

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: McGRAW-EDISON

Report Number: P299450

Luminaire Tested: **GLNA-AF-10-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-SLR-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40328.1 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

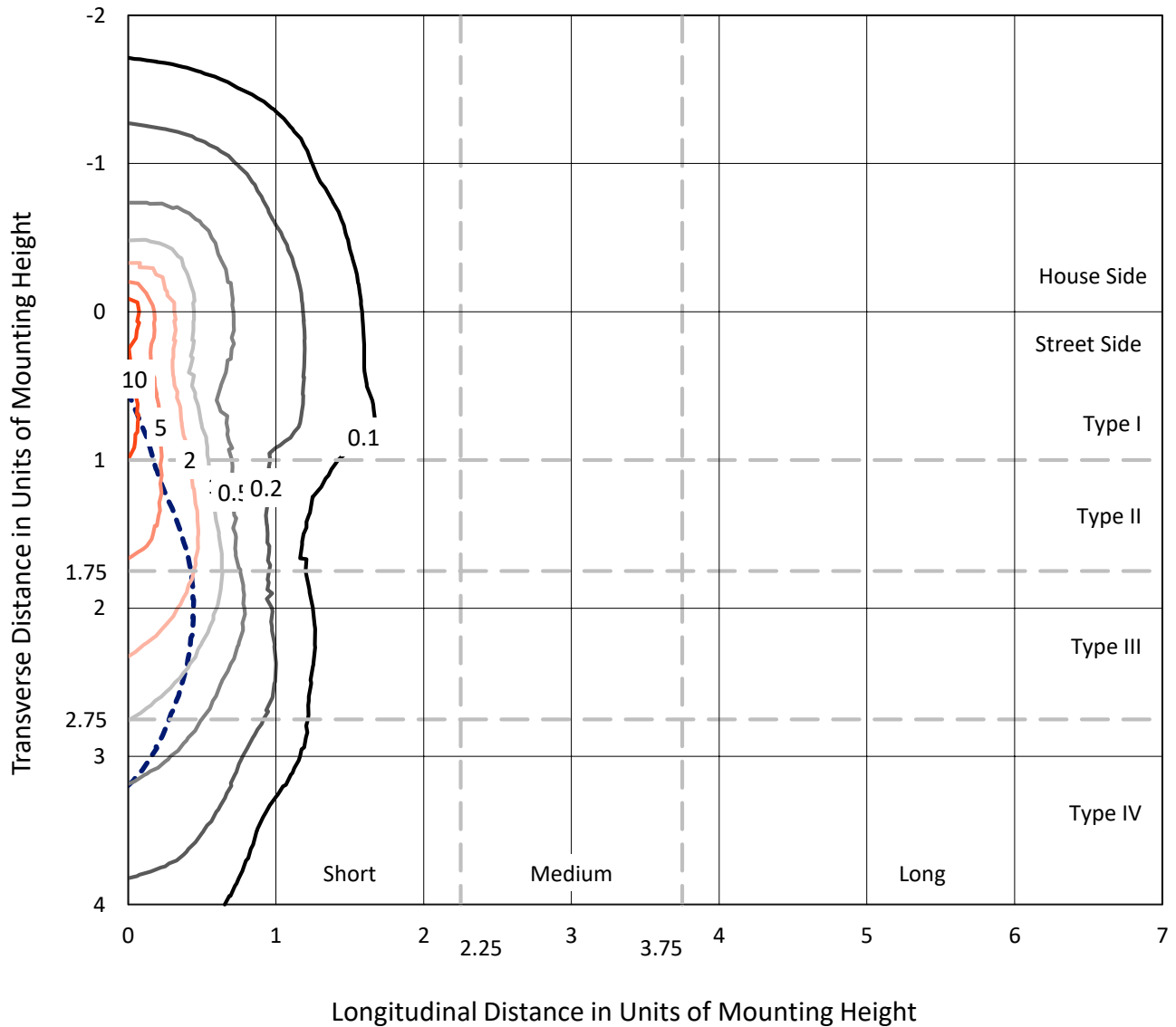
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

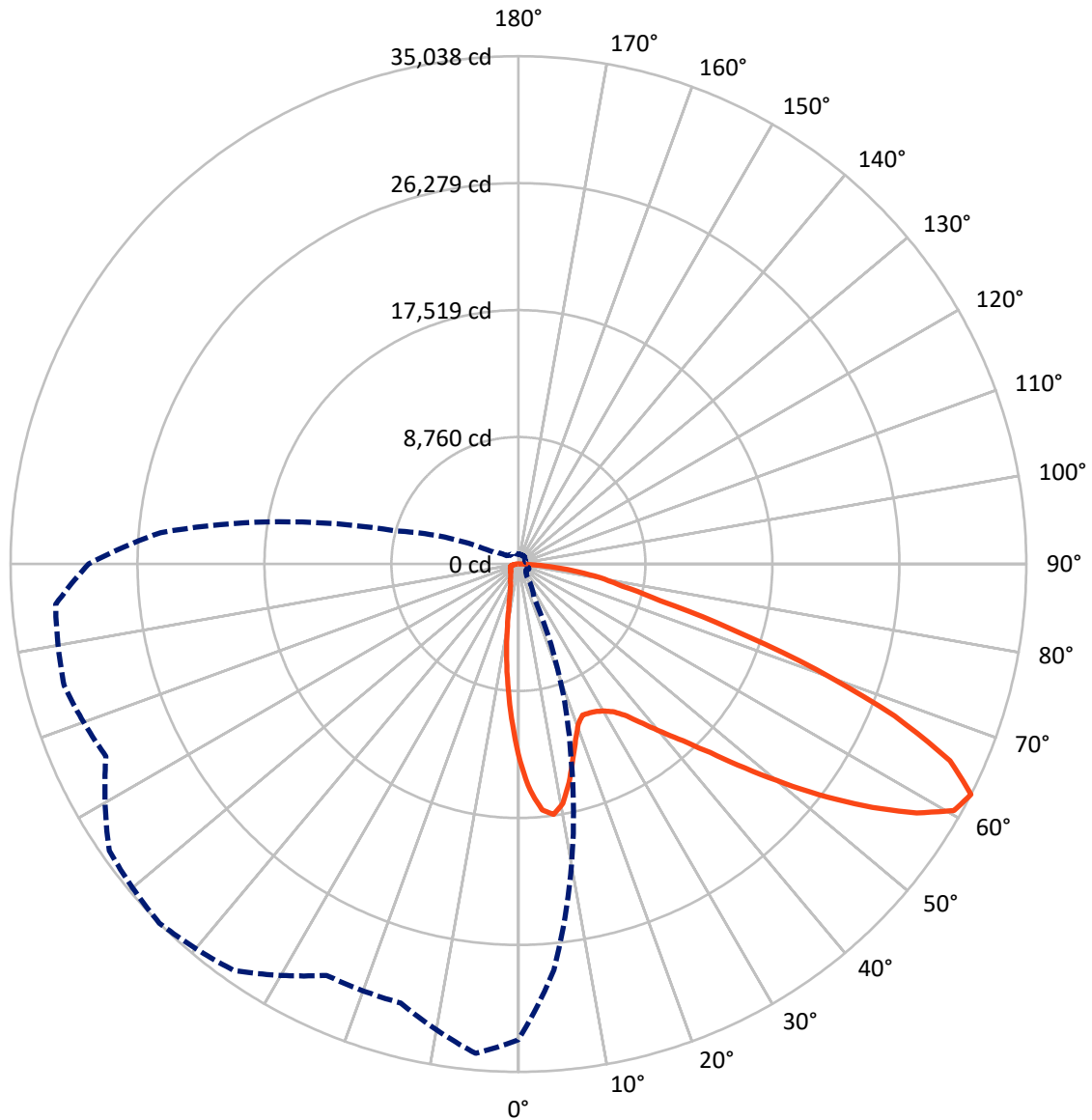
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6673.8	0.0	6673.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	33654.4	0.0	33654.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	40328.1	0.0	40328.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	991.8	2.5
10°-20°	1818.8	4.5
20°-30°	2651.8	6.6
30°-40°	4084.1	10.1
40°-50°	6010.7	14.9
50°-60°	8816.4	21.9
60°-70°	9855.5	24.4
70°-80°	4825.1	12.0
80°-90°	1274.0	3.2
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°	40328.1	100.0
0°-180°	40328.1	100.0



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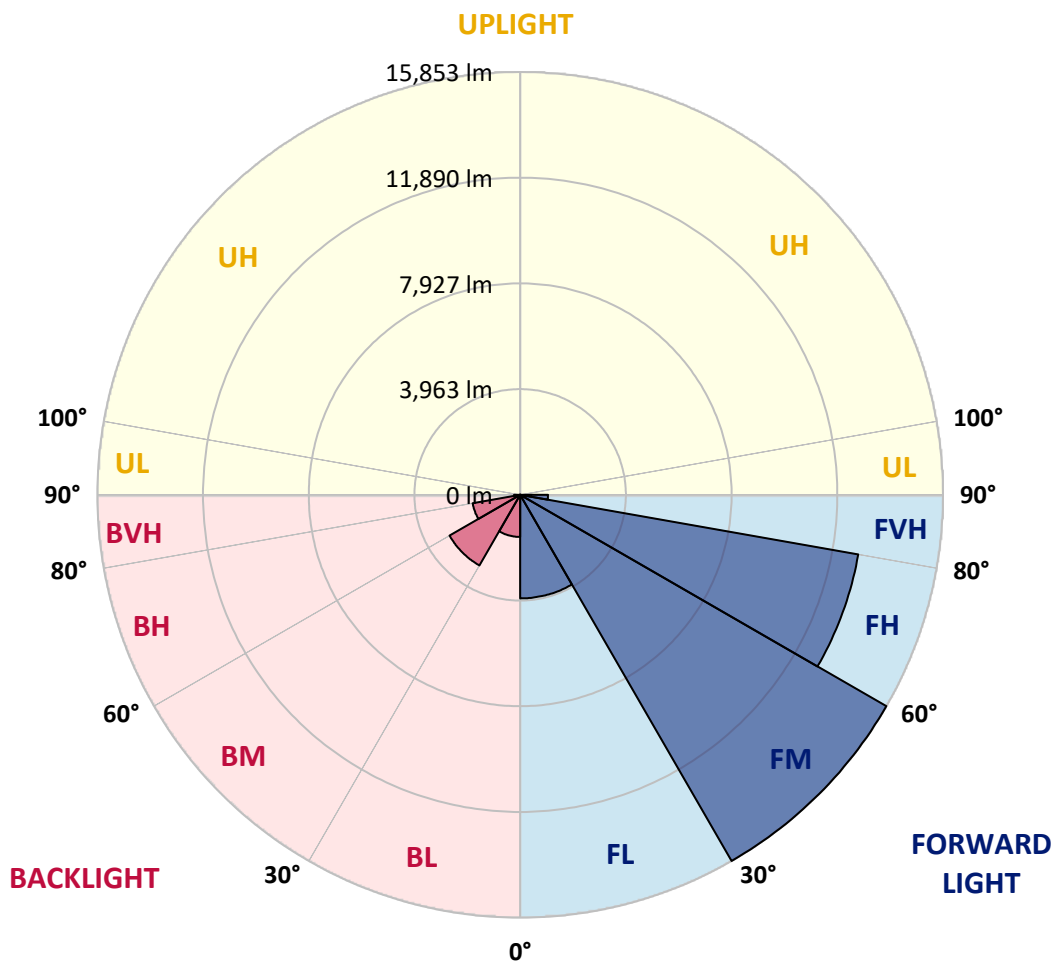
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3883.5	9.6			
FM	(30°-60°)	15853.4	39.3			
FH	(60°-80°)	12871.3	31.9			G5
FVH	(80°-90°)	1046.2	2.6			G5
BL	(0°-30°)	1578.9	3.9	B3/2500		
BM	(30°-60°)	3057.9	7.6	B3/5000		
BH	(60°-80°)	1809.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	227.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3
2.5°	14156.8	13868.9	13389.7	12891.0	12587.7	12232.7	11955.5	11711.9	11224.0	11128.7	11215.2
5°	13312.5	12734.0	11831.3	10922.6	10317.3	9667.6	9162.3	8756.9	8138.1	8029.4	8160.3
7.5°	11958.2	11266.2	10073.6	8913.9	8058.2	7246.9	6701.9	6267.0	5783.8	5575.7	5588.5
10°	10789.7	10009.2	8599.2	7338.1	6637.5	6089.8	5630.8	5185.1	4695.2	4373.7	4285.2
12.5°	10135.4	9238.1	7612.6	6486.5	5836.8	5261.0	4766.4	4289.9	3766.4	3438.2	3345.6
15°	10022.6	9046.8	7242.8	5941.5	5127.4	4398.6	3815.4	3283.2	2744.2	2478.5	2422.8
17.5°	10512.6	9388.4	7122.7	5455.6	4460.3	3560.3	2844.2	2250.3	1811.4	1678.5	1667.1
20°	11452.1	10044.8	7107.3	4999.2	3801.9	2746.9	1981.8	1549.6	1357.0	1318.8	1321.5
22.5°	12771.6	11062.2	7297.9	4655.6	3196.6	2048.3	1489.9	1296.6	1221.5	1185.9	1185.9
25°	14478.3	12463.5	7736.8	4405.3	2671.1	1636.2	1314.7	1199.3	1128.2	1104.0	1108.7
27.5°	16132.6	13826.6	8246.8	4208.0	2327.5	1485.2	1245.6	1141.6	1079.8	1055.0	1066.4
30°	17422.5	15037.3	8672.3	3939.5	2152.3	1442.9	1270.4	1163.7	1075.1	1037.6	1039.6
32.5°	18490.9	16097.0	9029.4	3746.2	1997.3	1236.9	1095.3	1048.3	1037.6	993.3	971.1
35°	19856.7	17252.0	9269.0	3750.9	1924.1	1104.0	975.2	893.3	833.5	782.5	782.5
37.5°	21457.3	18577.5	9524.0	3801.9	1898.0	1026.2	933.5	851.0	796.0	747.0	738.2
40°	23039.9	19876.8	9756.9	3850.9	1881.8	979.8	900.0	824.8	773.8	724.8	711.4
42.5°	24386.1	20945.3	9964.9	3875.1	1828.8	975.2	875.8	806.7	758.4	704.7	691.9
45°	25381.4	21840.6	10189.1	3912.7	1775.8	993.3	875.8	804.7	745.0	693.9	680.5
47.5°	26270.0	22891.5	10563.6	3912.7	1711.4	959.7	904.7	806.7	742.9	689.2	678.5
50°	27460.6	24332.5	11273.0	3822.1	1620.8	924.1	953.0	798.0	722.8	680.5	667.1
52.5°	29100.8	26179.4	12399.1	3664.4	1481.2	855.7	946.3	793.9	702.7	658.4	642.9
55°	31041.1	28156.5	13627.3	3480.5	1272.5	806.7	913.4	782.5	680.5	631.5	616.1
57.5°	32555.1	29517.6	14491.7	3196.6	1090.6	780.5	809.4	771.8	653.7	602.7	589.9
60°	33157.8	29464.6	14729.3	2817.4	1002.0	758.4	707.4	864.4	631.5	580.5	565.1
62.5°	32832.3	28103.5	14064.2	2551.6	981.9	729.5	663.1	800.0	614.1	565.1	542.9
65°	31327.0	25691.5	12301.8	2480.5	1039.6	700.7	634.2	627.5	589.9	542.9	520.8
67.5°	28047.8	22086.9	9849.5	2487.2	1112.7	671.8	605.4	574.5	556.4	518.8	498.6
70°	22845.2	17462.8	7342.2	2505.3	1150.3	638.2	574.5	540.9	520.8	483.2	469.8
72.5°	16797.7	13458.8	5334.1	2389.9	1157.0	600.7	532.2	503.3	483.2	443.6	432.2
75°	11492.4	10295.1	3699.9	1979.8	1008.7	547.6	485.2	459.1	445.6	396.6	389.9
77.5°	8395.2	7728.1	2367.7	1469.8	777.8	481.2	428.2	408.0	399.3	345.6	336.9
80°	6737.5	6114.0	1481.2	1006.7	569.8	403.3	359.1	348.3	338.9	285.9	279.2
82.5°	4673.1	4094.6	951.0	653.7	428.2	312.7	283.9	279.2	265.8	217.4	210.7
85°	2465.1	2223.5	602.7	445.6	310.1	214.8	197.3	197.3	190.6	144.3	139.6
87.5°	314.8	512.1	306.0	232.9	170.5	95.3	95.3	93.3	100.0	81.9	71.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3
2.5°	11011.2	11117.9	11015.9	11022.6	11135.4	11472.3	11625.3	11751.5	11887.0	11975.6	12015.2
5°	7981.1	8229.4	8313.3	8490.5	8752.2	9182.4	9352.9	9477.0	9559.6	9607.9	9628.0
7.5°	5458.3	5608.6	5777.1	6063.0	6632.8	6885.8	6998.5	6969.7	6877.1	6843.5	6810.6
10°	4114.7	4055.0	4023.4	4181.1	4642.2	4897.2	4977.1	4899.2	4848.2	4859.6	4914.7
12.5°	3187.9	3083.8	2957.7	2939.5	3243.6	3471.8	3522.8	3526.8	3620.1	3701.9	3824.1
15°	2323.4	2312.0	2250.3	2212.7	2385.2	2571.8	2593.9	2633.5	2718.1	2777.8	2883.8
17.5°	1638.2	1698.0	1746.9	1771.1	1902.0	2034.9	2010.7	1990.6	1975.1	1975.1	2026.1
20°	1321.5	1361.0	1423.5	1493.9	1627.5	1720.1	1660.4	1580.5	1522.8	1505.3	1512.1
22.5°	1190.6	1221.5	1257.0	1318.8	1438.9	1503.3	1438.9	1381.2	1323.5	1303.3	1296.6
25°	1124.1	1163.7	1197.3	1243.6	1332.2	1376.5	1314.7	1272.5	1236.9	1212.7	1194.6
27.5°	1086.6	1121.5	1130.9	1153.0	1228.2	1267.8	1236.9	1219.4	1197.3	1175.1	1153.0
30°	1046.3	1039.6	1024.1	1026.2	1086.6	1126.2	1124.1	1128.2	1126.2	1119.4	1115.4
32.5°	955.7	942.3	928.8	942.3	997.3	1032.9	1035.6	1044.3	1044.3	1042.3	1059.7
35°	796.0	820.1	835.6	875.8	942.3	973.1	959.7	937.6	898.0	873.1	871.1
37.5°	736.2	740.3	767.1	822.1	896.0	924.1	904.7	853.7	826.8	822.1	828.8
40°	707.4	711.4	726.8	777.8	851.0	879.9	862.4	824.8	800.0	798.0	809.4
42.5°	687.2	691.9	700.7	736.2	796.0	831.5	833.5	806.7	777.8	780.5	791.3
45°	675.8	678.5	675.8	693.9	749.0	791.3	809.4	791.3	767.1	771.8	784.5
47.5°	673.8	667.1	658.4	663.1	720.8	762.4	784.5	777.8	767.1	771.8	782.5
50°	665.1	649.7	638.2	636.2	693.9	738.2	758.4	758.4	762.4	771.8	782.5
52.5°	638.2	620.8	620.8	614.1	675.8	718.1	731.5	733.5	740.3	755.7	771.8
55°	605.4	598.6	605.4	593.9	663.1	702.7	709.4	714.1	718.1	731.5	753.7
57.5°	576.5	567.8	583.2	578.5	651.7	687.2	687.2	696.0	696.0	714.1	731.5
60°	561.1	542.9	549.7	554.4	636.2	673.8	669.8	678.5	682.5	698.6	711.4
62.5°	540.9	525.5	525.5	536.2	618.8	653.7	651.7	658.4	675.8	680.5	693.9
65°	516.8	510.1	503.3	516.8	600.7	631.5	634.2	642.9	658.4	663.1	673.8
67.5°	491.9	494.6	481.2	494.6	585.2	609.4	609.4	627.5	634.2	642.9	653.7
70°	465.8	467.8	456.4	472.5	574.5	585.2	583.2	607.4	612.1	618.8	629.5
72.5°	432.2	432.2	428.2	450.3	556.4	561.1	556.4	576.5	578.5	585.2	589.9
75°	396.6	396.6	392.6	423.5	545.6	534.2	520.8	536.2	540.9	545.6	545.6
77.5°	350.3	355.0	355.0	392.6	507.4	523.5	478.5	487.9	494.6	496.6	489.9
80°	292.6	304.0	308.0	357.0	425.5	483.2	428.2	434.2	436.9	436.9	428.2
82.5°	224.2	243.6	255.0	308.0	326.2	405.4	372.5	379.2	372.5	359.1	355.0
85°	155.0	181.9	195.3	234.9	246.3	312.7	310.1	310.1	297.3	279.2	277.2
87.5°	84.6	100.0	108.7	139.6	168.5	210.7	228.2	221.5	210.7	199.3	202.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3
2.5°	12223.9	12525.3	13006.5	13374.3	13744.7	14101.8	14487.7	14782.3	15032.6	15130.6	15427.2
5°	9830.0	10206.5	10660.9	11481.0	12062.2	12702.5	13443.4	14423.2	14799.7	15321.2	16174.2
7.5°	6950.2	7291.1	8022.7	8685.8	9508.6	10415.3	11414.6	12766.9	13261.5	14097.1	15487.0
10°	5189.8	5586.5	6173.7	6732.8	7457.6	8384.4	9532.7	11044.8	11645.4	12552.1	14152.8
12.5°	4181.1	4648.9	5271.7	5797.2	6358.3	7012.0	8127.4	9785.1	10590.4	11383.7	13001.8
15°	3212.0	3701.9	4281.1	4948.2	5566.3	6271.7	7440.1	9253.5	10179.7	11007.2	12387.7
17.5°	2223.5	2642.2	3371.8	4067.7	4859.6	5761.6	7249.5	9366.3	10472.3	11426.0	12494.4
20°	1576.5	1815.4	2414.1	3221.4	4208.0	5340.2	7214.0	9960.2	11399.1	12487.7	13176.9
22.5°	1325.5	1414.1	1762.4	2502.6	3642.2	5025.4	7338.1	10793.8	12649.4	14039.3	14265.5
25°	1208.0	1261.7	1442.9	1964.4	3138.9	4797.2	7756.9	12035.4	14197.1	15591.7	15551.4
27.5°	1143.6	1199.3	1318.8	1658.4	2760.4	4655.6	8175.7	13507.8	15966.2	17276.2	16779.6
30°	1124.1	1199.3	1325.5	1563.1	2489.9	4431.5	8519.3	14799.7	17327.2	18413.8	17338.6
32.5°	1108.7	1119.4	1177.2	1347.6	2232.2	4169.7	8752.2	15959.4	18659.4	19495.6	18143.3
35°	896.0	951.0	1044.3	1208.0	2081.8	4012.7	8752.2	16959.4	19972.1	20588.2	18910.4
37.5°	862.4	911.4	993.3	1132.9	1997.3	3934.8	8577.0	17923.8	21313.0	21827.8	19541.9
40°	845.0	884.5	962.4	1075.1	1961.7	3846.2	8322.0	18774.8	22623.1	23068.7	20131.9
42.5°	831.5	867.1	940.3	1039.6	1915.4	3748.9	8116.0	19457.4	23760.7	24128.4	20694.9
45°	824.8	862.4	942.3	1057.7	1822.1	3620.1	8047.5	20195.6	24696.2	25013.0	21304.3
47.5°	824.8	869.1	953.0	1095.3	1711.4	3487.2	8262.3	21169.4	25580.8	25735.8	22022.4
50°	818.1	867.1	984.5	1057.7	1549.6	3318.7	8767.6	22394.9	26538.5	26555.9	22931.8
52.5°	804.7	862.4	1059.7	1035.6	1363.1	3097.3	9450.8	23969.4	27955.2	28061.2	24354.6
55°	789.2	855.7	1039.6	984.5	1210.7	2833.5	10009.2	25882.1	29945.8	30240.4	26447.9
57.5°	769.1	847.0	1006.7	913.4	1110.7	2493.9	10211.2	27283.4	31335.7	32075.9	28806.2
60°	751.7	840.3	908.7	871.1	1048.3	2208.0	9820.6	27006.2	31240.4	32836.3	30896.8
62.5°	733.5	847.0	828.8	845.0	1019.4	2024.1	8801.2	24786.8	29659.9	32051.8	32446.4
65°	714.1	787.2	782.5	822.1	1013.4	1951.0	7295.8	21459.4	26604.9	29571.3	32812.2
67.5°	687.2	726.8	749.0	793.9	1035.6	1886.5	5887.8	17701.7	22359.3	25853.2	30905.5
70°	658.4	691.9	716.1	758.4	1022.1	1857.7	4897.2	13959.5	17742.0	21188.9	27143.8
72.5°	620.8	649.7	671.8	711.4	1008.7	1842.2	4136.8	11242.1	13246.1	15740.0	22069.4
75°	576.5	602.7	618.8	658.4	966.4	1687.2	3252.3	9512.6	9911.9	10949.5	17577.5
77.5°	525.5	545.6	558.4	602.7	855.7	1403.3	2352.3	7338.1	7697.2	7949.5	13476.3
80°	465.8	485.2	491.9	534.2	709.4	1097.3	1534.2	5420.0	5756.9	5814.7	8801.2
82.5°	396.6	416.8	416.8	456.4	580.5	789.2	1006.7	3713.4	3779.8	3975.1	6220.7
85°	319.5	334.9	334.9	355.0	450.3	589.9	691.9	1864.4	1844.3	2106.0	5389.2
87.5°	228.2	239.6	250.3	255.0	321.5	389.9	416.8	567.8	374.5	430.2	3460.3
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3	13625.3
2.5°	15651.4	15777.6	15648.7	15556.1	15154.8	14824.6	14383.0	14156.8
5°	16823.9	17145.3	17036.6	16646.7	15808.4	14866.2	13795.7	13312.5
7.5°	16682.3	17429.2	17446.7	16717.8	15482.9	14095.1	12645.4	11958.2
10°	15578.2	16533.3	16806.4	16099.0	14789.0	13237.3	11574.3	10789.7
12.5°	14345.4	15280.9	15489.7	15245.4	14150.8	12591.7	10905.2	10135.4
15°	13336.7	13756.1	14003.8	14217.2	13603.1	12334.7	10866.9	10022.6
17.5°	12722.6	12676.3	12747.4	13117.2	13221.2	12629.3	11443.4	10512.6
20°	12501.1	11789.7	11771.6	12281.7	13042.1	13332.6	12569.6	11452.1
22.5°	12623.3	11470.3	11324.0	11929.3	13137.4	14345.4	14046.1	12771.6
25°	13044.1	11497.1	11379.0	11964.9	13483.0	15425.2	15640.0	14478.3
27.5°	13707.1	11665.6	11509.9	12111.2	13942.0	16331.9	17209.8	16132.6
30°	14336.7	11958.2	11764.9	12399.1	14360.8	16691.0	18172.2	17422.5
32.5°	15101.7	12505.8	12166.2	12928.6	14879.6	17262.8	19029.9	18490.9
35°	15850.7	13285.7	12864.9	13746.7	15458.1	17974.8	20009.7	19856.7
37.5°	16673.5	14305.8	13957.5	14804.4	16250.0	18646.0	21260.0	21457.3
40°	17551.4	15658.1	15245.4	16347.4	17478.2	19488.9	22566.0	23039.9
42.5°	18435.9	17158.8	16666.8	17783.6	18827.9	20319.8	23682.8	24386.1
45°	19448.6	18788.3	18555.4	19763.4	20125.1	21111.7	24507.6	25381.4
47.5°	20628.5	20637.2	21011.7	21494.9	21433.2	22007.0	25337.1	26270.0
50°	22005.0	22944.6	23772.1	24092.9	22780.8	22969.4	26487.4	27460.6
52.5°	23658.6	25704.9	26729.1	26518.3	24233.1	24143.9	28309.6	29100.8
55°	25727.1	28627.0	29644.4	29493.4	25902.2	25744.5	30580.0	31041.1
57.5°	28121.0	31457.8	32393.4	31714.9	27906.2	27500.9	32457.8	32555.1
60°	30225.0	33701.4	34521.5	33769.9	29928.3	29369.3	33630.3	33157.8
62.5°	31395.4	34461.8	35038.3	34228.9	31313.5	31359.8	33887.3	32832.3
65°	30872.6	32539.7	32725.6	32659.2	30956.5	32514.9	32963.2	31327.0
67.5°	28008.2	27680.0	27992.8	28425.0	27897.5	30994.1	30402.1	28047.8
70°	22962.7	21160.0	21783.5	22073.4	22313.0	26671.3	26387.5	22845.2
72.5°	17305.1	14824.6	15316.5	15256.8	16364.8	21392.9	20521.8	16797.7
75°	12261.5	10051.5	10113.2	10089.1	11419.3	16737.3	14860.1	11492.4
77.5°	8579.0	7282.4	7316.0	7452.9	7677.0	12623.3	10616.6	8395.2
80°	5899.2	5526.7	5710.6	5722.0	5320.7	8479.7	7843.5	6737.5
82.5°	4393.9	3841.5	3797.2	3861.7	4169.7	6870.3	6027.4	4673.1
85°	3597.9	2274.5	1828.8	2292.6	3695.2	6803.9	4004.0	2465.1
87.5°	2026.1	1079.8	487.9	904.7	1474.5	4504.6	1157.0	314.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)