

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: P193088

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SLR-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54933.4 lumens
Efficiency: N/A
Efficacy: 85.8 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): 640
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



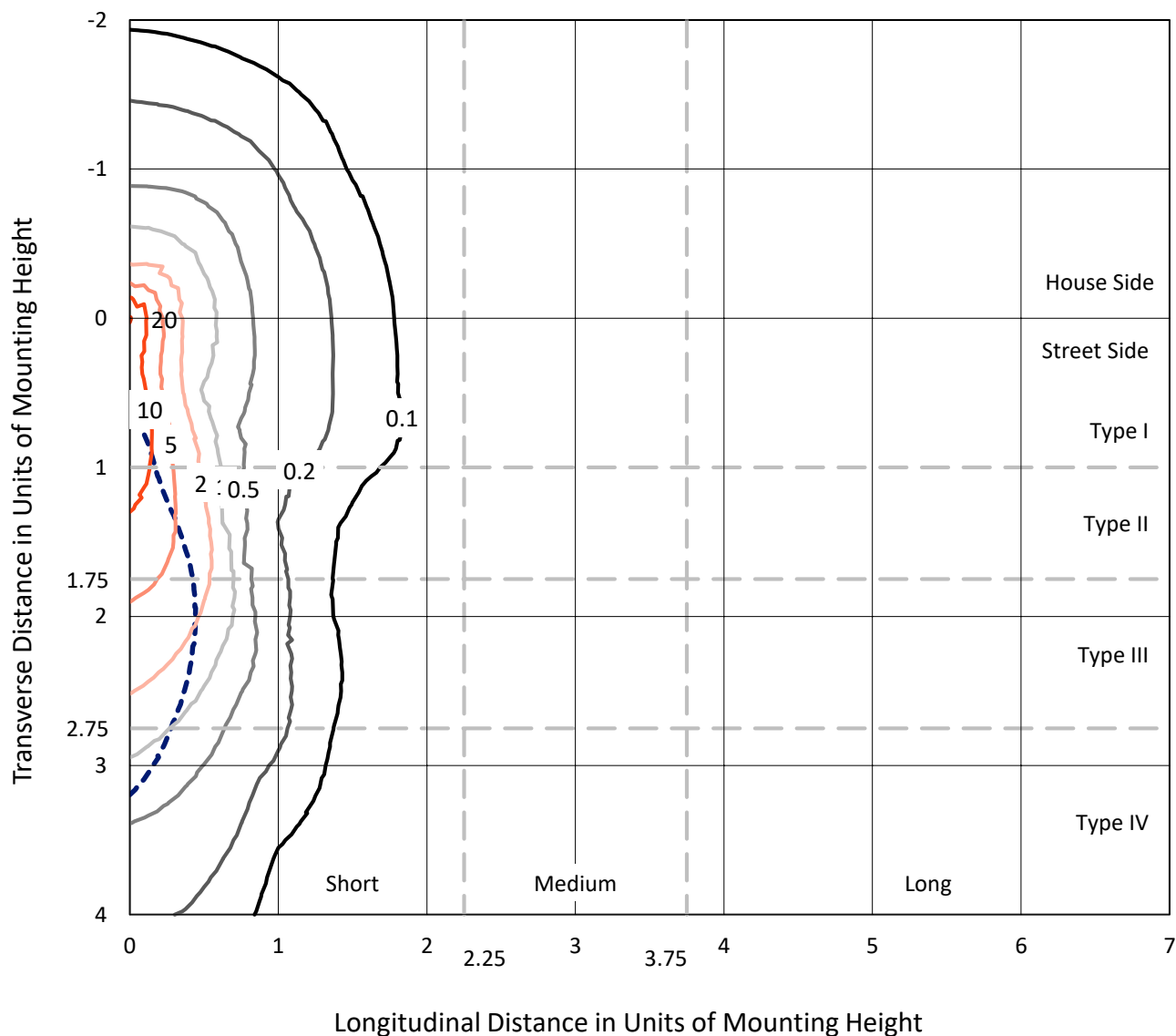
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

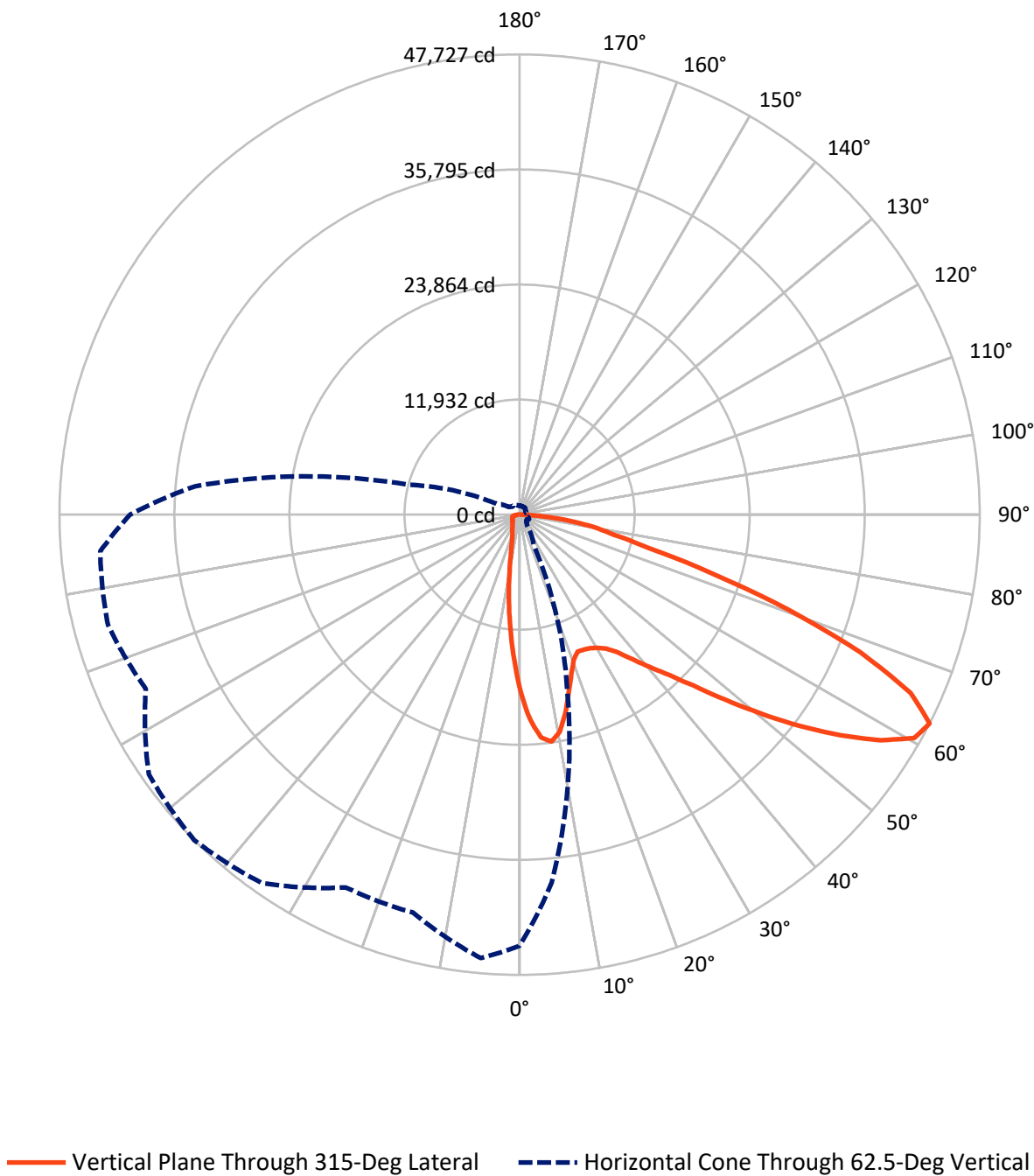


Based on 30 foot mounting height. Maximum calculated value = 20.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9090.7	0.0	9090.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	45842.6	0.0	45842.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	54933.4	0.0	54933.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.0	2.5
10°-20°	2477.5	4.5
20°-30°	3612.1	6.6
30°-40°	5563.2	10.1
40°-50°	8187.5	14.9
50°-60°	12009.4	21.9
60°-70°	13424.8	24.4
70°-80°	6572.6	12.0
80°-90°	1735.3	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°	54933.4	100.0
0°-180°	54933.4	100.0

Coefficient of Utilization



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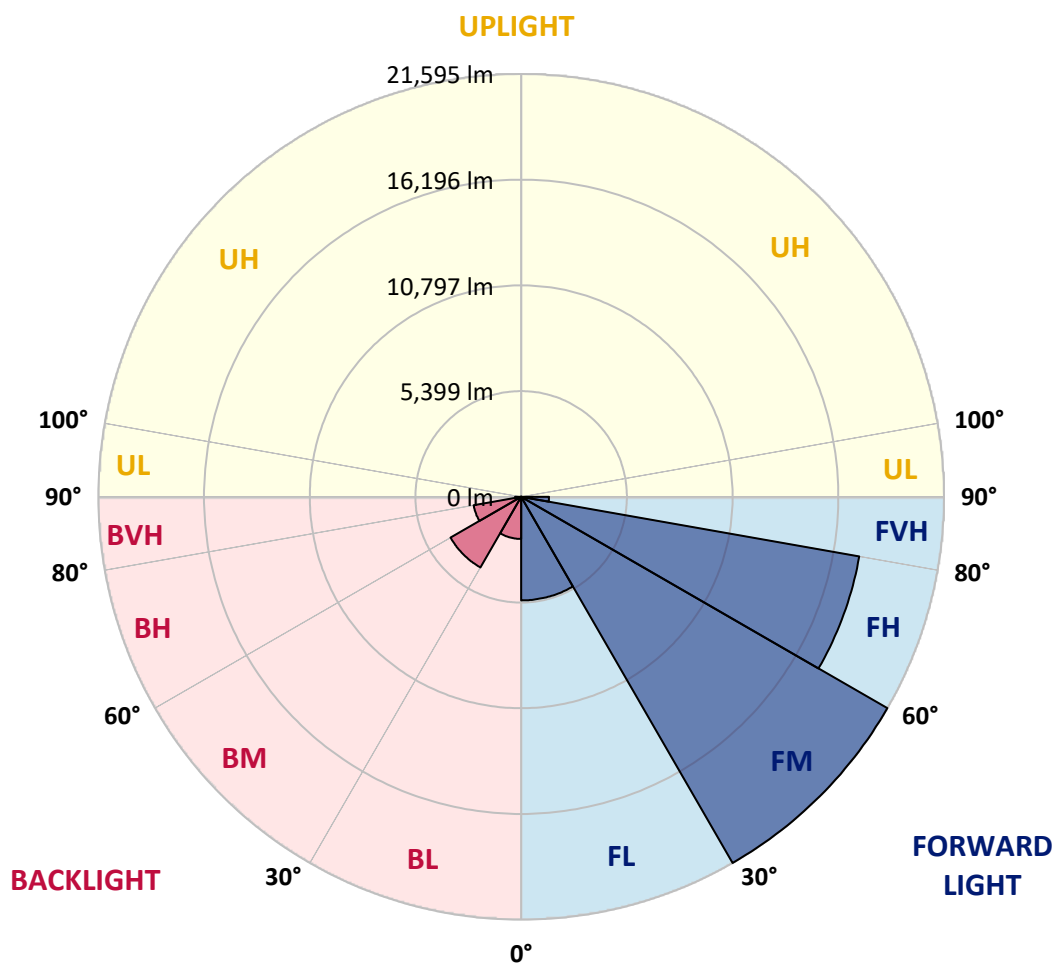
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5289.9	9.6			
FM	(30°-60°)	21594.8	39.3			
FH	(60°-80°)	17532.8	31.9			G5
FVH	(80°-90°)	1425.1	2.6			G5
BL	(0°-30°)	2150.7	3.9	B3/2500		
BM	(30°-60°)	4165.3	7.6	B3/5000		
BH	(60°-80°)	2464.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	310.2	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°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	19284.1	18891.6	18239.3	17559.9	17146.2	16663.0	16285.5	15953.4	15289.0	15159.1	15276.9
5°	18133.6	17345.5	16116.5	14878.4	14054.0	13169.1	12480.6	11928.1	11085.6	10937.6	11115.7
7.5°	16288.6	15346.4	13721.8	12142.4	10976.8	9871.6	9128.7	8536.9	7878.5	7594.7	7612.8
10°	14697.2	13634.3	11713.6	9995.4	9041.2	8295.3	7670.2	7063.2	6395.8	5958.0	5837.1
12.5°	13806.3	12583.4	10369.9	8835.8	7951.1	7165.9	6492.5	5843.1	5130.6	4683.6	4556.7
15°	13652.4	12323.7	9865.6	8093.0	6984.7	5991.2	5197.0	4472.3	3738.5	3376.1	3300.6
17.5°	14319.7	12788.7	9702.4	7431.6	6075.8	4849.7	3874.4	3065.0	2467.2	2285.9	2270.9
20°	15600.0	13682.5	9681.4	6809.6	5178.9	3741.5	2699.7	2110.8	1848.1	1796.8	1799.8
22.5°	17396.8	15068.6	9941.1	6341.5	4354.5	2790.3	2029.3	1766.6	1663.9	1615.6	1615.6
25°	19722.1	16977.1	10538.9	6000.3	3638.8	2228.6	1790.8	1633.7	1537.1	1503.9	1509.9
27.5°	21974.8	18834.2	11233.5	5731.5	3170.7	2023.3	1697.2	1555.2	1470.6	1437.5	1452.5
30°	23732.3	20483.1	11813.3	5366.2	2932.2	1965.9	1730.3	1585.4	1464.6	1413.3	1416.2
32.5°	25187.9	21926.4	12299.6	5103.4	2720.8	1685.0	1491.7	1428.3	1413.3	1352.8	1322.7
35°	27048.0	23499.8	12625.7	5109.4	2621.1	1503.9	1328.7	1216.9	1135.4	1066.0	1066.0
37.5°	29228.3	25305.6	12972.9	5178.9	2585.0	1398.2	1271.3	1159.6	1084.1	1017.6	1005.6
40°	31384.4	27075.2	13290.0	5245.3	2563.8	1334.7	1226.0	1123.4	1054.0	987.4	969.3
42.5°	33217.3	28530.7	13573.9	5278.6	2491.3	1328.7	1192.8	1099.1	1032.7	960.3	942.2
45°	34573.2	29750.6	13878.8	5329.8	2418.8	1352.8	1192.8	1096.2	1014.7	945.2	927.1
47.5°	35784.1	31182.0	14389.1	5329.8	2331.3	1307.5	1232.1	1099.1	1011.6	939.2	924.0
50°	37405.8	33144.9	15355.6	5206.1	2207.5	1259.2	1298.5	1087.1	984.4	927.1	908.9
52.5°	39640.4	35660.4	16889.6	4991.6	2017.3	1165.6	1289.5	1081.1	957.2	896.9	875.7
55°	42282.7	38354.0	18562.5	4741.0	1733.3	1099.1	1244.1	1066.0	927.1	860.6	839.5
57.5°	44345.2	40208.2	19740.2	4354.5	1485.7	1063.0	1102.2	1050.8	890.8	821.4	803.3
60°	45166.5	40135.7	20063.3	3838.2	1364.9	1032.7	963.3	1177.7	860.6	791.1	770.1
62.5°	44722.6	38281.5	19157.4	3475.7	1337.8	993.5	902.9	1090.1	836.5	770.1	739.8
65°	42672.3	34996.0	16756.6	3379.1	1416.2	954.3	863.7	854.6	803.3	739.8	709.6
67.5°	38206.0	30085.8	13416.8	3388.1	1516.0	914.9	824.4	782.1	757.9	706.6	679.5
70°	31118.6	23786.7	10001.5	3412.2	1567.3	869.7	782.1	736.9	709.6	658.3	640.1
72.5°	22880.7	18332.9	7265.5	3255.3	1576.3	818.4	724.7	685.5	658.3	603.9	588.9
75°	15654.4	14023.8	5040.0	2696.6	1374.1	745.9	661.3	625.1	606.9	540.5	531.4
77.5°	11435.8	10526.9	3225.2	2002.0	1060.0	655.3	582.8	555.6	543.6	471.1	459.0
80°	9177.0	8328.5	2017.3	1370.9	776.1	549.6	489.2	474.0	462.0	389.5	380.4
82.5°	6365.7	5577.4	1295.5	890.8	582.8	425.8	386.6	380.4	362.4	296.0	287.0
85°	3358.0	3028.7	821.4	606.9	422.8	293.0	268.8	268.8	259.7	196.3	190.2
87.5°	428.9	697.5	416.8	317.1	232.5	129.8	129.8	126.8	135.9	111.8	96.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	14999.1	15144.1	15005.2	15014.3	15168.3	15627.3	15835.6	16007.8	16192.0	16312.7	16367.1
5°	10871.2	11209.4	11324.0	11565.6	11922.1	12507.9	12740.4	12909.5	13021.2	13087.6	13114.8
7.5°	7434.6	7640.0	7869.5	8259.0	9035.0	9379.4	9533.4	9494.1	9367.4	9322.0	9276.6
10°	5604.7	5523.2	5480.9	5695.2	6323.4	6670.6	6779.3	6673.7	6604.1	6619.4	6694.9
12.5°	4342.4	4200.5	4028.4	4004.3	4417.9	4729.0	4798.4	4804.4	4931.3	5043.0	5209.1
15°	3164.7	3149.6	3065.0	3013.7	3249.3	3503.0	3533.1	3587.5	3702.2	3783.7	3928.8
17.5°	2231.6	2313.1	2379.5	2412.8	2591.0	2772.1	2738.9	2711.7	2690.6	2690.6	2760.1
20°	1799.8	1854.1	1938.7	2035.3	2216.6	2343.3	2261.7	2153.1	2074.7	2050.5	2059.4
22.5°	1621.6	1663.9	1712.2	1796.8	1959.8	2047.4	1959.8	1881.3	1802.8	1775.6	1766.6
25°	1531.0	1585.4	1630.7	1694.1	1814.9	1875.3	1790.8	1733.3	1685.0	1651.8	1627.6
27.5°	1479.7	1528.0	1540.1	1570.3	1673.0	1727.3	1685.0	1660.8	1630.7	1600.4	1570.3
30°	1425.3	1416.2	1395.1	1398.2	1479.7	1534.0	1531.0	1537.1	1534.0	1524.9	1518.9
32.5°	1301.5	1283.4	1265.3	1283.4	1358.8	1407.3	1410.2	1422.3	1422.3	1419.3	1443.5
35°	1084.1	1117.2	1138.5	1192.8	1283.4	1325.7	1307.5	1277.4	1223.0	1189.9	1186.8
37.5°	1002.6	1008.6	1044.8	1120.4	1220.0	1259.2	1232.1	1162.6	1126.4	1120.4	1129.4
40°	963.3	969.3	990.4	1060.0	1159.6	1198.8	1174.6	1123.4	1090.1	1087.1	1102.2
42.5°	936.2	942.2	954.3	1002.6	1084.1	1132.4	1135.4	1099.1	1060.0	1063.0	1078.1
45°	921.0	924.0	921.0	945.2	1020.7	1078.1	1102.2	1078.1	1044.8	1050.8	1069.0
47.5°	918.0	908.9	896.9	902.9	981.4	1038.8	1069.0	1060.0	1044.8	1050.8	1066.0
50°	906.0	884.8	869.7	866.7	945.2	1005.6	1032.7	1032.7	1038.8	1050.8	1066.0
52.5°	869.7	845.5	845.5	836.5	921.0	978.4	996.6	999.5	1008.6	1029.8	1050.8
55°	824.4	815.3	824.4	809.3	902.9	957.2	966.3	972.4	978.4	996.6	1026.7
57.5°	785.1	773.0	794.2	788.2	887.8	936.2	936.2	948.2	948.2	972.4	996.6
60°	764.0	739.8	748.9	755.0	866.7	918.0	912.0	924.0	930.2	951.2	969.3
62.5°	736.9	715.6	715.6	730.8	842.5	890.8	887.8	896.9	921.0	927.1	945.2
65°	703.6	694.6	685.5	703.6	818.4	860.6	863.7	875.7	896.9	902.9	918.0
67.5°	670.5	673.4	655.3	673.4	797.3	830.5	830.5	854.6	863.7	875.7	890.8
70°	634.1	637.2	622.1	643.2	782.1	797.3	794.2	827.4	833.4	842.5	857.5
72.5°	588.9	588.9	582.8	613.1	757.9	764.0	757.9	785.1	788.2	797.3	803.3
75°	540.5	540.5	534.5	576.8	742.9	727.7	709.6	730.8	736.9	742.9	742.9
77.5°	477.1	483.2	483.2	534.5	691.5	712.7	652.3	664.3	673.4	676.5	667.3
80°	398.6	413.6	419.8	486.2	579.8	658.3	582.8	591.8	594.9	594.9	582.8
82.5°	305.0	332.1	347.2	419.8	443.9	552.7	507.3	516.4	507.3	489.2	483.2
85°	211.4	247.6	265.7	320.1	335.2	425.8	422.8	422.8	404.7	380.4	377.5
87.5°	114.7	135.9	147.9	190.2	229.6	287.0	311.1	302.0	287.0	271.7	274.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	16651.0	17061.6	17716.9	18218.2	18722.5	19208.7	19734.2	20135.7	20477.1	20609.9	21014.5
5°	13389.6	13903.0	14522.0	15639.4	16430.5	17303.3	18311.9	19646.6	20160.0	20869.6	22032.1
7.5°	9467.0	9932.0	10928.5	11831.4	12951.7	14186.9	15548.8	17390.8	18064.2	19202.7	21096.1
10°	7069.3	7609.8	8410.0	9171.0	10158.5	11420.8	12985.0	15044.5	15862.8	17097.9	19278.1
12.5°	5695.2	6332.4	7180.9	7896.7	8660.7	9551.6	11070.4	13329.2	14425.4	15506.5	17710.9
15°	4375.7	5043.0	5831.1	6740.1	7582.6	8542.9	10134.4	12604.4	13866.7	14993.1	16874.4
17.5°	3028.7	3599.5	4593.0	5541.3	6619.4	7848.3	9874.7	12758.5	14265.3	15563.9	17019.5
20°	2147.1	2473.2	3288.4	4387.8	5731.5	7274.6	9826.3	13567.9	15527.6	17010.3	17949.4
22.5°	1805.8	1926.6	2400.8	3409.3	4961.5	6845.7	9995.4	14703.2	17230.7	19124.2	19432.2
25°	1645.8	1718.2	1965.9	2675.5	4276.0	6534.8	10566.1	16394.3	19338.6	21238.1	21183.6
27.5°	1558.1	1633.7	1796.8	2258.8	3759.6	6341.5	11136.9	18399.4	21748.3	23533.1	22856.6
30°	1531.0	1633.7	1805.8	2128.9	3391.2	6036.5	11605.0	20160.0	23602.4	25082.1	23617.6
32.5°	1509.9	1524.9	1603.5	1836.0	3040.9	5680.2	11922.1	21739.2	25417.3	26555.8	24713.7
35°	1220.0	1295.5	1422.3	1645.8	2835.6	5465.8	11922.1	23101.1	27205.0	28044.5	25758.5
37.5°	1174.6	1241.0	1352.8	1543.1	2720.8	5360.0	11683.4	24414.7	29032.0	29732.6	26619.2
40°	1150.5	1204.9	1310.6	1464.6	2672.5	5239.3	11336.2	25574.4	30816.7	31423.6	27422.4
42.5°	1132.4	1180.8	1280.4	1416.2	2609.1	5106.4	11055.4	26504.4	32365.8	32867.1	28189.4
45°	1123.4	1174.6	1283.4	1440.5	2482.3	4931.3	10961.8	27510.1	33640.2	34072.0	29020.0
47.5°	1123.4	1183.8	1298.5	1491.7	2331.3	4750.0	11254.7	28835.7	34845.1	35056.4	29998.3
50°	1114.3	1180.8	1340.7	1440.5	2110.8	4520.6	11943.1	30505.6	36149.5	36173.7	31236.4
52.5°	1096.2	1174.6	1443.5	1410.2	1857.2	4218.6	12873.3	32649.6	38079.1	38224.2	33175.1
55°	1075.0	1165.6	1416.2	1340.7	1648.8	3859.2	13634.3	35255.7	40791.0	41192.6	36025.7
57.5°	1047.9	1153.6	1370.9	1244.1	1512.9	3397.2	13909.0	37164.2	42684.4	43692.9	39238.9
60°	1023.6	1144.5	1238.1	1186.8	1428.3	3007.7	13377.6	36786.7	42554.6	44728.7	42086.4
62.5°	999.5	1153.6	1129.4	1150.5	1389.1	2757.0	11988.5	33764.0	40401.4	43659.7	44197.2
65°	972.4	1072.1	1066.0	1120.4	1380.1	2657.4	9938.0	29231.3	36240.2	40280.6	44695.4
67.5°	936.2	990.4	1020.7	1081.1	1410.2	2569.8	8020.5	24112.8	30457.3	35216.5	42098.4
70°	896.9	942.2	975.3	1032.7	1392.1	2530.6	6670.6	19015.5	24167.2	28862.9	36974.0
72.5°	845.5	884.8	914.9	969.3	1374.1	2509.4	5634.8	15313.2	18043.1	21440.3	30061.7
75°	785.1	821.4	842.5	896.9	1316.6	2298.0	4430.0	12957.8	13501.3	14914.7	23943.7
77.5°	715.6	742.9	761.0	821.4	1165.6	1911.5	3203.9	9995.4	10484.6	10828.9	18357.0
80°	634.1	661.3	670.5	727.7	966.3	1494.7	2089.7	7383.3	7842.3	7920.9	11988.5
82.5°	540.5	567.7	567.7	622.1	791.1	1075.0	1370.9	5058.0	5148.8	5414.5	8473.5
85°	434.9	455.9	455.9	483.2	613.1	803.3	942.2	2539.6	2512.4	2868.8	7341.0
87.5°	311.1	326.1	341.2	347.2	437.9	531.4	567.7	773.0	510.4	585.8	4713.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5	18559.5
2.5°	21319.5	21491.7	21316.5	21189.6	20643.1	20193.2	19592.3	19284.1
5°	22917.0	23354.8	23206.8	22675.3	21533.9	20250.5	18791.9	18133.6
7.5°	22723.7	23741.4	23765.5	22772.1	21090.0	19199.7	17224.7	16288.6
10°	21219.9	22521.4	22892.8	21929.5	20144.7	18030.9	15766.2	14697.2
12.5°	19540.9	20815.2	21099.0	20766.9	19275.1	17152.3	14854.3	13806.3
15°	18166.9	18737.6	19075.8	19365.7	18529.3	16802.0	14802.9	13652.4
17.5°	17330.3	17267.0	17363.6	17867.9	18009.9	17203.5	15588.0	14319.7
20°	17028.4	16059.0	16034.9	16729.4	17765.2	18160.8	17122.0	15600.0
22.5°	17194.5	15624.3	15424.9	16249.4	17895.1	19540.9	19133.2	17396.8
25°	17768.3	15660.4	15500.4	16297.6	18366.2	21011.5	21304.5	19722.1
27.5°	18671.2	15890.0	15678.6	16496.9	18991.2	22246.6	23442.4	21974.8
30°	19528.8	16288.6	16025.8	16889.6	19562.0	22735.8	24753.0	23732.3
32.5°	20570.6	17034.5	16572.5	17611.3	20268.6	23514.9	25921.6	25187.9
35°	21591.3	18097.3	17523.6	18725.5	21056.8	24484.2	27256.4	27048.0
37.5°	22711.6	19486.5	19012.4	20166.0	22134.9	25399.2	28959.5	29228.3
40°	23907.4	21328.6	20766.9	22267.7	23807.8	26546.7	30738.1	31384.4
42.5°	25112.3	23373.0	22702.6	24224.5	25646.9	27679.0	32260.1	33217.3
45°	26492.3	25592.5	25275.4	26921.2	27413.3	28757.1	33383.5	34573.2
47.5°	28098.9	28111.0	28621.3	29279.7	29195.0	29977.1	34512.9	35784.1
50°	29974.1	31254.4	32380.9	32818.8	31031.0	31287.7	36080.1	37405.8
52.5°	32226.9	35014.1	36409.2	36122.4	33009.0	32888.2	38562.4	39640.4
55°	35044.4	38994.2	40380.2	40174.8	35282.9	35068.5	41654.5	42282.7
57.5°	38305.6	42850.4	44124.8	43200.7	38012.7	37460.1	44212.3	44345.2
60°	41171.4	45906.4	47023.8	46000.0	40766.9	40005.9	45809.7	45166.5
62.5°	42765.8	46942.1	47727.2	46625.1	42654.2	42717.5	46160.1	44722.6
65°	42053.3	44324.1	44577.7	44487.1	42167.9	44290.9	44900.8	42672.3
67.5°	38151.7	37704.8	38130.5	38719.4	38000.7	42219.3	41413.0	38206.0
70°	31278.6	28823.5	29672.2	30067.7	30393.8	36330.8	35944.2	31118.6
72.5°	23572.2	20193.2	20863.5	20781.9	22291.8	29140.6	27954.0	22880.7
75°	16702.3	13691.6	13776.2	13742.9	15554.8	22799.2	20241.5	15654.4
77.5°	11686.5	9919.8	9965.2	10152.5	10457.4	17194.5	14461.7	11435.8
80°	8035.6	7528.3	7778.9	7794.0	7247.3	11550.6	10683.9	9177.0
82.5°	5985.1	5233.3	5172.9	5260.4	5680.2	9358.3	8210.8	6365.7
85°	4901.1	3098.3	2491.3	3122.4	5033.9	9267.7	5453.6	3358.0
87.5°	2760.1	1470.6	664.3	1232.1	2008.1	6136.1	1576.3	428.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)