

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: P163406

Luminaire Tested: **OVF-E05-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163406
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: OVF-E05-LED-E-U-SL2-HSS-7030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8122.2 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

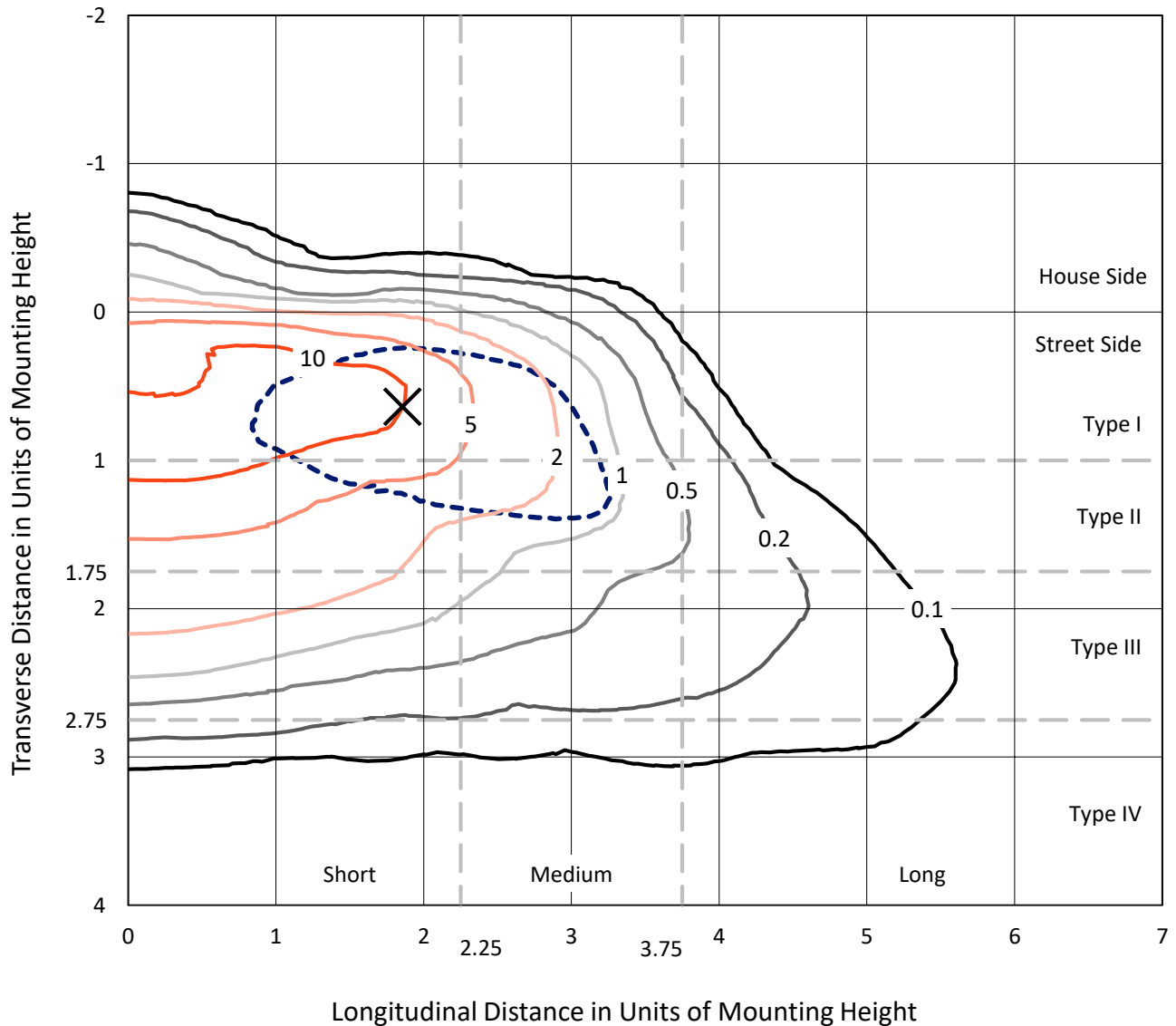
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

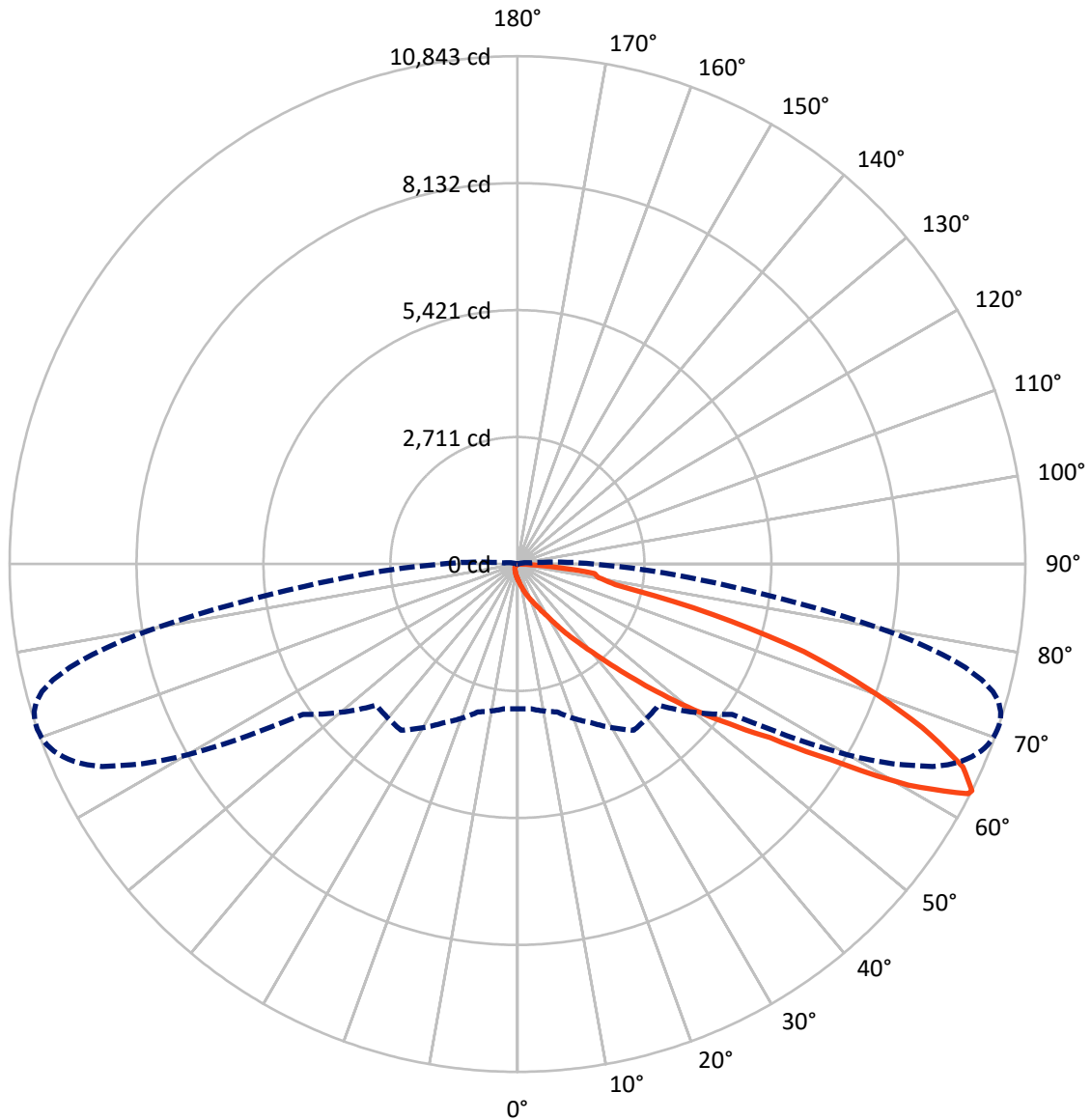
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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	172.5	0.0	172.5
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7949.8	0.0	7949.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	8122.2	0.0	8122.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	0.4
10°-20°	133.5	1.6
20°-30°	271.3	3.3
30°-40°	662.7	8.2
40°-50°	1482.2	18.2
50°-60°	2084.1	25.7
60°-70°	2450.7	30.2
70°-80°	884.9	10.9
80°-90°	118.3	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°	8122.2	100.0
0°-180°	8122.2	100.0



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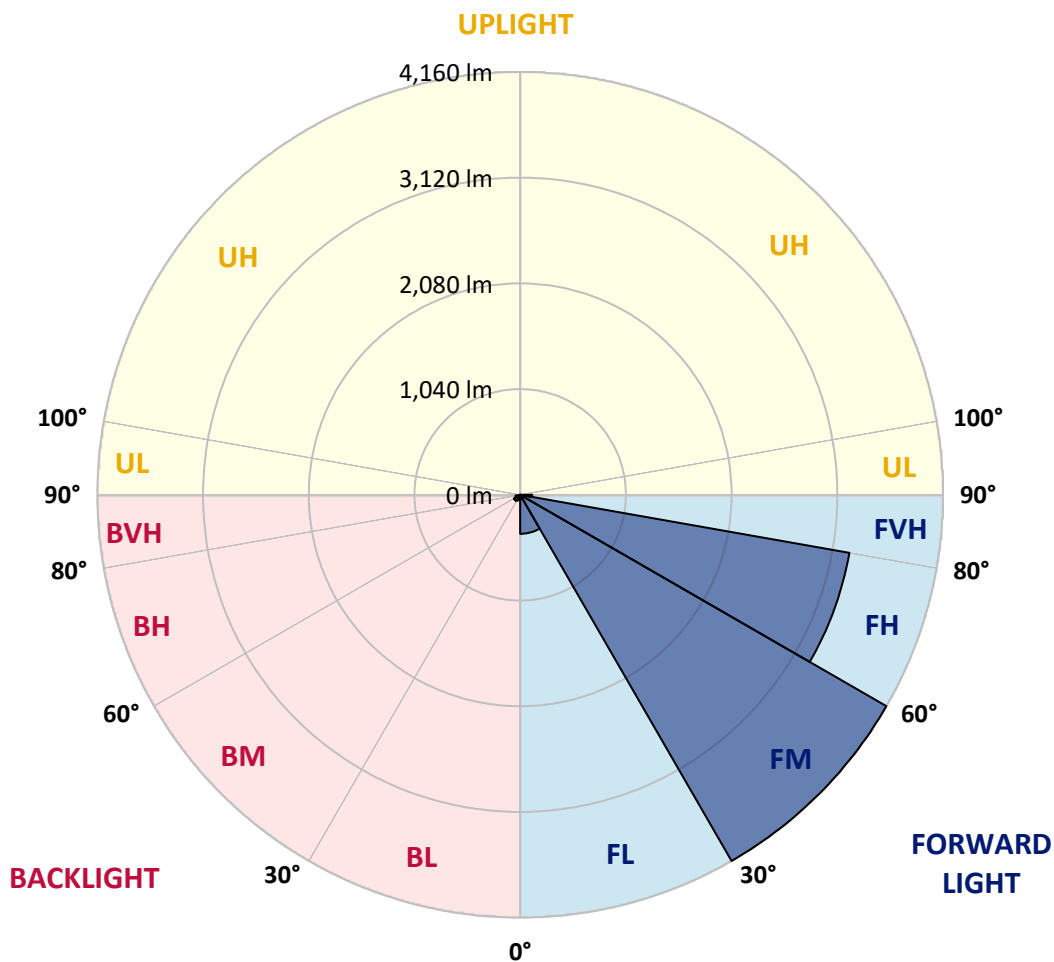
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.8	4.7			
FM	(30°-60°)	4159.5	51.2			
FH	(60°-80°)	3288.4	40.5			G2/5000
FVH	(80°-90°)	118.1	1.5			G2/225
BL	(0°-30°)	55.4	0.7	B0/110		
BM	(30°-60°)	69.5	0.9	B0/220		
BH	(60°-80°)	47.3	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°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	407.5	411.9	409.0	401.6	392.7	381.0	370.6	370.6	369.2	364.7	366.2
5°	534.5	536.0	530.1	512.4	496.1	471.0	443.0	440.1	437.0	432.7	431.2
7.5°	658.5	664.5	658.5	639.3	606.8	568.5	524.2	519.8	510.9	510.9	505.0
10°	785.6	785.6	779.6	757.4	727.9	673.3	617.2	609.8	599.5	596.5	587.6
12.5°	875.6	875.6	872.6	860.8	837.2	788.5	720.5	713.1	699.9	695.4	685.1
15°	911.1	911.1	912.5	922.8	924.3	902.2	831.3	825.4	812.2	800.3	795.9
17.5°	933.2	931.7	931.7	946.5	973.1	987.8	942.0	936.2	921.4	915.5	900.7
20°	981.9	978.9	970.1	970.1	995.2	1046.9	1046.9	1045.4	1029.2	1024.8	1017.4
22.5°	1054.3	1051.4	1024.8	1002.6	1014.4	1079.4	1140.0	1136.9	1131.1	1125.2	1120.7
25°	1172.4	1162.1	1116.3	1051.4	1040.9	1110.4	1210.8	1218.1	1222.6	1222.6	1225.5
27.5°	1351.0	1337.8	1256.6	1135.5	1089.7	1160.6	1289.0	1303.8	1317.1	1320.1	1333.3
30°	1599.1	1575.5	1458.9	1281.7	1176.9	1234.4	1404.2	1420.4	1439.6	1445.6	1466.2
32.5°	2006.6	1993.4	1881.1	1615.4	1390.9	1379.2	1565.1	1585.9	1611.0	1621.3	1646.4
35°	2626.8	2629.8	2538.2	2299.0	1988.9	1826.5	1853.1	1870.8	1879.7	1910.6	1924.0
37.5°	3047.7	3055.0	3075.7	2981.2	2759.7	2594.4	2386.1	2405.3	2359.5	2364.0	2365.5
40°	3278.0	3301.6	3422.7	3514.2	3496.5	3400.5	3233.7	3244.0	3158.4	3139.2	3046.1
42.5°	3431.5	3462.5	3656.0	3939.5	4084.2	4171.3	4132.9	4128.5	4062.0	4036.9	3958.6
45°	3527.5	3555.6	3799.2	4217.1	4550.8	4804.8	4909.6	4921.4	4865.3	4840.2	4775.2
47.5°	3523.1	3555.6	3816.9	4320.4	4812.2	5218.2	5513.5	5528.2	5562.2	5540.1	5544.5
50°	3328.2	3359.2	3622.0	4144.7	4735.4	5407.2	5947.6	5994.9	6049.5	6086.4	6104.1
52.5°	3092.0	3114.1	3347.3	3843.5	4407.6	5328.9	6204.6	6285.8	6367.0	6436.4	6485.1
55°	3004.8	3029.9	3213.0	3625.0	4144.7	5001.1	6324.1	6443.8	6559.0	6672.6	6765.6
57.5°	3050.6	3074.2	3205.6	3521.6	3988.2	4655.6	6358.1	6544.2	6733.1	6917.7	7100.8
60°	3218.9	3244.0	3356.2	3617.6	3946.9	4456.2	6225.2	6533.8	6848.3	7170.3	7472.9
62.5°	3152.4	3162.8	3328.2	3785.9	4242.1	4286.4	5742.4	6173.5	6653.4	7149.5	7638.3
63°	3089.0	3100.8	3269.2	3740.2	4332.3	4261.4	5593.3	6048.0	6554.5	7089.0	7620.5
65°	2801.1	2802.5	2931.0	3303.0	4231.8	4305.7	4928.8	5362.9	5944.6	6585.5	7257.3
67.5°	2090.8	2080.5	2204.6	2488.1	3322.3	4307.2	4230.4	4474.0	4878.6	5447.0	6049.5
70°	741.3	725.0	925.8	1318.6	2070.1	3523.1	3635.3	3651.6	3763.7	4070.9	4448.9
72.5°	240.7	245.1	295.3	482.8	953.9	2371.3	3291.3	3241.0	3211.5	3210.1	3260.3
75°	96.0	97.5	118.1	214.1	428.2	1142.9	2882.3	2910.3	2920.6	2935.4	2951.7
77.5°	45.8	50.2	66.4	119.6	212.6	565.5	2062.8	2300.5	2436.4	2541.2	2604.7
80°	16.3	19.2	36.9	73.8	98.9	259.8	1086.8	1311.2	1510.5	1767.4	1988.9
82.5°	0.0	0.0	7.4	51.7	54.6	104.9	445.9	522.7	598.0	775.2	995.2
85°	0.0	0.0	0.0	14.8	16.3	17.7	150.6	181.6	203.8	237.7	274.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.4	8.9	22.1	34.0
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°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	363.2	361.8	361.8	358.8	357.3	354.4	352.9	348.4	347.0	347.0	347.0
5°	429.6	423.8	420.8	413.5	409.0	407.5	400.1	397.2	392.7	394.2	386.9
7.5°	503.5	493.2	488.7	478.4	475.5	465.1	462.2	454.8	450.4	441.5	438.5
10°	584.7	571.4	564.1	547.8	543.4	536.0	527.1	518.2	510.9	502.1	497.6
12.5°	677.7	665.9	660.0	637.9	627.6	617.2	605.4	593.6	581.8	574.4	564.1
15°	787.0	767.9	761.9	741.3	723.6	710.2	694.0	679.3	670.4	655.6	645.3
17.5°	894.8	875.6	871.2	840.2	821.0	812.2	794.4	775.2	759.0	744.2	727.9
20°	1002.6	989.3	977.5	948.0	927.3	912.5	888.9	869.7	856.4	835.7	815.1
22.5°	1110.4	1097.1	1088.3	1057.2	1038.0	1017.4	996.6	976.0	956.8	931.7	908.1
25°	1221.1	1212.3	1207.8	1179.8	1162.1	1142.9	1122.2	1098.6	1074.9	1046.9	1021.8
27.5°	1336.3	1339.2	1330.4	1324.4	1305.3	1292.0	1259.5	1243.3	1225.5	1191.6	1160.6
30°	1482.5	1491.3	1488.4	1492.8	1481.0	1472.1	1447.0	1426.4	1405.7	1373.2	1337.8
32.5°	1667.0	1678.8	1684.8	1701.0	1695.1	1692.2	1684.8	1655.3	1640.5	1584.4	1569.6
35°	1952.0	1946.1	1971.2	1984.5	1978.6	1975.7	1966.8	1950.6	1932.8	1892.9	1856.0
37.5°	2322.6	2328.6	2337.4	2310.9	2293.1	2291.6	2265.0	2248.9	2223.7	2179.4	2135.1
40°	3001.8	2964.9	2923.6	2811.4	2762.7	2734.6	2656.4	2634.2	2591.4	2530.8	2485.0
42.5°	3884.8	3847.9	3723.9	3536.4	3435.9	3297.2	3233.7	3155.4	3094.9	2996.0	2942.8
45°	4761.9	4655.6	4640.8	4422.4	4298.3	4115.2	4001.5	3870.0	3732.8	3602.8	3508.4
47.5°	5501.7	5478.1	5405.8	5272.9	5157.7	5004.1	4857.9	4655.6	4513.9	4329.3	4159.5
50°	6093.8	6092.3	6065.7	5988.9	5893.0	5769.0	5640.5	5469.2	5308.3	5082.3	4900.8
52.5°	6536.8	6560.4	6569.3	6545.6	6508.7	6399.5	6334.4	6191.2	6055.4	5863.4	5667.1
55°	6861.6	6948.8	6993.1	7043.2	7032.9	6994.5	6991.5	6898.5	6836.5	6684.4	6545.6
57.5°	7263.2	7406.4	7543.8	7787.4	7796.3	7881.9	7926.2	7970.5	7982.3	7921.8	7876.0
60°	7774.2	8066.5	8326.4	8835.8	8968.6	9178.3	9314.2	9461.9	9587.3	9597.7	9594.7
62.5°	8134.4	8584.8	9004.1	9760.2	10018.5	10260.7	10442.2	10585.5	10672.6	10761.2	10802.6
63°	8144.7	8637.9	9083.8	9863.5	10135.2	10365.5	10538.2	10671.1	10762.7	10815.9	10842.5
65°	7895.2	8493.2	9024.8	9801.4	10056.9	10288.7	10378.8	10465.9	10510.2	10530.8	10452.7
67.5°	6691.8	7276.6	7896.6	8764.9	8983.4	9261.0	9334.9	9379.2	9399.8	9395.4	9329.0
70°	5004.1	5494.4	6183.8	7176.1	7465.5	7737.2	7905.5	7977.9	8001.5	7994.1	7895.2
72.5°	3493.6	3781.5	4350.0	5454.4	5848.7	6197.2	6405.3	6513.1	6535.3	6491.0	6399.5
75°	2934.0	2948.8	3077.2	3681.1	4050.3	4422.4	4657.1	4725.0	4680.7	4546.4	4313.0
77.5°	2619.4	2651.9	2651.9	2742.0	2814.3	2917.7	2939.9	2774.5	2582.5	2334.4	2133.7
80°	2197.2	2310.9	2390.6	2457.0	2464.4	2443.8	2389.1	2296.1	2148.4	1959.4	1749.7
82.5°	1334.9	1559.3	1650.8	1993.4	2161.7	2275.4	2266.6	2142.5	2030.3	1833.9	1655.3
85°	336.7	363.2	394.2	512.4	574.4	701.4	781.1	818.0	831.3	763.4	691.0
87.5°	32.5	22.1	36.9	28.0	39.8	29.5	39.8	36.9	45.8	48.7	53.2
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°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	344.1	342.6	341.0	339.6	338.1	336.7	333.7	333.7	330.7	329.3	327.8
5°	382.4	379.5	378.0	375.0	370.6	367.6	363.2	357.3	352.9	351.5	348.4
7.5°	431.2	423.8	420.8	416.4	410.5	401.6	395.8	391.3	383.9	379.5	370.6
10°	485.8	478.4	469.6	460.7	451.8	441.5	434.1	428.2	416.4	410.5	400.1
12.5°	555.2	541.9	531.6	519.8	507.9	496.1	487.3	469.6	459.2	445.9	437.0
15°	626.1	614.2	602.4	587.6	569.9	550.8	541.9	525.6	512.4	491.7	479.9
17.5°	711.7	689.6	671.9	654.1	637.9	620.2	602.4	577.3	558.1	540.4	516.8
20°	795.9	769.3	750.1	726.5	702.8	674.8	654.1	636.4	609.8	586.2	561.1
22.5°	885.9	859.4	828.3	804.8	772.2	750.1	722.0	692.5	665.9	635.0	603.9
25°	995.2	967.1	931.7	900.7	863.8	832.8	798.8	764.8	732.4	697.0	657.1
27.5°	1129.5	1100.0	1061.7	1024.8	976.0	937.6	905.1	859.4	818.0	773.7	727.9
30°	1299.4	1266.9	1219.7	1166.5	1117.8	1074.9	1029.2	968.6	922.8	869.7	810.6
32.5°	1520.8	1482.5	1419.0	1368.7	1308.3	1252.1	1188.6	1128.1	1063.1	993.7	925.8
35°	1799.9	1764.5	1690.7	1616.8	1550.4	1483.9	1404.2	1334.9	1243.3	1159.1	1072.0
37.5°	2089.4	2025.8	1957.9	1878.2	1795.5	1715.7	1618.3	1522.4	1417.5	1326.0	1216.7
40°	2420.1	2343.3	2287.2	2201.5	2084.9	1971.2	1881.1	1761.6	1630.1	1507.6	1379.2
42.5°	2873.4	2787.7	2687.4	2557.4	2473.3	2340.4	2223.7	2082.0	1909.2	1771.9	1616.8
45°	3397.6	3280.9	3183.5	3058.0	2956.1	2790.7	2654.8	2465.9	2293.1	2112.9	1924.0
47.5°	3995.6	3850.9	3709.1	3585.1	3422.7	3260.3	3087.5	2886.7	2665.2	2467.3	2242.9
50°	4682.2	4477.0	4280.6	4121.1	3898.2	3710.6	3523.1	3297.2	3052.1	2824.7	2569.3
52.5°	5445.6	5207.8	4948.0	4702.8	4444.5	4203.8	3977.9	3718.0	3444.8	3167.2	2882.3
55°	6367.0	6188.3	5882.6	5571.1	5225.6	4903.7	4612.8	4290.9	3958.6	3593.9	3294.2
57.5°	7809.6	7722.5	7467.0	7155.5	6705.1	6313.8	5820.6	5426.4	4945.1	4443.0	4056.1
60°	9764.5	9656.8	9513.5	9261.0	8903.7	8372.1	7828.8	7216.0	6483.6	5788.2	5128.1
62.5°	10807.0	10768.6	10651.9	10477.7	10144.0	9724.7	9176.9	8503.6	7676.7	6832.0	5990.4
63°	10838.0	10789.3	10688.8	10511.7	10217.8	9811.8	9274.3	8620.2	7811.1	6950.2	6090.9
65°	10418.7	10399.5	10297.6	10104.1	9903.4	9593.3	9176.9	8614.3	7935.1	7121.5	6266.6
67.5°	9240.4	9182.7	9026.3	8967.2	8826.9	8611.3	8293.9	7907.1	7421.2	6781.9	6043.5
70°	7815.4	7729.9	7533.4	7428.6	7257.3	7121.5	6928.0	6651.9	6352.2	5906.3	5355.5
72.5°	6304.9	6127.8	5947.6	5674.5	5435.3	5193.1	4978.9	4784.0	4454.8	4274.7	3856.8
75°	4094.5	3772.6	3464.1	3050.6	2678.5	2349.2	2028.8	1866.3	1528.2	1390.9	1194.6
77.5°	1943.2	1763.0	1520.8	1333.3	1094.1	893.3	729.4	547.8	429.6	336.7	256.9
80°	1568.1	1416.1	1269.8	1100.0	919.9	733.9	562.5	420.8	298.3	206.7	146.1
82.5°	1398.3	1232.9	1052.8	936.2	813.6	665.9	546.4	445.9	329.3	240.7	163.9
85°	543.4	457.8	352.9	287.9	224.4	184.6	166.9	115.2	90.1	70.9	54.6
87.5°	47.2	38.4	31.0	20.6	22.1	11.8	13.2	8.9	7.4	7.4	5.9
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	326.3	324.9	323.3	320.4	320.4	317.5	316.0	314.5	307.2	290.9	277.6
5°	342.6	339.6	336.7	332.2	329.3	324.9	321.9	317.5	301.2	270.2	243.6
7.5°	366.2	360.3	355.8	347.0	342.6	336.7	332.2	324.9	298.3	251.0	214.1
10°	394.2	383.9	376.5	366.2	357.3	349.9	342.6	332.2	295.3	230.3	187.5
12.5°	428.2	416.4	401.6	389.8	378.0	367.6	357.3	344.1	290.9	212.6	166.9
15°	462.2	444.4	434.1	417.9	401.6	386.9	372.1	360.3	292.4	193.4	149.2
17.5°	500.5	482.8	460.7	443.0	425.3	406.1	388.4	364.7	285.0	178.7	135.8
20°	537.5	512.4	491.7	469.6	444.4	420.8	398.7	378.0	279.0	163.9	124.0
22.5°	577.3	547.8	521.2	493.2	462.2	435.6	409.0	382.4	268.7	150.6	113.7
25°	626.1	592.1	553.7	519.8	487.3	454.8	420.8	388.4	258.4	138.8	106.3
27.5°	685.1	640.8	602.4	559.6	513.9	472.5	435.6	400.1	248.1	130.0	98.9
30°	760.5	708.8	654.1	599.5	550.8	503.5	451.8	407.5	237.7	121.1	91.5
32.5°	860.8	795.9	729.4	665.9	601.0	540.4	485.8	428.2	231.8	113.7	84.1
35°	993.7	909.6	828.3	748.6	670.4	596.5	525.6	460.7	231.8	104.9	75.3
37.5°	1119.2	1021.8	918.5	819.5	726.5	640.8	556.7	478.4	220.0	97.5	68.0
40°	1255.1	1138.4	1017.4	900.7	788.5	682.2	586.2	496.1	209.7	88.6	60.6
42.5°	1463.3	1315.6	1157.7	1021.8	887.4	756.0	636.4	530.1	196.4	79.7	53.2
45°	1736.5	1549.0	1362.9	1197.5	1026.2	865.3	723.6	592.1	193.4	72.3	45.8
47.5°	2028.8	1807.3	1588.8	1377.6	1176.9	989.3	819.5	661.5	193.4	64.9	39.8
50°	2319.7	2042.1	1808.8	1563.7	1337.8	1116.3	914.0	733.9	194.9	59.1	32.5
52.5°	2582.5	2285.8	2024.3	1740.8	1491.3	1234.4	1014.4	804.8	192.0	51.7	26.6
55°	2947.2	2598.8	2296.1	1983.1	1690.7	1401.3	1151.7	911.1	193.4	45.8	22.1
57.5°	3619.1	3210.1	2845.4	2434.9	2098.2	1724.6	1421.9	1129.5	211.2	38.4	16.3
60°	4583.3	4051.7	3539.3	3038.8	2610.5	2166.1	1773.4	1429.3	248.1	31.0	11.8
62.5°	5231.5	4536.0	3924.8	3372.5	2874.9	2409.8	1981.5	1590.2	273.2	25.1	7.4
63°	5297.9	4578.8	3964.6	3394.6	2886.7	2421.6	1990.4	1602.1	274.6	23.7	7.4
65°	5423.5	4652.7	3986.8	3399.0	2874.9	2405.3	1984.5	1600.6	277.6	19.2	5.9
67.5°	5280.2	4539.0	3858.3	3272.1	2771.6	2309.3	1910.6	1541.6	276.1	13.2	4.4
70°	4722.0	4107.8	3509.8	2963.5	2508.7	2090.8	1739.4	1405.7	254.0	8.9	2.9
72.5°	3467.0	3049.1	2585.5	2191.2	1890.0	1569.6	1339.2	1055.7	196.4	5.9	1.5
75°	1027.7	936.2	787.0	694.0	612.8	506.5	450.4	351.5	100.4	2.9	0.0
77.5°	205.2	186.0	166.9	152.1	143.2	122.6	116.6	96.0	41.4	1.5	0.0
80°	107.8	88.6	75.3	66.4	57.5	47.2	39.8	32.5	7.4	0.0	0.0
82.5°	103.4	69.4	50.2	41.4	35.4	28.0	22.1	16.3	4.4	0.0	0.0
85°	38.4	29.5	22.1	17.7	14.8	13.2	10.3	8.9	0.0	0.0	0.0
87.5°	5.9	4.4	4.4	2.9	2.9	1.5	1.5	1.5	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°	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	264.3	252.5	246.6	239.2	239.2	237.7	240.7
5°	220.0	203.8	192.0	183.1	184.6	180.1	181.6
7.5°	186.0	169.8	159.5	153.5	152.1	150.6	150.6
10°	160.9	146.1	137.3	132.9	131.4	131.4	131.4
12.5°	143.2	128.4	121.1	118.1	118.1	116.6	116.6
15°	128.4	116.6	109.2	106.3	106.3	104.9	106.3
17.5°	116.6	104.9	98.9	96.0	96.0	94.5	94.5
20°	106.3	96.0	90.1	85.7	85.7	84.1	85.7
22.5°	97.5	87.1	79.7	76.8	75.3	73.8	75.3
25°	88.6	78.3	70.9	66.4	64.9	64.9	63.5
27.5°	81.2	70.9	62.0	57.5	56.1	56.1	54.6
30°	73.8	62.0	53.2	48.7	47.2	47.2	47.2
32.5°	66.4	53.2	45.8	41.4	39.8	39.8	39.8
35°	59.1	45.8	38.4	34.0	32.5	32.5	32.5
37.5°	50.2	38.4	29.5	26.6	25.1	23.7	23.7
40°	42.8	29.5	22.1	19.2	16.3	16.3	16.3
42.5°	35.4	23.7	16.3	11.8	10.3	8.9	10.3
45°	29.5	17.7	10.3	5.9	4.4	4.4	4.4
47.5°	23.7	11.8	4.4	1.5	1.5	1.5	1.5
50°	17.7	7.4	1.5	0.0	0.0	1.5	1.5
52.5°	13.2	4.4	0.0	0.0	0.0	0.0	0.0
55°	7.4	1.5	0.0	0.0	0.0	0.0	0.0
57.5°	4.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.5	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)