

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: P149631

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149631  
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-E02-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: (42) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

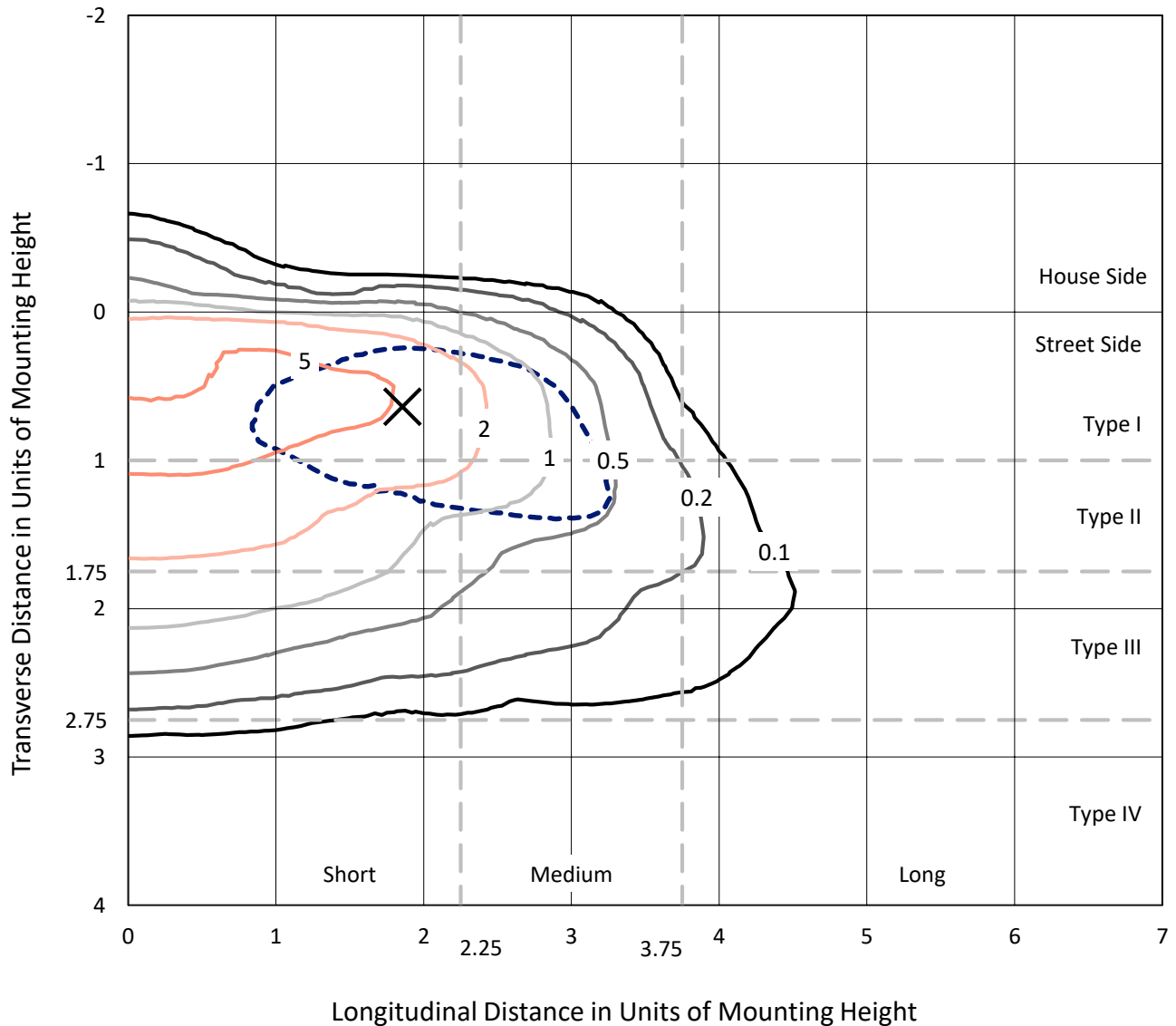
Lumens per Lamp: N/A  
Luminaire Lumens: 3762.9 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (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

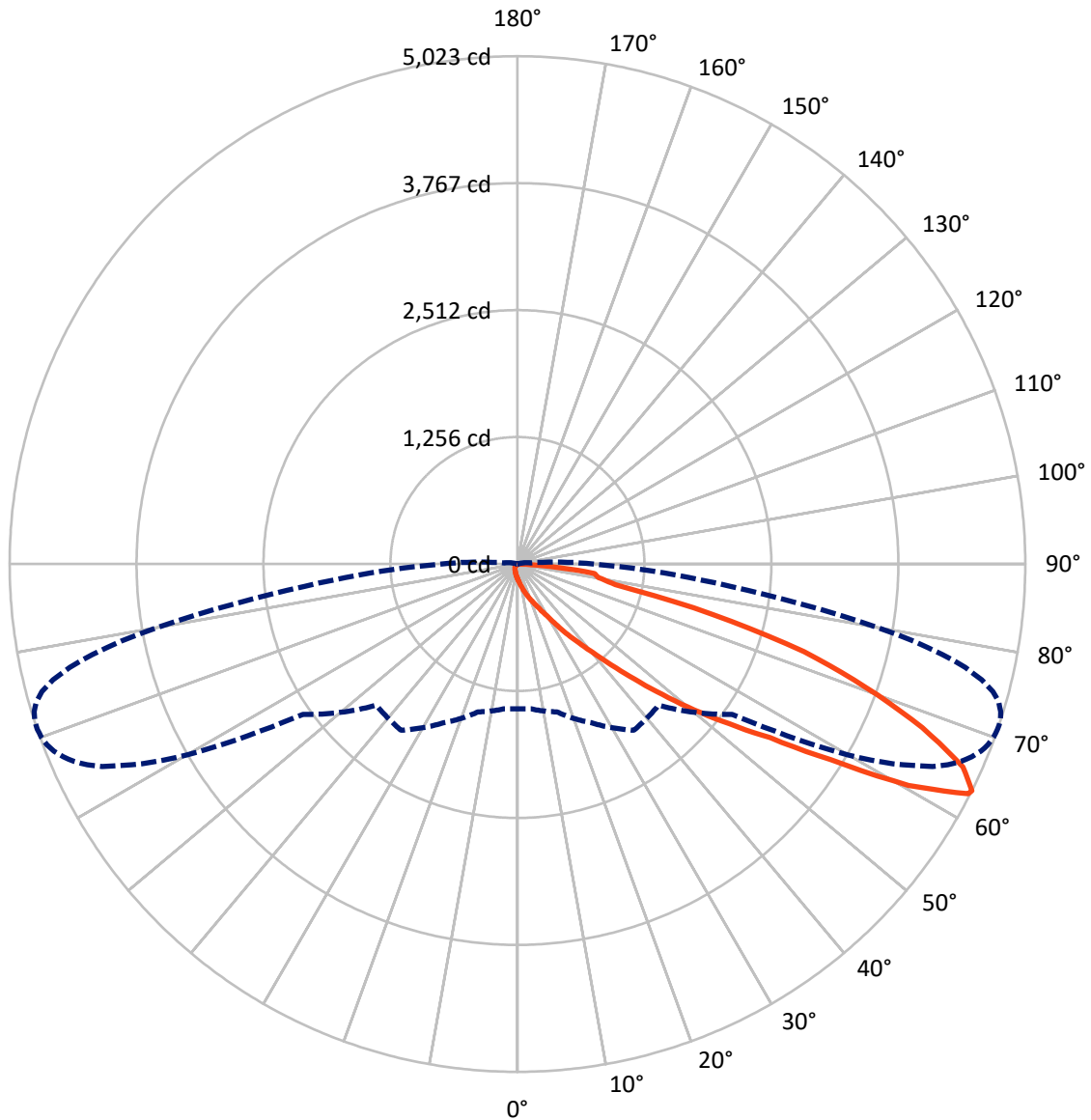
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	79.9	0.0	79.9
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	3683.0	0.0	3683.0
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	3762.9	0.0	3762.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.0	0.4
10°-20°	61.9	1.6
20°-30°	125.7	3.3
30°-40°	307.0	8.2
40°-50°	686.7	18.2
50°-60°	965.5	25.7
60°-70°	1135.4	30.2
70°-80°	410.0	10.9
80°-90°	54.8	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°	3762.9	100.0
0°-180°	3762.9	100.0

**Coefficient of Utilization**



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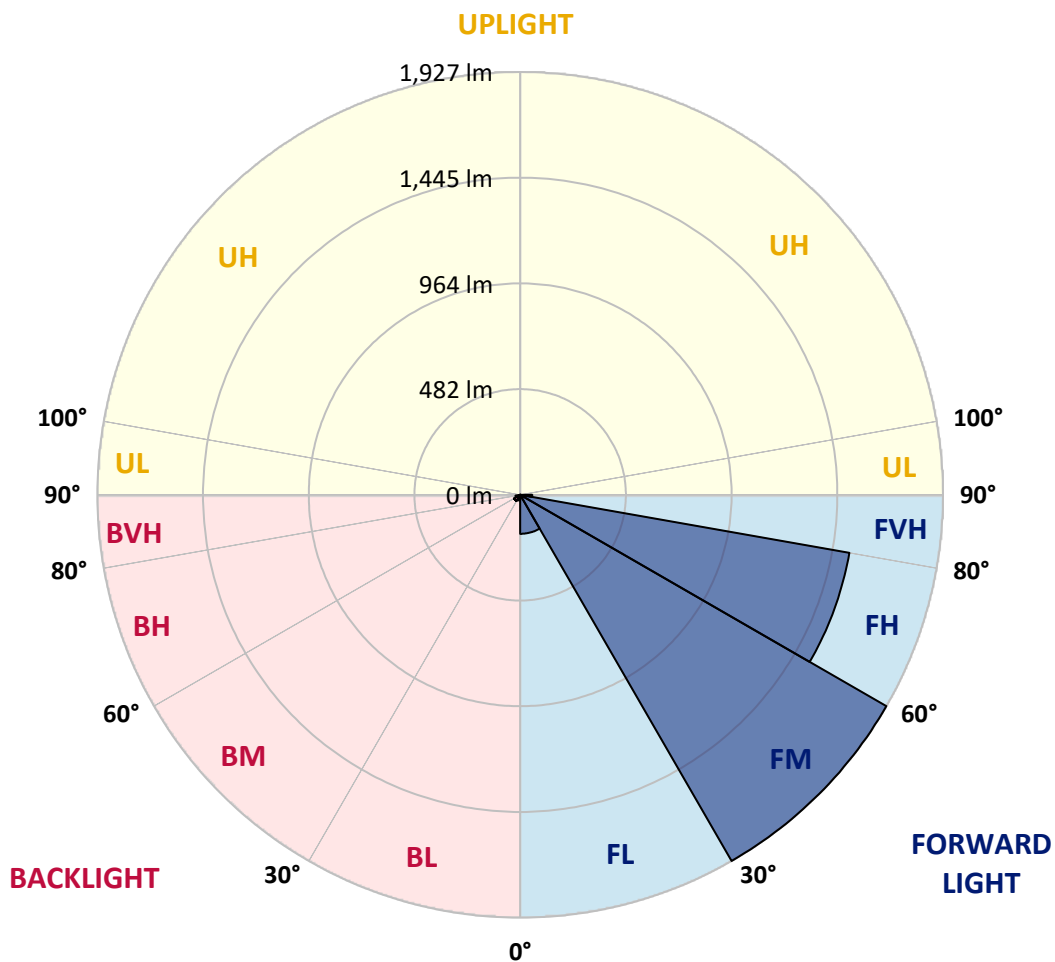
CATALOG NUMBER: TMU-E02-LED-E-U-SL2-HSS-7050

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.8	4.7			
FM	(30°-60°)	1927.0	51.2			
FH	(60°-80°)	1523.4	40.5			G1/1800
FVH	(80°-90°)	54.7	1.5			G1/100
BL	(0°-30°)	25.7	0.7	B0/110		
BM	(30°-60°)	32.2	0.9	B0/220		
BH	(60°-80°)	21.9	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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	188.8	190.9	189.5	186.1	182.0	176.5	171.7	171.7	171.0	169.0	169.6
5°	247.6	248.3	245.6	237.4	229.8	218.2	205.2	203.9	202.5	200.4	199.7
7.5°	305.1	307.8	305.1	296.2	281.2	263.4	242.8	240.8	236.7	236.7	234.0
10°	363.9	363.9	361.2	350.9	337.2	311.9	285.9	282.5	277.7	276.4	272.3
12.5°	405.7	405.7	404.3	398.8	387.9	365.3	333.8	330.4	324.2	322.2	317.4
15°	422.1	422.1	422.8	427.5	428.2	418.0	385.1	382.4	376.2	370.8	368.7
17.5°	432.3	431.6	431.6	438.5	450.8	457.6	436.4	433.7	426.9	424.1	417.3
20°	454.9	453.5	449.4	449.4	461.1	485.0	485.0	484.3	476.8	474.7	471.3
22.5°	488.4	487.1	474.7	464.5	470.0	500.1	528.1	526.7	524.0	521.3	519.2
25°	543.2	538.4	517.2	487.1	482.3	514.4	560.9	564.4	566.4	566.4	567.8
27.5°	625.9	619.8	582.1	526.1	504.8	537.7	597.2	604.0	610.2	611.6	617.7
30°	740.8	729.9	675.9	593.8	545.2	571.9	650.6	658.1	667.0	669.7	679.3
32.5°	929.7	923.5	871.5	748.4	644.4	638.9	725.1	734.7	746.3	751.1	762.7
35°	1217.0	1218.3	1175.9	1065.1	921.4	846.2	858.5	866.7	870.8	885.2	891.3
37.5°	1411.9	1415.3	1424.9	1381.1	1278.5	1201.9	1105.5	1114.4	1093.1	1095.2	1095.9
40°	1518.6	1529.6	1585.7	1628.1	1619.9	1575.4	1498.1	1502.9	1463.2	1454.3	1411.2
42.5°	1589.8	1604.1	1693.8	1825.1	1892.1	1932.5	1914.7	1912.7	1881.9	1870.2	1834.0
45°	1634.2	1647.2	1760.1	1953.7	2108.3	2226.0	2274.5	2280.0	2254.0	2242.4	2212.3
47.5°	1632.2	1647.2	1768.3	2001.6	2229.4	2417.5	2554.3	2561.2	2576.9	2566.6	2568.7
50°	1541.9	1556.3	1678.0	1920.2	2193.8	2505.1	2755.4	2777.3	2802.6	2819.7	2827.9
52.5°	1432.4	1442.7	1550.8	1780.6	2041.9	2468.8	2874.5	2912.1	2949.7	2981.9	3004.4
55°	1392.1	1403.7	1488.5	1679.4	1920.2	2316.9	2929.9	2985.3	3038.6	3091.3	3134.4
57.5°	1413.3	1424.2	1485.1	1631.5	1847.7	2156.9	2945.6	3031.8	3119.4	3204.9	3289.7
60°	1491.3	1502.9	1554.9	1676.0	1828.5	2064.5	2884.0	3027.0	3172.7	3321.8	3462.1
62.5°	1460.5	1465.3	1541.9	1754.0	1965.3	1985.9	2660.3	2860.1	3082.4	3312.3	3538.7
63°	1431.1	1436.5	1514.5	1732.8	2007.1	1974.2	2591.3	2802.0	3036.6	3284.2	3530.5
65°	1297.7	1298.4	1357.9	1530.3	1960.5	1994.7	2283.4	2484.5	2754.1	3051.0	3362.2
67.5°	968.6	963.9	1021.3	1152.7	1539.2	1995.4	1959.9	2072.7	2260.2	2523.5	2802.6
70°	343.4	335.9	428.9	610.9	959.1	1632.2	1684.2	1691.7	1743.7	1886.0	2061.1
72.5°	111.5	113.6	136.8	223.7	441.9	1098.6	1524.8	1501.5	1487.9	1487.2	1510.4
75°	44.5	45.1	54.7	99.2	198.4	529.5	1335.3	1348.3	1353.1	1359.9	1367.5
77.5°	21.2	23.3	30.8	55.4	98.5	262.0	955.6	1065.8	1128.7	1177.3	1206.7
80°	7.5	8.9	17.1	34.2	45.8	120.4	503.5	607.5	699.8	818.8	921.4
82.5°	0.0	0.0	3.4	23.9	25.3	48.6	206.6	242.2	277.0	359.1	461.1
85°	0.0	0.0	0.0	6.8	7.5	8.2	69.8	84.1	94.4	110.1	127.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	4.1	10.3	15.7
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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	168.3	167.6	167.6	166.2	165.5	164.2	163.5	161.4	160.8	160.8	160.8
5°	199.1	196.3	195.0	191.5	189.5	188.8	185.4	184.0	182.0	182.6	179.2
7.5°	233.3	228.5	226.4	221.6	220.3	215.5	214.1	210.7	208.6	204.5	203.2
10°	270.9	264.7	261.3	253.8	251.7	248.3	244.2	240.1	236.7	232.6	230.5
12.5°	314.0	308.5	305.8	295.5	290.7	285.9	280.5	275.0	269.5	266.1	261.3
15°	364.6	355.7	353.0	343.4	335.2	329.0	321.5	314.7	310.6	303.7	298.9
17.5°	414.5	405.7	403.6	389.2	380.3	376.2	368.0	359.1	351.6	344.8	337.2
20°	464.5	458.3	452.9	439.2	429.6	422.8	411.8	402.9	396.8	387.2	377.6
22.5°	514.4	508.3	504.2	489.8	480.9	471.3	461.7	452.2	443.3	431.6	420.7
25°	565.7	561.6	559.6	546.6	538.4	529.5	519.9	508.9	498.0	485.0	473.4
27.5°	619.1	620.5	616.3	613.6	604.7	598.6	583.5	576.0	567.8	552.0	537.7
30°	686.8	690.9	689.5	691.6	686.1	682.0	670.4	660.8	651.2	636.2	619.8
32.5°	772.3	777.8	780.5	788.0	785.3	783.9	780.5	766.8	760.0	734.0	727.2
35°	904.3	901.6	913.2	919.4	916.7	915.3	911.2	903.7	895.4	877.0	859.9
37.5°	1076.0	1078.8	1082.9	1070.6	1062.4	1061.7	1049.4	1041.8	1030.2	1009.7	989.2
40°	1390.7	1373.6	1354.5	1302.5	1279.9	1266.9	1230.6	1220.4	1200.5	1172.5	1151.3
42.5°	1799.8	1782.7	1725.2	1638.3	1591.8	1527.5	1498.1	1461.9	1433.8	1388.0	1363.4
45°	2206.1	2156.9	2150.0	2048.8	1991.3	1906.5	1853.8	1792.9	1729.3	1669.1	1625.4
47.5°	2548.8	2537.9	2504.4	2442.8	2389.5	2318.3	2250.6	2156.9	2091.2	2005.7	1927.0
50°	2823.2	2822.5	2810.2	2774.6	2730.1	2672.7	2613.1	2533.8	2459.2	2354.6	2270.4
52.5°	3028.4	3039.3	3043.4	3032.5	3015.4	2964.8	2934.7	2868.3	2805.4	2716.4	2625.5
55°	3178.9	3219.2	3239.8	3263.0	3258.2	3240.4	3239.1	3196.0	3167.2	3096.8	3032.5
57.5°	3364.9	3431.3	3494.9	3607.8	3611.9	3651.6	3672.1	3692.6	3698.1	3670.0	3648.8
60°	3601.6	3737.1	3857.5	4093.5	4155.0	4252.2	4315.1	4383.5	4441.7	4446.5	4445.1
62.5°	3768.5	3977.2	4171.5	4521.7	4641.4	4753.6	4837.7	4904.1	4944.5	4985.5	5004.7
63°	3773.3	4001.8	4208.4	4569.6	4695.5	4802.2	4882.2	4943.8	4986.2	5010.8	5023.1
65°	3657.7	3934.8	4181.0	4540.9	4659.2	4766.6	4808.3	4848.7	4869.2	4878.8	4842.5
67.5°	3100.2	3371.1	3658.4	4060.6	4161.9	4290.5	4324.7	4345.2	4354.8	4352.7	4322.0
70°	2318.3	2545.4	2864.9	3324.6	3458.7	3584.5	3662.5	3696.0	3707.0	3703.6	3657.7
72.5°	1618.5	1751.9	2015.3	2527.0	2709.6	2871.0	2967.5	3017.4	3027.7	3007.2	2964.8
75°	1359.2	1366.1	1425.6	1705.4	1876.4	2048.8	2157.6	2189.0	2168.5	2106.3	1998.2
77.5°	1213.5	1228.6	1228.6	1270.3	1303.8	1351.7	1362.0	1285.4	1196.4	1081.5	988.5
80°	1017.9	1070.6	1107.5	1138.3	1141.7	1132.1	1106.8	1063.7	995.3	907.8	810.6
82.5°	618.4	722.4	764.8	923.5	1001.5	1054.2	1050.0	992.6	940.6	849.6	766.8
85°	156.0	168.3	182.6	237.4	266.1	324.9	361.9	379.0	385.1	353.7	320.1
87.5°	15.0	10.3	17.1	13.0	18.5	13.7	18.5	17.1	21.2	22.6	24.6
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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	159.4	158.7	158.0	157.3	156.7	156.0	154.6	154.6	153.2	152.5	151.9
5°	177.2	175.8	175.1	173.8	171.7	170.3	168.3	165.5	163.5	162.8	161.4
7.5°	199.7	196.3	195.0	192.9	190.2	186.1	183.3	181.3	177.9	175.8	171.7
10°	225.1	221.6	217.5	213.4	209.3	204.5	201.1	198.4	192.9	190.2	185.4
12.5°	257.2	251.1	246.3	240.8	235.3	229.8	225.7	217.5	212.7	206.6	202.5
15°	290.0	284.6	279.1	272.3	264.1	255.2	251.1	243.5	237.4	227.8	222.3
17.5°	329.7	319.5	311.3	303.0	295.5	287.3	279.1	267.5	258.6	250.4	239.4
20°	368.7	356.4	347.5	336.6	325.6	312.6	303.0	294.8	282.5	271.6	259.9
22.5°	410.4	398.1	383.8	372.8	357.8	347.5	334.5	320.8	308.5	294.2	279.8
25°	461.1	448.1	431.6	417.3	400.2	385.8	370.1	354.3	339.3	322.9	304.4
27.5°	523.3	509.6	491.8	474.7	452.2	434.4	419.3	398.1	379.0	358.5	337.2
30°	602.0	586.9	565.0	540.4	517.8	498.0	476.8	448.8	427.5	402.9	375.6
32.5°	704.6	686.8	657.4	634.1	606.1	580.1	550.7	522.6	492.5	460.4	428.9
35°	833.9	817.5	783.3	749.1	718.3	687.5	650.6	618.4	576.0	537.0	496.6
37.5°	968.0	938.5	907.1	870.1	831.8	794.9	749.7	705.3	656.7	614.3	563.7
40°	1121.2	1085.6	1059.6	1019.9	965.9	913.2	871.5	816.1	755.2	698.4	638.9
42.5°	1331.2	1291.5	1245.0	1184.8	1145.8	1084.3	1030.2	964.5	884.5	820.9	749.1
45°	1574.0	1520.0	1474.9	1416.7	1369.5	1292.9	1230.0	1142.4	1062.4	978.9	891.3
47.5°	1851.1	1784.1	1718.4	1660.9	1585.7	1510.4	1430.4	1337.4	1234.7	1143.1	1039.1
50°	2169.2	2074.1	1983.1	1909.2	1805.9	1719.1	1632.2	1527.5	1414.0	1308.6	1190.3
52.5°	2522.9	2412.7	2292.3	2178.8	2059.1	1947.5	1842.9	1722.5	1595.9	1467.3	1335.3
55°	2949.7	2866.9	2725.3	2581.0	2420.9	2271.8	2137.0	1987.9	1834.0	1665.0	1526.2
57.5°	3618.0	3577.7	3459.3	3315.0	3106.4	2925.1	2696.6	2514.0	2291.0	2058.4	1879.1
60°	4523.8	4473.8	4407.5	4290.5	4124.9	3878.7	3626.9	3343.1	3003.8	2681.6	2375.8
62.5°	5006.7	4988.9	4934.9	4854.2	4699.6	4505.3	4251.5	3939.6	3556.5	3165.2	2775.3
63°	5021.1	4998.5	4952.0	4869.9	4733.8	4545.6	4296.6	3993.6	3618.7	3219.9	2821.8
65°	4826.8	4817.9	4770.7	4681.1	4588.1	4444.4	4251.5	3990.9	3676.2	3299.3	2903.2
67.5°	4280.9	4254.2	4181.7	4154.4	4089.4	3989.5	3842.4	3663.2	3438.1	3141.9	2799.9
70°	3620.8	3581.1	3490.1	3441.6	3362.2	3299.3	3209.7	3081.7	2942.9	2736.3	2481.1
72.5°	2921.0	2838.9	2755.4	2628.9	2518.1	2405.9	2306.7	2216.4	2063.8	1980.4	1786.8
75°	1896.9	1747.8	1604.8	1413.3	1240.9	1088.4	939.9	864.7	708.0	644.4	553.4
77.5°	900.2	816.8	704.6	617.7	506.9	413.9	337.9	253.8	199.1	156.0	119.0
80°	726.5	656.0	588.3	509.6	426.2	340.0	260.6	195.0	138.2	95.8	67.7
82.5°	647.8	571.2	487.7	433.7	376.9	308.5	253.1	206.6	152.5	111.5	75.9
85°	251.7	212.1	163.5	133.4	104.0	85.5	77.3	53.4	41.7	32.8	25.3
87.5°	21.9	17.8	14.4	9.6	10.3	5.5	6.2	4.1	3.4	3.4	2.7
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):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	151.2	150.5	149.8	148.4	148.4	147.1	146.4	145.7	142.3	134.8	128.6
5°	158.7	157.3	156.0	153.9	152.5	150.5	149.1	147.1	139.6	125.2	112.9
7.5°	169.6	166.9	164.9	160.8	158.7	156.0	153.9	150.5	138.2	116.3	99.2
10°	182.6	177.9	174.4	169.6	165.5	162.1	158.7	153.9	136.8	106.7	86.9
12.5°	198.4	192.9	186.1	180.6	175.1	170.3	165.5	159.4	134.8	98.5	77.3
15°	214.1	205.9	201.1	193.6	186.1	179.2	172.4	166.9	135.4	89.6	69.1
17.5°	231.9	223.7	213.4	205.2	197.0	188.1	179.9	169.0	132.0	82.8	62.9
20°	249.0	237.4	227.8	217.5	205.9	195.0	184.7	175.1	129.3	75.9	57.5
22.5°	267.5	253.8	241.5	228.5	214.1	201.8	189.5	177.2	124.5	69.8	52.7
25°	290.0	274.3	256.5	240.8	225.7	210.7	195.0	179.9	119.7	64.3	49.3
27.5°	317.4	296.9	279.1	259.3	238.1	218.9	201.8	185.4	114.9	60.2	45.8
30°	352.3	328.4	303.0	277.7	255.2	233.3	209.3	188.8	110.1	56.1	42.4
32.5°	398.8	368.7	337.9	308.5	278.4	250.4	225.1	198.4	107.4	52.7	39.0
35°	460.4	421.4	383.8	346.8	310.6	276.4	243.5	213.4	107.4	48.6	34.9
37.5°	518.5	473.4	425.5	379.7	336.6	296.9	257.9	221.6	101.9	45.1	31.5
40°	581.5	527.4	471.3	417.3	365.3	316.0	271.6	229.8	97.1	41.0	28.0
42.5°	677.9	609.5	536.3	473.4	411.1	350.2	294.8	245.6	91.0	36.9	24.6
45°	804.5	717.6	631.4	554.8	475.4	400.9	335.2	274.3	89.6	33.5	21.2
47.5°	939.9	837.3	736.1	638.2	545.2	458.3	379.7	306.5	89.6	30.1	18.5
50°	1074.7	946.1	838.0	724.4	619.8	517.2	423.4	340.0	90.3	27.4	15.0
52.5°	1196.4	1058.9	937.9	806.5	690.9	571.9	470.0	372.8	88.9	23.9	12.3
55°	1365.4	1204.0	1063.7	918.7	783.3	649.2	533.6	422.1	89.6	21.2	10.3
57.5°	1676.7	1487.2	1318.2	1128.0	972.1	799.0	658.8	523.3	97.8	17.8	7.5
60°	2123.4	1877.1	1639.7	1407.8	1209.4	1003.5	821.6	662.2	114.9	14.4	5.5
62.5°	2423.7	2101.5	1818.3	1562.4	1331.9	1116.4	918.0	736.7	126.6	11.6	3.4
63°	2454.4	2121.3	1836.7	1572.7	1337.4	1121.9	922.1	742.2	127.2	10.9	3.4
65°	2512.6	2155.5	1847.0	1574.7	1331.9	1114.4	919.4	741.5	128.6	8.9	2.7
67.5°	2446.2	2102.8	1787.5	1515.9	1284.0	1069.9	885.2	714.2	127.9	6.2	2.1
70°	2187.7	1903.1	1626.0	1372.9	1162.2	968.6	805.8	651.2	117.7	4.1	1.4
72.5°	1606.2	1412.6	1197.8	1015.2	875.6	727.2	620.5	489.1	91.0	2.7	0.7
75°	476.1	433.7	364.6	321.5	283.9	234.6	208.6	162.8	46.5	1.4	0.0
77.5°	95.1	86.2	77.3	70.5	66.4	56.8	54.0	44.5	19.2	0.7	0.0
80°	49.9	41.0	34.9	30.8	26.7	21.9	18.5	15.0	3.4	0.0	0.0
82.5°	47.9	32.2	23.3	19.2	16.4	13.0	10.3	7.5	2.1	0.0	0.0
85°	17.8	13.7	10.3	8.2	6.8	6.2	4.8	4.1	0.0	0.0	0.0
87.5°	2.7	2.1	2.1	1.4	1.4	0.7	0.7	0.7	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°	144.3	144.3	144.3	144.3	144.3	144.3	144.3
2.5°	122.4	117.0	114.2	110.8	110.8	110.1	111.5
5°	101.9	94.4	88.9	84.8	85.5	83.5	84.1
7.5°	86.2	78.7	73.9	71.1	70.5	69.8	69.8
10°	74.6	67.7	63.6	61.6	60.9	60.9	60.9
12.5°	66.4	59.5	56.1	54.7	54.7	54.0	54.0
15°	59.5	54.0	50.6	49.3	49.3	48.6	49.3
17.5°	54.0	48.6	45.8	44.5	44.5	43.8	43.8
20°	49.3	44.5	41.7	39.7	39.7	39.0	39.7
22.5°	45.1	40.4	36.9	35.6	34.9	34.2	34.9
25°	41.0	36.3	32.8	30.8	30.1	30.1	29.4
27.5°	37.6	32.8	28.7	26.7	26.0	26.0	25.3
30°	34.2	28.7	24.6	22.6	21.9	21.9	21.9
32.5°	30.8	24.6	21.2	19.2	18.5	18.5	18.5
35°	27.4	21.2	17.8	15.7	15.0	15.0	15.0
37.5°	23.3	17.8	13.7	12.3	11.6	10.9	10.9
40°	19.8	13.7	10.3	8.9	7.5	7.5	7.5
42.5°	16.4	10.9	7.5	5.5	4.8	4.1	4.8
45°	13.7	8.2	4.8	2.7	2.1	2.1	2.1
47.5°	10.9	5.5	2.1	0.7	0.7	0.7	0.7
50°	8.2	3.4	0.7	0.0	0.0	0.7	0.7
52.5°	6.2	2.1	0.0	0.0	0.0	0.0	0.0
55°	3.4	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	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)