

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: P149636

Luminaire Tested: **TMU-F02-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149636
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: STREETWORKS
Catalog Number: TMU-F02-LED-E-U-SL2-HSS-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3106.4 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

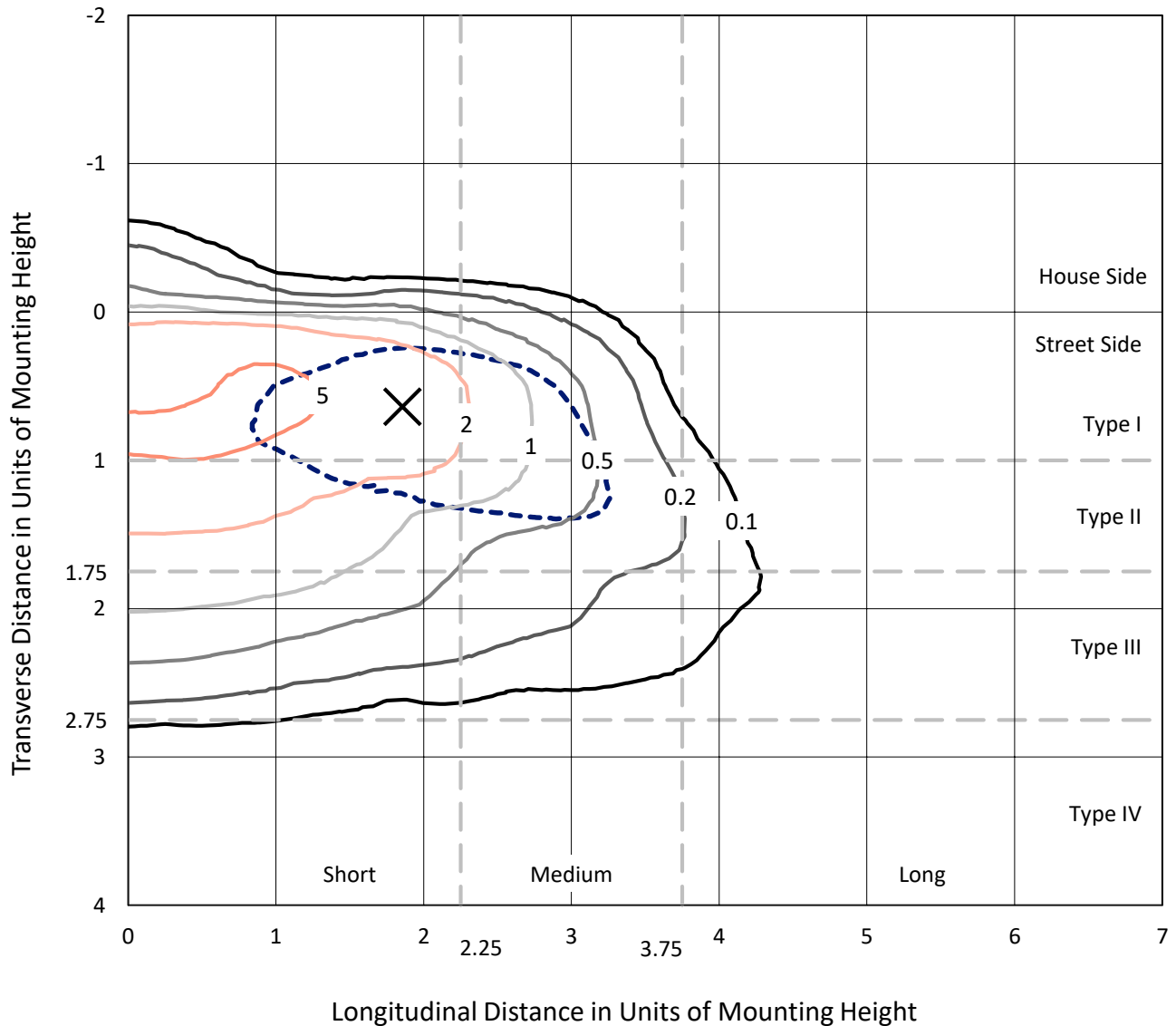
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

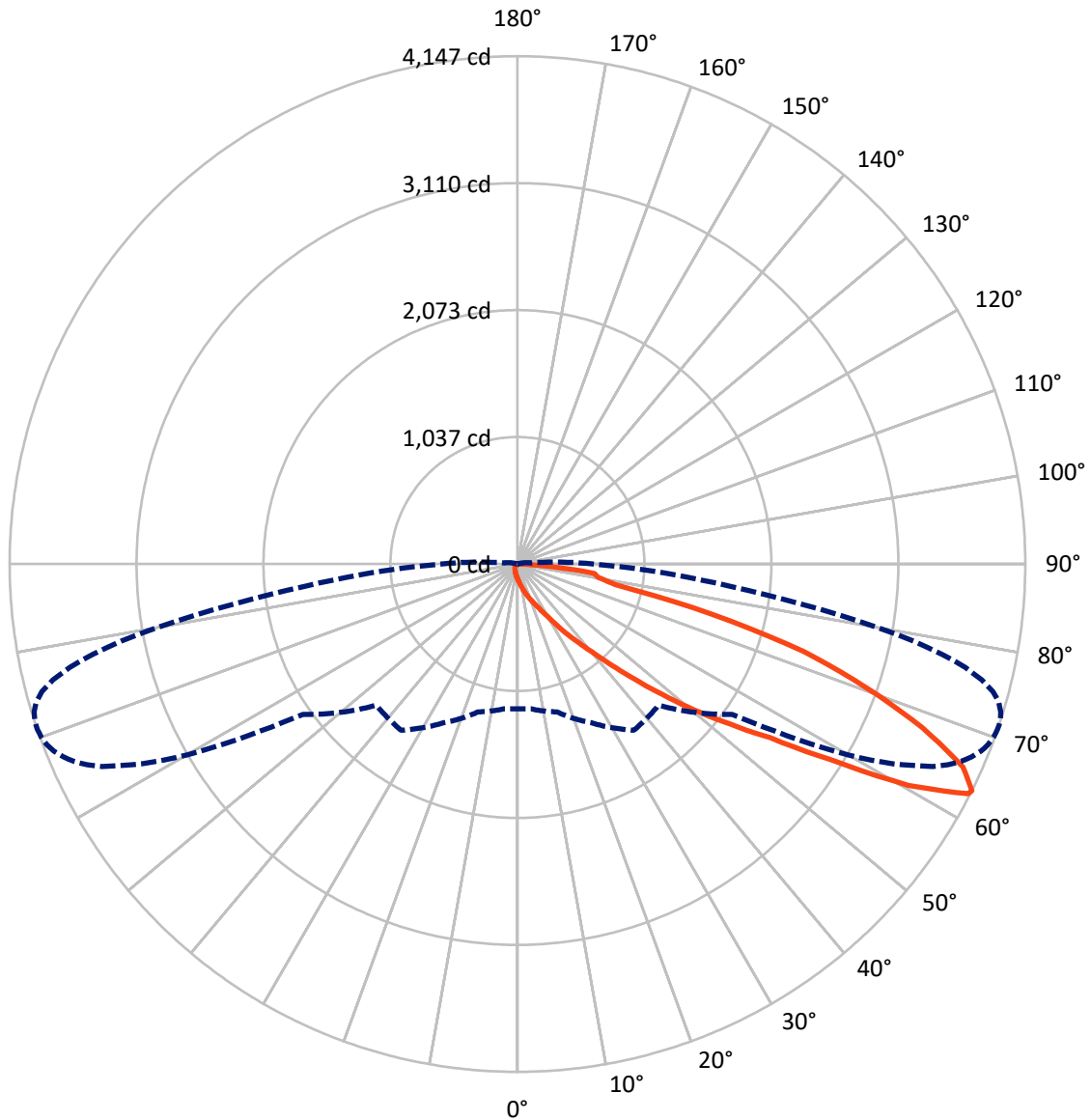
× Max cd
 - - - 1/2 Max cd



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	66.0	0.0	66.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3040.4	0.0	3040.4
	% Fixture	97.9	0.0	97.9
Total	Lumens	3106.4	0.0	3106.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.4
10°-20°	51.1	1.6
20°-30°	103.7	3.3
30°-40°	253.5	8.2
40°-50°	566.9	18.2
50°-60°	797.1	25.7
60°-70°	937.3	30.2
70°-80°	338.4	10.9
80°-90°	45.3	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°	3106.4	100.0
0°-180°	3106.4	100.0



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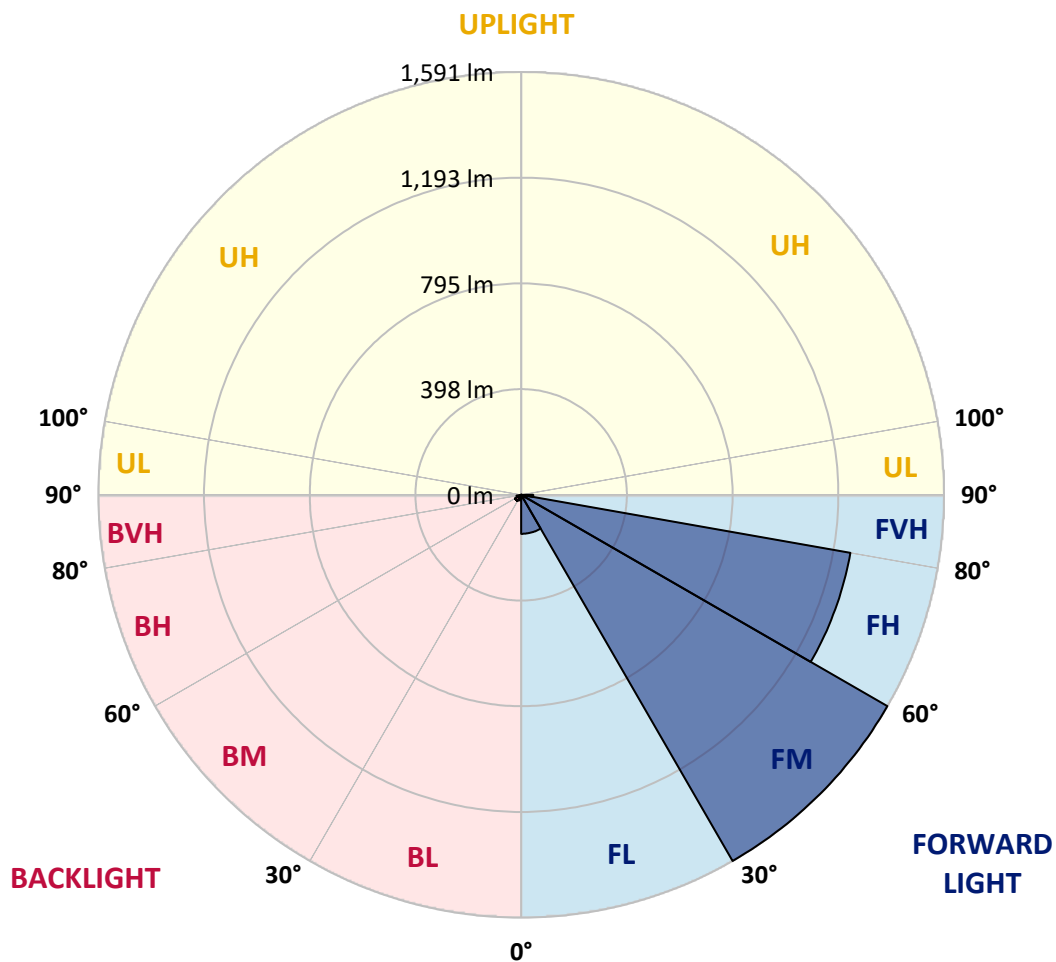
CATALOG NUMBER: TMU-F02-LED-E-U-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	146.8	4.7			
FM	(30°-60°)	1590.8	51.2			
FH	(60°-80°)	1257.6	40.5			G1/1800
FVH	(80°-90°)	45.2	1.5			G1/100
BL	(0°-30°)	21.2	0.7	B0/110		
BM	(30°-60°)	26.6	0.9	B0/220		
BH	(60°-80°)	18.1	0.6	B0/110		G0/110
BVH	(80°-90°)	0.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2
2.5°	155.9	157.6	156.4	153.6	150.2	145.7	141.7	141.7	141.2	139.5	140.0
5°	204.4	205.0	202.7	196.0	189.7	180.1	169.4	168.3	167.2	165.5	164.9
7.5°	251.9	254.1	251.9	244.5	232.1	217.4	200.5	198.8	195.4	195.4	193.1
10°	300.4	300.4	298.2	289.7	278.4	257.5	236.1	233.2	229.3	228.1	224.8
12.5°	334.9	334.9	333.7	329.2	320.2	301.6	275.6	272.8	267.7	266.0	262.0
15°	348.4	348.4	349.0	352.9	353.5	345.0	317.9	315.7	310.6	306.1	304.4
17.5°	356.9	356.3	356.3	362.0	372.1	377.8	360.3	358.0	352.4	350.1	344.5
20°	375.5	374.4	371.0	371.0	380.6	400.4	400.4	399.8	393.6	391.9	389.1
22.5°	403.2	402.1	391.9	383.4	388.0	412.8	436.0	434.8	432.6	430.3	428.6
25°	448.4	444.4	426.9	402.1	398.1	424.7	463.1	465.9	467.6	467.6	468.7
27.5°	516.7	511.6	480.6	434.3	416.8	443.9	493.0	498.6	503.7	504.9	509.9
30°	611.6	602.6	557.9	490.2	450.1	472.1	537.0	543.3	550.6	552.9	560.8
32.5°	767.5	762.4	719.4	617.8	532.0	527.4	598.6	606.5	616.1	620.1	629.7
35°	1004.6	1005.8	970.7	879.3	760.7	698.6	708.7	715.5	718.9	730.7	735.8
37.5°	1165.6	1168.4	1176.3	1140.2	1055.5	992.2	912.6	919.9	902.4	904.1	904.7
40°	1253.7	1262.7	1309.0	1344.0	1337.3	1300.5	1236.7	1240.7	1207.9	1200.6	1165.0
42.5°	1312.4	1324.3	1398.2	1506.7	1562.0	1595.3	1580.6	1578.9	1553.5	1543.9	1514.0
45°	1349.1	1359.8	1453.0	1612.8	1740.5	1837.6	1877.7	1882.2	1860.7	1851.1	1826.3
47.5°	1347.4	1359.8	1459.8	1652.4	1840.4	1995.7	2108.7	2114.3	2127.3	2118.8	2120.5
50°	1272.9	1284.7	1385.3	1585.2	1811.0	2068.0	2274.7	2292.8	2313.6	2327.8	2334.5
52.5°	1182.5	1191.0	1280.2	1470.0	1685.7	2038.1	2372.9	2404.0	2435.1	2461.6	2480.2
55°	1149.2	1158.8	1228.8	1386.4	1585.2	1912.7	2418.7	2464.4	2508.5	2552.0	2587.5
57.5°	1166.7	1175.7	1226.0	1346.9	1525.3	1780.6	2431.7	2502.8	2575.1	2645.7	2715.7
60°	1231.1	1240.7	1283.6	1383.6	1509.5	1704.3	2380.8	2498.9	2619.2	2742.3	2858.0
62.5°	1205.7	1209.6	1272.9	1447.9	1622.4	1639.4	2196.2	2361.1	2544.6	2734.4	2921.3
63°	1181.4	1185.9	1250.3	1430.4	1656.9	1629.8	2139.1	2313.1	2506.8	2711.2	2914.5
65°	1071.3	1071.8	1121.0	1263.3	1618.5	1646.7	1885.0	2051.1	2273.6	2518.6	2775.6
67.5°	799.6	795.7	843.1	951.5	1270.6	1647.3	1617.9	1711.1	1865.8	2083.2	2313.6
70°	283.5	277.3	354.1	504.3	791.7	1347.4	1390.3	1396.5	1439.5	1556.9	1701.5
72.5°	92.0	93.7	112.9	184.7	364.8	906.9	1258.8	1239.6	1228.3	1227.7	1246.9
75°	36.7	37.3	45.2	81.9	163.8	437.1	1102.3	1113.1	1117.0	1122.7	1128.9
77.5°	17.5	19.2	25.4	45.7	81.3	216.3	788.9	879.8	931.8	971.9	996.2
80°	6.2	7.3	14.1	28.2	37.8	99.4	415.6	501.5	577.7	676.0	760.7
82.5°	0.0	0.0	2.8	19.8	20.9	40.1	170.5	199.9	228.7	296.5	380.6
85°	0.0	0.0	0.0	5.6	6.2	6.8	57.6	69.5	77.9	90.9	105.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.7	3.4	8.5	13.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2
2.5°	138.9	138.4	138.4	137.2	136.7	135.5	135.0	133.3	132.7	132.7	132.7
5°	164.3	162.1	160.9	158.1	156.4	155.9	153.0	151.9	150.2	150.8	148.0
7.5°	192.6	188.6	186.9	183.0	181.8	177.9	176.8	173.9	172.2	168.9	167.7
10°	223.6	218.5	215.7	209.5	207.8	205.0	201.6	198.2	195.4	192.0	190.3
12.5°	259.2	254.7	252.4	244.0	240.0	236.1	231.5	227.0	222.5	219.7	215.7
15°	301.0	293.7	291.4	283.5	276.7	271.6	265.4	259.8	256.4	250.7	246.8
17.5°	342.2	334.9	333.2	321.3	314.0	310.6	303.8	296.5	290.3	284.6	278.4
20°	383.4	378.4	373.8	362.5	354.6	349.0	340.0	332.6	327.5	319.6	311.7
22.5°	424.7	419.6	416.2	404.3	397.0	389.1	381.2	373.3	365.9	356.3	347.3
25°	467.0	463.6	461.9	451.2	444.4	437.1	429.2	420.1	411.1	400.4	390.8
27.5°	511.1	512.2	508.8	506.6	499.2	494.1	481.7	475.5	468.7	455.7	443.9
30°	567.0	570.4	569.2	570.9	566.4	563.0	553.4	545.5	537.6	525.2	511.6
32.5°	637.6	642.1	644.3	650.6	648.3	647.2	644.3	633.0	627.4	605.9	600.3
35°	746.6	744.3	753.9	759.0	756.7	755.6	752.2	746.0	739.2	724.0	709.8
37.5°	888.3	890.6	893.9	883.8	877.0	876.4	866.3	860.1	850.5	833.5	816.6
40°	1148.1	1134.0	1118.1	1075.2	1056.6	1045.9	1015.9	1007.5	991.1	967.9	950.4
42.5°	1485.8	1471.7	1424.2	1352.5	1314.1	1261.0	1236.7	1206.8	1183.6	1145.8	1125.5
45°	1821.2	1780.6	1774.9	1691.3	1643.9	1573.9	1530.4	1480.1	1427.6	1377.9	1341.8
47.5°	2104.1	2095.1	2067.4	2016.6	1972.6	1913.8	1857.9	1780.6	1726.3	1655.8	1590.8
50°	2330.6	2330.0	2319.9	2290.5	2253.8	2206.3	2157.2	2091.7	2030.2	1943.8	1874.3
52.5°	2500.0	2509.0	2512.4	2503.4	2489.3	2447.5	2422.6	2367.9	2315.9	2242.5	2167.4
55°	2624.2	2657.6	2674.5	2693.7	2689.7	2675.1	2673.9	2638.4	2614.6	2556.5	2503.4
57.5°	2777.8	2832.6	2885.1	2978.3	2981.7	3014.5	3031.4	3048.3	3052.9	3029.7	3012.2
60°	2973.2	3085.0	3184.4	3379.3	3430.1	3510.3	3562.2	3618.7	3666.7	3670.7	3669.5
62.5°	3111.0	3283.3	3443.6	3732.8	3831.6	3924.2	3993.7	4048.5	4081.8	4115.7	4131.5
63°	3115.0	3303.6	3474.1	3772.3	3876.2	3964.3	4030.4	4081.2	4116.2	4136.6	4146.7
65°	3019.5	3248.3	3451.6	3748.6	3846.3	3934.9	3969.4	4002.7	4019.7	4027.6	3997.6
67.5°	2559.3	2782.9	3020.1	3352.2	3435.7	3541.9	3570.1	3587.1	3595.0	3593.3	3567.9
70°	1913.8	2101.3	2365.0	2744.5	2855.2	2959.1	3023.5	3051.2	3060.2	3057.4	3019.5
72.5°	1336.1	1446.2	1663.7	2086.1	2236.8	2370.1	2449.7	2491.0	2499.4	2482.5	2447.5
75°	1122.1	1127.7	1176.9	1407.8	1549.0	1691.3	1781.1	1807.1	1790.2	1738.8	1649.5
77.5°	1001.8	1014.2	1014.2	1048.7	1076.4	1115.9	1124.4	1061.1	987.7	892.8	816.0
80°	840.3	883.8	914.3	939.7	942.5	934.6	913.7	878.1	821.7	749.4	669.2
82.5°	510.5	596.3	631.4	762.4	826.7	870.2	866.8	819.4	776.5	701.4	633.0
85°	128.8	138.9	150.8	196.0	219.7	268.2	298.7	312.9	317.9	292.0	264.3
87.5°	12.4	8.5	14.1	10.7	15.2	11.3	15.2	14.1	17.5	18.6	20.3
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°	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2
2.5°	131.6	131.0	130.4	129.9	129.3	128.8	127.6	127.6	126.5	125.9	125.4
5°	146.3	145.1	144.6	143.4	141.7	140.6	138.9	136.7	135.0	134.4	133.3
7.5°	164.9	162.1	160.9	159.3	157.0	153.6	151.3	149.7	146.8	145.1	141.7
10°	185.8	183.0	179.6	176.2	172.8	168.9	166.0	163.8	159.3	157.0	153.0
12.5°	212.3	207.3	203.3	198.8	194.3	189.7	186.4	179.6	175.6	170.5	167.2
15°	239.4	234.9	230.4	224.8	218.0	210.6	207.3	201.0	196.0	188.1	183.5
17.5°	272.2	263.7	256.9	250.2	244.0	237.2	230.4	220.8	213.5	206.7	197.7
20°	304.4	294.2	286.9	277.8	268.8	258.1	250.2	243.4	233.2	224.2	214.6
22.5°	338.8	328.7	316.8	307.8	295.3	286.9	276.1	264.9	254.7	242.8	231.0
25°	380.6	369.9	356.3	344.5	330.4	318.5	305.5	292.5	280.1	266.5	251.3
27.5°	432.0	420.7	406.0	391.9	373.3	358.6	346.2	328.7	312.9	295.9	278.4
30°	497.0	484.5	466.5	446.1	427.5	411.1	393.6	370.5	352.9	332.6	310.0
32.5°	581.7	567.0	542.7	523.5	500.3	478.9	454.6	431.4	406.6	380.1	354.1
35°	688.4	674.8	646.6	618.4	593.0	567.5	537.0	510.5	475.5	443.3	410.0
37.5°	799.1	774.8	748.8	718.3	686.7	656.2	618.9	582.2	542.1	507.1	465.3
40°	925.6	896.2	874.7	842.0	797.4	753.9	719.4	673.7	623.4	576.6	527.4
42.5°	1098.9	1066.2	1027.8	978.1	945.9	895.1	850.5	796.3	730.2	677.7	618.4
45°	1299.4	1254.8	1217.5	1169.5	1130.6	1067.3	1015.4	943.1	877.0	808.1	735.8
47.5°	1528.1	1472.8	1418.6	1371.1	1309.0	1246.9	1180.8	1104.0	1019.3	943.6	857.8
50°	1790.7	1712.2	1637.1	1576.1	1490.9	1419.1	1347.4	1261.0	1167.3	1080.3	982.6
52.5°	2082.7	1991.8	1892.4	1798.6	1699.8	1607.7	1521.3	1422.0	1317.5	1211.3	1102.3
55°	2435.1	2366.7	2249.8	2130.7	1998.5	1875.4	1764.2	1641.1	1514.0	1374.5	1259.9
57.5°	2986.8	2953.5	2855.8	2736.6	2564.4	2414.7	2226.1	2075.3	1891.2	1699.2	1551.3
60°	3734.5	3693.2	3638.5	3541.9	3405.2	3201.9	2994.1	2759.8	2479.7	2213.7	1961.3
62.5°	4133.2	4118.5	4073.9	4007.2	3879.6	3719.2	3509.7	3252.2	2936.0	2612.9	2291.1
63°	4145.0	4126.4	4088.0	4020.2	3907.8	3752.5	3547.0	3296.8	2987.4	2658.1	2329.5
65°	3984.6	3977.3	3938.3	3864.4	3787.6	3669.0	3509.7	3294.6	3034.8	2723.6	2396.7
67.5°	3534.0	3512.0	3452.1	3429.5	3375.9	3293.4	3172.0	3024.1	2838.3	2593.7	2311.4
70°	2989.0	2956.3	2881.2	2841.1	2775.6	2723.6	2649.7	2544.1	2429.4	2258.9	2048.2
72.5°	2411.3	2343.6	2274.7	2170.2	2078.7	1986.1	1904.2	1829.7	1703.8	1634.9	1475.0
75°	1566.0	1442.9	1324.8	1166.7	1024.4	898.5	775.9	713.8	584.5	532.0	456.9
77.5°	743.2	674.3	581.7	509.9	418.5	341.7	279.0	209.5	164.3	128.8	98.3
80°	599.7	541.6	485.7	420.7	351.8	280.7	215.2	160.9	114.1	79.1	55.9
82.5°	534.8	471.5	402.6	358.0	311.2	254.7	208.9	170.5	125.9	92.0	62.7
85°	207.8	175.1	135.0	110.1	85.8	70.6	63.8	44.0	34.4	27.1	20.9
87.5°	18.1	14.7	11.9	7.9	8.5	4.5	5.1	3.4	2.8	2.8	2.3
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°	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2	119.2
2.5°	124.8	124.2	123.7	122.5	122.5	121.4	120.8	120.3	117.5	111.2	106.2
5°	131.0	129.9	128.8	127.1	125.9	124.2	123.1	121.4	115.2	103.3	93.2
7.5°	140.0	137.8	136.1	132.7	131.0	128.8	127.1	124.2	114.1	96.0	81.9
10°	150.8	146.8	144.0	140.0	136.7	133.8	131.0	127.1	112.9	88.1	71.7
12.5°	163.8	159.3	153.6	149.1	144.6	140.6	136.7	131.6	111.2	81.3	63.8
15°	176.8	170.0	166.0	159.8	153.6	148.0	142.3	137.8	111.8	74.0	57.0
17.5°	191.4	184.7	176.2	169.4	162.6	155.3	148.5	139.5	109.0	68.3	52.0
20°	205.6	196.0	188.1	179.6	170.0	160.9	152.5	144.6	106.7	62.7	47.4
22.5°	220.8	209.5	199.3	188.6	176.8	166.6	156.4	146.3	102.8	57.6	43.5
25°	239.4	226.5	211.8	198.8	186.4	173.9	160.9	148.5	98.8	53.1	40.7
27.5°	262.0	245.1	230.4	214.0	196.5	180.7	166.6	153.0	94.9	49.7	37.8
30°	290.8	271.1	250.2	229.3	210.6	192.6	172.8	155.9	90.9	46.3	35.0
32.5°	329.2	304.4	279.0	254.7	229.8	206.7	185.8	163.8	88.7	43.5	32.2
35°	380.1	347.9	316.8	286.3	256.4	228.1	201.0	176.2	88.7	40.1	28.8
37.5°	428.1	390.8	351.3	313.4	277.8	245.1	212.9	183.0	84.1	37.3	26.0
40°	480.0	435.4	389.1	344.5	301.6	260.9	224.2	189.7	80.2	33.9	23.2
42.5°	559.6	503.2	442.7	390.8	339.4	289.1	243.4	202.7	75.1	30.5	20.3
45°	664.1	592.4	521.2	458.0	392.5	330.9	276.7	226.5	74.0	27.7	17.5
47.5°	775.9	691.2	607.6	526.9	450.1	378.4	313.4	253.0	74.0	24.8	15.2
50°	887.2	781.0	691.8	598.0	511.6	426.9	349.6	280.7	74.5	22.6	12.4
52.5°	987.7	874.2	774.2	665.8	570.4	472.1	388.0	307.8	73.4	19.8	10.2
55°	1127.2	993.9	878.1	758.4	646.6	535.9	440.5	348.4	74.0	17.5	8.5
57.5°	1384.1	1227.7	1088.2	931.2	802.5	659.6	543.8	432.0	80.8	14.7	6.2
60°	1752.9	1549.6	1353.6	1162.2	998.4	828.4	678.2	546.6	94.9	11.9	4.5
62.5°	2000.8	1734.8	1501.0	1289.8	1099.5	921.6	757.9	608.2	104.5	9.6	2.8
63°	2026.2	1751.2	1516.3	1298.3	1104.0	926.1	761.2	612.7	105.0	9.0	2.8
65°	2074.2	1779.4	1524.7	1300.0	1099.5	919.9	759.0	612.2	106.2	7.3	2.3
67.5°	2019.4	1735.9	1475.6	1251.4	1060.0	883.2	730.7	589.6	105.6	5.1	1.7
70°	1806.0	1571.0	1342.3	1133.4	959.5	799.6	665.2	537.6	97.1	3.4	1.1
72.5°	1326.0	1166.1	988.8	838.0	722.8	600.3	512.2	403.8	75.1	2.3	0.6
75°	393.0	358.0	301.0	265.4	234.4	193.7	172.2	134.4	38.4	1.1	0.0
77.5°	78.5	71.2	63.8	58.2	54.8	46.9	44.6	36.7	15.8	0.6	0.0
80°	41.2	33.9	28.8	25.4	22.0	18.1	15.2	12.4	2.8	0.0	0.0
82.5°	39.5	26.5	19.2	15.8	13.6	10.7	8.5	6.2	1.7	0.0	0.0
85°	14.7	11.3	8.5	6.8	5.6	5.1	4.0	3.4	0.0	0.0	0.0
87.5°	2.3	1.7	1.7	1.1	1.1	0.6	0.6	0.6	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°	119.2	119.2	119.2	119.2	119.2	119.2	119.2
2.5°	101.1	96.6	94.3	91.5	91.5	90.9	92.0
5°	84.1	77.9	73.4	70.0	70.6	68.9	69.5
7.5°	71.2	64.9	61.0	58.7	58.2	57.6	57.6
10°	61.6	55.9	52.5	50.8	50.3	50.3	50.3
12.5°	54.8	49.1	46.3	45.2	45.2	44.6	44.6
15°	49.1	44.6	41.8	40.7	40.7	40.1	40.7
17.5°	44.6	40.1	37.8	36.7	36.7	36.1	36.1
20°	40.7	36.7	34.4	32.8	32.8	32.2	32.8
22.5°	37.3	33.3	30.5	29.4	28.8	28.2	28.8
25°	33.9	29.9	27.1	25.4	24.8	24.8	24.3
27.5°	31.1	27.1	23.7	22.0	21.5	21.5	20.9
30°	28.2	23.7	20.3	18.6	18.1	18.1	18.1
32.5°	25.4	20.3	17.5	15.8	15.2	15.2	15.2
35°	22.6	17.5	14.7	13.0	12.4	12.4	12.4
37.5°	19.2	14.7	11.3	10.2	9.6	9.0	9.0
40°	16.4	11.3	8.5	7.3	6.2	6.2	6.2
42.5°	13.6	9.0	6.2	4.5	4.0	3.4	4.0
45°	11.3	6.8	4.0	2.3	1.7	1.7	1.7
47.5°	9.0	4.5	1.7	0.6	0.6	0.6	0.6
50°	6.8	2.8	0.6	0.0	0.0	0.6	0.6
52.5°	5.1	1.7	0.0	0.0	0.0	0.0	0.0
55°	2.8	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	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)