

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: P193140

Luminaire Tested: **GLEON-AF-02-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193140
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-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9914.2 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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



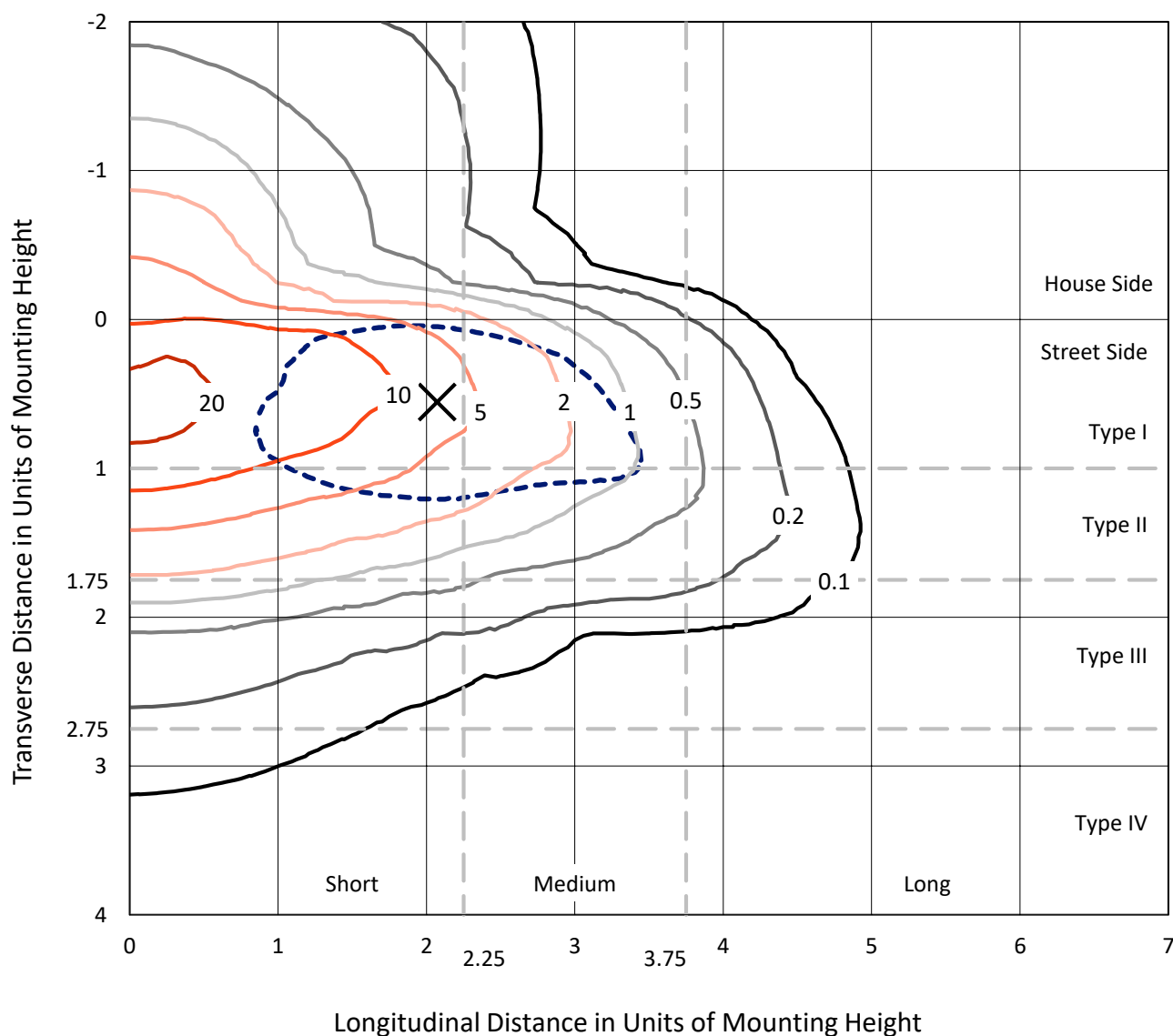
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

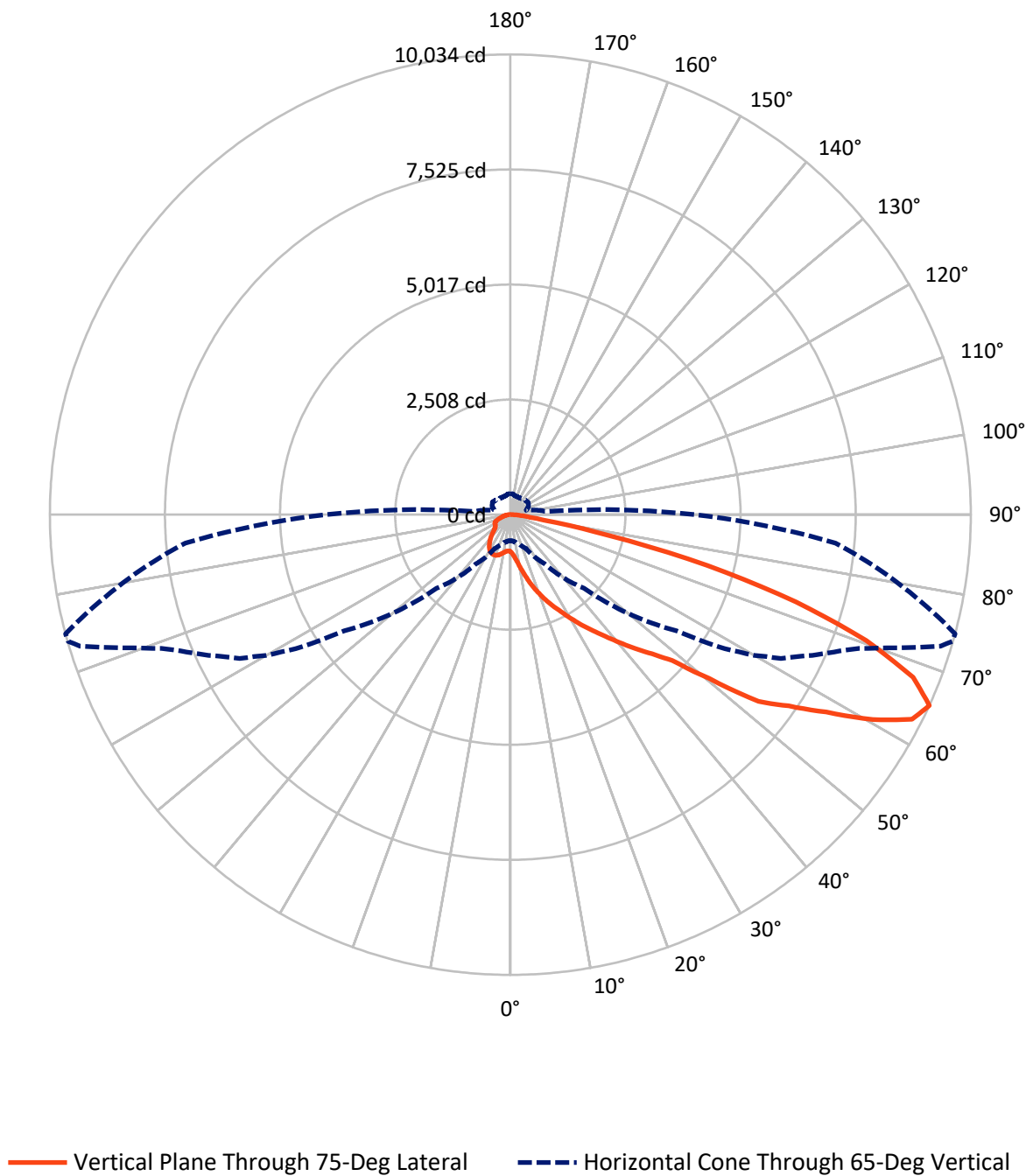


Based on 10 foot mounting height. Maximum calculated value = 25 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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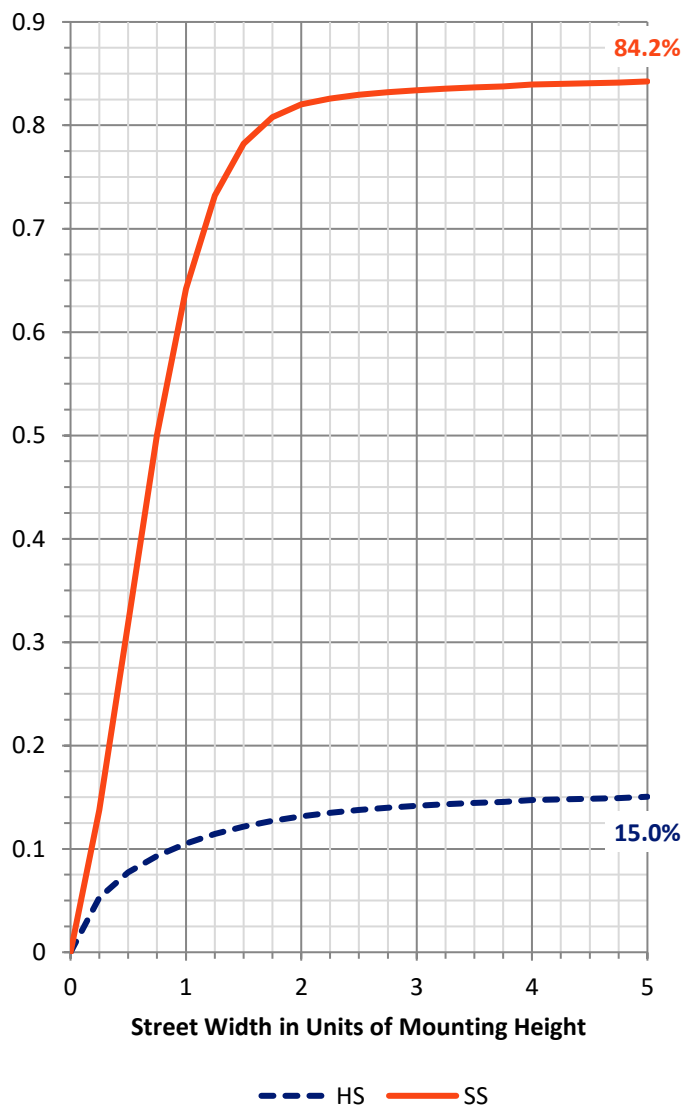
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1528.5	0.0	1528.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	8385.6	0.0	8385.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	9914.2	0.0	9914.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.0
10°-20°	389.1	3.9
20°-30°	798.3	8.1
30°-40°	1343.2	13.5
40°-50°	1855.9	18.7
50°-60°	2316.7	23.4
60°-70°	2084.8	21.0
70°-80°	873.9	8.8
80°-90°	152.7	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°	9914.2	100.0
0°-180°	9914.2	100.0

Coefficient of Utilization



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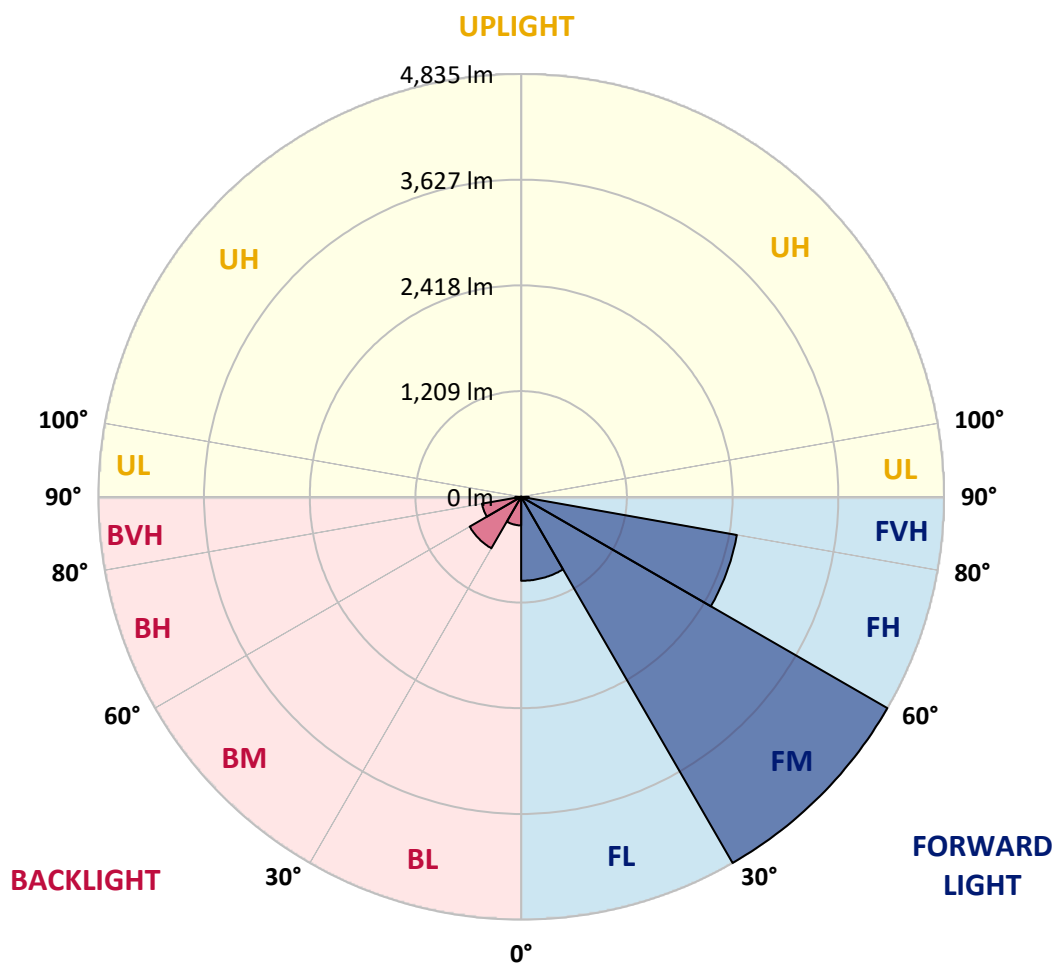
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	960.2	9.7			
FM	(30°-60°)	4835.4	48.8			
FH	(60°-80°)	2504.3	25.3			G2/5000
FVH	(80°-90°)	85.8	0.9			G1/100
BL	(0°-30°)	326.9	3.3	B1/500		
BM	(30°-60°)	680.4	6.9	B1/1000		
BH	(60°-80°)	454.4	4.6	B1/500		G1/500
BVH	(80°-90°)	66.9	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	1023.0	1011.7	1014.6	995.8	972.7	942.7	909.5	908.9	909.5	906.1	894.0
5°	1418.6	1405.0	1399.8	1357.5	1295.6	1207.5	1111.7	1101.4	1097.1	1086.4	1061.5
7.5°	1707.1	1699.6	1691.7	1659.7	1603.5	1504.9	1376.3	1354.3	1333.2	1328.0	1299.8
10°	1893.5	1891.6	1874.7	1866.2	1831.0	1745.6	1620.4	1599.2	1576.3	1568.3	1538.7
12.5°	2040.9	2040.3	2032.3	2034.7	2004.3	1942.3	1834.4	1815.2	1798.2	1773.9	1752.6
15°	2142.7	2143.1	2154.8	2167.9	2163.4	2121.5	2020.2	2011.7	1997.2	1980.4	1955.4
17.5°	2226.1	2228.6	2240.7	2264.6	2290.4	2287.2	2206.9	2199.9	2187.3	2164.2	2151.1
20°	2414.8	2423.7	2400.2	2400.2	2403.0	2415.7	2377.3	2371.6	2353.8	2341.7	2331.3
22.5°	2733.4	2743.7	2690.7	2636.8	2583.8	2545.3	2506.7	2513.8	2501.6	2493.2	2487.1
25°	3147.3	3155.3	3069.4	2978.4	2870.5	2729.7	2634.5	2630.2	2623.7	2618.5	2615.6
27.5°	3536.8	3540.1	3458.9	3325.7	3200.3	2998.1	2763.9	2758.8	2750.8	2741.0	2732.5
30°	3870.0	3869.1	3785.5	3658.3	3524.1	3300.2	2960.6	2944.6	2921.1	2894.4	2873.7
32.5°	4158.5	4157.2	4065.6	3933.8	3793.1	3599.6	3229.9	3197.0	3160.5	3108.3	3077.0
35°	4385.6	4384.8	4298.4	4160.9	3999.6	3881.7	3538.7	3498.4	3451.8	3381.9	3333.6
37.5°	4471.6	4471.6	4423.3	4329.4	4186.7	4106.0	3881.7	3833.0	3783.2	3703.9	3649.5
40°	4421.4	4422.3	4432.6	4415.2	4345.8	4283.8	4201.8	4172.6	4130.0	4058.7	4001.8
42.5°	4252.9	4258.1	4326.5	4410.6	4445.3	4435.4	4485.6	4472.5	4442.5	4387.6	4342.5
45°	4039.5	4055.3	4130.4	4289.0	4473.0	4566.4	4723.6	4724.9	4719.4	4689.7	4655.1
47.5°	3746.1	3768.6	3867.7	4082.0	4408.2	4693.6	4965.2	4977.9	4989.7	4970.4	4954.5
50°	3356.6	3383.3	3531.6	3816.0	4276.4	4825.4	5421.8	5479.1	5532.6	5526.0	5536.8
52.5°	2939.4	2970.9	3152.4	3469.2	4049.7	4855.9	5713.7	5807.1	5900.4	5976.9	6058.1
55°	2563.1	2546.2	2727.7	3061.5	3677.1	4718.4	5976.1	6088.6	6192.9	6286.7	6383.4
57.5°	2053.0	2080.8	2262.8	2592.6	3184.0	4330.3	6156.6	6321.4	6471.1	6626.3	6763.4
60°	1500.6	1528.4	1726.0	2060.9	2648.5	3741.9	6018.8	6268.3	6508.1	6746.1	6931.9
62.5°	906.1	926.7	1100.9	1420.0	2042.2	3044.1	5404.0	5731.5	6084.4	6368.8	6653.7
65°	564.0	575.8	640.0	815.6	1311.5	2272.6	4415.2	4772.3	5152.4	5513.3	5809.5
67.5°	461.7	466.0	477.7	515.2	720.3	1481.9	3286.2	3602.5	3945.6	4294.7	4624.1
70°	415.3	412.5	412.5	414.8	461.7	796.8	2151.6	2357.6	2643.3	2946.9	3248.2
72.5°	375.0	372.1	367.0	359.9	376.8	486.2	1112.1	1267.5	1473.5	1743.3	2031.9
75°	336.9	333.1	327.1	318.2	329.9	367.0	534.1	599.3	699.7	843.3	1004.2
77.5°	297.5	292.9	287.2	280.6	295.6	285.2	313.0	336.4	375.0	420.9	481.5
80°	252.9	248.7	246.8	243.5	261.3	217.3	221.0	235.6	258.1	283.0	311.2
82.5°	198.0	198.0	205.5	206.9	226.6	156.2	165.2	177.9	189.6	202.6	215.9
85°	130.4	131.4	156.7	166.6	178.7	105.1	123.9	128.2	137.4	145.0	150.7
87.5°	40.9	44.1	95.7	106.1	102.8	59.5	76.1	77.9	84.4	89.6	94.3
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°	63°	64°	65°	66°	67°	68°	69°	70°
0°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	894.0	888.3	883.2	882.7	878.9	873.7	875.6	867.6	868.2	863.9	859.3
5°	1051.2	1047.4	1028.5	1023.4	1009.3	1000.5	999.0	980.3	978.0	967.2	955.4
7.5°	1277.4	1265.1	1238.9	1226.2	1202.3	1184.4	1175.9	1151.0	1138.9	1110.7	1098.0
10°	1514.4	1498.8	1466.5	1448.6	1425.7	1397.0	1381.5	1345.4	1331.4	1305.4	1274.5
12.5°	1734.0	1718.4	1685.1	1671.4	1641.0	1610.5	1593.6	1552.8	1534.4	1493.1	1468.8
15°	1937.0	1921.7	1892.5	1878.5	1847.9	1823.1	1800.6	1760.1	1738.7	1700.1	1668.2
17.5°	2134.2	2117.8	2092.5	2079.8	2050.1	2024.9	2000.4	1962.4	1940.3	1901.8	1873.2
20°	2317.2	2305.1	2286.7	2269.8	2240.3	2217.2	2188.1	2155.3	2123.4	2095.3	2068.1
22.5°	2476.8	2472.1	2452.4	2444.7	2419.5	2399.8	2374.4	2342.1	2319.0	2283.4	2258.1
25°	2614.2	2612.8	2603.4	2601.1	2583.2	2564.6	2558.9	2532.1	2511.0	2479.5	2453.3
27.5°	2732.5	2733.8	2731.6	2738.1	2733.4	2725.0	2725.5	2716.5	2704.3	2678.1	2655.1
30°	2863.9	2856.4	2860.6	2870.0	2872.8	2873.7	2889.3	2894.4	2893.4	2876.1	2864.8
32.5°	3049.8	3031.8	3015.4	3014.0	3023.4	3027.1	3053.5	3067.1	3078.8	3083.1	3084.9
35°	3286.7	3251.0	3216.8	3198.4	3182.5	3186.8	3205.5	3227.5	3253.4	3271.2	3292.3
37.5°	3585.2	3541.5	3481.0	3437.9	3427.0	3403.5	3415.8	3433.2	3458.4	3486.1	3522.7
40°	3946.9	3880.8	3812.7	3755.5	3724.5	3681.4	3680.8	3677.5	3693.1	3718.8	3770.5
42.5°	4295.1	4236.4	4164.2	4104.1	4063.8	4006.1	3994.3	3963.8	3970.9	3993.4	4043.5
45°	4621.2	4572.9	4528.8	4459.4	4425.1	4362.7	4342.9	4306.9	4286.7	4296.9	4347.2
47.5°	4937.1	4906.1	4860.1	4815.0	4788.9	4732.9	4707.7	4681.8	4656.0	4655.1	4707.7
50°	5552.8	5536.2	5481.9	5435.0	5447.6	5379.2	5383.3	5314.0	5345.3	5349.2	5459.3
52.5°	6131.3	6188.6	6229.0	6278.2	6310.2	6316.2	6337.4	6368.8	6406.8	6482.0	6584.2
55°	6462.6	6534.5	6576.2	6613.7	6675.6	6688.9	6724.1	6765.8	6799.1	6883.6	6970.4
57.5°	6856.3	6989.7	7054.4	7114.0	7197.5	7229.3	7288.0	7333.6	7376.7	7476.7	7581.8
60°	7098.9	7261.3	7393.1	7487.5	7592.1	7667.3	7755.9	7827.3	7928.6	8048.2	8205.1
62.5°	6906.1	7144.5	7319.5	7481.4	7623.6	7767.1	7894.3	8027.6	8181.6	8362.7	8605.7
65°	6137.8	6380.5	6680.3	6848.4	7036.6	7258.0	7451.4	7667.3	7876.9	8140.7	8500.2
67.5°	4941.2	5223.3	5560.2	5729.7	5946.0	6193.3	6410.0	6673.8	6918.8	7238.3	7682.7
70°	3561.7	3926.3	4209.8	4386.6	4639.0	4893.9	5103.2	5410.1	5612.7	5940.3	6399.8
72.5°	2255.2	2542.9	2890.1	3113.1	3337.4	3595.5	3809.5	4074.1	4263.2	4561.7	4977.9
75°	1212.6	1424.6	1729.7	1941.3	2181.6	2402.2	2652.7	2830.2	2969.8	3206.0	3543.9
77.5°	568.2	697.3	851.6	1014.6	1177.4	1347.2	1512.3	1656.1	1716.0	1851.2	2050.7
80°	344.9	386.7	431.7	482.0	550.0	604.9	677.6	730.2	733.9	776.7	837.6
82.5°	230.4	246.0	259.5	272.2	289.5	303.2	318.6	336.9	344.3	354.3	374.0
85°	157.3	164.8	167.5	175.5	173.6	178.3	184.4	190.5	193.8	193.4	202.2
87.5°	96.7	100.4	102.2	104.2	102.8	100.8	103.7	107.0	107.9	105.1	106.1
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	860.2	855.9	851.6	848.8	848.0	823.0	812.3	805.2	790.3	778.0	768.2
5°	948.8	939.9	932.8	924.5	919.8	856.9	833.8	818.0	791.7	776.2	762.1
7.5°	1091.5	1066.6	1052.0	1035.7	1021.6	908.1	870.0	845.1	808.5	787.9	771.9
10°	1253.4	1227.5	1204.6	1179.2	1157.2	976.0	920.7	882.2	833.8	807.1	786.0
12.5°	1434.0	1408.7	1379.6	1347.2	1319.1	1062.4	985.4	930.6	864.4	828.7	799.1
15°	1647.5	1603.0	1567.8	1530.2	1497.4	1165.7	1061.0	985.0	896.8	848.4	808.9
17.5°	1846.1	1799.2	1751.3	1718.4	1680.4	1281.5	1137.1	1040.3	923.5	861.1	810.9
20°	2039.9	1988.7	1947.4	1903.3	1863.4	1401.7	1218.2	1089.1	940.8	861.5	799.1
22.5°	2210.7	2178.7	2132.7	2084.8	2044.6	1521.8	1294.1	1130.4	947.4	850.8	778.5
25°	2404.9	2371.2	2314.8	2274.4	2229.4	1644.3	1368.8	1162.3	943.7	830.6	746.6
27.5°	2612.4	2574.8	2517.2	2474.8	2420.4	1771.4	1437.3	1185.4	929.6	797.7	703.8
30°	2828.7	2794.5	2737.7	2695.0	2640.0	1906.1	1513.8	1200.9	901.5	752.2	654.1
32.5°	3061.0	3032.4	2976.0	2931.4	2872.8	2052.1	1585.2	1205.5	858.8	698.2	601.6
35°	3281.5	3261.8	3214.4	3172.7	3111.7	2190.0	1660.7	1203.2	808.1	639.1	553.7
37.5°	3529.7	3518.0	3494.5	3441.5	3367.0	2377.3	1751.3	1193.3	746.1	580.5	517.2
40°	3794.5	3795.3	3770.0	3733.9	3664.4	2604.4	1859.1	1174.1	678.5	528.9	483.8
42.5°	4074.6	4089.1	4076.9	4051.2	3984.4	2833.4	1988.3	1150.6	612.8	478.7	450.9
45°	4395.5	4413.4	4432.1	4394.2	4329.4	3135.6	2158.1	1120.1	542.0	436.9	428.4
47.5°	4765.8	4794.0	4810.8	4811.3	4746.6	3510.1	2434.1	1101.8	479.1	408.7	417.6
50°	5547.1	5556.1	5595.9	5665.3	5615.6	4376.8	2916.0	1090.5	436.4	391.3	409.6
52.5°	6672.9	6770.9	6839.9	6835.3	6767.6	4927.3	3181.5	1032.4	411.1	384.8	405.9
55°	7131.4	7253.8	7381.4	7415.2	7362.7	5397.0	3432.6	974.1	398.9	389.5	407.3
57.5°	7742.3	7948.7	8123.8	8197.5	8121.5	5998.2	3763.0	943.7	395.1	402.2	416.3
60°	8456.0	8711.4	8941.2	9073.6	9073.6	6688.9	4105.5	931.0	389.9	420.9	431.2
62.5°	8914.5	9289.4	9636.6	9830.5	9824.9	7169.8	4257.7	887.8	378.2	434.1	451.9
65°	8916.4	9362.2	9804.7	10022.5	10033.8	7110.7	4006.5	784.2	356.6	436.0	472.5
67.5°	8173.0	8648.4	9164.1	9407.7	9464.0	6545.7	3468.3	644.7	321.4	417.2	480.0
70°	6902.8	7367.0	7893.4	8132.7	8232.6	5580.0	2793.5	496.9	276.4	375.9	464.6
72.5°	5438.3	5893.5	6259.9	6435.0	6512.8	4265.1	2034.2	375.5	226.6	316.8	422.9
75°	3850.3	4191.8	4386.6	4425.5	4437.8	2571.1	1236.0	279.1	186.8	246.4	357.1
77.5°	2173.1	2319.6	2303.6	2321.0	2176.5	992.5	538.2	200.0	153.9	187.3	276.9
80°	848.4	874.7	821.6	805.2	738.6	369.3	237.4	139.5	122.9	141.7	193.8
82.5°	374.0	386.2	375.0	377.7	361.3	190.5	142.1	100.8	93.9	103.7	128.6
85°	206.0	209.8	208.8	214.9	206.0	76.1	67.5	62.0	65.7	70.4	82.6
87.5°	100.4	101.4	98.2	103.2	100.0	38.5	33.4	35.2	38.5	39.5	39.5
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°	805.7	805.7	805.7	805.7	805.7	805.7
2.5°	761.1	757.3	757.8	756.9	755.1	755.1
5°	754.6	750.8	750.8	749.8	747.6	748.0
7.5°	761.1	755.1	752.7	749.4	746.1	746.1
10°	768.6	757.8	751.2	745.7	741.5	741.5
12.5°	774.3	757.3	746.6	739.0	734.9	734.9
15°	776.2	754.1	739.0	730.2	726.5	725.9
17.5°	770.1	741.5	723.1	712.8	708.1	706.7
20°	751.2	718.5	696.4	684.6	678.1	675.8
22.5°	723.1	685.6	659.8	647.6	639.1	637.7
25°	683.8	643.3	618.0	606.3	601.6	600.2
27.5°	637.7	600.2	578.6	571.1	566.8	566.4
30°	594.1	562.1	546.2	540.7	535.4	534.5
32.5°	553.3	533.0	526.9	519.0	506.9	505.5
35°	524.1	522.3	518.1	500.2	485.2	481.0
37.5°	506.3	523.7	502.1	466.9	456.1	455.2
40°	496.0	509.1	472.1	459.9	460.8	459.9
42.5°	472.5	486.2	473.0	467.4	471.1	472.1
45°	449.0	464.2	480.0	476.3	485.2	485.2
47.5°	436.0	458.5	479.5	479.5	492.8	497.4
50°	420.9	453.8	472.1	478.7	488.9	485.2
52.5°	420.0	445.8	461.3	473.0	477.7	473.5
55°	421.4	439.2	450.4	463.6	469.3	469.7
57.5°	423.3	435.5	442.9	449.0	466.0	466.0
60°	428.0	432.2	436.4	439.7	461.7	462.1
62.5°	435.5	429.0	428.0	431.2	459.4	457.6
65°	447.2	424.3	417.2	420.4	457.0	451.5
67.5°	463.2	417.2	403.6	405.9	455.2	442.9
70°	477.7	405.9	386.7	384.4	437.4	415.7
72.5°	479.1	392.8	363.2	356.1	380.1	359.5
75°	455.6	383.8	337.4	316.8	313.9	311.2
77.5°	410.6	378.7	307.3	275.0	269.4	271.2
80°	343.5	359.5	271.2	232.7	263.2	259.9
82.5°	256.6	317.2	230.4	206.0	205.5	181.6
85°	142.7	247.3	187.7	154.4	107.5	104.2
87.5°	39.9	137.4	131.4	87.3	59.5	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)