

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: P149647

Luminaire Tested: **TMU-F03-LED-E-U-SL2-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149647
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-F03-LED-E-U-SL2-HSS-7060
Description: TALON MEDIUM LED AREA LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4659.5 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 78.3
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

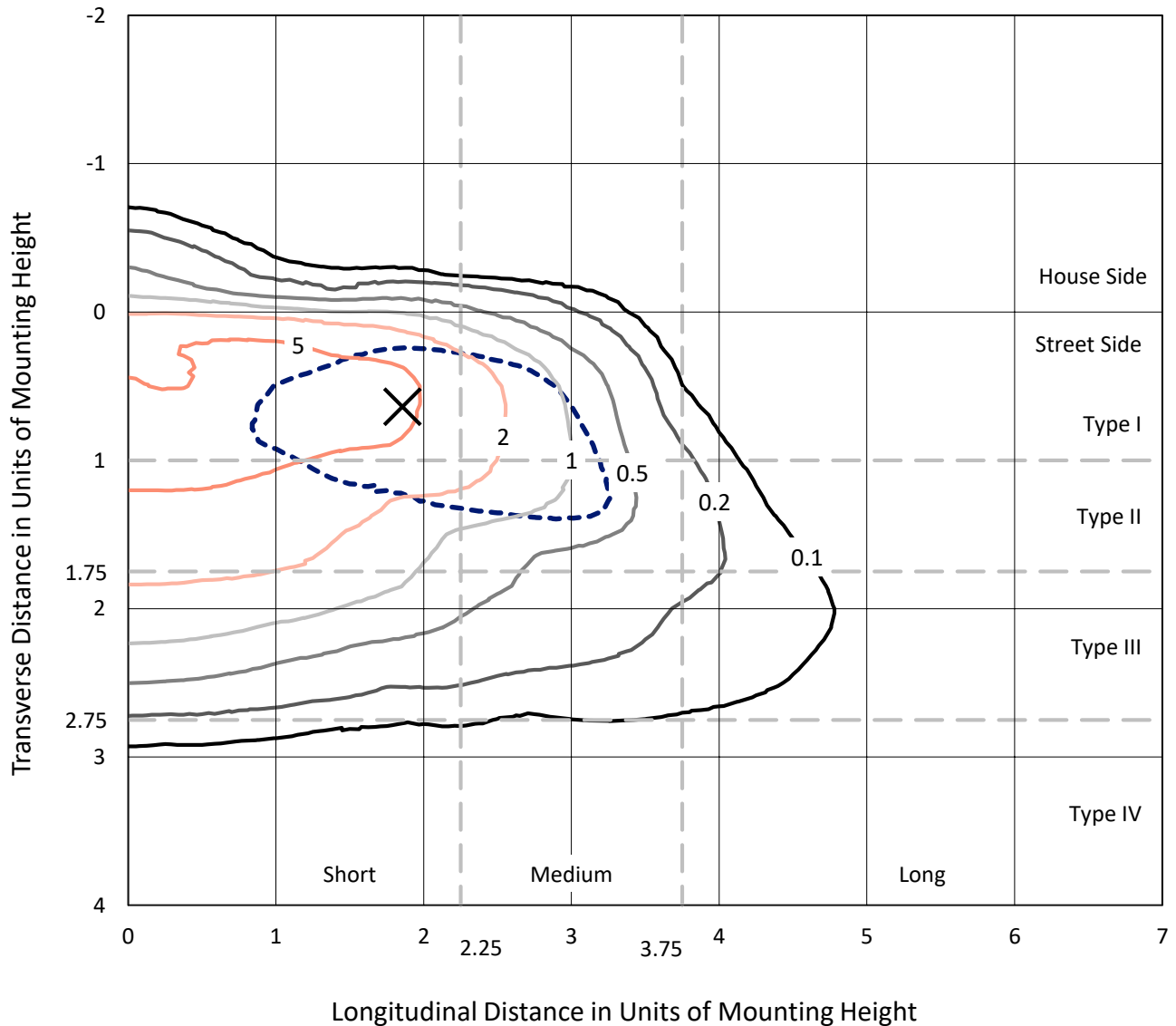


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Iso-Footcandle Lines of Horizontal Illumination

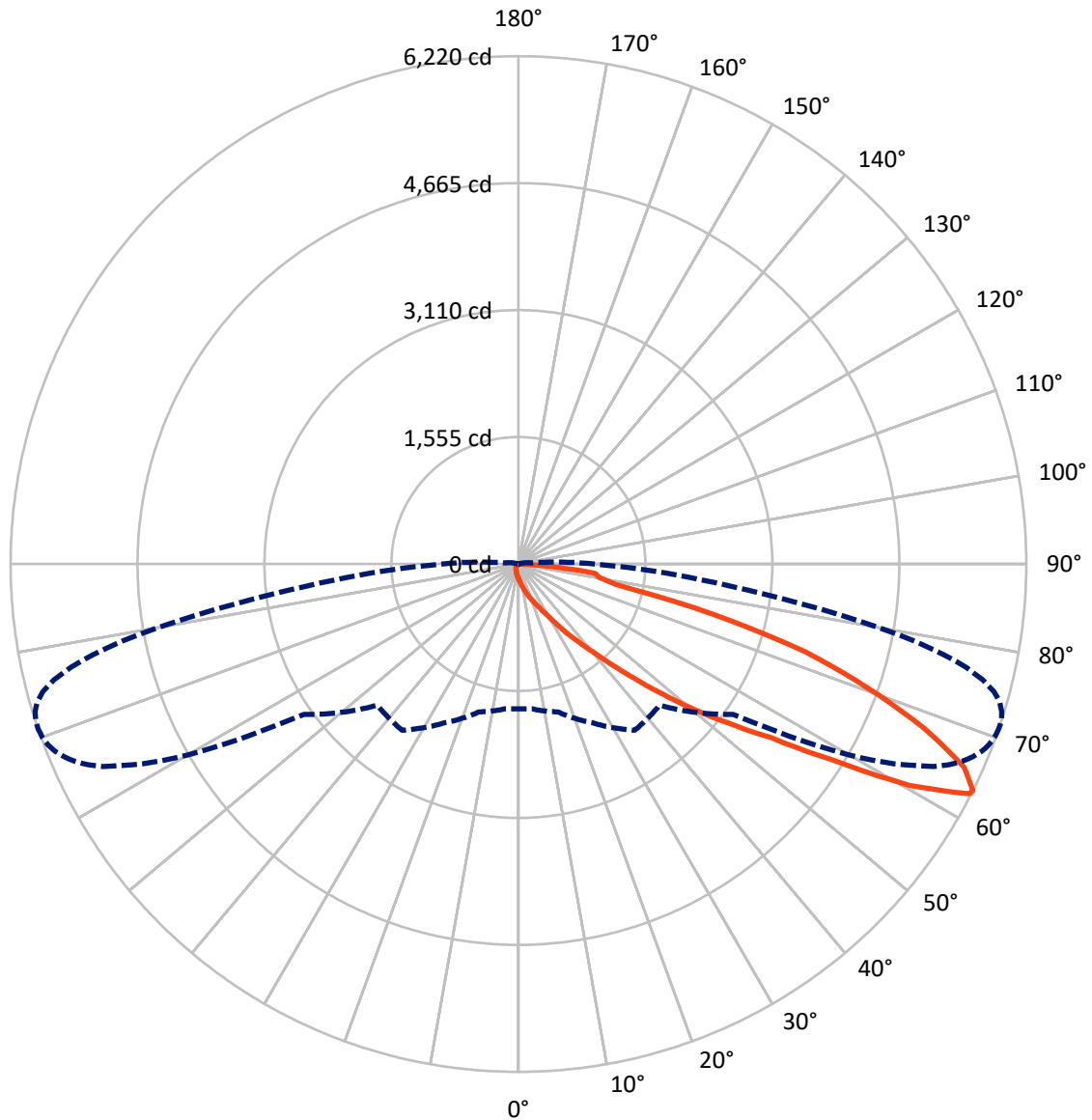
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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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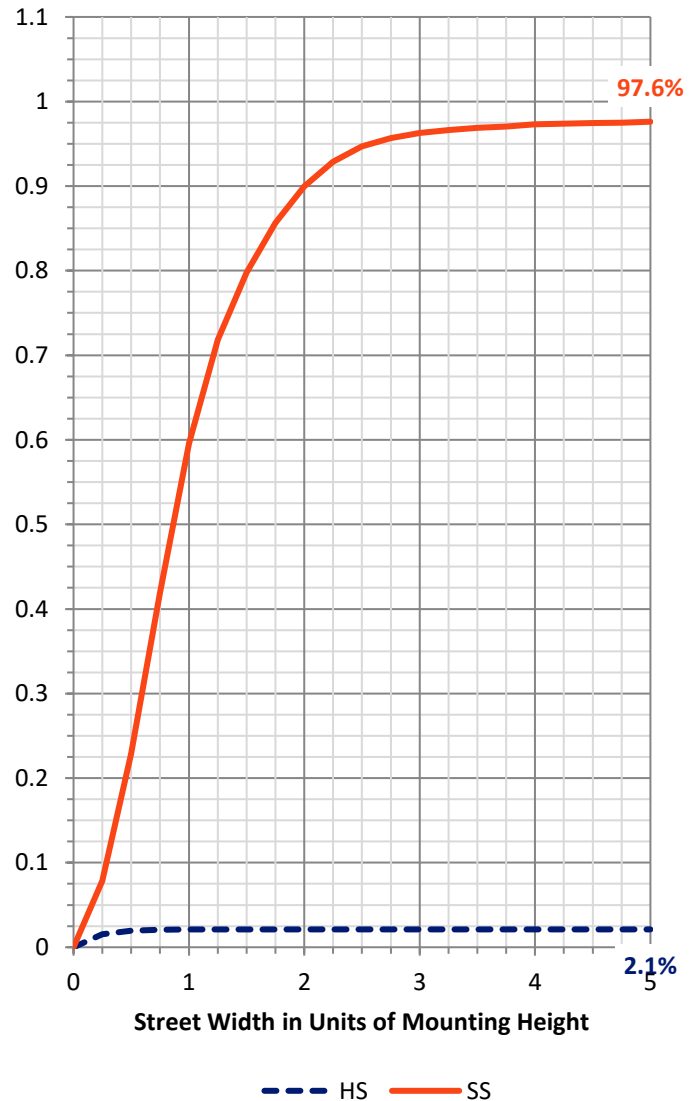
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	98.9	0.0	98.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4560.6	0.0	4560.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	4659.5	0.0	4659.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.8	0.4
10°-20°	76.6	1.6
20°-30°	155.6	3.3
30°-40°	380.2	8.2
40°-50°	850.3	18.2
50°-60°	1195.6	25.7
60°-70°	1405.9	30.2
70°-80°	507.7	10.9
80°-90°	67.9	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°	4659.5	100.0
0°-180°	4659.5	100.0

Coefficient of Utilization



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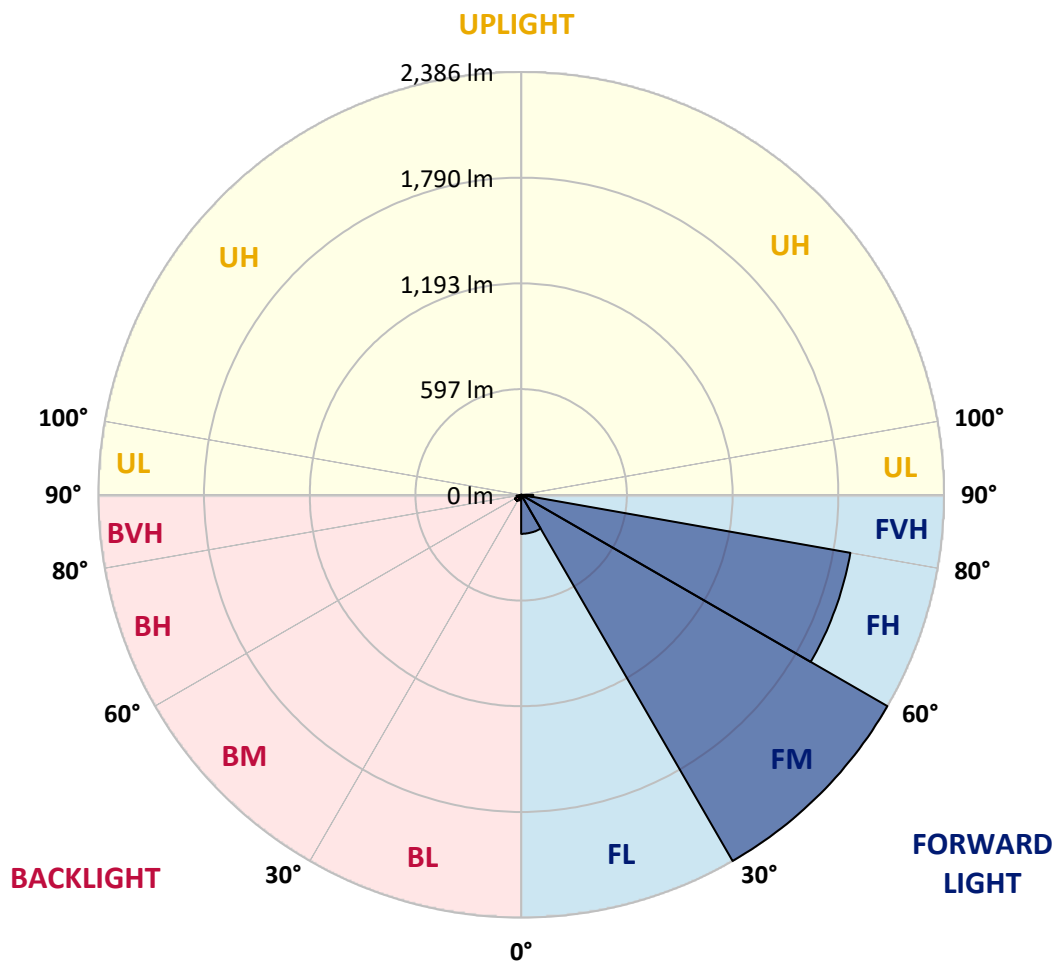
CATALOG NUMBER: TMU-F03-LED-E-U-SL2-HSS-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	220.2	4.7			
FM (30°-60°)	2386.2	51.2			
FH (60°-80°)	1886.5	40.5			G2/5000
FVH (80°-90°)	67.7	1.5			G1/100
BL (0°-30°)	31.8	0.7	B0/110		
BM (30°-60°)	39.9	0.9	B0/220		
BH (60°-80°)	27.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7
2.5°	233.8	236.3	234.6	230.4	225.3	218.5	212.6	212.6	211.8	209.2	210.1
5°	306.6	307.5	304.1	293.9	284.6	270.2	254.1	252.4	250.7	248.2	247.3
7.5°	377.8	381.2	377.8	366.8	348.1	326.1	300.7	298.2	293.1	293.1	289.7
10°	450.6	450.6	447.3	434.5	417.6	386.3	354.1	349.8	343.9	342.2	337.1
12.5°	502.3	502.3	500.6	493.8	480.3	452.3	413.4	409.1	401.5	399.0	393.0
15°	522.6	522.6	523.5	529.4	530.3	517.6	476.9	473.5	465.9	459.1	456.6
17.5°	535.4	534.5	534.5	543.0	558.2	566.7	540.4	537.0	528.6	525.2	516.7
20°	563.3	561.6	556.5	556.5	570.9	600.6	600.6	599.7	590.4	587.9	583.6
22.5°	604.8	603.1	587.9	575.2	581.9	619.2	653.9	652.2	648.9	645.5	642.9
25°	672.6	666.6	640.4	603.1	597.2	637.0	694.6	698.8	701.4	701.4	703.1
27.5°	775.1	767.5	720.9	651.4	625.1	665.8	739.5	748.0	755.6	757.3	764.9
30°	917.4	903.8	836.9	735.3	675.1	708.2	805.6	814.9	825.9	829.3	841.1
32.5°	1151.2	1143.6	1079.2	926.7	797.9	791.2	897.9	909.8	924.2	930.1	944.5
35°	1506.9	1508.6	1456.1	1318.9	1141.0	1047.8	1063.1	1073.2	1078.3	1096.1	1103.7
37.5°	1748.4	1752.6	1764.5	1710.2	1583.2	1488.3	1368.9	1379.9	1353.6	1356.2	1357.0
40°	1880.5	1894.1	1963.5	2016.0	2005.9	1950.8	1855.1	1861.0	1811.9	1800.9	1747.5
42.5°	1968.6	1986.4	2097.4	2260.0	2343.0	2393.0	2371.0	2368.4	2330.3	2315.9	2271.0
45°	2023.7	2039.8	2179.5	2419.2	2610.7	2756.4	2816.5	2823.3	2791.1	2776.7	2739.4
47.5°	2021.1	2039.8	2189.7	2478.5	2760.6	2993.6	3163.0	3171.5	3190.9	3178.2	3180.8
50°	1909.3	1927.1	2077.9	2377.7	2716.6	3102.0	3412.0	3439.1	3470.5	3491.6	3501.8
52.5°	1773.8	1786.5	1920.3	2204.9	2528.5	3057.1	3559.4	3606.0	3652.6	3692.4	3720.4
55°	1723.8	1738.2	1843.2	2079.6	2377.7	2869.0	3628.0	3696.6	3762.7	3827.9	3881.3
57.5°	1750.1	1763.6	1839.0	2020.3	2288.0	2670.8	3647.5	3754.2	3862.7	3968.5	4073.6
60°	1846.6	1861.0	1925.4	2075.3	2264.2	2556.5	3571.3	3748.3	3928.7	4113.4	4287.0
62.5°	1808.5	1814.4	1909.3	2171.9	2433.6	2459.1	3294.3	3541.6	3816.9	4101.5	4381.9
63°	1772.1	1778.9	1875.4	2145.6	2485.3	2444.7	3208.7	3469.6	3760.2	4066.8	4371.8
65°	1606.9	1607.7	1681.4	1894.9	2427.7	2470.1	2827.5	3076.6	3410.3	3778.0	4163.4
67.5°	1199.5	1193.5	1264.7	1427.3	1905.9	2470.9	2426.9	2566.6	2798.7	3124.9	3470.5
70°	425.2	415.9	531.1	756.4	1187.6	2021.1	2085.5	2094.8	2159.2	2335.4	2552.2
72.5°	138.1	140.6	169.4	277.0	547.2	1360.4	1888.1	1859.3	1842.4	1841.5	1870.3
75°	55.1	55.9	67.8	122.8	245.7	655.6	1653.5	1669.6	1675.5	1684.0	1693.3
77.5°	26.3	28.8	38.1	68.6	122.0	324.4	1183.4	1319.7	1397.7	1457.8	1494.2
80°	9.3	11.0	21.2	42.4	56.8	149.1	623.4	752.2	866.6	1013.9	1141.0
82.5°	0.0	0.0	4.2	29.6	31.3	60.1	255.8	299.9	343.1	444.7	570.9
85°	0.0	0.0	0.0	8.5	9.3	10.2	86.4	104.2	116.9	136.4	157.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	5.1	12.7	19.5
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°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7
2.5°	208.4	207.5	207.5	205.8	205.0	203.3	202.5	199.9	199.1	199.1	199.1
5°	246.5	243.1	241.4	237.2	234.6	233.8	229.6	227.9	225.3	226.2	221.9
7.5°	288.9	282.9	280.4	274.5	272.8	266.8	265.1	260.9	258.4	253.3	251.6
10°	335.4	327.8	323.6	314.3	311.7	307.5	302.4	297.3	293.1	288.0	285.5
12.5°	388.8	382.0	378.6	365.9	360.0	354.1	347.3	340.5	333.7	329.5	323.6
15°	451.5	440.5	437.1	425.2	415.1	407.4	398.1	389.7	384.6	376.1	370.2
17.5°	513.3	502.3	499.8	482.0	471.0	465.9	455.7	444.7	435.4	426.9	417.6
20°	575.2	567.5	560.8	543.8	532.0	523.5	509.9	498.9	491.3	479.4	467.6
22.5°	637.0	629.4	624.3	606.5	595.5	583.6	571.8	559.9	548.9	534.5	521.0
25°	700.5	695.4	692.9	676.8	666.6	655.6	643.8	630.2	616.7	600.6	586.2
27.5°	766.6	768.3	763.2	759.8	748.8	741.2	722.6	713.2	703.1	683.6	665.8
30°	850.5	855.5	853.9	856.4	849.6	844.5	830.1	818.3	806.4	787.8	767.5
32.5°	956.3	963.1	966.5	975.8	972.4	970.7	966.5	949.6	941.1	908.9	900.4
35°	1119.8	1116.4	1130.8	1138.5	1135.1	1133.4	1128.3	1119.0	1108.8	1086.0	1064.8
37.5°	1332.4	1335.8	1340.9	1325.7	1315.5	1314.7	1299.4	1290.1	1275.7	1250.3	1224.9
40°	1722.1	1700.9	1677.2	1612.8	1584.9	1568.8	1523.9	1511.2	1486.6	1451.9	1425.6
42.5°	2228.7	2207.5	2136.3	2028.7	1971.1	1891.5	1855.1	1810.2	1775.5	1718.7	1688.2
45°	2731.8	2670.8	2662.4	2537.0	2465.8	2360.8	2295.6	2220.2	2141.4	2066.9	2012.7
47.5°	3156.2	3142.7	3101.1	3024.9	2958.8	2870.7	2786.9	2670.8	2589.5	2483.6	2386.2
50°	3495.9	3495.0	3479.8	3435.7	3380.7	3309.5	3235.8	3137.6	3045.2	2915.6	2811.4
52.5°	3750.0	3763.6	3768.6	3755.1	3733.9	3671.2	3634.0	3551.8	3473.9	3363.7	3251.1
55°	3936.4	3986.3	4011.8	4040.6	4034.6	4012.6	4010.9	3957.5	3922.0	3834.7	3755.1
57.5°	4166.8	4248.9	4327.7	4467.5	4472.6	4521.7	4547.1	4572.5	4579.3	4544.6	4518.3
60°	4459.9	4627.6	4776.7	5068.9	5145.1	5265.4	5343.4	5428.1	5500.1	5506.0	5504.3
62.5°	4666.5	4924.9	5165.5	5599.2	5747.4	5886.3	5990.5	6072.7	6122.7	6173.5	6197.2
63°	4672.5	4955.4	5211.2	5658.5	5814.3	5946.5	6045.6	6121.8	6174.3	6204.8	6220.1
65°	4529.3	4872.4	5177.3	5622.9	5769.4	5902.4	5954.1	6004.1	6029.5	6041.3	5996.4
67.5°	3838.9	4174.4	4530.2	5028.2	5153.6	5312.9	5355.2	5380.6	5392.5	5389.9	5351.8
70°	2870.7	3152.0	3547.6	4116.8	4282.8	4438.7	4535.2	4576.7	4590.3	4586.1	4529.3
72.5°	2004.2	2169.4	2495.5	3129.1	3355.3	3555.2	3674.6	3736.5	3749.2	3723.7	3671.2
75°	1683.1	1691.6	1765.3	2111.8	2323.5	2537.0	2671.7	2710.6	2685.2	2608.1	2474.3
77.5°	1502.7	1521.3	1521.3	1573.0	1614.5	1673.8	1686.5	1591.7	1481.5	1339.2	1224.0
80°	1260.4	1325.7	1371.4	1409.5	1413.8	1401.9	1370.6	1317.2	1232.5	1124.1	1003.8
82.5°	765.8	894.5	947.0	1143.6	1240.1	1305.3	1300.3	1229.1	1164.7	1052.1	949.6
85°	193.1	208.4	226.2	293.9	329.5	402.4	448.1	469.3	476.9	437.9	396.4
87.5°	18.6	12.7	21.2	16.1	22.9	16.9	22.9	21.2	26.3	28.0	30.5
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°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7
2.5°	197.4	196.5	195.7	194.8	194.0	193.1	191.4	191.4	189.7	188.9	188.1
5°	219.4	217.7	216.9	215.2	212.6	210.9	208.4	205.0	202.5	201.6	199.9
7.5°	247.3	243.1	241.4	238.9	235.5	230.4	227.0	224.5	220.2	217.7	212.6
10°	278.7	274.5	269.4	264.3	259.2	253.3	249.0	245.7	238.9	235.5	229.6
12.5°	318.5	310.9	304.9	298.2	291.4	284.6	279.5	269.4	263.4	255.8	250.7
15°	359.2	352.4	345.6	337.1	327.0	316.0	310.9	301.6	293.9	282.1	275.3
17.5°	408.3	395.6	385.4	375.3	365.9	355.8	345.6	331.2	320.2	310.0	296.5
20°	456.6	441.3	430.3	416.8	403.2	387.1	375.3	365.1	349.8	336.3	321.9
22.5°	508.2	493.0	475.2	461.7	443.0	430.3	414.2	397.3	382.0	364.2	346.5
25°	570.9	554.8	534.5	516.7	495.5	477.8	458.3	438.8	420.1	399.8	376.9
27.5°	648.0	631.1	609.0	587.9	559.9	537.9	519.3	493.0	469.3	443.9	417.6
30°	745.4	726.8	699.7	669.2	641.2	616.7	590.4	555.7	529.4	498.9	465.0
32.5°	872.5	850.5	814.0	785.2	750.5	718.3	681.9	647.2	609.9	570.1	531.1
35°	1032.6	1012.3	969.9	927.5	889.4	851.3	805.6	765.8	713.2	665.0	615.0
37.5°	1198.6	1162.2	1123.2	1077.5	1030.0	984.3	928.4	873.3	813.2	760.7	698.0
40°	1388.4	1344.3	1312.1	1263.0	1196.1	1130.8	1079.2	1010.6	935.2	864.9	791.2
42.5°	1648.4	1599.3	1541.7	1467.1	1418.9	1342.6	1275.7	1194.4	1095.3	1016.5	927.5
45°	1949.1	1882.2	1826.3	1754.3	1695.8	1601.0	1523.0	1414.6	1315.5	1212.2	1103.7
47.5°	2292.2	2209.2	2127.9	2056.7	1963.5	1870.3	1771.2	1656.0	1529.0	1415.5	1286.7
50°	2686.1	2568.3	2455.7	2364.2	2236.3	2128.7	2021.1	1891.5	1750.9	1620.5	1473.9
52.5°	3124.0	2987.6	2838.6	2697.9	2549.7	2411.6	2282.0	2132.9	1976.2	1817.0	1653.5
55°	3652.6	3550.1	3374.7	3196.0	2997.8	2813.1	2646.3	2461.6	2271.0	2061.8	1889.8
57.5°	4480.2	4430.2	4283.7	4104.9	3846.6	3622.1	3339.2	3113.0	2836.9	2548.9	2326.9
60°	5601.7	5539.9	5457.7	5312.9	5107.9	4802.9	4491.2	4139.7	3719.5	3320.5	2941.9
62.5°	6199.7	6177.7	6110.8	6010.8	5819.4	5578.8	5264.6	4878.3	4403.9	3919.4	3436.6
63°	6217.5	6189.6	6132.0	6030.3	5861.8	5628.8	5320.5	4945.2	4481.0	3987.2	3494.2
65°	5977.0	5966.0	5907.5	5796.5	5681.3	5503.5	5264.6	4941.8	4552.2	4085.4	3595.0
67.5°	5301.0	5268.0	5178.2	5144.3	5063.8	4940.1	4758.0	4536.1	4257.4	3890.6	3467.1
70°	4483.6	4434.4	4321.8	4261.6	4163.4	4085.4	3974.5	3816.1	3644.1	3388.3	3072.3
72.5°	3617.0	3515.4	3412.0	3255.3	3118.1	2979.2	2856.3	2744.5	2555.6	2452.3	2212.6
75°	2348.9	2164.3	1987.2	1750.1	1536.6	1347.7	1163.9	1070.7	876.7	797.9	685.3
77.5°	1114.8	1011.4	872.5	764.9	627.7	512.5	418.5	314.3	246.5	193.1	147.4
80°	899.6	812.3	728.5	631.1	527.7	421.0	322.7	241.4	171.1	118.6	83.9
82.5°	802.2	707.3	604.0	537.0	466.7	382.0	313.4	255.8	188.9	138.1	94.0
85°	311.7	262.6	202.5	165.2	128.8	105.9	95.7	66.1	51.7	40.7	31.3
87.5°	27.1	22.0	17.8	11.9	12.7	6.8	7.6	5.1	4.2	4.2	3.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7	178.7
2.5°	187.2	186.4	185.5	183.8	183.8	182.1	181.3	180.4	176.2	166.9	159.3
5°	196.5	194.8	193.1	190.6	188.9	186.4	184.7	182.1	172.8	155.0	139.8
7.5°	210.1	206.7	204.1	199.1	196.5	193.1	190.6	186.4	171.1	144.0	122.8
10°	226.2	220.2	216.0	210.1	205.0	200.8	196.5	190.6	169.4	132.1	107.6
12.5°	245.7	238.9	230.4	223.6	216.9	210.9	205.0	197.4	166.9	122.0	95.7
15°	265.1	255.0	249.0	239.7	230.4	221.9	213.5	206.7	167.7	111.0	85.6
17.5°	287.2	277.0	264.3	254.1	244.0	232.9	222.8	209.2	163.5	102.5	77.9
20°	308.3	293.9	282.1	269.4	255.0	241.4	228.7	216.9	160.1	94.0	71.2
22.5°	331.2	314.3	299.0	282.9	265.1	249.9	234.6	219.4	154.2	86.4	65.2
25°	359.2	339.7	317.7	298.2	279.5	260.9	241.4	222.8	148.2	79.6	61.0
27.5°	393.0	367.6	345.6	321.0	294.8	271.1	249.9	229.6	142.3	74.5	56.8
30°	436.2	406.6	375.3	343.9	316.0	288.9	259.2	233.8	136.4	69.5	52.5
32.5°	493.8	456.6	418.5	382.0	344.8	310.0	278.7	245.7	133.0	65.2	48.3
35°	570.1	521.8	475.2	429.5	384.6	342.2	301.6	264.3	133.0	60.1	43.2
37.5°	642.1	586.2	526.9	470.1	416.8	367.6	319.3	274.5	126.2	55.9	39.0
40°	720.0	653.1	583.6	516.7	452.3	391.3	336.3	284.6	120.3	50.8	34.7
42.5°	839.5	754.7	664.1	586.2	509.1	433.7	365.1	304.1	112.7	45.7	30.5
45°	996.2	888.6	781.9	687.0	588.7	496.4	415.1	339.7	111.0	41.5	26.3
47.5°	1163.9	1036.8	911.5	790.3	675.1	567.5	470.1	379.5	111.0	37.3	22.9
50°	1330.8	1171.5	1037.7	897.1	767.5	640.4	524.3	421.0	111.8	33.9	18.6
52.5°	1481.5	1311.3	1161.3	998.7	855.5	708.2	581.9	461.7	110.1	29.6	15.2
55°	1690.8	1490.9	1317.2	1137.6	969.9	803.9	660.7	522.6	111.0	26.3	12.7
57.5°	2076.2	1841.5	1632.3	1396.8	1203.7	989.4	815.7	648.0	121.1	22.0	9.3
60°	2629.3	2324.4	2030.4	1743.3	1497.6	1242.7	1017.3	820.0	142.3	17.8	6.8
62.5°	3001.2	2602.2	2251.5	1934.7	1649.3	1382.4	1136.8	912.3	156.7	14.4	4.2
63°	3039.3	2626.8	2274.4	1947.4	1656.0	1389.2	1141.9	919.1	157.6	13.6	4.2
65°	3111.3	2669.1	2287.1	1950.0	1649.3	1379.9	1138.5	918.2	159.3	11.0	3.4
67.5°	3029.1	2603.9	2213.4	1877.1	1590.0	1324.8	1096.1	884.3	158.4	7.6	2.5
70°	2708.9	2356.6	2013.5	1700.1	1439.2	1199.5	997.9	806.4	145.7	5.1	1.7
72.5°	1988.9	1749.2	1483.2	1257.1	1084.3	900.4	768.3	605.7	112.7	3.4	0.8
75°	589.6	537.0	451.5	398.1	351.5	290.5	258.4	201.6	57.6	1.7	0.0
77.5°	117.7	106.7	95.7	87.2	82.2	70.3	66.9	55.1	23.7	0.8	0.0
80°	61.8	50.8	43.2	38.1	33.0	27.1	22.9	18.6	4.2	0.0	0.0
82.5°	59.3	39.8	28.8	23.7	20.3	16.1	12.7	9.3	2.5	0.0	0.0
85°	22.0	16.9	12.7	10.2	8.5	7.6	5.9	5.1	0.0	0.0	0.0
87.5°	3.4	2.5	2.5	1.7	1.7	0.8	0.8	0.8	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°	178.7	178.7	178.7	178.7	178.7	178.7	178.7
2.5°	151.6	144.8	141.5	137.2	137.2	136.4	138.1
5°	126.2	116.9	110.1	105.0	105.9	103.3	104.2
7.5°	106.7	97.4	91.5	88.1	87.2	86.4	86.4
10°	92.3	83.9	78.8	76.2	75.4	75.4	75.4
12.5°	82.2	73.7	69.5	67.8	67.8	66.9	66.9
15°	73.7	66.9	62.7	61.0	61.0	60.1	61.0
17.5°	66.9	60.1	56.8	55.1	55.1	54.2	54.2
20°	61.0	55.1	51.7	49.1	49.1	48.3	49.1
22.5°	55.9	50.0	45.7	44.0	43.2	42.4	43.2
25°	50.8	44.9	40.7	38.1	37.3	37.3	36.4
27.5°	46.6	40.7	35.6	33.0	32.2	32.2	31.3
30°	42.4	35.6	30.5	28.0	27.1	27.1	27.1
32.5°	38.1	30.5	26.3	23.7	22.9	22.9	22.9
35°	33.9	26.3	22.0	19.5	18.6	18.6	18.6
37.5°	28.8	22.0	16.9	15.2	14.4	13.6	13.6
40°	24.6	16.9	12.7	11.0	9.3	9.3	9.3
42.5°	20.3	13.6	9.3	6.8	5.9	5.1	5.9
45°	16.9	10.2	5.9	3.4	2.5	2.5	2.5
47.5°	13.6	6.8	2.5	0.8	0.8	0.8	0.8
50°	10.2	4.2	0.8	0.0	0.0	0.8	0.8
52.5°	7.6	2.5	0.0	0.0	0.0	0.0	0.0
55°	4.2	0.8	0.0	0.0	0.0	0.0	0.0
57.5°	2.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.8	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)