

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: P149661

Luminaire Tested: **TMU-E05-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149661
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-E05-LED-E-U-SL2-HSS-7050
Description: TALON MEDIUM LED AREA LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9407.2 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
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

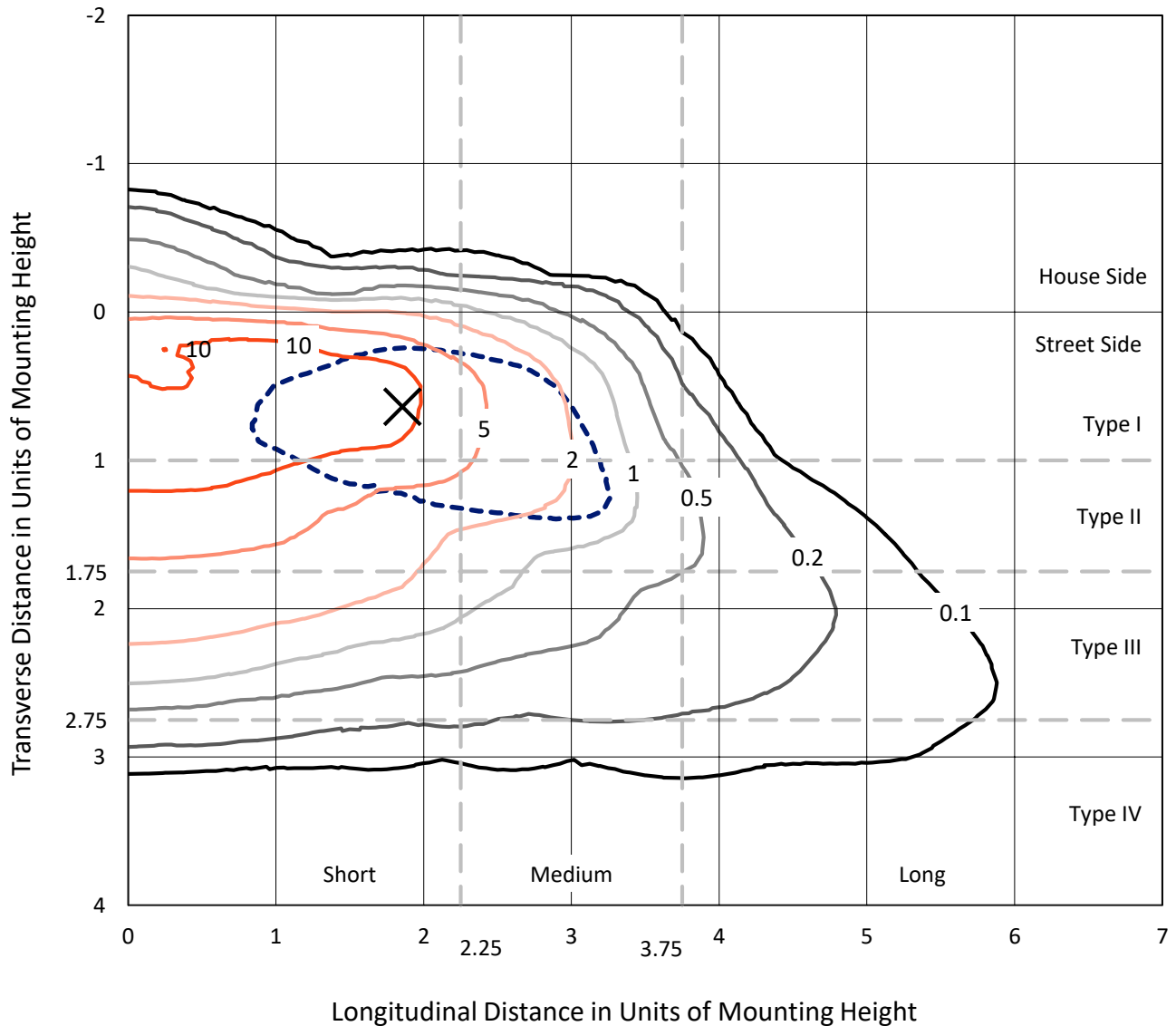


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

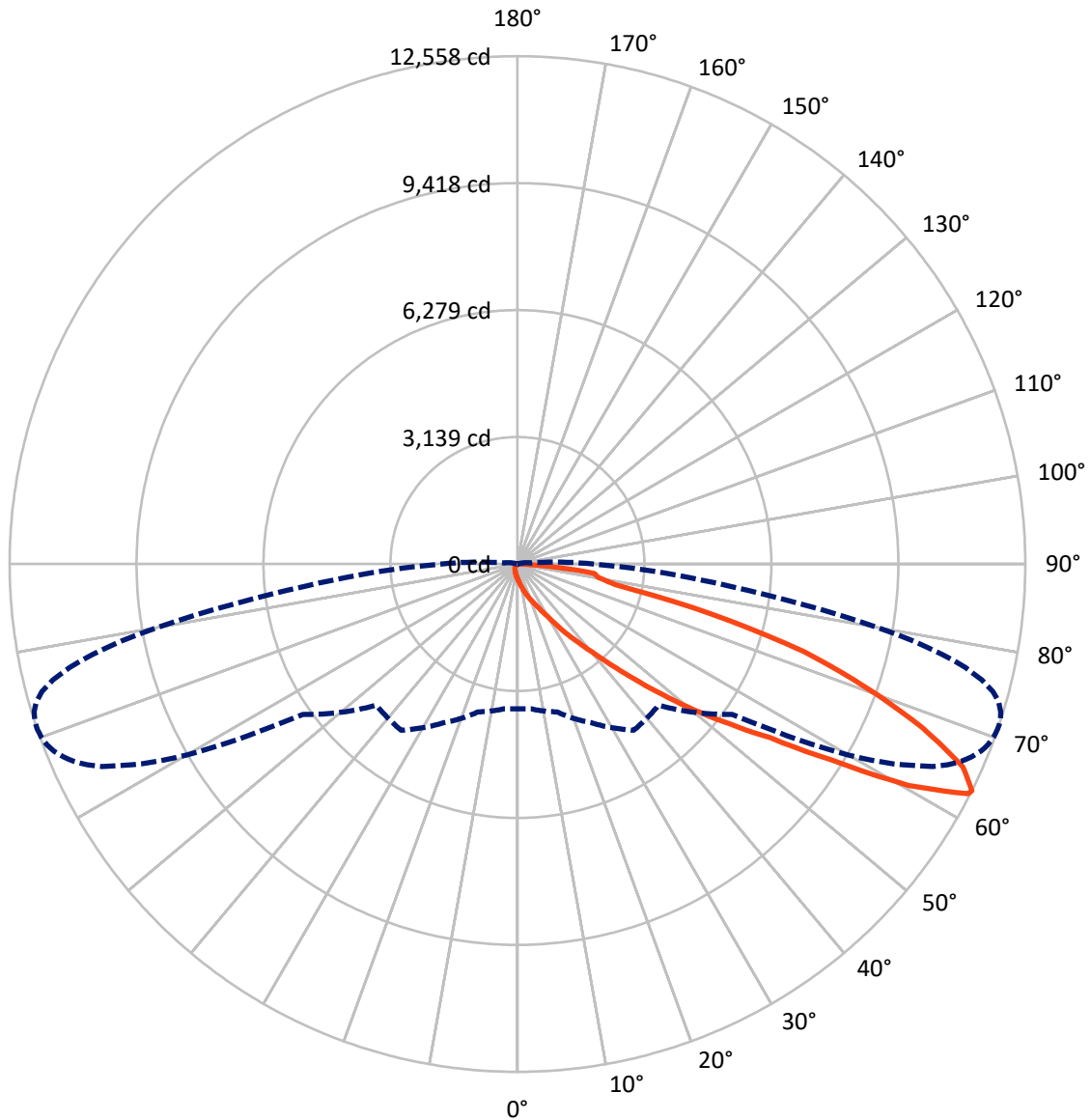


Based on 10 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - Non-Cutoff

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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	199.7	0.0	199.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9207.5	0.0	9207.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	9407.2	0.0	9407.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	0.4
10°-20°	154.7	1.6
20°-30°	314.2	3.3
30°-40°	767.6	8.2
40°-50°	1716.6	18.2
50°-60°	2413.8	25.7
60°-70°	2838.4	30.2
70°-80°	1024.9	10.9
80°-90°	137.1	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°	9407.2	100.0
0°-180°	9407.2	100.0



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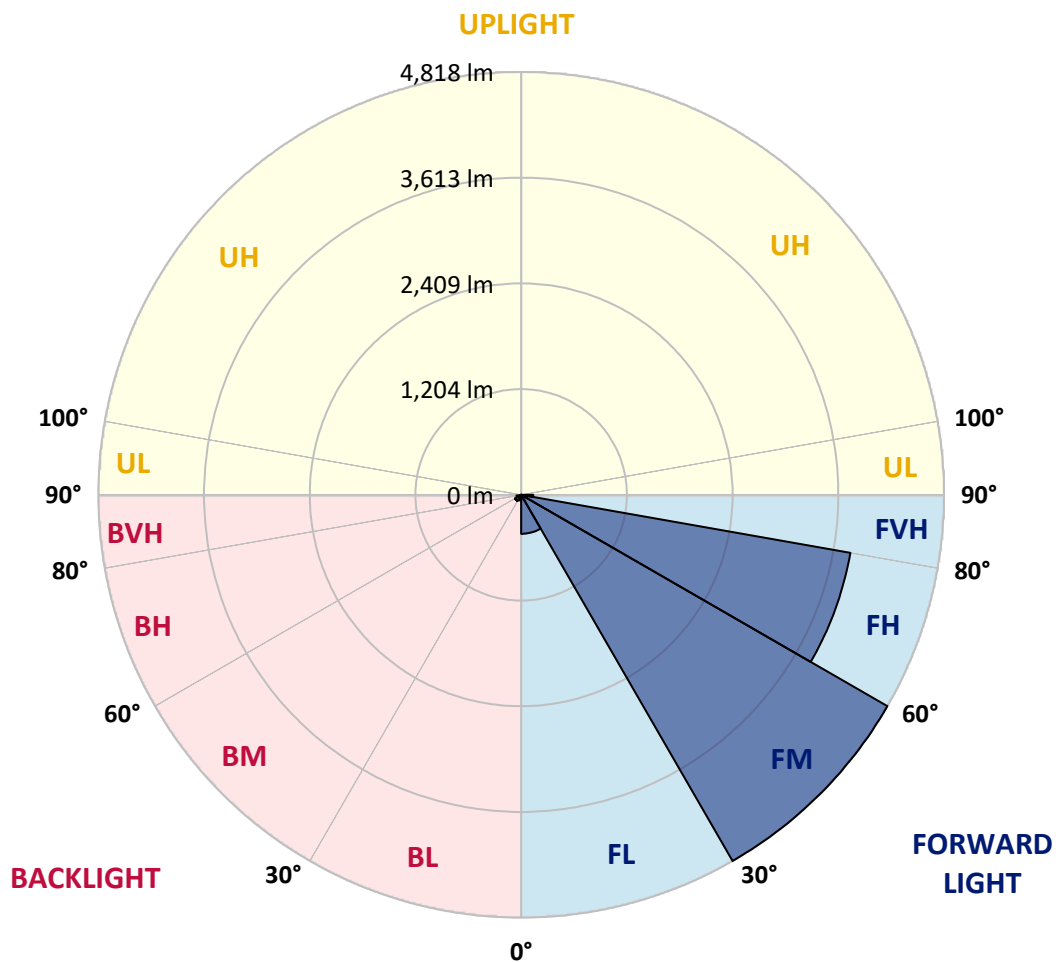
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.5	4.7			
FM	(30°-60°)	4817.6	51.2			
FH	(60°-80°)	3808.6	40.5			G2/5000
FVH	(80°-90°)	136.8	1.5			G2/225
BL	(0°-30°)	64.2	0.7	B0/110		
BM	(30°-60°)	80.5	0.9	B0/220		
BH	(60°-80°)	54.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8
2.5°	472.0	477.1	473.7	465.2	454.9	441.2	429.3	429.3	427.5	422.4	424.1
5°	619.1	620.8	614.0	593.4	574.6	545.5	513.1	509.6	506.2	501.1	499.4
7.5°	762.7	769.6	762.7	740.5	702.9	658.4	607.1	602.0	591.7	591.7	584.9
10°	909.8	909.8	903.0	877.3	843.1	779.8	714.9	706.3	694.3	690.9	680.6
12.5°	1014.1	1014.1	1010.7	997.0	969.7	913.2	834.6	826.0	810.6	805.5	793.5
15°	1055.2	1055.2	1056.9	1068.9	1070.6	1044.9	962.8	956.0	940.6	926.9	921.8
17.5°	1080.8	1079.1	1079.1	1096.2	1127.0	1144.1	1091.1	1084.3	1067.1	1060.3	1043.2
20°	1137.3	1133.8	1123.6	1123.6	1152.7	1212.5	1212.5	1210.8	1192.0	1186.9	1178.3
22.5°	1221.1	1217.6	1186.9	1161.2	1174.9	1250.1	1320.3	1316.8	1310.0	1303.2	1298.0
25°	1357.9	1345.9	1292.9	1217.6	1205.7	1286.1	1402.3	1410.9	1416.0	1416.0	1419.4
27.5°	1564.8	1549.4	1455.4	1315.1	1262.1	1344.2	1493.0	1510.1	1525.5	1528.9	1544.3
30°	1852.1	1824.8	1689.7	1484.4	1363.0	1429.7	1626.4	1645.2	1667.4	1674.3	1698.2
32.5°	2324.1	2308.7	2178.8	1870.9	1611.0	1597.3	1812.8	1836.7	1865.8	1877.8	1906.8
35°	3042.4	3045.8	2939.8	2662.7	2303.6	2115.5	2146.3	2166.8	2177.1	2213.0	2228.4
37.5°	3529.8	3538.4	3562.3	3452.8	3196.3	3004.8	2763.6	2785.9	2732.9	2738.0	2739.7
40°	3796.6	3824.0	3964.2	4070.2	4049.7	3938.5	3745.3	3757.3	3658.1	3635.8	3528.1
42.5°	3974.4	4010.4	4234.4	4562.7	4730.3	4831.2	4786.8	4781.7	4704.7	4675.6	4585.0
45°	4085.6	4118.1	4400.3	4884.3	5270.8	5564.9	5686.3	5700.0	5635.0	5606.0	5530.7
47.5°	4080.5	4118.1	4420.8	5004.0	5573.5	6043.8	6385.8	6402.9	6442.2	6416.6	6421.7
50°	3854.7	3890.6	4195.1	4800.5	5484.5	6262.7	6888.6	6943.3	7006.6	7049.3	7069.9
52.5°	3581.1	3606.8	3877.0	4451.6	5104.9	6172.0	7186.2	7280.2	7374.3	7454.7	7511.1
55°	3480.2	3509.3	3721.3	4198.5	4800.5	5792.4	7324.7	7463.2	7596.6	7728.3	7836.0
57.5°	3533.2	3560.6	3712.8	4078.8	4619.2	5392.2	7364.0	7579.5	7798.4	8012.2	8224.2
60°	3728.2	3757.3	3887.2	4189.9	4571.3	5161.3	7210.1	7567.5	7931.8	8304.6	8655.2
62.5°	3651.2	3663.2	3854.7	4384.9	4913.3	4964.6	6650.9	7150.2	7706.1	8280.7	8846.7
63°	3577.7	3591.4	3786.3	4331.9	5017.7	4935.6	6478.1	7004.9	7591.5	8210.6	8826.2
65°	3244.2	3245.9	3394.7	3825.7	4901.4	4986.9	5708.6	6211.4	6885.2	7627.4	8405.5
67.5°	2421.6	2409.6	2553.3	2881.6	3847.9	4988.6	4899.7	5181.8	5650.4	6308.8	7006.6
70°	858.5	839.7	1072.3	1527.2	2397.7	4080.5	4210.5	4229.3	4359.2	4715.0	5152.8
72.5°	278.8	283.9	342.0	559.2	1104.8	2746.5	3812.0	3753.8	3719.6	3717.9	3776.1
75°	111.2	112.9	136.8	248.0	496.0	1323.7	3338.3	3370.8	3382.7	3399.8	3418.6
77.5°	53.0	58.1	77.0	138.5	246.3	655.0	2389.1	2664.5	2821.8	2943.2	3016.8
80°	18.8	22.2	42.8	85.5	114.6	301.0	1258.7	1518.6	1749.5	2047.1	2303.6
82.5°	0.0	0.0	8.6	59.9	63.3	121.4	516.5	605.4	692.6	897.8	1152.7
85°	0.0	0.0	0.0	17.1	18.8	20.5	174.4	210.4	236.0	275.3	318.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.1	10.3	25.7	39.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8
2.5°	420.7	419.0	419.0	415.6	413.9	410.4	408.7	403.6	401.9	401.9	401.9
5°	497.7	490.8	487.4	478.8	473.7	472.0	463.5	460.0	454.9	456.6	448.1
7.5°	583.2	571.2	566.1	554.1	550.7	538.7	535.3	526.7	521.6	511.3	507.9
10°	677.2	661.8	653.3	634.5	629.3	620.8	610.5	600.3	591.7	581.5	576.3
12.5°	785.0	771.3	764.4	738.8	726.8	714.9	701.2	687.5	673.8	665.3	653.3
15°	911.5	889.3	882.5	858.5	838.0	822.6	803.8	786.7	776.4	759.3	747.3
17.5°	1036.4	1014.1	1009.0	973.1	950.9	940.6	920.1	897.8	879.0	861.9	843.1
20°	1161.2	1145.8	1132.1	1097.9	1074.0	1056.9	1029.5	1007.3	991.9	968.0	944.0
22.5°	1286.1	1270.7	1260.4	1224.5	1202.3	1178.3	1154.4	1130.4	1108.2	1079.1	1051.8
25°	1414.3	1404.1	1398.9	1366.4	1345.9	1323.7	1299.7	1272.4	1245.0	1212.5	1183.4
27.5°	1547.7	1551.1	1540.9	1534.0	1511.8	1496.4	1458.8	1440.0	1419.4	1380.1	1344.2
30°	1717.0	1727.3	1723.9	1729.0	1715.3	1705.0	1676.0	1652.0	1628.1	1590.5	1549.4
32.5°	1930.8	1944.5	1951.3	1970.1	1963.3	1959.9	1951.3	1917.1	1900.0	1835.0	1817.9
35°	2260.9	2254.0	2283.1	2298.5	2291.6	2288.2	2278.0	2259.1	2238.6	2192.4	2149.7
37.5°	2690.1	2696.9	2707.2	2676.4	2655.9	2654.2	2623.4	2604.6	2575.5	2524.2	2472.9
40°	3476.8	3434.0	3386.1	3256.2	3199.7	3167.2	3076.6	3051.0	3001.4	2931.2	2878.2
42.5°	4499.5	4456.7	4313.1	4095.9	3979.6	3818.8	3745.3	3654.6	3584.5	3469.9	3408.4
45°	5515.3	5392.2	5375.1	5122.0	4978.3	4766.3	4634.6	4482.4	4323.3	4172.8	4063.4
47.5°	6372.1	6344.8	6261.0	6107.0	5973.6	5795.8	5626.5	5392.2	5228.0	5014.2	4817.6
50°	7057.9	7056.2	7025.4	6936.5	6825.3	6681.7	6532.9	6334.5	6148.1	5886.4	5676.1
52.5°	7570.9	7598.3	7608.6	7581.2	7538.5	7411.9	7336.7	7170.8	7013.4	6791.1	6563.7
55°	7947.2	8048.1	8099.4	8157.5	8145.6	8101.1	8097.7	7989.9	7918.1	7742.0	7581.2
57.5°	8412.4	8578.2	8737.3	9019.5	9029.7	9128.9	9180.2	9231.5	9245.2	9175.1	9122.1
60°	9004.1	9342.7	9643.7	10233.7	10387.6	10630.5	10787.8	10958.8	11104.2	11116.1	11112.7
62.5°	9421.4	9943.0	10428.7	11304.3	11603.5	11884.0	12094.4	12260.2	12361.2	12463.8	12511.6
63°	9433.3	10004.5	10521.0	11424.0	11738.6	12005.4	12205.5	12359.4	12465.5	12527.0	12557.8
65°	9144.3	9836.9	10452.6	11352.1	11648.0	11916.5	12020.8	12121.7	12173.0	12197.0	12106.3
67.5°	7750.5	8427.7	9146.0	10151.6	10404.7	10726.2	10811.7	10863.0	10887.0	10881.8	10804.9
70°	5795.8	6363.6	7162.2	8311.5	8646.6	8961.3	9156.3	9240.1	9267.4	9258.9	9144.3
72.5°	4046.3	4379.8	5038.2	6317.4	6774.0	7177.6	7418.7	7543.6	7569.2	7517.9	7411.9
75°	3398.1	3415.2	3564.0	4263.5	4691.0	5122.0	5393.9	5472.6	5421.3	5265.6	4995.4
77.5°	3033.9	3071.5	3071.5	3175.8	3259.6	3379.3	3405.0	3213.4	2991.1	2703.8	2471.2
80°	2544.7	2676.4	2768.8	2845.7	2854.3	2830.3	2767.1	2659.3	2488.3	2269.4	2026.6
82.5°	1546.0	1805.9	1912.0	2308.7	2503.7	2635.4	2625.1	2481.5	2351.5	2124.0	1917.1
85°	389.9	420.7	456.6	593.4	665.3	812.3	904.7	947.4	962.8	884.2	800.4
87.5°	37.6	25.7	42.8	32.5	46.2	34.2	46.2	42.8	53.0	56.4	61.6
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°	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8
2.5°	398.5	396.8	395.1	393.3	391.6	389.9	386.5	386.5	383.1	381.4	379.7
5°	442.9	439.5	437.8	434.4	429.3	425.8	420.7	413.9	408.7	407.0	403.6
7.5°	499.4	490.8	487.4	482.3	475.4	465.2	458.3	453.2	444.6	439.5	429.3
10°	562.6	554.1	543.8	533.6	523.3	511.3	502.8	496.0	482.3	475.4	463.5
12.5°	643.0	627.6	615.7	602.0	588.3	574.6	564.4	543.8	531.9	516.5	506.2
15°	725.1	711.4	697.8	680.6	660.1	637.9	627.6	608.8	593.4	569.5	555.8
17.5°	824.3	798.7	778.1	757.6	738.8	718.3	697.8	668.7	646.4	625.9	598.6
20°	921.8	891.0	868.8	841.4	814.0	781.6	757.6	737.1	706.3	678.9	649.9
22.5°	1026.1	995.3	959.4	932.0	894.4	868.8	836.3	802.1	771.3	735.4	699.5
25°	1152.7	1120.2	1079.1	1043.2	1000.5	964.5	925.2	885.9	848.2	807.2	761.0
27.5°	1308.3	1274.1	1229.6	1186.9	1130.4	1086.0	1048.3	995.3	947.4	896.1	843.1
30°	1505.0	1467.3	1412.6	1351.0	1294.6	1245.0	1192.0	1121.9	1068.9	1007.3	938.9
32.5°	1761.5	1717.0	1643.5	1585.3	1515.2	1450.2	1376.7	1306.6	1231.3	1150.9	1072.3
35°	2084.7	2043.7	1958.2	1872.6	1795.7	1718.7	1626.4	1546.0	1440.0	1342.5	1241.6
37.5°	2419.9	2346.4	2267.7	2175.3	2079.6	1987.2	1874.4	1763.2	1641.8	1535.7	1409.2
40°	2803.0	2714.0	2649.1	2549.9	2414.8	2283.1	2178.8	2040.2	1888.0	1746.1	1597.3
42.5°	3328.0	3228.8	3112.5	2962.0	2864.5	2710.6	2575.5	2411.3	2211.3	2052.2	1872.6
45°	3935.1	3800.0	3687.1	3541.8	3423.8	3232.2	3074.9	2856.0	2655.9	2447.3	2228.4
47.5°	4627.7	4460.1	4296.0	4152.3	3964.2	3776.1	3576.0	3343.4	3086.9	2857.7	2597.8
50°	5423.0	5185.3	4957.8	4773.1	4514.9	4297.7	4080.5	3818.8	3534.9	3271.6	2975.7
52.5°	6307.1	6031.8	5730.8	5446.9	5147.6	4868.9	4607.2	4306.2	3989.8	3668.3	3338.3
55°	7374.3	7167.3	6813.3	6452.5	6052.3	5679.5	5342.6	4969.8	4585.0	4162.6	3815.4
57.5°	9045.1	8944.2	8648.4	8287.5	7765.9	7312.7	6741.5	6284.9	5727.4	5145.9	4697.9
60°	11309.4	11184.5	11018.7	10726.2	10312.4	9696.7	9067.4	8357.6	7509.4	6703.9	5939.4
62.5°	12516.8	12472.3	12337.2	12135.4	11748.9	11263.2	10628.7	9848.9	8891.2	7913.0	6938.2
63°	12552.7	12496.3	12380.0	12174.7	11834.4	11364.1	10741.6	9984.0	9046.8	8049.8	7054.5
65°	12067.0	12044.8	11926.8	11702.7	11470.1	11111.0	10628.7	9977.2	9190.5	8248.2	7258.0
67.5°	10702.3	10635.6	10454.3	10385.9	10223.4	9973.7	9606.1	9158.0	8595.3	7854.8	6999.7
70°	9052.0	8952.8	8725.3	8603.9	8405.5	8248.2	8024.1	7704.3	7357.2	6840.7	6202.8
72.5°	7302.5	7097.2	6888.6	6572.2	6295.2	6014.7	5766.7	5541.0	5159.6	4951.0	4467.0
75°	4742.3	4369.5	4012.1	3533.2	3102.3	2720.9	2349.8	2161.7	1770.0	1611.0	1383.5
77.5°	2250.6	2041.9	1761.5	1544.3	1267.2	1034.7	844.8	634.5	497.7	389.9	297.6
80°	1816.2	1640.1	1470.8	1274.1	1065.4	850.0	651.6	487.4	345.5	239.4	169.3
82.5°	1619.5	1428.0	1219.4	1084.3	942.3	771.3	632.8	516.5	381.4	278.8	189.8
85°	629.3	530.2	408.7	333.5	259.9	213.8	193.2	133.4	104.3	82.1	63.3
87.5°	54.7	44.5	35.9	23.9	25.7	13.7	15.4	10.3	8.6	8.6	6.8
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°	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8
2.5°	377.9	376.2	374.5	371.1	371.1	367.7	366.0	364.3	355.7	336.9	321.5
5°	396.8	393.3	389.9	384.8	381.4	376.2	372.8	367.7	348.9	313.0	282.2
7.5°	424.1	417.3	412.2	401.9	396.8	389.9	384.8	376.2	345.5	290.7	248.0
10°	456.6	444.6	436.1	424.1	413.9	405.3	396.8	384.8	342.0	266.8	217.2
12.5°	496.0	482.3	465.2	451.5	437.8	425.8	413.9	398.5	336.9	246.3	193.2
15°	535.3	514.8	502.8	484.0	465.2	448.1	431.0	417.3	338.6	224.0	172.7
17.5°	579.7	559.2	533.6	513.1	492.5	470.3	449.8	422.4	330.1	206.9	157.3
20°	622.5	593.4	569.5	543.8	514.8	487.4	461.7	437.8	323.2	189.8	143.7
22.5°	668.7	634.5	603.7	571.2	535.3	504.5	473.7	442.9	311.3	174.4	131.7
25°	725.1	685.8	641.3	602.0	564.4	526.7	487.4	449.8	299.3	160.8	123.1
27.5°	793.5	742.2	697.8	648.2	595.1	547.3	504.5	463.5	287.3	150.5	114.6
30°	880.7	820.9	757.6	694.3	637.9	583.2	523.3	472.0	275.3	140.2	106.0
32.5°	997.0	921.8	844.8	771.3	696.0	625.9	562.6	496.0	268.5	131.7	97.5
35°	1150.9	1053.5	959.4	867.1	776.4	690.9	608.8	533.6	268.5	121.4	87.2
37.5°	1296.3	1183.4	1063.7	949.1	841.4	742.2	644.7	554.1	254.8	112.9	78.7
40°	1453.6	1318.5	1178.3	1043.2	913.2	790.1	678.9	574.6	242.8	102.6	70.1
42.5°	1694.8	1523.8	1340.8	1183.4	1027.8	875.6	737.1	614.0	227.5	92.3	61.6
45°	2011.2	1794.0	1578.5	1387.0	1188.6	1002.2	838.0	685.8	224.0	83.8	53.0
47.5°	2349.8	2093.3	1840.1	1595.6	1363.0	1145.8	949.1	766.2	224.0	75.2	46.2
50°	2686.7	2365.2	2095.0	1811.1	1549.4	1292.9	1058.6	850.0	225.7	68.4	37.6
52.5°	2991.1	2647.4	2344.7	2016.3	1727.3	1429.7	1174.9	932.0	222.3	59.9	30.8
55°	3413.5	3009.9	2659.3	2296.8	1958.2	1623.0	1333.9	1055.2	224.0	53.0	25.7
57.5°	4191.6	3717.9	3295.5	2820.1	2430.2	1997.5	1646.9	1308.3	244.6	44.5	18.8
60°	5308.4	4692.7	4099.3	3519.5	3023.6	2508.8	2053.9	1655.5	287.3	35.9	13.7
62.5°	6059.2	5253.7	4545.6	3906.0	3329.7	2791.0	2295.1	1841.9	316.4	29.1	8.6
63°	6136.1	5303.3	4591.8	3931.7	3343.4	2804.7	2305.3	1855.5	318.1	27.4	8.6
65°	6281.5	5388.8	4617.5	3936.8	3329.7	2785.9	2298.5	1853.8	321.5	22.2	6.8
67.5°	6115.6	5257.1	4468.7	3789.7	3210.0	2674.7	2213.0	1785.4	319.8	15.4	5.1
70°	5469.1	4757.7	4065.1	3432.3	2905.6	2421.6	2014.6	1628.1	294.2	10.3	3.4
72.5°	4015.5	3531.5	2994.5	2537.9	2189.0	1817.9	1551.1	1222.8	227.5	6.8	1.7
75°	1190.3	1084.3	911.5	803.8	709.7	586.6	521.6	407.0	116.3	3.4	0.0
77.5°	237.7	215.5	193.2	176.1	165.9	141.9	135.1	111.2	47.9	1.7	0.0
80°	124.8	102.6	87.2	77.0	66.7	54.7	46.2	37.6	8.6	0.0	0.0
82.5°	119.7	80.4	58.1	47.9	41.0	32.5	25.7	18.8	5.1	0.0	0.0
85°	44.5	34.2	25.7	20.5	17.1	15.4	12.0	10.3	0.0	0.0	0.0
87.5°	6.8	5.1	5.1	3.4	3.4	1.7	1.7	1.7	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°	360.8	360.8	360.8	360.8	360.8	360.8	360.8
2.5°	306.1	292.4	285.6	277.0	277.0	275.3	278.8
5°	254.8	236.0	222.3	212.1	213.8	208.6	210.4
7.5°	215.5	196.7	184.7	177.9	176.1	174.4	174.4
10°	186.4	169.3	159.0	153.9	152.2	152.2	152.2
12.5°	165.9	148.8	140.2	136.8	136.8	135.1	135.1
15°	148.8	135.1	126.6	123.1	123.1	121.4	123.1
17.5°	135.1	121.4	114.6	111.2	111.2	109.5	109.5
20°	123.1	111.2	104.3	99.2	99.2	97.5	99.2
22.5°	112.9	100.9	92.3	88.9	87.2	85.5	87.2
25°	102.6	90.6	82.1	77.0	75.2	75.2	73.5
27.5°	94.1	82.1	71.8	66.7	65.0	65.0	63.3
30°	85.5	71.8	61.6	56.4	54.7	54.7	54.7
32.5°	77.0	61.6	53.0	47.9	46.2	46.2	46.2
35°	68.4	53.0	44.5	39.3	37.6	37.6	37.6
37.5°	58.1	44.5	34.2	30.8	29.1	27.4	27.4
40°	49.6	34.2	25.7	22.2	18.8	18.8	18.8
42.5°	41.0	27.4	18.8	13.7	12.0	10.3	12.0
45°	34.2	20.5	12.0	6.8	5.1	5.1	5.1
47.5°	27.4	13.7	5.1	1.7	1.7	1.7	1.7
50°	20.5	8.6	1.7	0.0	0.0	1.7	1.7
52.5°	15.4	5.1	0.0	0.0	0.0	0.0	0.0
55°	8.6	1.7	0.0	0.0	0.0	0.0	0.0
57.5°	5.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.4	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.7	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)