

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: P149641

Luminaire Tested: **TMU-E03-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149641
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-E03-LED-E-U-SL2-HSS-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5644.3 lumens
Efficiency: N/A
Efficacy: 75.1 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): 75.2
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

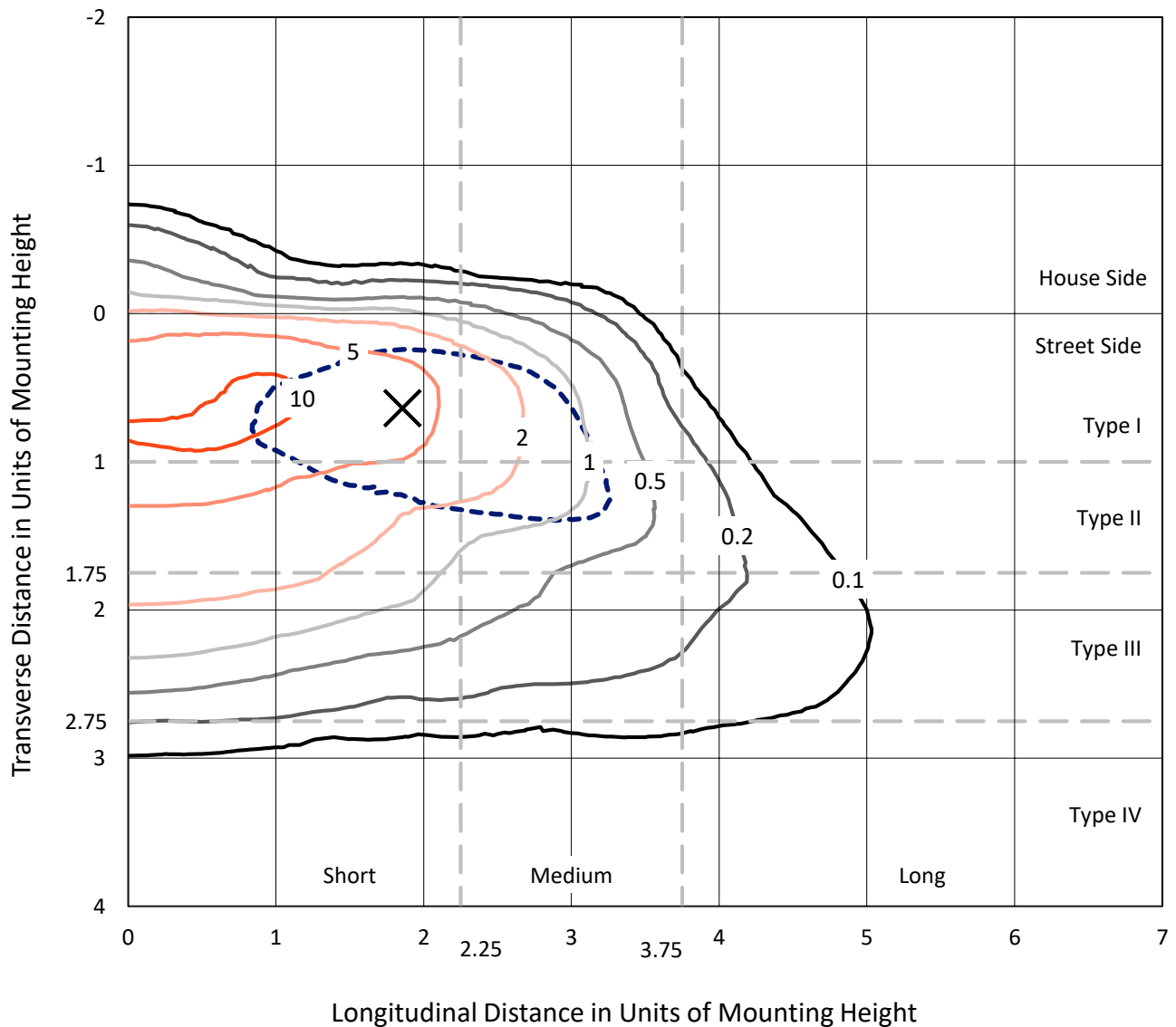


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Iso-Footcandle Lines of Horizontal Illumination

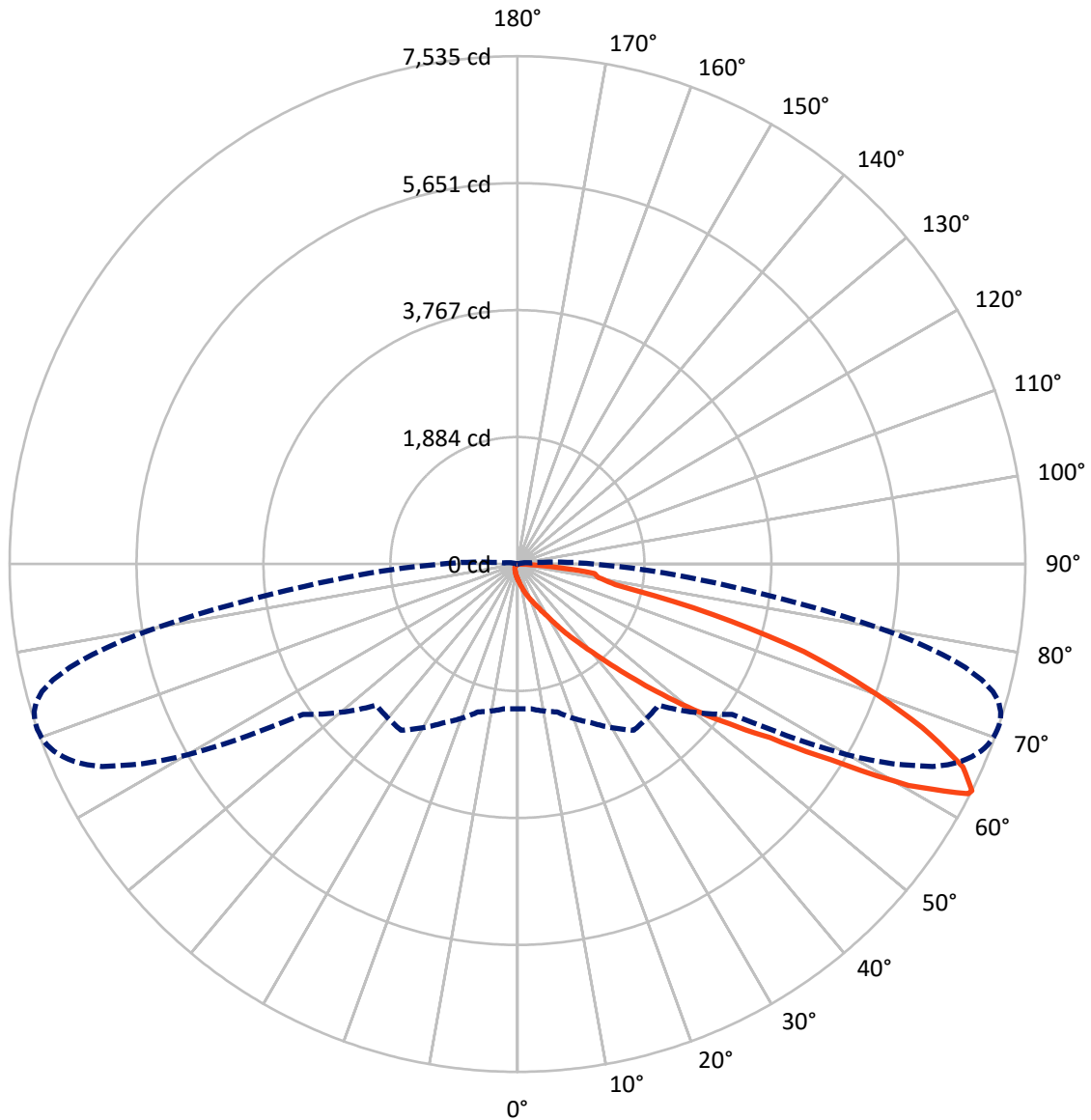
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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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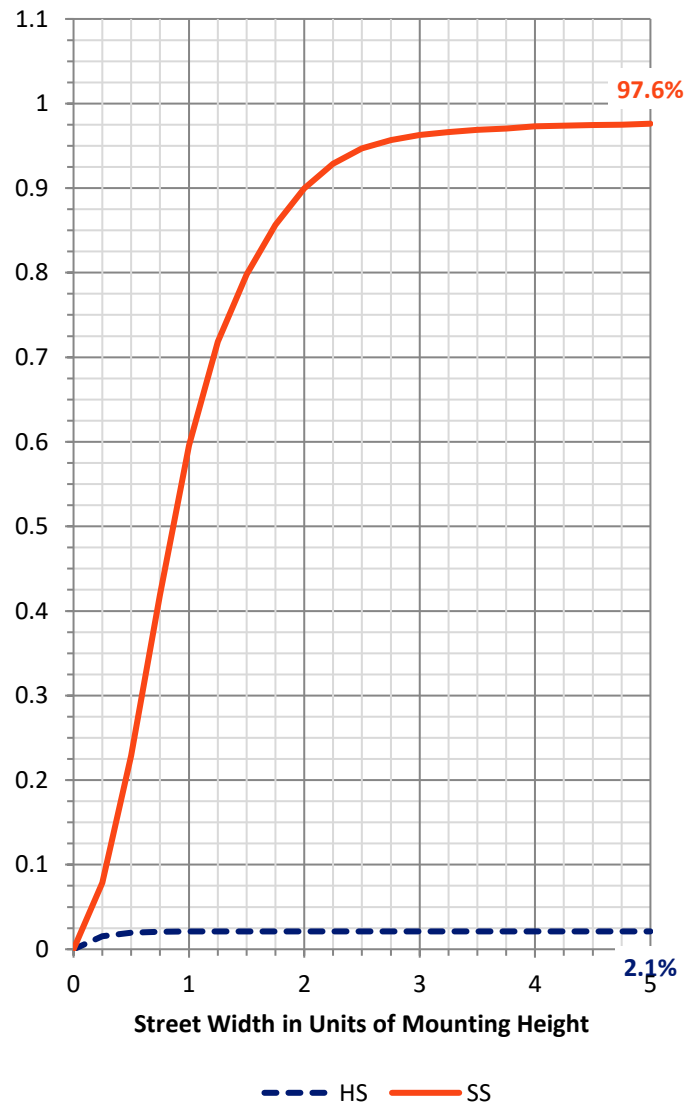
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	119.8	0.0	119.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	5524.5	0.0	5524.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	5644.3	0.0	5644.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	0.4
10°-20°	92.8	1.6
20°-30°	188.5	3.3
30°-40°	460.6	8.2
40°-50°	1030.0	18.2
50°-60°	1448.3	25.7
60°-70°	1703.1	30.2
70°-80°	615.0	10.9
80°-90°	82.2	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°	5644.3	100.0
0°-180°	5644.3	100.0



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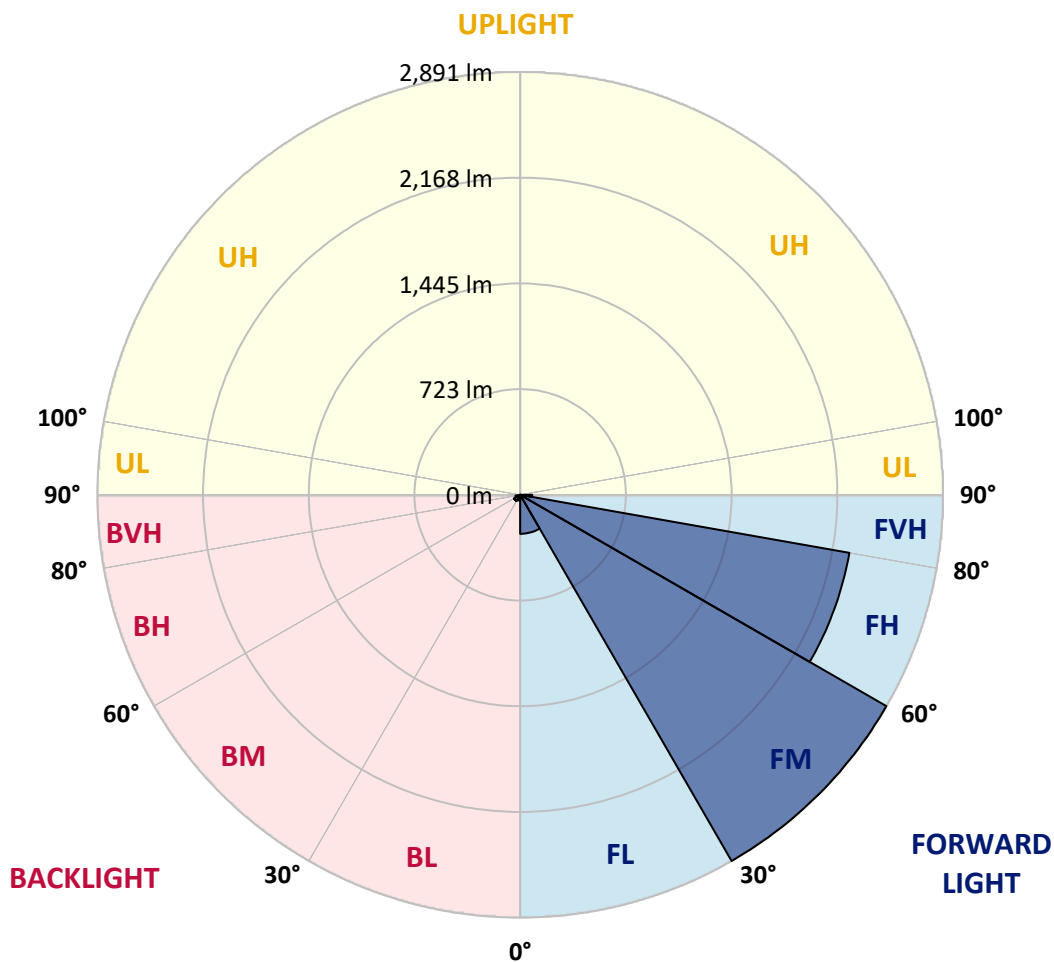
CATALOG NUMBER: TMU-E03-LED-E-U-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.7	4.7			
FM	(30°-60°)	2890.6	51.2			
FH	(60°-80°)	2285.2	40.5			G2/5000
FVH	(80°-90°)	82.1	1.5			G1/100
BL	(0°-30°)	38.5	0.7	B0/110		
BM	(30°-60°)	48.3	0.9	B0/220		
BH	(60°-80°)	32.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5
2.5°	283.2	286.3	284.2	279.1	272.9	264.7	257.6	257.6	256.5	253.4	254.5
5°	371.5	372.5	368.4	356.1	344.8	327.3	307.8	305.8	303.7	300.6	299.6
7.5°	457.6	461.7	457.6	444.3	421.7	395.1	364.3	361.2	355.0	355.0	350.9
10°	545.9	545.9	541.8	526.4	505.9	467.9	428.9	423.8	416.6	414.5	408.4
12.5°	608.5	608.5	606.4	598.2	581.8	547.9	500.7	495.6	486.4	483.3	476.1
15°	633.1	633.1	634.1	641.3	642.3	627.0	577.7	573.6	564.4	556.1	553.1
17.5°	648.5	647.5	647.5	657.7	676.2	686.5	654.7	650.6	640.3	636.2	625.9
20°	682.4	680.3	674.2	674.2	691.6	727.5	727.5	726.5	715.2	712.1	707.0
22.5°	732.6	730.6	712.1	696.7	704.9	750.1	792.2	790.1	786.0	781.9	778.8
25°	814.7	807.5	775.7	730.6	723.4	771.6	841.4	846.5	849.6	849.6	851.7
27.5°	938.9	929.7	873.2	789.1	757.3	806.5	895.8	906.1	915.3	917.3	926.6
30°	1111.3	1094.9	1013.8	890.7	817.8	857.8	975.8	987.1	1000.5	1004.6	1018.9
32.5°	1394.5	1385.2	1307.3	1122.6	966.6	958.4	1087.7	1102.0	1119.5	1126.7	1144.1
35°	1825.4	1827.5	1763.9	1597.6	1382.2	1269.3	1287.8	1300.1	1306.2	1327.8	1337.0
37.5°	2117.9	2123.0	2137.4	2071.7	1917.8	1802.9	1658.2	1671.5	1639.7	1642.8	1643.8
40°	2278.0	2294.4	2378.5	2442.1	2429.8	2363.1	2247.2	2254.4	2194.8	2181.5	2116.9
42.5°	2384.7	2406.2	2540.6	2737.6	2838.2	2898.7	2872.1	2869.0	2822.8	2805.4	2751.0
45°	2451.4	2470.9	2640.2	2930.6	3162.5	3338.9	3411.8	3420.0	3381.0	3363.6	3318.4
47.5°	2448.3	2470.9	2652.5	3002.4	3344.1	3626.3	3831.5	3841.7	3865.3	3849.9	3853.0
50°	2312.8	2334.4	2517.0	2880.3	3290.7	3757.6	4133.2	4166.0	4204.0	4229.6	4241.9
52.5°	2148.7	2164.1	2326.2	2671.0	3062.9	3703.2	4311.7	4368.1	4424.6	4472.8	4506.7
55°	2088.1	2105.6	2232.8	2519.1	2880.3	3475.4	4394.8	4477.9	4558.0	4637.0	4701.6
57.5°	2119.9	2136.4	2227.7	2447.3	2771.5	3235.3	4418.4	4547.7	4679.0	4807.3	4934.5
60°	2236.9	2254.4	2332.3	2514.0	2742.8	3096.8	4326.1	4540.5	4759.1	4982.8	5193.1
62.5°	2190.7	2197.9	2312.8	2630.9	2948.0	2978.8	3990.5	4290.1	4623.6	4968.4	5308.0
63°	2146.6	2154.8	2271.8	2599.1	3010.6	2961.3	3886.9	4202.9	4554.9	4926.3	5295.7
65°	1946.5	1947.5	2036.8	2295.4	2940.8	2992.1	3425.1	3726.8	4131.1	4576.4	5043.3
67.5°	1453.0	1445.8	1532.0	1729.0	2308.7	2993.1	2939.8	3109.1	3390.3	3785.3	4204.0
70°	515.1	503.8	643.4	916.3	1438.6	2448.3	2526.3	2537.6	2615.5	2829.0	3091.7
72.5°	167.3	170.3	205.2	335.5	662.9	1647.9	2287.2	2252.3	2231.8	2230.8	2265.6
75°	66.7	67.7	82.1	148.8	297.6	794.2	2003.0	2022.5	2029.6	2039.9	2051.2
77.5°	31.8	34.9	46.2	83.1	147.8	393.0	1433.5	1598.7	1693.1	1765.9	1810.0
80°	11.3	13.3	25.7	51.3	68.7	180.6	755.2	911.2	1049.7	1228.2	1382.2
82.5°	0.0	0.0	5.1	35.9	38.0	72.9	309.9	363.2	415.6	538.7	691.6
85°	0.0	0.0	0.0	10.3	11.3	12.3	104.7	126.2	141.6	165.2	190.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	6.2	15.4	23.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5
2.5°	252.4	251.4	251.4	249.3	248.3	246.3	245.2	242.2	241.1	241.1	241.1
5°	298.6	294.5	292.4	287.3	284.2	283.2	278.1	276.0	272.9	274.0	268.8
7.5°	349.9	342.7	339.6	332.5	330.4	323.2	321.2	316.0	313.0	306.8	304.8
10°	406.3	397.1	392.0	380.7	377.6	372.5	366.3	360.2	355.0	348.9	345.8
12.5°	471.0	462.8	458.7	443.3	436.1	428.9	420.7	412.5	404.3	399.2	392.0
15°	546.9	533.6	529.5	515.1	502.8	493.6	482.3	472.0	465.9	455.6	448.4
17.5°	621.8	608.5	605.4	583.9	570.5	564.4	552.0	538.7	527.4	517.2	505.9
20°	696.7	687.5	679.3	658.8	644.4	634.1	617.7	604.4	595.1	580.8	566.4
22.5°	771.6	762.4	756.2	734.7	721.4	707.0	692.6	678.3	664.9	647.5	631.1
25°	848.6	842.4	839.4	819.9	807.5	794.2	779.8	763.4	747.0	727.5	710.1
27.5°	928.6	930.7	924.5	920.4	907.1	897.8	875.3	864.0	851.7	828.1	806.5
30°	1030.2	1036.4	1034.3	1037.4	1029.2	1023.0	1005.6	991.2	976.9	954.3	929.7
32.5°	1158.5	1166.7	1170.8	1182.1	1178.0	1175.9	1170.8	1150.3	1140.0	1101.0	1090.8
35°	1356.5	1352.4	1369.9	1379.1	1375.0	1372.9	1366.8	1355.5	1343.2	1315.5	1289.8
37.5°	1614.1	1618.2	1624.3	1605.9	1593.5	1592.5	1574.0	1562.8	1545.3	1514.5	1483.7
40°	2086.1	2060.4	2031.7	1953.7	1919.8	1900.3	1846.0	1830.6	1800.8	1758.7	1726.9
42.5°	2699.7	2674.0	2587.8	2457.5	2387.7	2291.3	2247.2	2192.8	2150.7	2082.0	2045.0
45°	3309.2	3235.3	3225.0	3073.2	2987.0	2859.8	2780.7	2689.4	2594.0	2503.7	2438.0
47.5°	3823.3	3806.9	3756.6	3664.2	3584.2	3477.5	3375.9	3235.3	3136.8	3008.5	2890.5
50°	4234.7	4233.7	4215.2	4161.9	4095.2	4009.0	3919.7	3800.7	3688.8	3531.9	3405.6
52.5°	4542.6	4559.0	4565.1	4548.7	4523.1	4447.1	4402.0	4302.5	4208.1	4074.7	3938.2
55°	4768.3	4828.9	4859.6	4894.5	4887.3	4860.7	4858.6	4794.0	4750.9	4645.2	4548.7
57.5°	5047.4	5146.9	5242.4	5411.7	5417.8	5477.4	5508.1	5538.9	5547.1	5505.1	5473.2
60°	5402.4	5605.6	5786.2	6140.2	6232.6	6378.3	6472.7	6575.3	6662.5	6669.7	6667.6
62.5°	5652.8	5965.8	6257.2	6782.6	6962.1	7130.4	7256.6	7356.1	7416.7	7478.3	7507.0
63°	5660.0	6002.7	6312.6	6854.4	7043.2	7203.3	7323.3	7415.7	7479.3	7516.2	7534.7
65°	5486.6	5902.2	6271.6	6811.3	6988.8	7149.9	7212.5	7273.0	7303.8	7318.2	7263.8
67.5°	4650.3	5056.6	5487.6	6091.0	6242.8	6435.7	6487.0	6517.8	6532.2	6529.1	6482.9
70°	3477.5	3818.1	4297.3	4986.9	5188.0	5376.8	5493.8	5544.0	5560.5	5555.3	5486.6
72.5°	2427.8	2627.9	3022.9	3790.4	4064.4	4306.6	4451.2	4526.2	4541.5	4510.8	4447.1
75°	2038.9	2049.1	2138.4	2558.1	2814.6	3073.2	3236.3	3283.5	3252.8	3159.4	2997.3
77.5°	1820.3	1842.9	1842.9	1905.5	1955.8	2027.6	2043.0	1928.1	1794.7	1622.3	1482.7
80°	1526.8	1605.9	1661.3	1707.4	1712.6	1698.2	1660.2	1595.6	1493.0	1361.6	1215.9
82.5°	927.6	1083.6	1147.2	1385.2	1502.2	1581.2	1575.1	1488.9	1410.9	1274.4	1150.3
85°	234.0	252.4	274.0	356.1	399.2	487.4	542.8	568.5	577.7	530.5	480.2
87.5°	22.6	15.4	25.7	19.5	27.7	20.5	27.7	25.7	31.8	33.9	36.9
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°	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5
2.5°	239.1	238.1	237.0	236.0	235.0	234.0	231.9	231.9	229.8	228.8	227.8
5°	265.8	263.7	262.7	260.6	257.6	255.5	252.4	248.3	245.2	244.2	242.2
7.5°	299.6	294.5	292.4	289.4	285.3	279.1	275.0	271.9	266.8	263.7	257.6
10°	337.6	332.5	326.3	320.1	314.0	306.8	301.7	297.6	289.4	285.3	278.1
12.5°	385.8	376.6	369.4	361.2	353.0	344.8	338.6	326.3	319.1	309.9	303.7
15°	435.1	426.9	418.7	408.4	396.1	382.7	376.6	365.3	356.1	341.7	333.5
17.5°	494.6	479.2	466.9	454.6	443.3	431.0	418.7	401.2	387.9	375.6	359.1
20°	553.1	534.6	521.3	504.8	488.4	468.9	454.6	442.3	423.8	407.4	389.9
22.5°	615.7	597.2	575.6	559.2	536.7	521.3	501.8	481.2	462.8	441.2	419.7
25°	691.6	672.1	647.5	625.9	600.3	578.7	555.1	531.5	508.9	484.3	456.6
27.5°	785.0	764.4	737.8	712.1	678.3	651.6	629.0	597.2	568.5	537.7	505.9
30°	903.0	880.4	847.6	810.6	776.8	747.0	715.2	673.1	641.3	604.4	563.3
32.5°	1056.9	1030.2	986.1	951.2	909.1	870.1	826.0	783.9	738.8	690.6	643.4
35°	1250.8	1226.2	1174.9	1123.6	1077.4	1031.2	975.8	927.6	864.0	805.5	745.0
37.5°	1451.9	1407.8	1360.6	1305.2	1247.7	1192.3	1124.6	1057.9	985.1	921.4	845.5
40°	1681.8	1628.4	1589.4	1529.9	1448.9	1369.9	1307.3	1224.1	1132.8	1047.7	958.4
42.5°	1996.8	1937.3	1867.5	1777.2	1718.7	1626.4	1545.3	1446.8	1326.8	1231.3	1123.6
45°	2361.1	2280.0	2212.3	2125.1	2054.3	1939.3	1844.9	1713.6	1593.5	1468.4	1337.0
47.5°	2776.6	2676.1	2577.6	2491.4	2378.5	2265.6	2145.6	2006.0	1852.1	1714.6	1558.7
50°	3253.8	3111.2	2974.7	2863.9	2708.9	2578.6	2448.3	2291.3	2121.0	1962.9	1785.4
52.5°	3784.3	3619.1	3438.5	3268.1	3088.6	2921.3	2764.3	2583.7	2393.9	2201.0	2003.0
55°	4424.6	4300.4	4088.0	3871.5	3631.4	3407.7	3205.6	2981.9	2751.0	2497.5	2289.2
57.5°	5427.1	5366.5	5189.0	4972.5	4659.5	4387.6	4044.9	3770.9	3436.4	3087.6	2818.7
60°	6785.6	6710.7	6611.2	6435.7	6187.4	5818.0	5440.4	5014.6	4505.6	4022.3	3563.7
62.5°	7510.1	7483.4	7402.3	7281.2	7049.3	6757.9	6377.2	5909.3	5334.7	4747.8	4162.9
63°	7531.6	7497.8	7428.0	7304.8	7100.6	6818.5	6445.0	5990.4	5428.1	4829.9	4232.7
65°	7240.2	7226.9	7156.1	7021.6	6882.1	6666.6	6377.2	5986.3	5514.3	4948.9	4354.8
67.5°	6421.4	6381.3	6272.6	6231.5	6134.1	5984.2	5763.6	5494.8	5157.2	4712.9	4199.8
70°	5431.2	5371.7	5235.2	5162.3	5043.3	4948.9	4814.5	4622.6	4414.3	4104.4	3721.7
72.5°	4381.5	4258.3	4133.2	3943.3	3777.1	3608.8	3460.0	3324.6	3095.8	2970.6	2680.2
75°	2845.4	2621.7	2407.2	2119.9	1861.4	1632.5	1409.9	1297.0	1062.0	966.6	830.1
77.5°	1350.4	1225.2	1056.9	926.6	760.3	620.8	506.9	380.7	298.6	234.0	178.5
80°	1089.7	984.0	882.5	764.4	639.3	510.0	390.9	292.4	207.3	143.7	101.6
82.5°	971.7	856.8	731.6	650.6	565.4	462.8	379.7	309.9	228.8	167.3	113.9
85°	377.6	318.1	245.2	200.1	156.0	128.3	115.9	80.0	62.6	49.3	38.0
87.5°	32.8	26.7	21.5	14.4	15.4	8.2	9.2	6.2	5.1	5.1	4.1
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5	216.5
2.5°	226.8	225.7	224.7	222.7	222.7	220.6	219.6	218.6	213.4	202.1	192.9
5°	238.1	236.0	234.0	230.9	228.8	225.7	223.7	220.6	209.3	187.8	169.3
7.5°	254.5	250.4	247.3	241.1	238.1	234.0	230.9	225.7	207.3	174.4	148.8
10°	274.0	266.8	261.7	254.5	248.3	243.2	238.1	230.9	205.2	160.1	130.3
12.5°	297.6	289.4	279.1	270.9	262.7	255.5	248.3	239.1	202.1	147.8	115.9
15°	321.2	308.9	301.7	290.4	279.1	268.8	258.6	250.4	203.2	134.4	103.6
17.5°	347.8	335.5	320.1	307.8	295.5	282.2	269.9	253.4	198.0	124.2	94.4
20°	373.5	356.1	341.7	326.3	308.9	292.4	277.0	262.7	193.9	113.9	86.2
22.5°	401.2	380.7	362.2	342.7	321.2	302.7	284.2	265.8	186.8	104.7	79.0
25°	435.1	411.5	384.8	361.2	338.6	316.0	292.4	269.9	179.6	96.5	73.9
27.5°	476.1	445.3	418.7	388.9	357.1	328.4	302.7	278.1	172.4	90.3	68.7
30°	528.4	492.5	454.6	416.6	382.7	349.9	314.0	283.2	165.2	84.1	63.6
32.5°	598.2	553.1	506.9	462.8	417.6	375.6	337.6	297.6	161.1	79.0	58.5
35°	690.6	632.1	575.6	520.2	465.9	414.5	365.3	320.1	161.1	72.9	52.3
37.5°	777.8	710.1	638.2	569.5	504.8	445.3	386.8	332.5	152.9	67.7	47.2
40°	872.2	791.1	707.0	625.9	547.9	474.1	407.4	344.8	145.7	61.6	42.1
42.5°	1016.9	914.3	804.5	710.1	616.7	525.4	442.3	368.4	136.5	55.4	36.9
45°	1206.7	1076.4	947.1	832.2	713.1	601.3	502.8	411.5	134.4	50.3	31.8
47.5°	1409.9	1256.0	1104.1	957.4	817.8	687.5	569.5	459.7	134.4	45.1	27.7
50°	1612.0	1419.1	1257.0	1086.6	929.7	775.7	635.2	510.0	135.4	41.0	22.6
52.5°	1794.7	1588.4	1406.8	1209.8	1036.4	857.8	704.9	559.2	133.4	35.9	18.5
55°	2048.1	1805.9	1595.6	1378.1	1174.9	973.8	800.4	633.1	134.4	31.8	15.4
57.5°	2515.0	2230.8	1977.3	1692.0	1458.1	1198.5	988.1	785.0	146.7	26.7	11.3
60°	3185.0	2815.6	2459.6	2111.7	1814.2	1505.3	1232.4	993.3	172.4	21.5	8.2
62.5°	3635.5	3152.2	2727.4	2343.6	1997.8	1674.6	1377.0	1105.1	189.8	17.4	5.1
63°	3681.7	3182.0	2755.1	2359.0	2006.0	1682.8	1383.2	1113.3	190.9	16.4	5.1
65°	3768.9	3233.3	2770.5	2362.1	1997.8	1671.5	1379.1	1112.3	192.9	13.3	4.1
67.5°	3669.4	3154.2	2681.2	2273.8	1926.0	1604.8	1327.8	1071.3	191.9	9.2	3.1
70°	3281.5	2854.6	2439.1	2059.4	1743.4	1453.0	1208.8	976.9	176.5	6.2	2.1
72.5°	2409.3	2118.9	1796.7	1522.7	1313.4	1090.8	930.7	733.7	136.5	4.1	1.0
75°	714.2	650.6	546.9	482.3	425.8	352.0	313.0	244.2	69.8	2.1	0.0
77.5°	142.6	129.3	115.9	105.7	99.5	85.2	81.1	66.7	28.7	1.0	0.0
80°	74.9	61.6	52.3	46.2	40.0	32.8	27.7	22.6	5.1	0.0	0.0
82.5°	71.8	48.2	34.9	28.7	24.6	19.5	15.4	11.3	3.1	0.0	0.0
85°	26.7	20.5	15.4	12.3	10.3	9.2	7.2	6.2	0.0	0.0	0.0
87.5°	4.1	3.1	3.1	2.1	2.1	1.0	1.0	1.0	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°	216.5	216.5	216.5	216.5	216.5	216.5	216.5
2.5°	183.7	175.5	171.4	166.2	166.2	165.2	167.3
5°	152.9	141.6	133.4	127.2	128.3	125.2	126.2
7.5°	129.3	118.0	110.8	106.7	105.7	104.7	104.7
10°	111.8	101.6	95.4	92.3	91.3	91.3	91.3
12.5°	99.5	89.3	84.1	82.1	82.1	81.1	81.1
15°	89.3	81.1	75.9	73.9	73.9	72.9	73.9
17.5°	81.1	72.9	68.7	66.7	66.7	65.7	65.7
20°	73.9	66.7	62.6	59.5	59.5	58.5	59.5
22.5°	67.7	60.5	55.4	53.4	52.3	51.3	52.3
25°	61.6	54.4	49.3	46.2	45.1	45.1	44.1
27.5°	56.4	49.3	43.1	40.0	39.0	39.0	38.0
30°	51.3	43.1	36.9	33.9	32.8	32.8	32.8
32.5°	46.2	36.9	31.8	28.7	27.7	27.7	27.7
35°	41.0	31.8	26.7	23.6	22.6	22.6	22.6
37.5°	34.9	26.7	20.5	18.5	17.4	16.4	16.4
40°	29.8	20.5	15.4	13.3	11.3	11.3	11.3
42.5°	24.6	16.4	11.3	8.2	7.2	6.2	7.2
45°	20.5	12.3	7.2	4.1	3.1	3.1	3.1
47.5°	16.4	8.2	3.1	1.0	1.0	1.0	1.0
50°	12.3	5.1	1.0	0.0	0.0	1.0	1.0
52.5°	9.2	3.1	0.0	0.0	0.0	0.0	0.0
55°	5.1	1.0	0.0	0.0	0.0	0.0	0.0
57.5°	3.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.0	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)