

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: P269101

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T2R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11023 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

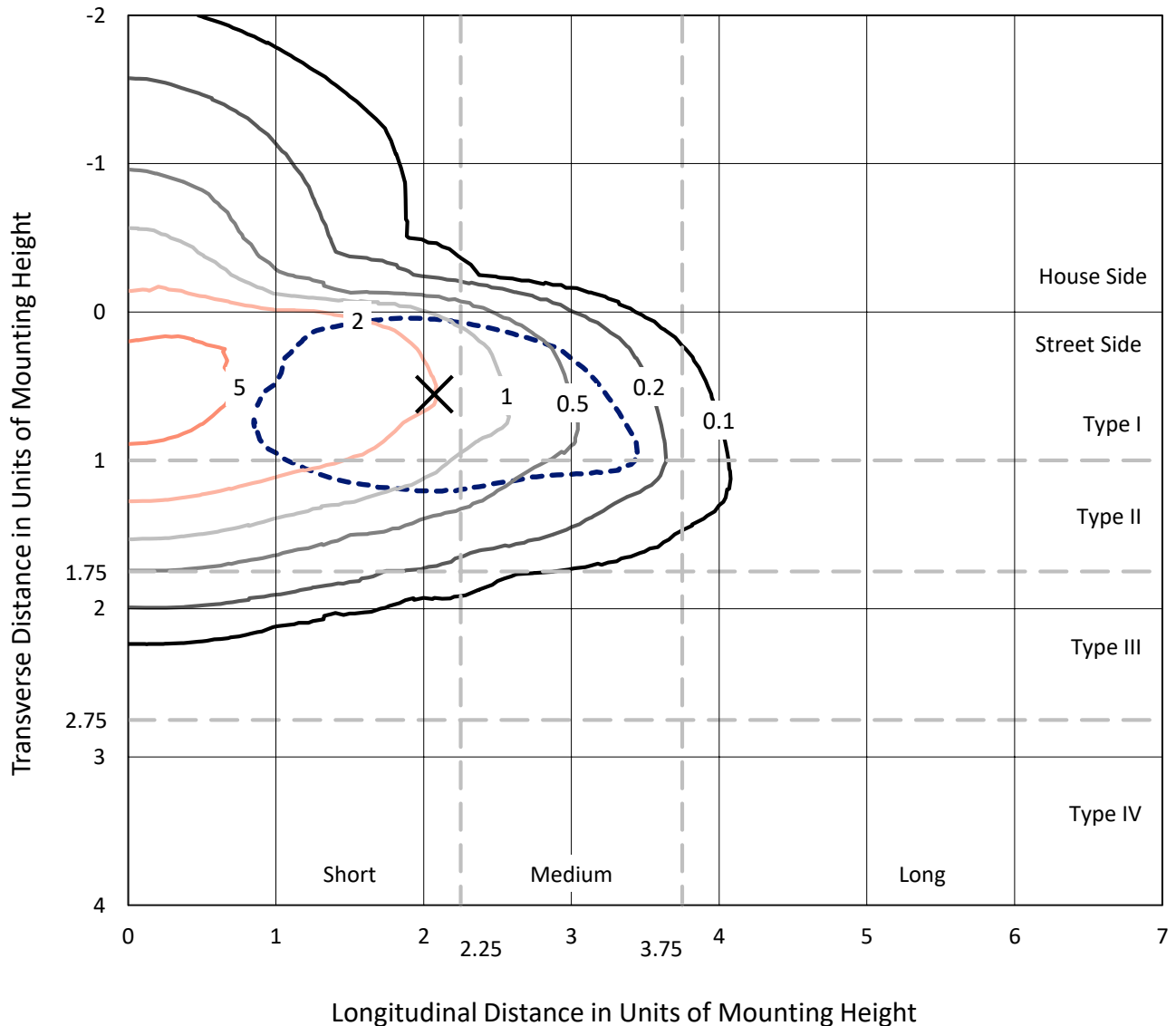
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

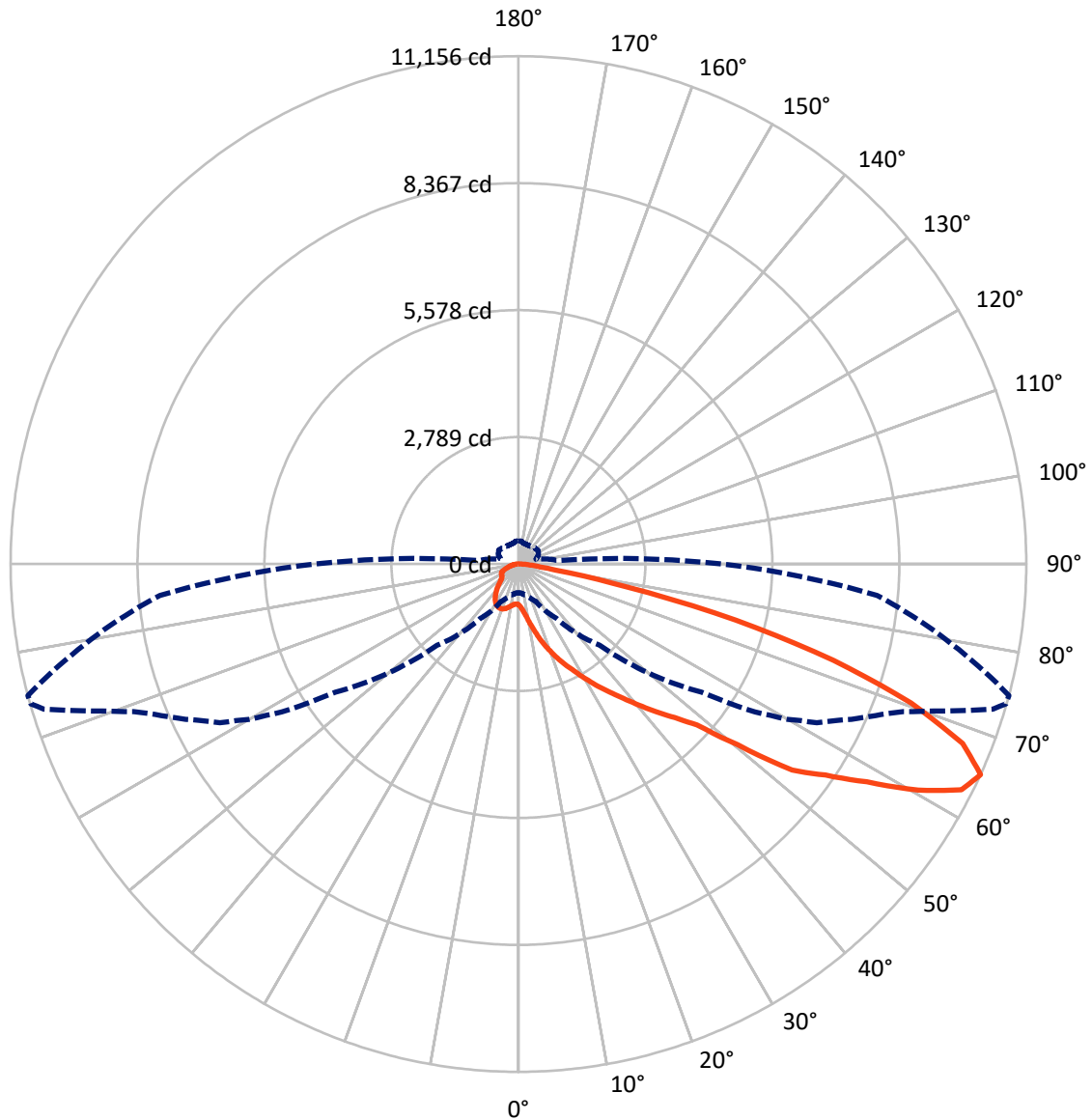
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1699.5	0.0	1699.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9323.5	0.0	9323.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	11023.0	0.0	11023.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.0
10°-20°	432.6	3.9
20°-30°	887.6	8.1
30°-40°	1493.4	13.5
40°-50°	2063.4	18.7
50°-60°	2575.8	23.4
60°-70°	2317.9	21.0
70°-80°	971.7	8.8
80°-90°	169.7	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°	11023.0	100.0
0°-180°	11023.0	100.0



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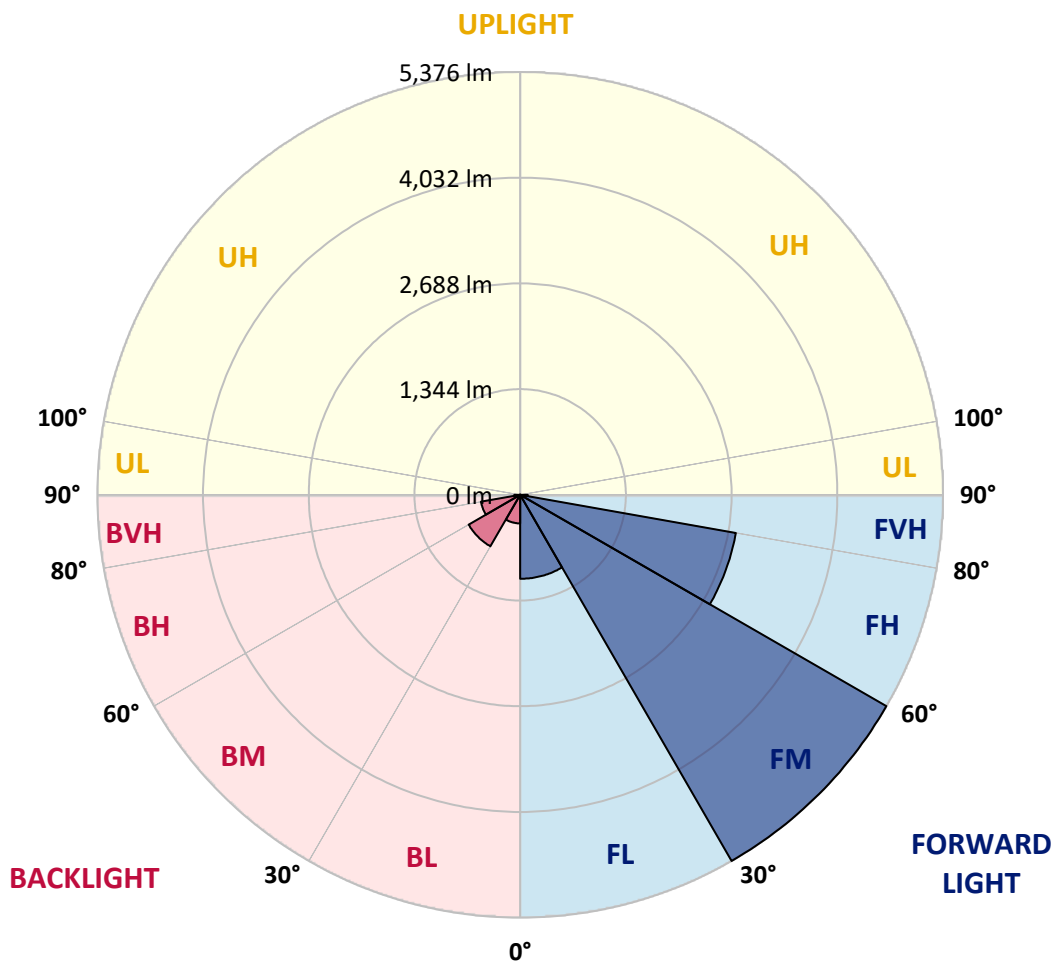
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.5	9.7			
FM (30°-60°)	5376.2	48.8			
FH (60°-80°)	2784.4	25.3			G2/5000
FVH (80°-90°)	95.4	0.9			G1/100
BL (0°-30°)	363.5	3.3	B1/500		
BM (30°-60°)	756.5	6.9	B1/1000		
BH (60°-80°)	505.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	74.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	1137.4	1124.9	1128.0	1107.2	1081.6	1048.2	1011.1	1010.7	1011.1	1007.4	994.0
5°	1577.2	1562.2	1556.4	1509.4	1440.5	1342.4	1236.0	1224.5	1219.8	1207.9	1180.2
7.5°	1898.1	1889.8	1881.0	1845.4	1782.7	1673.3	1530.3	1505.7	1482.3	1476.5	1445.3
10°	2105.3	2103.1	2084.3	2074.9	2035.7	1940.9	1801.6	1778.0	1752.6	1743.7	1710.8
12.5°	2269.1	2268.5	2259.6	2262.3	2228.3	2159.4	2039.5	2018.1	1999.3	1972.1	1948.8
15°	2382.2	2382.8	2395.8	2410.4	2405.2	2358.8	2246.1	2236.7	2220.5	2201.7	2174.1
17.5°	2475.1	2477.7	2491.3	2517.9	2546.7	2543.0	2453.8	2445.9	2431.8	2406.3	2391.6
20°	2684.9	2694.7	2668.8	2668.8	2671.9	2685.9	2643.2	2636.9	2617.0	2603.5	2592.0
22.5°	3039.1	3050.6	2991.6	2931.7	2872.7	2829.9	2787.1	2794.9	2781.4	2772.0	2765.3
25°	3499.3	3508.2	3412.8	3311.5	3191.5	3035.0	2929.1	2924.3	2917.1	2911.3	2908.3
27.5°	3932.4	3936.1	3845.7	3697.7	3558.2	3333.4	3073.0	3067.4	3058.5	3047.5	3038.1
30°	4302.8	4301.8	4208.9	4067.4	3918.2	3669.3	3291.7	3274.0	3247.8	3218.1	3195.1
32.5°	4623.7	4622.0	4520.5	4373.8	4217.3	4002.3	3591.2	3554.7	3513.9	3456.0	3421.0
35°	4876.2	4875.1	4779.2	4626.4	4446.8	4315.8	3934.4	3889.7	3837.9	3760.1	3706.4
37.5°	4971.7	4971.7	4918.0	4813.6	4654.9	4565.2	4315.8	4261.6	4206.3	4118.1	4057.6
40°	4915.9	4917.0	4928.5	4909.1	4831.9	4763.1	4671.6	4639.3	4591.9	4512.5	4449.5
42.5°	4728.6	4734.2	4810.5	4903.8	4942.5	4931.5	4987.3	4972.7	4939.3	4878.2	4828.2
45°	4491.2	4509.0	4592.3	4768.7	4973.2	5077.1	5251.9	5253.4	5247.2	5214.3	5175.7
47.5°	4165.1	4190.1	4300.1	4538.6	4901.2	5218.4	5520.5	5534.6	5547.8	5526.4	5508.5
50°	3732.0	3761.7	3926.6	4242.9	4754.5	5365.0	6028.2	6091.9	6151.4	6144.0	6156.1
52.5°	3268.3	3303.2	3505.0	3857.2	4502.7	5399.1	6352.8	6456.6	6560.4	6645.4	6735.8
55°	2849.8	2831.0	3032.9	3403.9	4088.4	5246.1	6644.5	6769.5	6885.4	6989.8	7097.2
57.5°	2282.7	2313.4	2515.9	2882.7	3540.0	4814.6	6845.3	7028.3	7194.9	7367.4	7519.9
60°	1668.5	1699.4	1919.0	2291.4	2944.7	4160.4	6691.8	6969.4	7236.0	7500.6	7707.2
62.5°	1007.4	1030.4	1224.0	1578.9	2270.6	3384.5	6008.4	6372.5	6764.9	7081.1	7397.8
65°	627.1	640.2	711.6	906.7	1458.3	2526.8	4909.1	5306.1	5728.8	6129.9	6459.2
67.5°	513.4	518.1	531.2	572.8	800.8	1647.6	3653.8	4005.5	4386.9	4775.0	5141.3
70°	461.8	458.7	458.7	461.2	513.4	885.9	2392.1	2621.3	2939.0	3276.6	3611.5
72.5°	416.9	413.7	408.0	400.1	419.0	540.5	1236.5	1409.3	1638.2	1938.3	2259.1
75°	374.7	370.5	363.6	353.8	366.8	408.0	593.7	666.3	777.9	937.7	1116.6
77.5°	330.8	325.5	319.3	312.0	328.7	317.2	348.1	374.1	416.9	467.9	535.3
80°	281.2	276.5	274.4	270.7	290.6	241.6	245.7	261.9	287.0	314.5	345.8
82.5°	220.2	220.2	228.4	230.1	252.1	173.7	183.7	197.7	210.8	225.4	239.9
85°	145.0	146.1	174.2	185.2	198.7	116.9	137.7	142.4	152.9	161.2	167.4
87.5°	45.4	49.0	106.4	117.9	114.3	66.3	84.5	86.5	94.0	99.6	104.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	994.0	987.6	981.8	981.4	977.3	971.4	973.6	964.7	965.1	960.6	955.3
5°	1168.8	1164.6	1143.6	1138.0	1122.3	1112.3	1110.8	1090.0	1087.3	1075.4	1062.2
7.5°	1420.2	1406.7	1377.5	1363.3	1336.7	1316.8	1307.6	1279.8	1266.3	1235.0	1220.8
10°	1683.7	1666.4	1630.5	1610.7	1585.1	1553.2	1536.0	1495.9	1480.1	1451.5	1417.0
12.5°	1927.9	1910.7	1873.5	1858.5	1824.5	1790.6	1771.8	1726.5	1706.2	1660.2	1633.1
15°	2153.7	2136.4	2104.2	2088.5	2054.7	2026.9	2002.0	1957.0	1933.1	1890.3	1854.8
17.5°	2373.0	2354.5	2326.4	2312.3	2279.4	2251.3	2224.3	2182.0	2157.4	2114.6	2082.8
20°	2576.3	2562.9	2542.5	2523.7	2490.8	2465.2	2432.9	2396.4	2360.8	2329.6	2299.3
22.5°	2753.8	2748.5	2726.6	2718.4	2690.2	2668.1	2639.9	2603.9	2578.4	2538.8	2510.7
25°	2906.6	2905.1	2894.6	2892.1	2872.2	2851.3	2845.0	2815.3	2791.8	2756.9	2727.7
27.5°	3038.1	3039.7	3037.1	3044.4	3039.1	3029.8	3030.3	3020.5	3006.7	2977.6	2952.0
30°	3184.2	3175.9	3180.4	3191.0	3194.2	3195.1	3212.3	3218.1	3217.1	3197.7	3185.2
32.5°	3390.8	3371.0	3352.7	3351.1	3361.5	3365.8	3395.0	3410.1	3423.1	3427.8	3429.9
35°	3654.2	3614.6	3576.5	3556.2	3538.5	3543.2	3564.0	3588.5	3617.2	3637.1	3660.6
37.5°	3986.0	3937.6	3870.3	3822.3	3810.3	3784.2	3797.8	3817.1	3845.3	3876.0	3916.7
40°	4388.4	4314.7	4239.1	4175.5	4141.0	4093.0	4092.6	4088.8	4106.2	4134.8	4192.2
42.5°	4775.5	4710.4	4630.0	4563.2	4518.3	4454.2	4441.1	4407.2	4415.0	4440.1	4495.8
45°	5138.1	5084.3	5035.3	4958.1	4920.0	4850.7	4828.7	4788.5	4766.0	4777.5	4833.4
47.5°	5489.3	5454.8	5403.7	5353.5	5324.3	5262.4	5234.2	5205.4	5176.8	5175.7	5234.2
50°	6173.8	6155.5	6095.0	6042.8	6056.9	5980.7	5985.4	5908.2	5943.1	5947.4	6069.9
52.5°	6817.1	6880.7	6925.7	6980.4	7015.9	7022.7	7046.1	7081.1	7123.3	7206.8	7320.6
55°	7185.5	7265.2	7311.7	7353.4	7422.2	7436.9	7476.1	7522.4	7559.5	7653.4	7749.9
57.5°	7623.1	7771.3	7843.3	7909.5	8002.6	8037.9	8103.3	8153.7	8201.7	8312.9	8429.8
60°	7892.9	8073.4	8220.0	8325.0	8441.3	8524.7	8623.4	8702.7	8815.3	8948.3	9122.6
62.5°	7678.5	7943.5	8138.1	8318.1	8476.2	8635.9	8777.2	8925.4	9096.5	9297.9	9568.2
65°	6824.3	7094.2	7427.5	7614.4	7823.5	8069.7	8284.8	8524.7	8757.9	9051.2	9450.9
67.5°	5493.9	5807.5	6182.1	6370.5	6610.9	6886.0	7127.1	7420.2	7692.5	8047.8	8542.0
70°	3960.0	4365.5	4680.6	4877.3	5158.0	5441.3	5674.0	6015.2	6240.5	6604.8	7115.6
72.5°	2507.4	2827.3	3213.3	3461.2	3710.5	3997.5	4235.5	4529.8	4740.0	5071.8	5534.6
75°	1348.1	1584.0	1923.1	2158.4	2425.6	2670.8	2949.4	3146.7	3302.1	3564.6	3940.1
77.5°	631.9	775.2	947.0	1128.0	1309.0	1498.0	1681.5	1841.3	1908.0	2058.2	2280.0
80°	383.4	429.8	480.1	535.7	611.4	672.6	753.4	811.8	816.0	863.5	931.4
82.5°	256.1	273.4	288.5	302.5	322.0	337.0	354.2	374.7	382.9	393.8	415.8
85°	174.8	183.2	186.3	195.1	193.0	198.3	205.1	211.8	215.5	215.0	224.8
87.5°	107.4	111.7	113.7	115.8	114.3	112.2	115.3	118.9	120.1	116.9	117.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	956.3	951.7	947.0	943.8	942.9	915.2	903.2	895.3	878.6	865.1	854.1
5°	1055.0	1045.1	1037.3	1027.8	1022.6	952.7	927.1	909.4	880.2	862.9	847.3
7.5°	1213.6	1185.9	1169.8	1151.4	1135.8	1009.5	967.4	939.6	898.9	875.9	858.3
10°	1393.6	1364.9	1339.4	1311.2	1286.6	1085.2	1023.7	980.9	927.1	897.3	874.0
12.5°	1594.4	1566.3	1533.9	1498.0	1466.7	1181.2	1095.7	1034.6	961.0	921.4	888.6
15°	1831.9	1782.2	1743.2	1701.4	1664.9	1296.1	1179.7	1095.2	997.1	943.3	899.6
17.5°	2052.5	2000.3	1947.2	1910.7	1868.4	1424.9	1264.2	1156.7	1026.9	957.5	901.5
20°	2268.0	2211.2	2165.3	2116.1	2071.9	1558.4	1354.5	1210.9	1046.0	958.0	888.6
22.5°	2457.9	2422.5	2371.3	2318.0	2273.3	1692.0	1438.9	1256.9	1053.4	945.9	865.5
25°	2674.0	2636.3	2573.7	2528.9	2478.9	1828.2	1521.9	1292.3	1049.2	923.5	830.2
27.5°	2904.5	2862.8	2798.6	2751.7	2691.1	1969.5	1598.1	1318.0	1033.6	886.9	782.7
30°	3145.1	3107.0	3043.8	2996.3	2935.3	2119.3	1683.2	1335.2	1002.2	836.3	727.3
32.5°	3403.3	3371.5	3308.8	3259.3	3194.2	2281.5	1762.5	1340.4	954.8	776.3	668.9
35°	3648.6	3626.6	3573.9	3527.6	3459.6	2434.9	1846.5	1337.8	898.5	710.6	615.7
37.5°	3924.5	3911.5	3885.3	3826.5	3743.4	2643.2	1947.2	1326.7	829.6	645.4	574.9
40°	4218.8	4219.9	4191.8	4151.4	4074.4	2895.6	2067.1	1305.3	754.4	588.0	537.9
42.5°	4530.3	4546.4	4532.8	4504.2	4430.1	3150.3	2210.5	1279.2	681.5	532.2	501.4
45°	4887.1	4907.0	4927.8	4885.6	4813.6	3486.3	2399.6	1245.4	602.7	485.8	476.3
47.5°	5298.8	5330.2	5348.9	5349.4	5277.5	3902.6	2706.2	1225.1	532.6	454.5	464.3
50°	6167.6	6177.5	6221.8	6298.9	6243.7	4866.3	3242.2	1212.5	485.3	435.0	455.5
52.5°	7419.2	7528.2	7605.0	7599.8	7524.6	5478.4	3537.4	1147.9	457.1	427.9	451.3
55°	7928.9	8065.2	8207.0	8244.6	8186.2	6000.6	3816.5	1083.1	443.5	433.1	452.8
57.5°	8608.2	8837.7	9032.4	9114.4	9029.9	6668.8	4183.9	1049.2	439.4	447.1	462.7
60°	9401.8	9685.6	9941.3	10088.4	10088.4	7436.9	4564.6	1035.1	433.5	467.9	479.4
62.5°	9911.4	10328.4	10714.5	10929.9	10923.7	7971.6	4733.8	987.1	420.5	482.6	502.4
65°	9913.6	10409.3	10901.3	11143.4	11156.0	7906.0	4454.6	871.9	396.5	484.6	525.4
67.5°	9087.2	9615.6	10189.0	10459.9	10522.4	7277.8	3856.2	716.8	357.3	463.9	533.8
70°	7674.8	8190.8	8776.3	9042.2	9153.4	6204.1	3105.9	552.5	307.3	417.9	516.5
72.5°	6046.5	6552.5	6960.1	7154.6	7241.2	4742.2	2261.8	417.4	252.1	352.1	470.2
75°	4281.0	4660.8	4877.3	4920.6	4934.1	2858.6	1374.2	310.5	207.7	274.0	397.1
77.5°	2416.3	2578.9	2561.2	2580.6	2419.9	1103.5	598.5	222.3	171.1	208.1	307.8
80°	943.3	972.5	913.5	895.3	821.2	410.6	264.0	155.0	136.7	157.6	215.5
82.5°	415.8	429.4	416.9	420.0	401.7	211.8	158.1	112.2	104.4	115.3	143.0
85°	229.1	233.2	232.2	238.9	229.1	84.5	75.1	68.9	73.0	78.2	91.8
87.5°	111.7	112.6	109.1	114.8	111.1	42.8	37.0	39.2	42.8	43.8	43.8
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):

	135°	145°	155°	165°	175°	180°
0°	895.8	895.8	895.8	895.8	895.8	895.8
2.5°	846.3	842.2	842.6	841.5	839.5	839.5
5°	838.9	834.7	834.7	833.7	831.1	831.7
7.5°	846.3	839.5	837.0	833.2	829.6	829.6
10°	854.6	842.6	835.3	829.0	824.4	824.4
12.5°	860.8	842.2	830.2	821.7	817.1	817.1
15°	862.9	838.5	821.7	811.8	807.7	807.1
17.5°	856.2	824.4	804.1	792.6	787.4	785.7
20°	835.3	798.9	774.2	761.3	753.9	751.3
22.5°	804.1	762.2	733.6	720.0	710.6	709.0
25°	760.1	715.3	687.2	674.1	668.9	667.4
27.5°	709.0	667.4	643.2	634.9	630.3	629.7
30°	660.6	625.0	607.3	601.1	595.2	594.3
32.5°	615.1	592.7	586.0	577.0	563.4	561.9
35°	582.8	580.8	576.1	556.2	539.5	534.9
37.5°	563.0	582.3	558.2	519.1	507.2	506.0
40°	551.5	566.1	524.9	511.3	512.4	511.3
42.5°	525.4	540.5	525.9	519.7	523.8	524.9
45°	499.3	515.9	533.8	529.6	539.5	539.5
47.5°	484.6	509.8	533.2	533.2	547.8	553.0
50°	467.9	504.5	524.9	532.2	543.7	539.5
52.5°	466.9	495.7	512.8	525.9	531.2	526.4
55°	468.6	488.4	500.9	515.4	521.7	522.3
57.5°	470.6	484.1	492.5	499.3	518.1	518.1
60°	475.8	480.6	485.3	488.9	513.4	513.9
62.5°	484.1	476.9	475.8	479.4	510.7	508.7
65°	497.2	471.7	463.9	467.5	508.3	502.0
67.5°	515.0	463.9	448.8	451.3	506.0	492.5
70°	531.2	451.3	429.8	427.4	486.3	462.3
72.5°	532.6	436.7	403.8	396.1	422.7	399.7
75°	506.6	426.8	375.1	352.1	349.0	345.8
77.5°	456.5	421.0	341.7	305.8	299.4	301.7
80°	381.9	399.7	301.7	258.8	292.7	289.1
82.5°	285.4	352.8	256.1	229.1	228.4	201.8
85°	158.6	274.9	208.6	171.7	119.5	115.8
87.5°	44.3	152.9	146.1	97.0	66.3	68.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)