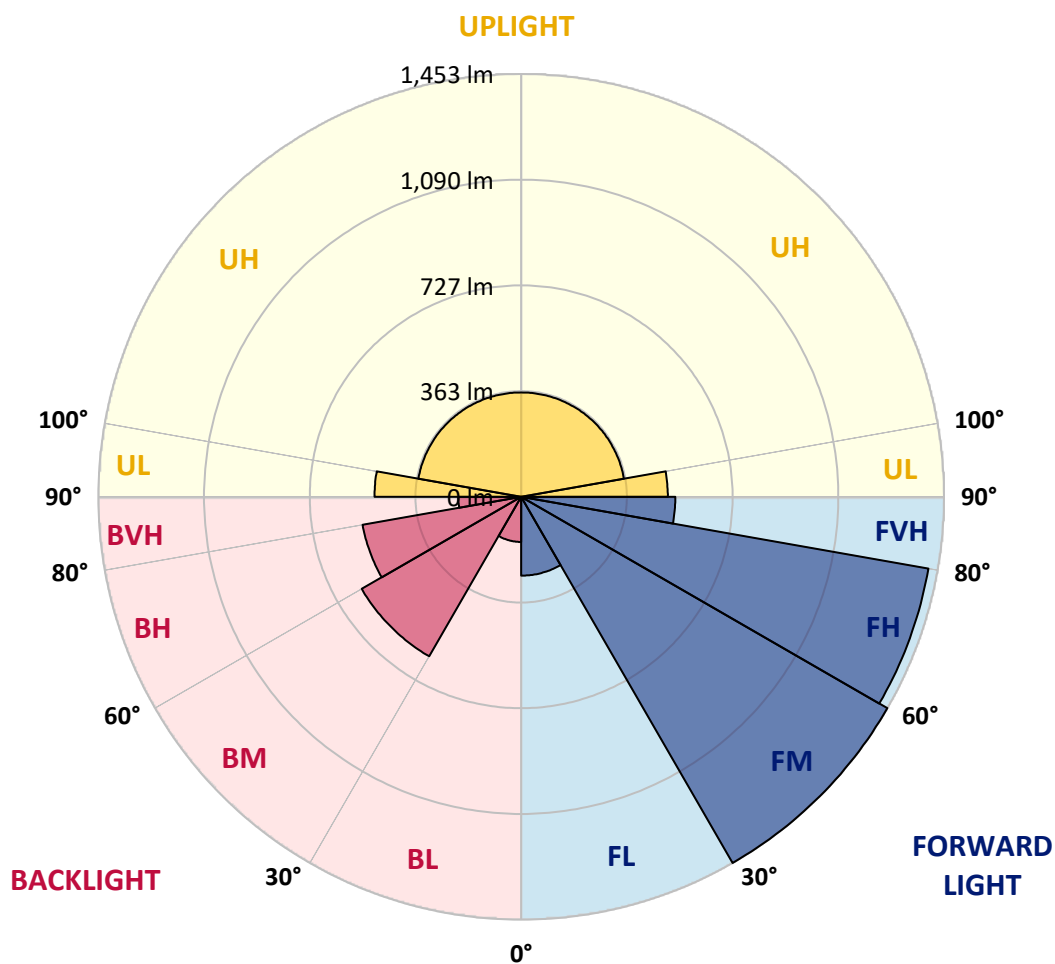
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.9	4.3			
FM	(30°-60°)	1453.3	22.9			
FH	(60°-80°)	1421.4	22.4			G1/1800
FVH	(80°-90°)	529.7	8.4			G4/750
BL	(0°-30°)	155.2	2.4	B1/500		
BM	(30°-60°)	632.7	10.0	B1/1000		
BH	(60°-80°)	553.3	8.7	B2/1000		G2/1000
BVH	(80°-90°)	216.2	3.4			G2/225
UL	(90°-100°)	504.1	8.0		U4/1000	
UH	(100°-180°)	358.6	5.7		U3/500	

BUG Rating: B2-U4-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
0°	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2
2.5°	388.2	386.5	386.5	384.8	384.8	381.4	378.9	374.8	370.6	365.5	361.3
5°	419.1	419.1	417.5	417.5	414.1	408.3	402.4	394.9	387.3	378.9	368.8
7.5°	456.1	455.3	455.3	452.7	448.6	440.1	431.7	420.9	409.1	394.9	381.4
10°	493.8	492.9	492.9	490.5	485.4	475.4	462.7	450.2	435.0	416.6	398.2
12.5°	539.1	535.7	534.0	533.1	524.8	515.5	499.6	484.5	464.5	443.5	420.9
15°	586.9	586.0	580.9	578.5	570.1	555.8	540.7	522.3	502.2	478.6	450.9
17.5°	640.5	640.5	637.1	633.8	624.5	605.3	586.0	568.4	548.2	519.8	488.8
20°	698.3	698.3	694.1	689.1	677.3	660.7	641.3	620.4	596.0	565.0	527.3
22.5°	759.5	757.8	752.1	748.6	734.4	715.9	700.9	676.6	648.0	612.9	569.3
25°	824.0	821.6	815.8	812.3	795.5	781.3	763.6	735.3	702.6	662.3	613.6
27.5°	891.9	885.3	881.1	876.0	860.0	845.8	821.6	794.7	757.0	715.1	661.4
30°	957.4	954.9	949.8	943.1	928.8	912.0	885.3	855.9	819.1	772.9	713.4
32.5°	1032.0	1029.5	1021.1	1014.4	996.0	978.3	950.6	919.7	880.2	831.7	767.1
35°	1106.6	1103.2	1094.0	1086.5	1071.4	1045.4	1012.7	983.4	943.9	894.5	825.0
37.5°	1183.6	1177.0	1167.0	1161.9	1143.5	1111.7	1077.2	1045.4	1009.3	959.0	883.7
40°	1256.6	1253.2	1241.5	1235.7	1215.5	1176.2	1138.4	1109.9	1077.2	1024.4	944.7
42.5°	1331.3	1325.4	1313.6	1307.8	1284.2	1239.0	1199.6	1172.7	1145.2	1093.1	1006.8
45°	1397.6	1395.0	1380.8	1377.5	1348.8	1300.2	1254.9	1231.4	1207.2	1157.7	1063.9
47.5°	1462.0	1456.2	1446.9	1442.8	1409.3	1353.8	1309.5	1289.3	1269.2	1223.9	1125.0
50°	1514.8	1514.1	1505.6	1500.6	1462.0	1401.6	1356.4	1340.5	1329.6	1286.1	1180.4
52.5°	1560.1	1559.3	1554.2	1549.2	1508.2	1445.3	1398.3	1386.5	1383.2	1343.0	1229.1
55°	1591.9	1591.2	1589.6	1584.4	1544.1	1479.7	1433.5	1424.4	1428.6	1390.8	1272.5
57.5°	1610.4	1609.7	1612.1	1607.8	1566.9	1503.1	1457.9	1455.3	1465.3	1431.0	1305.2
60°	1612.1	1612.1	1617.9	1615.4	1578.5	1515.7	1473.0	1473.8	1489.7	1457.1	1326.3
62.5°	1596.9	1596.9	1609.7	1607.1	1575.2	1514.8	1475.5	1482.2	1502.2	1471.2	1333.8
65°	1564.3	1568.5	1582.8	1582.8	1557.7	1503.1	1467.0	1477.2	1501.4	1470.4	1328.8
67.5°	1512.3	1520.7	1540.9	1542.5	1525.0	1477.2	1445.3	1459.6	1486.3	1453.6	1307.8
70°	1447.8	1459.6	1480.4	1486.3	1478.8	1439.4	1412.6	1429.4	1455.3	1422.6	1273.3
72.5°	1372.3	1383.2	1410.1	1416.7	1419.3	1388.3	1367.3	1387.4	1408.5	1373.1	1225.6
75°	1288.4	1297.7	1328.0	1334.6	1345.5	1328.0	1314.5	1330.4	1353.8	1310.3	1164.5
77.5°	1187.1	1203.0	1236.5	1244.1	1265.1	1256.6	1246.6	1265.9	1283.5	1237.3	1093.1
80°	1088.9	1109.0	1136.7	1151.8	1177.0	1176.2	1177.9	1190.4	1205.5	1155.2	1016.1
82.5°	989.3	1003.4	1036.1	1050.4	1088.9	1098.2	1098.2	1114.9	1119.9	1063.9	933.1
85°	888.7	905.4	938.1	952.4	994.2	1014.4	1020.3	1028.6	1029.5	970.8	847.6
87.5°	799.9	809.8	840.9	858.4	903.8	927.2	934.7	944.7	938.1	880.2	759.5
90°	710.9	720.1	750.4	764.5	814.0	841.7	858.4	862.6	849.2	788.1	679.1
92.5°	627.9	637.1	665.6	682.4	731.0	760.3	776.2	779.6	764.5	702.6	601.1
95°	555.0	555.0	586.0	598.6	653.1	685.8	700.9	700.9	679.8	618.8	526.4
97.5°	486.3	487.9	512.3	528.2	578.5	612.9	628.8	629.6	600.2	542.3	463.5
100°	424.2	426.8	449.3	463.5	512.3	548.2	562.5	560.1	529.8	470.4	400.7
102.5°	373.1	373.1	392.3	404.1	450.2	486.3	499.6	494.5	463.5	406.7	349.6
105°	327.0	328.6	341.1	352.9	396.5	430.1	443.5	435.9	404.1	348.7	305.2
107.5°	290.1	289.3	297.6	306.1	347.0	378.9	390.7	381.4	348.0	298.4	264.9
110°	253.2	254.0	260.7	266.5	304.3	334.4	342.9	335.3	297.6	254.0	229.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	12°	15°	25°	35°	45°	55°	65°	75°	85°
112.5°	223.9	223.9	228.9	233.9	260.7	290.1	300.2	289.3	253.2	215.5	200.3
115°	198.6	199.6	201.2	203.7	226.4	253.2	261.5	248.1	213.0	184.4	174.5
117.5°	176.8	176.8	177.8	180.2	194.6	218.7	224.7	210.5	180.2	157.7	153.4
120°	158.5	157.7	156.8	157.7	167.7	185.3	191.1	176.8	150.0	136.6	133.3
122.5°	140.9	140.9	139.1	140.0	142.6	155.9	160.1	146.8	126.7	118.1	117.4
125°	124.1	124.1	122.3	121.6	120.7	127.4	129.0	119.0	104.8	102.2	101.5
127.5°	108.2	109.0	106.4	105.6	102.2	103.1	103.9	94.7	86.3	87.1	88.0
130°	94.7	94.7	92.3	90.5	85.5	81.3	79.6	73.8	70.3	73.8	76.3
132.5°	82.1	80.5	78.8	77.2	69.6	63.7	60.4	55.3	57.0	62.1	64.6
135°	68.7	67.9	65.3	64.6	57.0	47.8	42.0	40.2	45.3	51.2	52.8
137.5°	56.1	56.1	53.7	52.0	43.6	34.3	28.4	28.4	34.3	40.2	43.6
140°	44.5	44.5	42.0	40.2	32.7	23.4	17.5	18.4	25.2	31.0	33.5
142.5°	33.5	33.5	31.0	30.2	23.4	15.1	10.1	11.8	17.5	22.6	25.2
145°	24.3	23.4	21.7	21.0	15.1	9.3	5.0	6.6	10.9	15.1	17.5
147.5°	15.9	15.9	14.3	13.5	9.3	5.0	1.6	3.4	6.6	9.3	11.8
150°	9.3	9.3	8.4	7.5	5.0	1.6	0.0	1.6	3.4	5.0	6.6
152.5°	5.0	5.0	4.2	4.2	1.6	0.9	0.0	0.0	0.9	2.5	2.5
155°	1.6	1.6	1.6	1.6	0.9	0.0	0.0	0.0	0.0	0.9	0.9
157.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2	357.2
2.5°	358.9	356.3	351.2	347.0	342.9	337.9	335.3	332.8	331.1	329.5	329.5
5°	363.9	358.9	349.6	340.4	332.0	324.5	317.7	312.7	310.2	308.5	307.7
7.5°	374.8	367.1	352.0	337.9	325.2	313.5	304.3	296.8	292.6	290.1	289.3
10°	389.0	378.0	358.9	339.5	322.8	307.7	295.2	285.9	280.0	277.4	275.8
12.5°	408.3	394.9	369.7	345.4	323.6	305.2	289.3	279.2	273.3	269.9	269.9
15°	437.7	420.0	389.0	356.3	329.5	306.9	289.3	278.4	274.2	272.5	271.6
17.5°	471.2	450.9	413.3	375.6	341.1	312.7	296.8	290.1	284.3	281.7	281.7
20°	508.0	483.6	440.1	397.4	358.9	329.5	311.8	300.9	294.3	291.7	291.0
22.5°	544.9	519.8	468.6	420.0	377.3	351.2	326.2	312.7	304.3	300.9	300.2
25°	586.9	559.1	498.7	444.3	403.2	373.9	344.6	325.2	314.3	310.2	309.3
27.5°	632.0	599.3	532.3	470.4	428.4	393.9	361.3	335.3	324.5	319.3	318.5
30°	679.1	642.9	565.8	497.1	452.7	411.7	377.3	348.0	333.6	327.8	327.0
32.5°	728.4	685.8	602.0	529.0	475.4	427.6	390.7	359.6	342.1	335.3	335.3
35°	783.9	734.4	637.1	558.3	496.4	443.5	402.4	370.6	349.6	342.9	342.9
37.5°	836.6	783.1	674.8	590.1	515.5	456.1	411.7	380.6	357.2	348.7	348.7
40°	892.8	831.7	710.9	616.1	532.3	466.1	420.0	388.2	362.9	355.5	353.8
42.5°	947.4	880.2	749.5	642.9	546.6	474.5	426.8	394.9	368.0	358.9	358.0
45°	1004.3	928.8	786.3	664.7	558.3	480.4	430.1	399.0	373.9	362.1	360.5
47.5°	1053.8	975.0	822.4	684.1	567.5	483.6	432.5	402.4	377.3	363.9	362.1
50°	1103.2	1016.1	852.6	700.0	572.6	485.4	433.4	403.2	379.8	363.9	362.1
52.5°	1147.7	1054.6	878.5	710.9	575.0	484.5	432.5	403.2	380.6	362.1	360.5
55°	1184.5	1085.6	897.0	717.6	575.0	482.0	430.1	401.5	379.8	360.5	358.0
57.5°	1212.3	1106.6	909.5	719.4	571.0	477.0	425.8	399.0	377.3	357.2	353.8
60°	1229.1	1118.3	913.8	715.1	564.1	471.2	420.9	395.8	374.8	352.0	349.6
62.5°	1234.0	1119.9	909.5	706.6	555.0	462.7	413.3	389.9	369.7	346.2	343.7
65°	1225.6	1110.8	897.9	693.3	542.3	452.7	405.8	383.0	363.9	339.5	337.0
67.5°	1203.0	1090.6	876.8	674.8	528.2	441.0	397.4	375.6	357.2	332.0	327.0
70°	1169.5	1060.4	850.1	652.2	511.3	428.4	387.3	366.4	348.0	323.6	318.5
72.5°	1120.8	1019.3	814.9	624.5	492.1	414.9	374.8	355.5	337.9	313.5	306.9
75°	1062.2	966.5	772.9	596.0	472.0	399.0	362.1	343.7	326.2	301.8	295.9
77.5°	996.8	911.3	727.6	563.3	448.6	383.0	348.7	331.1	312.7	289.3	280.8
80°	925.6	846.7	678.2	529.8	426.8	365.5	333.6	316.9	298.4	275.8	266.5
82.5°	848.4	779.6	628.8	496.4	402.4	348.0	318.5	301.8	282.4	260.7	251.4
85°	772.9	710.9	576.7	460.2	378.9	329.5	301.8	285.0	267.4	244.8	236.4
87.5°	695.0	641.3	525.6	425.0	355.5	311.8	285.9	268.2	249.8	228.9	222.2
90°	627.0	576.0	477.9	391.5	331.1	292.6	269.1	250.6	233.1	213.0	207.1
92.5°	555.0	513.0	430.8	359.6	308.5	274.2	252.3	234.7	215.5	196.2	192.0
95°	492.9	458.6	388.2	327.8	284.3	256.6	235.5	217.1	197.8	179.4	176.8
97.5°	433.4	404.9	346.2	298.4	263.3	238.1	218.0	200.3	180.2	163.5	161.8
100°	380.6	355.5	308.5	271.6	240.6	220.4	201.9	183.7	163.5	147.5	147.5
102.5°	332.0	312.7	275.1	244.0	220.4	201.2	184.4	165.9	145.9	132.5	133.3
105°	292.6	274.2	243.1	219.6	200.3	182.7	166.8	148.4	129.0	118.1	119.0
107.5°	254.8	240.6	215.5	195.3	180.2	165.9	149.2	131.6	112.4	105.6	106.4
110°	222.2	211.2	191.1	174.5	162.7	149.2	134.1	115.7	98.1	94.0	94.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	193.7	184.4	169.3	155.9	144.2	133.3	117.4	100.6	83.8	82.1	82.1
115°	169.3	162.7	148.4	137.5	129.0	118.1	103.9	86.3	72.9	72.1	72.9
117.5°	148.4	142.6	130.8	121.6	114.1	103.9	90.5	73.8	62.1	62.9	63.7
120°	130.0	125.8	115.7	108.2	100.6	91.4	77.2	62.1	54.4	55.3	55.3
122.5°	114.9	110.6	102.2	94.7	88.0	78.8	66.3	52.0	46.9	48.6	48.6
125°	99.7	97.2	88.8	82.1	75.5	66.3	54.4	42.8	40.2	42.0	42.0
127.5°	86.3	84.7	78.0	70.3	63.7	55.3	44.5	35.3	34.3	36.0	36.0
130°	74.6	72.9	67.1	60.4	52.8	45.3	34.3	28.4	29.4	31.0	31.9
132.5°	63.7	62.9	57.0	49.4	42.8	35.3	26.8	23.4	25.2	26.8	26.8
135°	52.8	52.0	47.8	41.1	33.5	26.8	20.1	18.4	21.0	22.6	22.6
137.5°	43.6	42.0	38.5	31.9	25.2	19.3	14.3	15.1	16.8	18.4	18.4
140°	34.3	33.5	30.2	24.3	17.5	12.5	10.1	11.8	14.3	15.1	15.1
142.5°	25.2	25.2	21.7	16.8	10.9	7.5	6.6	8.4	10.9	11.8	11.8
145°	17.5	17.5	15.1	10.9	6.6	3.4	3.4	5.8	7.5	8.4	9.3
147.5°	11.8	10.9	9.3	6.6	3.4	0.9	1.6	4.2	5.0	5.8	5.8
150°	6.6	6.6	5.0	3.4	1.6	0.0	0.9	1.6	2.5	3.4	4.2
152.5°	2.5	2.5	1.6	0.9	0.9	0.0	0.0	0.0	0.9	1.6	1.6
155°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)