

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: P149675

Luminaire Tested: **TMU-F06-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149675
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-F06-LED-E-U-SL2-HSS
Description: TALON MEDIUM LED AREA LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9082 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

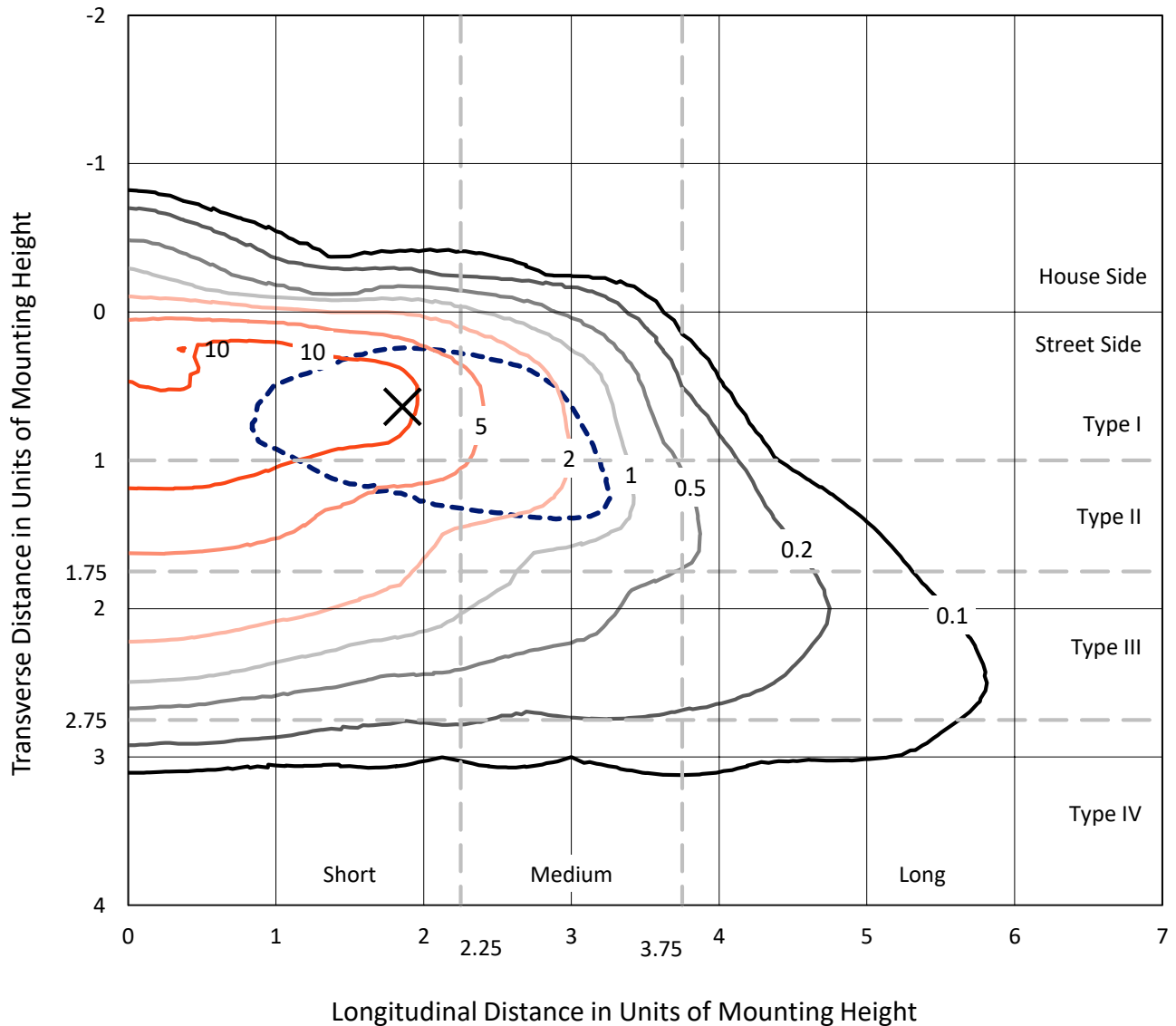
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

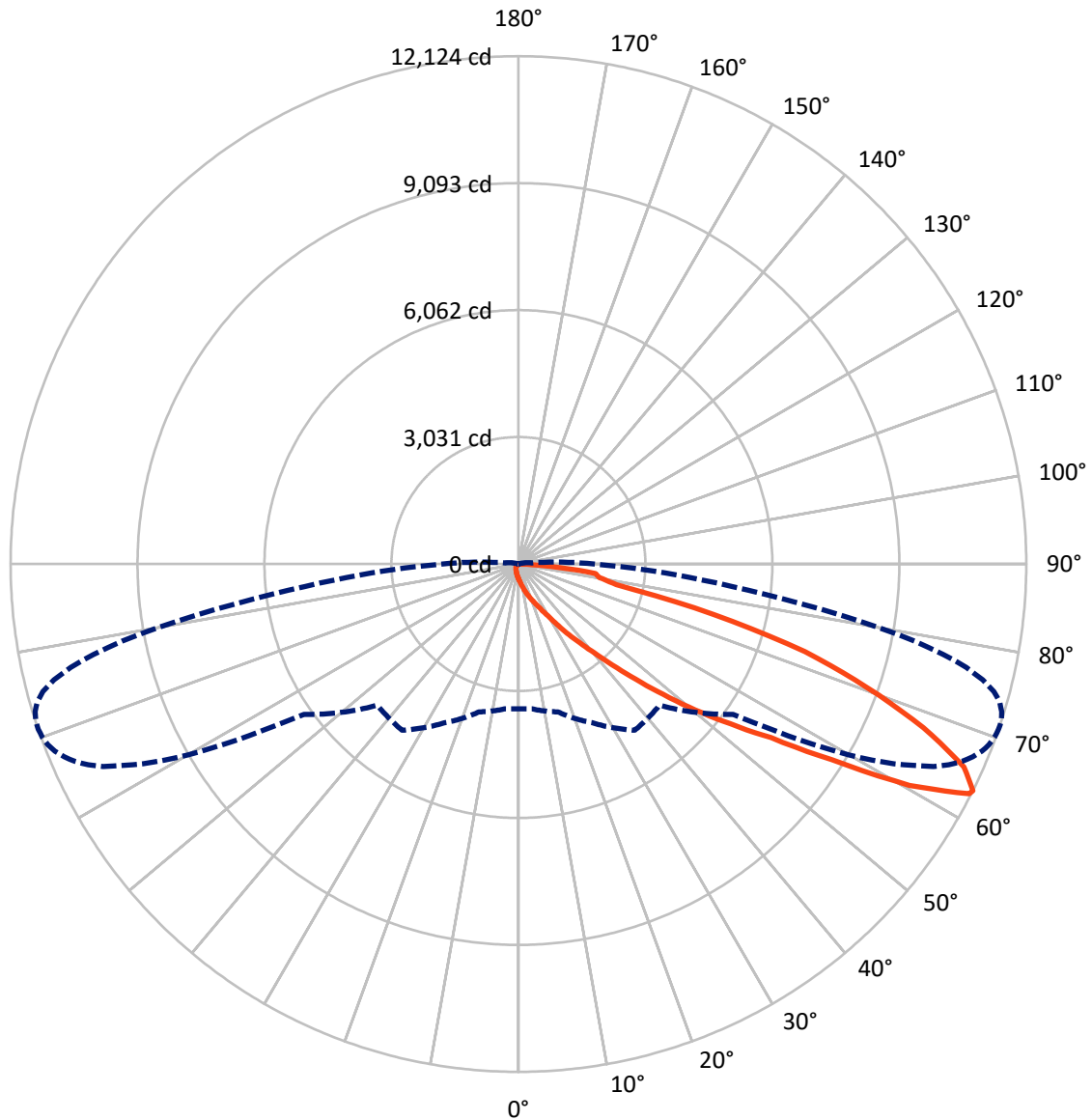
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 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	192.8	0.0	192.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8889.2	0.0	8889.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	9082.0	0.0	9082.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	0.4
10°-20°	149.3	1.6
20°-30°	303.3	3.3
30°-40°	741.1	8.2
40°-50°	1657.3	18.2
50°-60°	2330.4	25.7
60°-70°	2740.3	30.2
70°-80°	989.5	10.9
80°-90°	132.3	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°	9082.0	100.0
0°-180°	9082.0	100.0



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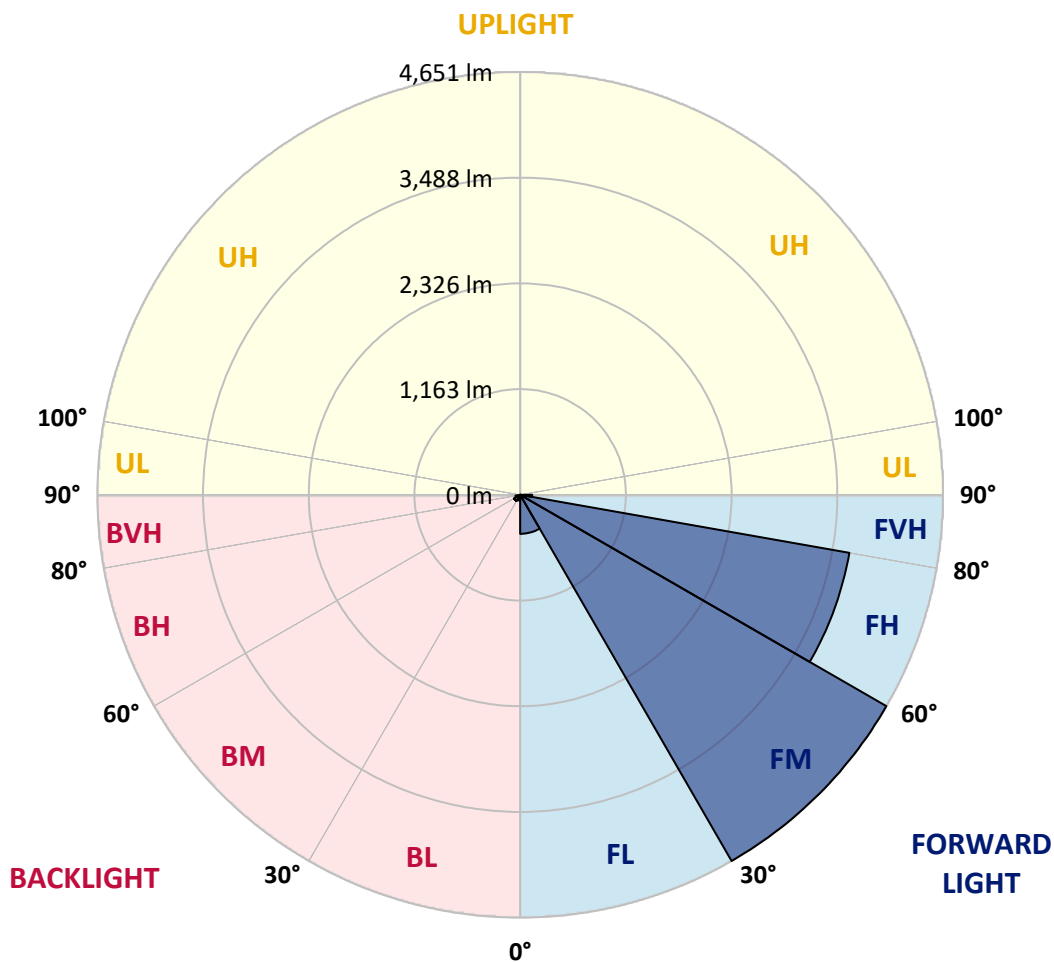
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.2	4.7			
FM	(30°-60°)	4651.0	51.2			
FH	(60°-80°)	3676.9	40.5			G2/5000
FVH	(80°-90°)	132.0	1.5			G2/225
BL	(0°-30°)	62.0	0.7	B0/110		
BM	(30°-60°)	77.7	0.9	B0/220		
BH	(60°-80°)	52.9	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°	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4
2.5°	455.7	460.6	457.3	449.1	439.2	426.0	414.4	414.4	412.8	407.8	409.5
5°	597.7	599.3	592.7	572.9	554.8	526.7	495.3	492.0	488.7	483.8	482.1
7.5°	736.4	743.0	736.4	714.9	678.6	635.7	586.1	581.2	571.3	571.3	564.7
10°	878.4	878.4	871.8	847.0	814.0	752.9	690.1	681.9	670.3	667.0	657.1
12.5°	979.1	979.1	975.8	962.6	936.1	881.7	805.7	797.5	782.6	777.6	766.1
15°	1018.7	1018.7	1020.3	1031.9	1033.6	1008.8	929.5	922.9	908.1	894.9	889.9
17.5°	1043.5	1041.8	1041.8	1058.3	1088.0	1104.6	1053.4	1046.8	1030.3	1023.7	1007.1
20°	1097.9	1094.6	1084.7	1084.7	1112.8	1170.6	1170.6	1168.9	1150.8	1145.8	1137.6
22.5°	1178.8	1175.5	1145.8	1121.1	1134.3	1206.9	1274.6	1271.3	1264.7	1258.1	1253.1
25°	1310.9	1299.4	1248.2	1175.5	1164.0	1241.6	1353.9	1362.1	1367.1	1367.1	1370.4
27.5°	1510.7	1495.9	1405.0	1269.7	1218.5	1297.7	1441.4	1457.9	1472.7	1476.0	1490.9
30°	1788.1	1761.7	1631.2	1433.1	1315.9	1380.3	1570.1	1588.3	1609.8	1616.4	1639.5
32.5°	2243.8	2228.9	2103.4	1806.2	1555.3	1542.1	1750.1	1773.2	1801.3	1812.9	1840.9
35°	2937.2	2940.5	2838.2	2570.7	2224.0	2042.3	2072.1	2091.9	2101.8	2136.5	2151.3
37.5°	3407.8	3416.0	3439.1	3333.5	3085.8	2900.9	2668.1	2689.6	2638.4	2643.3	2645.0
40°	3665.3	3691.7	3827.1	3929.5	3909.7	3802.4	3615.8	3627.4	3531.6	3510.1	3406.1
42.5°	3837.0	3871.7	4088.0	4405.0	4566.8	4664.2	4621.3	4616.3	4542.0	4514.0	4426.5
45°	3944.4	3975.7	4248.2	4715.4	5088.5	5372.5	5489.7	5502.9	5440.2	5412.1	5339.5
47.5°	3939.4	3975.7	4268.0	4831.0	5380.8	5834.8	6165.0	6181.5	6219.5	6194.7	6199.7
50°	3721.5	3756.1	4050.0	4634.5	5294.9	6046.1	6650.4	6703.3	6764.4	6805.6	6825.4
52.5°	3457.3	3482.1	3742.9	4297.7	4928.4	5958.6	6937.7	7028.5	7119.3	7196.9	7251.4
55°	3359.9	3388.0	3592.7	4053.3	4634.5	5592.1	7071.4	7205.2	7334.0	7461.1	7565.1
57.5°	3411.1	3437.5	3584.4	3937.8	4459.5	5205.8	7109.4	7317.5	7528.8	7735.2	7939.9
60°	3599.3	3627.4	3752.8	4045.1	4413.3	4982.9	6960.8	7305.9	7657.6	8017.5	8356.0
62.5°	3525.0	3536.5	3721.5	4233.3	4743.5	4793.0	6420.9	6903.0	7439.6	7994.4	8540.9
63°	3454.0	3467.2	3655.4	4182.1	4844.2	4764.9	6254.2	6762.7	7329.0	7926.7	8521.1
65°	3132.0	3133.7	3277.3	3693.4	4731.9	4814.5	5511.2	5996.6	6647.1	7363.7	8114.9
67.5°	2337.9	2326.3	2465.0	2782.0	3714.9	4816.1	4730.3	5002.7	5455.1	6090.7	6764.4
70°	828.8	810.7	1035.2	1474.4	2314.8	3939.4	4064.9	4083.0	4208.5	4551.9	4974.6
72.5°	269.1	274.1	330.2	539.9	1066.6	2651.6	3680.2	3624.1	3591.0	3589.4	3645.5
75°	107.3	109.0	132.1	239.4	478.8	1277.9	3222.8	3254.2	3265.8	3282.3	3300.4
77.5°	51.2	56.1	74.3	133.7	237.8	632.4	2306.5	2572.3	2724.2	2841.5	2912.5
80°	18.2	21.5	41.3	82.6	110.6	290.6	1215.2	1466.1	1689.0	1976.3	2224.0
82.5°	0.0	0.0	8.3	57.8	61.1	117.2	498.6	584.5	668.7	866.8	1112.8
85°	0.0	0.0	0.0	16.5	18.2	19.8	168.4	203.1	227.8	265.8	307.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.0	9.9	24.8	38.0
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°	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4
2.5°	406.2	404.5	404.5	401.2	399.6	396.3	394.6	389.6	388.0	388.0	388.0
5°	480.5	473.9	470.5	462.3	457.3	455.7	447.4	444.1	439.2	440.8	432.6
7.5°	563.0	551.5	546.5	534.9	531.6	520.1	516.8	508.5	503.6	493.7	490.4
10°	653.8	639.0	630.7	612.5	607.6	599.3	589.4	579.5	571.3	561.4	556.4
12.5°	757.8	744.6	738.0	713.3	701.7	690.1	676.9	663.7	650.5	642.3	630.7
15°	880.0	858.5	851.9	828.8	809.0	794.2	776.0	759.5	749.6	733.1	721.5
17.5°	1000.5	979.1	974.1	939.4	918.0	908.1	888.3	866.8	848.6	832.1	814.0
20°	1121.1	1106.2	1093.0	1060.0	1036.9	1020.3	993.9	972.5	957.6	934.5	911.4
22.5°	1241.6	1226.7	1216.8	1182.2	1160.7	1137.6	1114.5	1091.3	1069.9	1041.8	1015.4
25°	1365.4	1355.5	1350.6	1319.2	1299.4	1277.9	1254.8	1228.4	1202.0	1170.6	1142.5
27.5°	1494.2	1497.5	1487.6	1481.0	1459.5	1444.7	1408.3	1390.2	1370.4	1332.4	1297.7
30°	1657.7	1667.6	1664.3	1669.2	1656.0	1646.1	1618.0	1594.9	1571.8	1535.5	1495.9
32.5°	1864.0	1877.2	1883.8	1902.0	1895.4	1892.1	1883.8	1850.8	1834.3	1771.6	1755.1
35°	2182.7	2176.1	2204.2	2219.0	2212.4	2209.1	2199.2	2181.0	2161.2	2116.6	2075.4
37.5°	2597.1	2603.7	2613.6	2583.9	2564.1	2562.4	2532.7	2514.5	2486.5	2436.9	2387.4
40°	3356.6	3315.3	3269.1	3143.6	3089.1	3057.7	2970.2	2945.5	2897.6	2829.9	2778.7
42.5°	4343.9	4302.6	4163.9	3954.3	3842.0	3686.8	3615.8	3528.3	3460.6	3350.0	3290.5
45°	5324.6	5205.8	5189.2	4944.9	4806.2	4601.5	4474.3	4327.4	4173.9	4028.6	3922.9
47.5°	6151.8	6125.4	6044.5	5895.9	5767.1	5595.4	5432.0	5205.8	5047.3	4840.9	4651.0
50°	6813.9	6812.2	6782.5	6696.7	6589.3	6450.7	6307.0	6115.5	5935.5	5682.9	5479.8
52.5°	7309.2	7335.6	7345.5	7319.1	7277.8	7155.7	7083.0	6922.9	6771.0	6556.3	6336.7
55°	7672.4	7769.8	7819.4	7875.5	7864.0	7821.0	7817.7	7713.7	7644.4	7474.3	7319.1
57.5°	8121.5	8281.7	8435.2	8707.6	8717.5	8813.3	8862.8	8912.4	8925.6	8857.9	8806.7
60°	8692.8	9019.7	9310.3	9879.9	10028.5	10262.9	10414.8	10579.9	10720.3	10731.8	10728.5
62.5°	9095.6	9599.2	10068.1	10913.4	11202.4	11473.1	11676.2	11836.4	11933.8	12032.9	12079.1
63°	9107.2	9658.6	10157.3	11029.0	11332.8	11590.4	11783.5	11932.1	12034.5	12093.9	12123.7
65°	8828.2	9496.8	10091.2	10959.7	11245.3	11504.5	11605.2	11702.6	11752.2	11775.3	11687.8
67.5°	7482.6	8136.4	8829.8	9800.6	10045.0	10355.4	10437.9	10487.5	10510.6	10505.6	10431.3
70°	5595.4	6143.6	6914.6	8024.1	8347.7	8651.5	8839.7	8920.6	8947.0	8938.8	8828.2
72.5°	3906.4	4228.3	4864.0	6099.0	6539.8	6929.5	7162.3	7282.8	7307.5	7258.0	7155.7
75°	3280.6	3297.1	3440.8	4116.1	4528.8	4944.9	5207.4	5283.4	5233.8	5083.6	4822.7
77.5°	2929.0	2965.3	2965.3	3066.0	3146.9	3262.5	3287.2	3102.3	2887.7	2610.3	2385.8
80°	2456.8	2583.9	2673.0	2747.3	2755.6	2732.5	2671.4	2567.4	2402.3	2190.9	1956.5
82.5°	1492.5	1743.5	1845.9	2228.9	2417.1	2544.3	2534.4	2395.7	2270.2	2050.6	1850.8
85°	376.4	406.2	440.8	572.9	642.3	784.2	873.4	914.7	929.5	853.6	772.7
87.5°	36.3	24.8	41.3	31.4	44.6	33.0	44.6	41.3	51.2	54.5	59.4
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4
2.5°	384.7	383.0	381.4	379.7	378.1	376.4	373.1	373.1	369.8	368.2	366.5
5°	427.6	424.3	422.7	419.4	414.4	411.1	406.2	399.6	394.6	392.9	389.6
7.5°	482.1	473.9	470.5	465.6	459.0	449.1	442.5	437.5	429.3	424.3	414.4
10°	543.2	534.9	525.0	515.1	505.2	493.7	485.4	478.8	465.6	459.0	447.4
12.5°	620.8	605.9	594.4	581.2	568.0	554.8	544.8	525.0	513.5	498.6	488.7
15°	700.0	686.8	673.6	657.1	637.3	615.8	605.9	587.8	572.9	549.8	536.6
17.5°	795.8	771.0	751.2	731.4	713.3	693.4	673.6	645.6	624.1	604.3	577.9
20°	889.9	860.2	838.7	812.3	785.9	754.5	731.4	711.6	681.9	655.5	627.4
22.5°	990.6	960.9	926.2	899.8	863.5	838.7	807.4	774.3	744.6	710.0	675.3
25°	1112.8	1081.4	1041.8	1007.1	965.9	931.2	893.2	855.2	818.9	779.3	734.7
27.5°	1263.1	1230.0	1187.1	1145.8	1091.3	1048.4	1012.1	960.9	914.7	865.2	814.0
30°	1452.9	1416.6	1363.8	1304.3	1249.8	1202.0	1150.8	1083.1	1031.9	972.5	906.4
32.5°	1700.6	1657.7	1586.7	1530.5	1462.8	1400.1	1329.1	1261.4	1188.8	1111.2	1035.2
35°	2012.6	1973.0	1890.5	1807.9	1733.6	1659.3	1570.1	1492.5	1390.2	1296.1	1198.7
37.5°	2336.2	2265.2	2189.3	2100.1	2007.7	1918.5	1809.6	1702.2	1585.0	1482.6	1360.5
40°	2706.1	2620.2	2557.5	2461.7	2331.3	2204.2	2103.4	1969.7	1822.8	1685.7	1542.1
42.5°	3212.9	3117.2	3004.9	2859.6	2765.5	2616.9	2486.5	2328.0	2134.8	1981.3	1807.9
45°	3799.1	3668.6	3559.7	3419.3	3305.4	3120.5	2968.6	2757.3	2564.1	2362.7	2151.3
47.5°	4467.7	4305.9	4147.4	4008.7	3827.1	3645.5	3452.3	3227.8	2980.1	2758.9	2507.9
50°	5235.5	5006.0	4786.4	4608.1	4358.8	4149.1	3939.4	3686.8	3412.7	3158.5	2872.8
52.5°	6089.1	5823.3	5532.7	5258.6	4969.7	4700.5	4447.9	4157.3	3851.9	3541.5	3222.8
55°	7119.3	6919.5	6577.8	6229.4	5843.1	5483.1	5157.9	4798.0	4426.5	4018.7	3683.5
57.5°	8732.4	8635.0	8349.4	8001.0	7497.4	7059.9	6508.4	6067.6	5529.4	4968.0	4535.4
60°	10918.4	10797.9	10637.7	10355.4	9955.8	9361.5	8753.9	8068.7	7249.8	6472.1	5734.1
62.5°	12084.0	12041.1	11910.7	11715.8	11342.7	10873.8	10261.3	9508.4	8583.8	7639.4	6698.3
63°	12118.7	12064.2	11951.9	11753.8	11425.3	10971.2	10370.2	9638.8	8734.1	7771.5	6810.6
65°	11649.8	11628.3	11514.4	11298.1	11073.6	10726.9	10261.3	9632.2	8872.7	7963.0	7007.1
67.5°	10332.3	10267.9	10092.9	10026.8	9870.0	9628.9	9273.9	8841.4	8298.2	7583.3	6757.7
70°	8739.0	8643.2	8423.7	8306.4	8114.9	7963.0	7746.7	7438.0	7102.8	6604.2	5988.4
72.5°	7050.0	6851.9	6650.4	6345.0	6077.5	5806.7	5567.3	5349.4	4981.2	4779.8	4312.5
75°	4578.4	4218.4	3873.4	3411.1	2995.0	2626.8	2268.5	2086.9	1708.8	1555.3	1335.7
77.5°	2172.8	1971.4	1700.6	1490.9	1223.4	998.9	815.6	612.5	480.5	376.4	287.3
80°	1753.4	1583.4	1419.9	1230.0	1028.6	820.6	629.0	470.5	333.5	231.1	163.5
82.5°	1563.5	1378.6	1177.2	1046.8	909.7	744.6	610.9	498.6	368.2	269.1	183.3
85°	607.6	511.8	394.6	322.0	251.0	206.4	186.6	128.8	100.7	79.3	61.1
87.5°	52.8	42.9	34.7	23.1	24.8	13.2	14.9	9.9	8.3	8.3	6.6
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4	348.4
2.5°	364.9	363.2	361.6	358.3	358.3	355.0	353.3	351.7	343.4	325.3	310.4
5°	383.0	379.7	376.4	371.5	368.2	363.2	359.9	355.0	336.8	302.1	272.4
7.5°	409.5	402.9	397.9	388.0	383.0	376.4	371.5	363.2	333.5	280.7	239.4
10°	440.8	429.3	421.0	409.5	399.6	391.3	383.0	371.5	330.2	257.6	209.7
12.5°	478.8	465.6	449.1	435.9	422.7	411.1	399.6	384.7	325.3	237.8	186.6
15°	516.8	497.0	485.4	467.2	449.1	432.6	416.1	402.9	326.9	216.3	166.8
17.5°	559.7	539.9	515.1	495.3	475.5	454.0	434.2	407.8	318.7	199.8	151.9
20°	601.0	572.9	549.8	525.0	497.0	470.5	445.8	422.7	312.0	183.3	138.7
22.5°	645.6	612.5	582.8	551.5	516.8	487.1	457.3	427.6	300.5	168.4	127.1
25°	700.0	662.1	619.1	581.2	544.8	508.5	470.5	434.2	288.9	155.2	118.9
27.5°	766.1	716.6	673.6	625.7	574.6	528.3	487.1	447.4	277.4	145.3	110.6
30°	850.3	792.5	731.4	670.3	615.8	563.0	505.2	455.7	265.8	135.4	102.4
32.5°	962.6	889.9	815.6	744.6	672.0	604.3	543.2	478.8	259.2	127.1	94.1
35°	1111.2	1017.0	926.2	837.1	749.6	667.0	587.8	515.1	259.2	117.2	84.2
37.5°	1251.5	1142.5	1027.0	916.3	812.3	716.6	622.4	534.9	246.0	109.0	75.9
40°	1403.4	1273.0	1137.6	1007.1	881.7	762.8	655.5	554.8	234.4	99.1	67.7
42.5°	1636.2	1471.1	1294.4	1142.5	992.3	845.3	711.6	592.7	219.6	89.2	59.4
45°	1941.6	1732.0	1523.9	1339.0	1147.5	967.5	809.0	662.1	216.3	80.9	51.2
47.5°	2268.5	2020.9	1776.5	1540.4	1315.9	1106.2	916.3	739.7	216.3	72.6	44.6
50°	2593.8	2283.4	2022.5	1748.5	1495.9	1248.2	1022.0	820.6	217.9	66.0	36.3
52.5°	2887.7	2555.8	2263.6	1946.6	1667.6	1380.3	1134.3	899.8	214.6	57.8	29.7
55°	3295.5	2905.8	2567.4	2217.4	1890.5	1566.8	1287.8	1018.7	216.3	51.2	24.8
57.5°	4046.7	3589.4	3181.6	2722.6	2346.1	1928.4	1590.0	1263.1	236.1	42.9	18.2
60°	5124.9	4530.5	3957.6	3397.9	2919.1	2422.1	1982.9	1598.2	277.4	34.7	13.2
62.5°	5849.7	5072.0	4388.5	3771.0	3214.6	2694.5	2215.7	1778.2	305.4	28.1	8.3
63°	5924.0	5119.9	4433.1	3795.8	3227.8	2707.7	2225.6	1791.4	307.1	26.4	8.3
65°	6064.3	5202.5	4457.8	3800.7	3214.6	2689.6	2219.0	1789.7	310.4	21.5	6.6
67.5°	5904.2	5075.3	4314.2	3658.7	3099.0	2582.2	2136.5	1723.7	308.7	14.9	5.0
70°	5280.1	4593.2	3924.5	3313.7	2805.1	2337.9	1944.9	1571.8	284.0	9.9	3.3
72.5°	3876.7	3409.4	2891.0	2450.2	2113.3	1755.1	1497.5	1180.5	219.6	6.6	1.7
75°	1149.1	1046.8	880.0	776.0	685.2	566.3	503.6	392.9	112.3	3.3	0.0
77.5°	229.5	208.0	186.6	170.1	160.2	137.0	130.4	107.3	46.2	1.7	0.0
80°	120.5	99.1	84.2	74.3	64.4	52.8	44.6	36.3	8.3	0.0	0.0
82.5°	115.6	77.6	56.1	46.2	39.6	31.4	24.8	18.2	5.0	0.0	0.0
85°	42.9	33.0	24.8	19.8	16.5	14.9	11.6	9.9	0.0	0.0	0.0
87.5°	6.6	5.0	5.0	3.3	3.3	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°	348.4	348.4	348.4	348.4	348.4	348.4	348.4
2.5°	295.5	282.3	275.7	267.5	267.5	265.8	269.1
5°	246.0	227.8	214.6	204.7	206.4	201.4	203.1
7.5°	208.0	189.9	178.3	171.7	170.1	168.4	168.4
10°	180.0	163.5	153.5	148.6	146.9	146.9	146.9
12.5°	160.2	143.6	135.4	132.1	132.1	130.4	130.4
15°	143.6	130.4	122.2	118.9	118.9	117.2	118.9
17.5°	130.4	117.2	110.6	107.3	107.3	105.7	105.7
20°	118.9	107.3	100.7	95.8	95.8	94.1	95.8
22.5°	109.0	97.4	89.2	85.9	84.2	82.6	84.2
25°	99.1	87.5	79.3	74.3	72.6	72.6	71.0
27.5°	90.8	79.3	69.3	64.4	62.7	62.7	61.1
30°	82.6	69.3	59.4	54.5	52.8	52.8	52.8
32.5°	74.3	59.4	51.2	46.2	44.6	44.6	44.6
35°	66.0	51.2	42.9	38.0	36.3	36.3	36.3
37.5°	56.1	42.9	33.0	29.7	28.1	26.4	26.4
40°	47.9	33.0	24.8	21.5	18.2	18.2	18.2
42.5°	39.6	26.4	18.2	13.2	11.6	9.9	11.6
45°	33.0	19.8	11.6	6.6	5.0	5.0	5.0
47.5°	26.4	13.2	5.0	1.7	1.7	1.7	1.7
50°	19.8	8.3	1.7	0.0	0.0	1.7	1.7
52.5°	14.9	5.0	0.0	0.0	0.0	0.0	0.0
55°	8.3	1.7	0.0	0.0	0.0	0.0	0.0
57.5°	5.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.3	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)