

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: P194677

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194677
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-09-LED-E1-SLR-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA 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: 46765 lumens
Efficiency: N/A
Efficacy: 93.3 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): 501
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

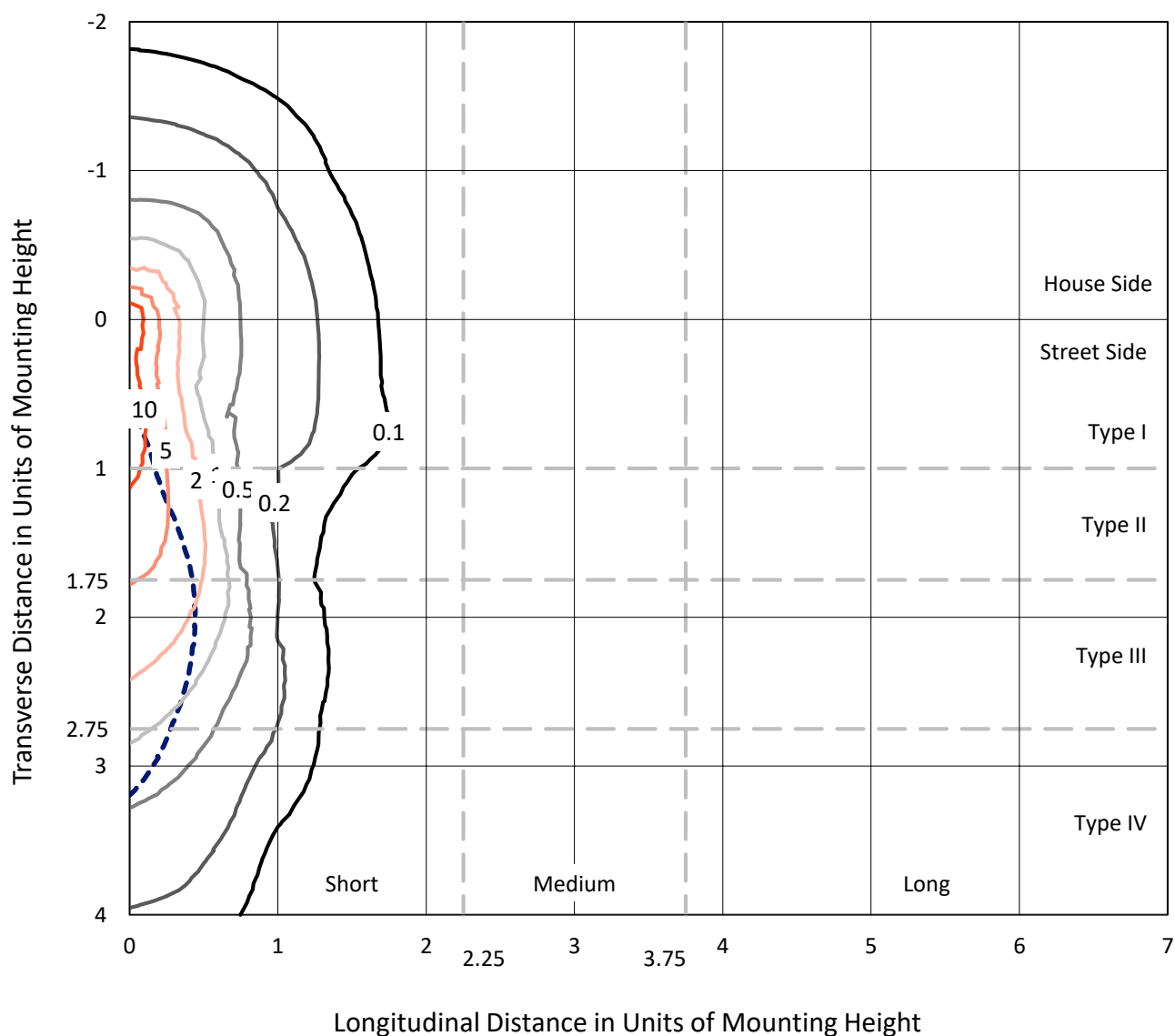


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

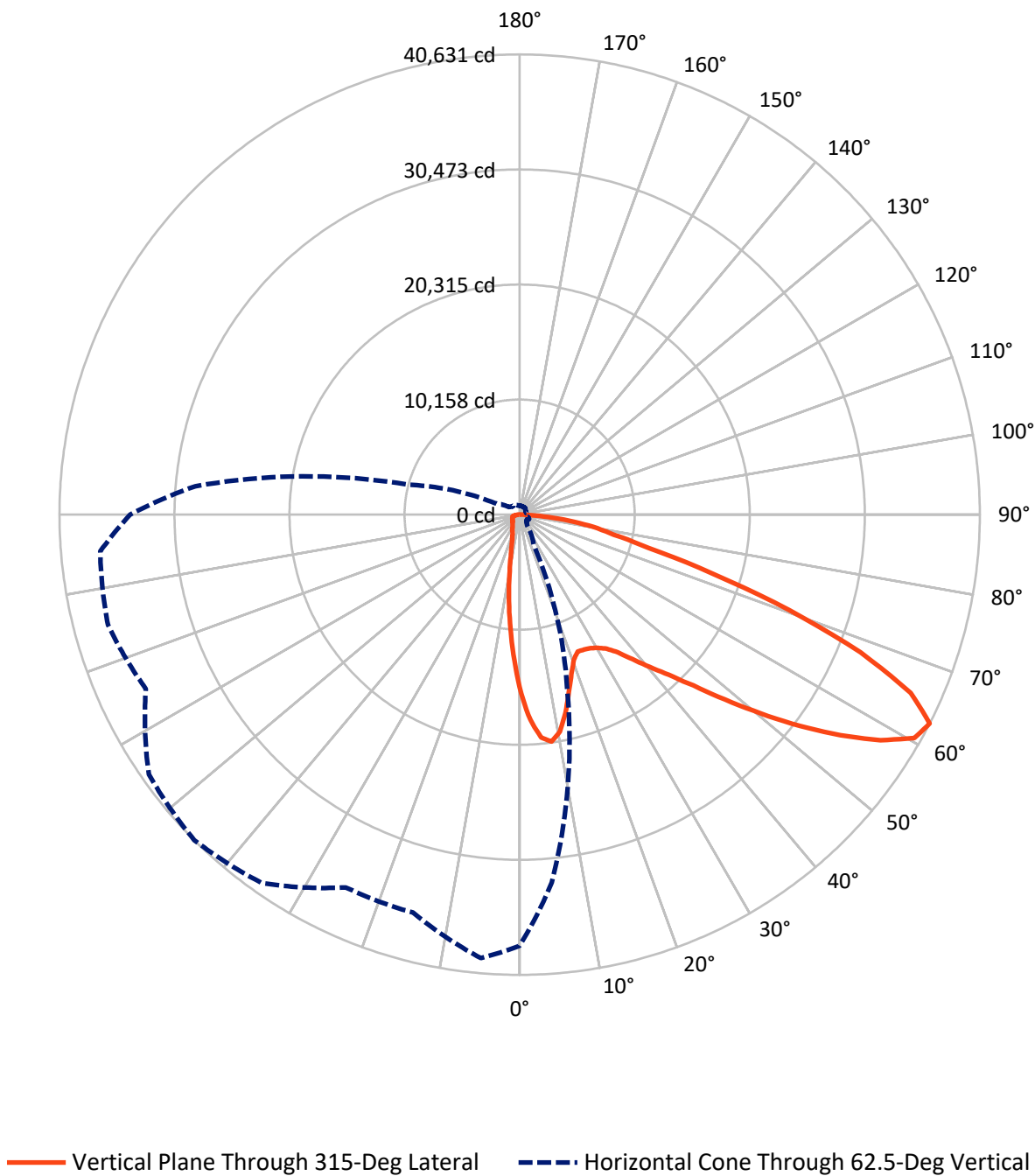


Based on 30 foot mounting height. Maximum calculated value = 17.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7739.0	0.0	7739.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	39026.0	0.0	39026.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	46765.0	0.0	46765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1150.2	2.5
10°-20°	2109.1	4.5
20°-30°	3075.0	6.6
30°-40°	4736.0	10.1
40°-50°	6970.1	14.9
50°-60°	10223.6	21.9
60°-70°	11428.5	24.4
70°-80°	5595.3	12.0
80°-90°	1477.3	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°	46765.0	100.0
0°-180°	46765.0	100.0

Coefficient of Utilization



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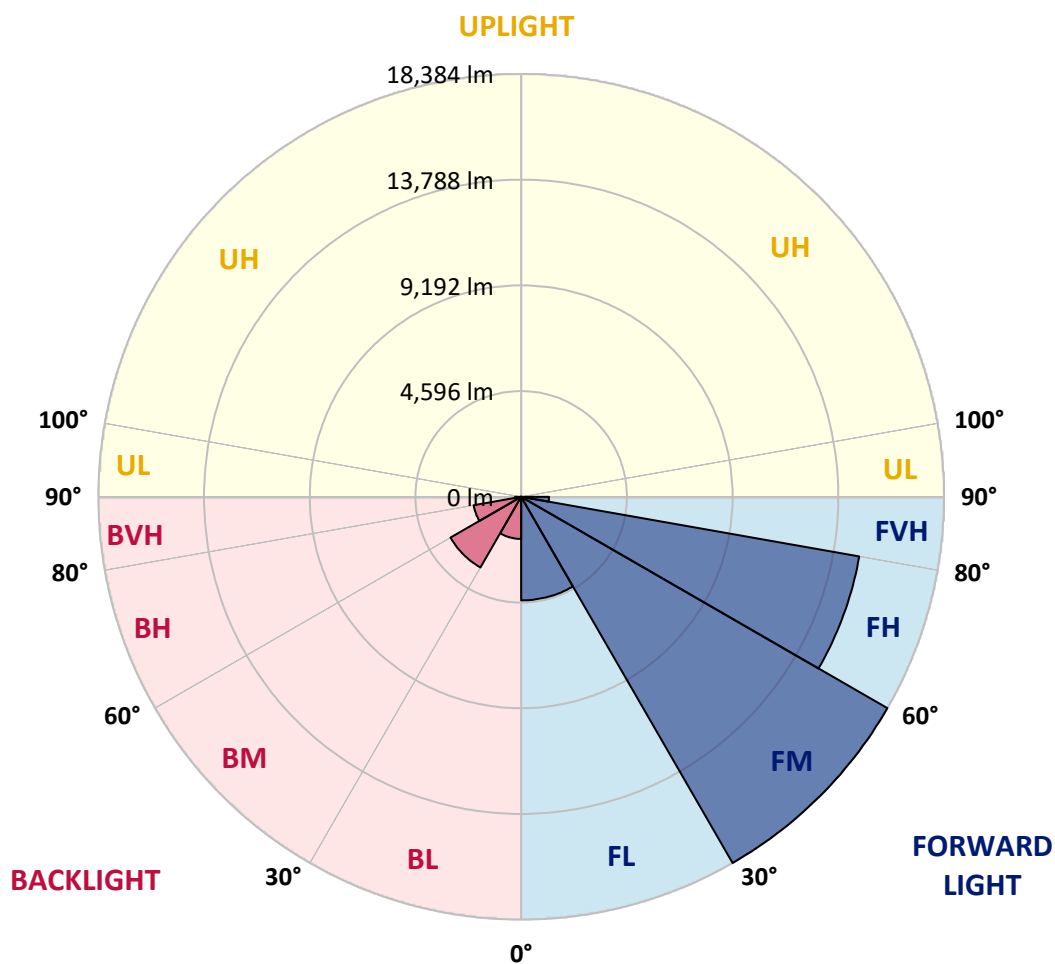
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4503.3	9.6			
FM	(30°-60°)	18383.7	39.3			
FH	(60°-80°)	14925.8	31.9			G5
FVH	(80°-90°)	1213.2	2.6			G5
BL	(0°-30°)	1830.9	3.9	B3/2500		
BM	(30°-60°)	3545.9	7.6	B3/5000		
BH	(60°-80°)	2098.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	264.1	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°	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7
2.5°	16416.7	16082.5	15527.2	14948.8	14596.6	14185.3	13864.0	13581.2	13015.6	12905.1	13005.3
5°	15437.3	14766.3	13720.0	12666.0	11964.2	11211.0	10624.8	10154.4	9437.2	9311.2	9462.9
7.5°	13866.5	13064.5	11681.4	10336.9	9344.6	8403.7	7771.3	7267.5	6707.0	6465.4	6480.8
10°	12511.8	11606.9	9971.9	8509.1	7696.8	7061.8	6529.7	6012.9	5444.8	5072.1	4969.2
12.5°	11753.4	10712.3	8827.9	7522.0	6768.7	6100.4	5527.1	4974.4	4367.7	3987.2	3879.2
15°	11622.3	10491.2	8398.6	6889.6	5946.1	5100.3	4424.2	3807.3	3182.6	2874.1	2809.8
17.5°	12190.4	10887.1	8259.8	6326.6	5172.3	4128.6	3298.3	2609.3	2100.3	1946.0	1933.2
20°	13280.4	11648.0	8241.8	5797.0	4408.8	3185.1	2298.2	1796.9	1573.3	1529.6	1532.2
22.5°	14810.0	12828.0	8462.9	5398.5	3707.0	2375.4	1727.5	1503.9	1416.5	1375.3	1375.3
25°	16789.5	14452.7	8971.9	5108.1	3097.7	1897.2	1524.4	1390.8	1308.5	1280.2	1285.4
27.5°	18707.2	16033.7	9563.1	4879.3	2699.3	1722.4	1444.8	1323.9	1251.9	1223.7	1236.5
30°	20203.4	17437.3	10056.7	4568.2	2496.2	1673.5	1473.0	1349.6	1246.8	1203.1	1205.7
32.5°	21442.5	18666.1	10470.6	4344.5	2316.2	1434.5	1269.9	1216.0	1203.1	1151.7	1126.0
35°	23026.1	20005.5	10748.2	4349.7	2231.4	1280.2	1131.1	1036.0	966.6	907.5	907.5
37.5°	24882.1	21542.8	11043.9	4408.8	2200.5	1190.3	1082.3	987.2	922.9	866.3	856.1
40°	26717.6	23049.2	11313.8	4465.4	2182.6	1136.3	1043.7	956.3	897.2	840.6	825.2
42.5°	28278.1	24288.3	11555.5	4493.6	2120.9	1131.1	1015.4	935.7	879.2	817.5	802.1
45°	29432.3	25326.9	11815.1	4537.3	2059.2	1151.7	1015.4	933.2	863.8	804.6	789.2
47.5°	30463.2	26545.4	12249.6	4537.3	1984.6	1113.1	1048.9	935.7	861.2	799.5	786.6
50°	31843.7	28216.4	13072.2	4431.9	1879.2	1072.0	1105.4	925.5	838.1	789.2	773.8
52.5°	33746.0	30357.8	14378.1	4249.4	1717.3	992.3	1097.7	920.3	814.9	763.5	745.5
55°	35995.4	32650.9	15802.3	4036.1	1475.6	935.7	1059.1	907.5	789.2	732.7	714.7
57.5°	37751.2	34229.3	16804.9	3707.0	1264.8	904.9	938.3	894.6	758.4	699.2	683.8
60°	38450.5	34167.6	17080.0	3267.4	1162.0	879.2	820.1	1002.6	732.7	673.5	655.5
62.5°	38072.6	32589.2	16308.7	2958.9	1138.8	845.8	768.6	928.0	712.1	655.5	629.8
65°	36327.1	29792.2	14265.0	2876.7	1205.7	812.4	735.2	727.5	683.8	629.8	604.1
67.5°	32524.9	25612.2	11421.8	2884.4	1290.5	778.9	701.8	665.8	645.3	601.6	578.4
70°	26491.4	20249.7	8514.3	2904.9	1334.2	740.4	665.8	627.3	604.1	560.4	545.0
72.5°	19478.5	15606.9	6185.2	2771.3	1341.9	696.7	617.0	583.6	560.4	514.1	501.3
75°	13326.7	11938.5	4290.6	2295.7	1169.7	635.0	563.0	532.1	516.7	460.2	452.4
77.5°	9735.4	8961.6	2745.5	1704.4	902.3	557.8	496.2	473.0	462.7	401.0	390.8
80°	7812.5	7090.1	1717.3	1167.1	660.7	467.9	416.5	403.6	393.3	331.6	323.9
82.5°	5419.1	4748.1	1102.8	758.4	496.2	362.5	329.1	323.9	308.5	251.9	244.2
85°	2858.7	2578.4	699.2	516.7	359.9	249.4	228.8	228.8	221.1	167.1	162.0
87.5°	365.0	593.8	354.8	269.9	197.9	110.5	110.5	108.0	115.7	95.1	82.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7
2.5°	12768.8	12892.2	12774.0	12781.7	12912.8	13303.6	13480.9	13627.5	13784.3	13887.1	13933.4
5°	9254.6	9542.6	9640.3	9845.9	10149.3	10648.0	10845.9	10989.9	11085.0	11141.6	11164.7
7.5°	6329.1	6504.0	6699.3	7031.0	7691.6	7984.7	8115.8	8082.4	7974.4	7935.9	7897.3
10°	4771.3	4701.9	4665.9	4848.4	5383.1	5678.8	5771.3	5681.3	5622.2	5635.1	5699.3
12.5°	3696.7	3575.9	3429.4	3408.8	3761.0	4025.8	4084.9	4090.0	4198.0	4293.1	4434.5
15°	2694.1	2681.3	2609.3	2565.6	2766.1	2982.1	3007.8	3054.0	3151.7	3221.1	3344.5
17.5°	1899.8	1969.2	2025.7	2054.0	2205.7	2359.9	2331.7	2308.5	2290.5	2290.5	2349.7
20°	1532.2	1578.4	1650.4	1732.7	1886.9	1994.9	1925.5	1832.9	1766.1	1745.5	1753.2
22.5°	1380.5	1416.5	1457.6	1529.6	1668.4	1743.0	1668.4	1601.6	1534.7	1511.6	1503.9
25°	1303.4	1349.6	1388.2	1442.2	1545.0	1596.4	1524.4	1475.6	1434.5	1406.2	1385.6
27.5°	1259.7	1300.8	1311.1	1336.8	1424.2	1470.5	1434.5	1413.9	1388.2	1362.5	1336.8
30°	1213.4	1205.7	1187.7	1190.3	1259.7	1305.9	1303.4	1308.5	1305.9	1298.2	1293.1
32.5°	1108.0	1092.6	1077.1	1092.6	1156.8	1198.0	1200.5	1210.8	1210.8	1208.2	1228.8
35°	922.9	951.2	969.2	1015.4	1092.6	1128.6	1113.1	1087.4	1041.1	1012.9	1010.3
37.5°	853.5	858.6	889.5	953.7	1038.6	1072.0	1048.9	989.7	958.9	953.7	961.5
40°	820.1	825.2	843.2	902.3	987.2	1020.6	1000.0	956.3	928.0	925.5	938.3
42.5°	796.9	802.1	812.4	853.5	922.9	964.0	966.6	935.7	902.3	904.9	917.8
45°	784.1	786.6	784.1	804.6	868.9	917.8	938.3	917.8	889.5	894.6	910.0
47.5°	781.5	773.8	763.5	768.6	835.5	884.3	910.0	902.3	889.5	894.6	907.5
50°	771.2	753.2	740.4	737.8	804.6	856.1	879.2	879.2	884.3	894.6	907.5
52.5°	740.4	719.8	719.8	712.1	784.1	832.9	848.3	850.9	858.6	876.6	894.6
55°	701.8	694.1	701.8	689.0	768.6	814.9	822.6	827.8	832.9	848.3	874.0
57.5°	668.4	658.1	676.1	671.0	755.8	796.9	796.9	807.2	807.2	827.8	848.3
60°	650.4	629.8	637.5	642.7	737.8	781.5	776.4	786.6	791.8	809.8	825.2
62.5°	627.3	609.3	609.3	622.1	717.2	758.4	755.8	763.5	784.1	789.2	804.6
65°	599.0	591.3	583.6	599.0	696.7	732.7	735.2	745.5	763.5	768.6	781.5
67.5°	570.7	573.3	557.8	573.3	678.7	707.0	707.0	727.5	735.2	745.5	758.4
70°	539.9	542.4	529.6	547.6	665.8	678.7	676.1	704.4	709.5	717.2	730.1
72.5°	501.3	501.3	496.2	521.9	645.3	650.4	645.3	668.4	671.0	678.7	683.8
75°	460.2	460.2	455.0	491.0	632.4	619.5	604.1	622.1	627.3	632.4	632.4
77.5°	406.2	411.3	411.3	455.0	588.7	606.7	555.3	565.6	573.3	575.8	568.1
80°	339.3	352.2	357.3	413.9	493.6	560.4	496.2	503.9	506.4	506.4	496.2
82.5°	259.6	282.8	295.6	357.3	377.9	470.4	431.9	439.6	431.9	416.5	411.3
85°	180.0	210.8	226.2	272.5	285.4	362.5	359.9	359.9	344.5	323.9	321.3
87.5°	97.7	115.7	126.0	162.0	195.4	244.2	264.8	257.1	244.2	231.4	233.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7
2.5°	14175.0	14524.7	15082.5	15509.2	15938.6	16352.4	16799.8	17141.7	17432.2	17545.3	17889.7
5°	11398.6	11835.7	12362.7	13313.8	13987.4	14730.3	15588.9	16725.2	17162.2	17766.3	18756.1
7.5°	8059.3	8455.1	9303.5	10072.1	11025.9	12077.3	13236.7	14804.9	15378.1	16347.3	17959.2
10°	6018.1	6478.3	7159.5	7807.3	8648.0	9722.5	11054.2	12807.4	13504.1	14555.5	16411.6
12.5°	4848.4	5390.8	6113.2	6722.5	7372.9	8131.2	9424.3	11347.2	12280.4	13200.7	15077.4
15°	3725.0	4293.1	4964.1	5737.9	6455.1	7272.6	8627.4	10730.2	11804.8	12763.7	14365.3
17.5°	2578.4	3064.3	3910.1	4717.3	5635.1	6681.3	8406.3	10861.4	12144.2	13249.6	14488.7
20°	1827.8	2105.4	2799.5	3735.3	4879.3	6192.9	8365.2	11550.3	13218.7	14480.9	15280.4
22.5°	1537.3	1640.1	2043.7	2902.4	4223.7	5827.9	8509.1	12516.9	14668.6	16280.5	16542.7
25°	1401.1	1462.7	1673.5	2277.7	3640.2	5563.1	8995.0	13956.5	16463.0	18080.0	18033.7
27.5°	1326.5	1390.8	1529.6	1922.9	3200.6	5398.5	9480.9	15663.5	18514.4	20033.7	19457.9
30°	1303.4	1390.8	1537.3	1812.4	2886.9	5138.9	9879.3	17162.2	20092.9	21352.5	20105.7
32.5°	1285.4	1298.2	1365.1	1563.0	2588.7	4835.6	10149.3	18506.7	21637.9	22607.0	21038.9
35°	1038.6	1102.8	1210.8	1401.1	2413.9	4653.0	10149.3	19666.1	23159.7	23874.4	21928.4
37.5°	1000.0	1056.6	1151.7	1313.6	2316.2	4563.1	9946.2	20784.4	24715.0	25311.5	22661.0
40°	979.4	1025.7	1115.7	1246.8	2275.1	4460.2	9650.5	21771.6	26234.3	26751.1	23344.8
42.5°	964.0	1005.2	1090.0	1205.7	2221.1	4347.1	9411.5	22563.3	27553.1	27979.9	23997.8
45°	956.3	1000.0	1092.6	1226.2	2113.1	4198.0	9331.8	23419.4	28638.0	29005.6	24704.8
47.5°	956.3	1007.7	1105.4	1269.9	1984.6	4043.8	9581.1	24547.9	29663.7	29843.7	25537.7
50°	948.6	1005.2	1141.4	1226.2	1796.9	3848.4	10167.3	25969.6	30774.3	30794.8	26591.7
52.5°	933.2	1000.0	1228.8	1200.5	1581.0	3591.3	10959.0	27794.8	32417.0	32540.4	28242.1
55°	915.2	992.3	1205.7	1141.4	1403.6	3285.4	11606.9	30013.3	34725.5	35067.4	30668.9
57.5°	892.0	982.0	1167.1	1059.1	1287.9	2892.1	11840.8	31638.0	36337.3	37196.0	33404.1
60°	871.5	974.3	1054.0	1010.3	1216.0	2560.5	11388.4	31316.7	36226.8	38077.7	35828.3
62.5°	850.9	982.0	961.5	979.4	1182.5	2347.1	10205.8	28743.4	34393.9	37167.7	37625.3
65°	827.8	912.6	907.5	953.7	1174.8	2262.2	8460.3	24884.7	30851.4	34291.0	38049.4
67.5°	796.9	843.2	868.9	920.3	1200.5	2187.7	6827.9	20527.3	25928.4	29979.9	35838.6
70°	763.5	802.1	830.3	879.2	1185.1	2154.3	5678.8	16187.9	20573.6	24571.1	31476.1
72.5°	719.8	753.2	778.9	825.2	1169.7	2136.3	4797.0	13036.2	15360.1	18252.2	25591.7
75°	668.4	699.2	717.2	763.5	1120.8	1956.3	3771.3	11031.0	11493.8	12696.9	20383.4
77.5°	609.3	632.4	647.8	699.2	992.3	1627.3	2727.5	8509.1	8925.6	9218.7	15627.5
80°	539.9	563.0	570.7	619.5	822.6	1272.5	1778.9	6285.4	6676.2	6743.0	10205.8
82.5°	460.2	483.3	483.3	529.6	673.5	915.2	1167.1	4306.0	4383.1	4609.3	7213.5
85°	370.2	388.2	388.2	411.3	521.9	683.8	802.1	2162.0	2138.9	2442.2	6249.5
87.5°	264.8	277.6	290.5	295.6	372.8	452.4	483.3	658.1	434.5	498.7	4012.9
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°	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7	15799.7
2.5°	18149.4	18295.9	18146.8	18038.8	17573.5	17190.5	16678.9	16416.7
5°	19509.3	19882.1	19756.1	19303.6	18331.9	17239.3	15997.7	15437.3
7.5°	19344.8	20211.1	20231.7	19385.9	17954.0	16344.7	14663.5	13866.5
10°	18064.6	19172.5	19488.7	18668.7	17149.4	15349.9	13421.8	12511.8
12.5°	16635.2	17720.1	17961.7	17678.9	16409.0	14601.8	12645.4	11753.4
15°	15465.5	15951.4	16239.3	16486.1	15774.0	14303.6	12601.7	11622.3
17.5°	14753.4	14699.5	14781.7	15211.0	15331.9	14645.5	13270.1	12190.4
20°	14496.4	13671.2	13650.6	14241.9	15123.6	15460.4	14576.1	13280.4
22.5°	14637.8	13301.0	13131.3	13833.1	15234.2	16635.2	16288.2	14810.0
25°	15126.2	13331.8	13195.6	13874.3	15635.2	17887.2	18136.5	16789.5
27.5°	15894.9	13527.2	13347.3	14043.9	16167.4	18938.6	19956.6	18707.2
30°	16624.9	13866.5	13642.9	14378.1	16653.2	19355.1	21072.3	20203.4
32.5°	17511.8	14501.5	14108.2	14992.5	17254.8	20018.3	22067.2	21442.5
35°	18380.8	15406.4	14918.0	15941.1	17925.7	20843.5	23203.5	23026.1
37.5°	19334.5	16589.0	16185.3	17167.4	18843.5	21622.5	24653.3	24882.1
40°	20352.5	18157.1	17678.9	18956.6	20267.7	22599.3	26167.5	26717.6
42.5°	21378.2	19897.5	19326.8	20622.4	21833.3	23563.4	27463.2	28278.1
45°	22553.1	21787.0	21517.1	22918.1	23337.1	24481.1	28419.5	29432.3
47.5°	23920.7	23931.0	24365.4	24925.8	24853.9	25519.7	29380.9	30463.2
50°	25517.1	26607.1	27566.0	27938.7	26416.9	26635.4	30715.1	31843.7
52.5°	27434.9	29807.7	30995.3	30751.1	28100.7	27997.9	32828.3	33746.0
55°	29833.4	33195.9	34375.9	34201.1	30036.5	29853.9	35460.7	35995.4
57.5°	32609.8	36478.7	37563.6	36776.9	32360.4	31890.0	37638.1	37751.2
60°	35049.4	39080.3	40031.5	39160.0	34704.9	34057.1	38998.0	38450.5
62.5°	36406.7	39962.1	40630.5	39692.1	36311.6	36365.6	39296.3	38072.6
65°	35800.1	37733.2	37949.2	37872.1	35897.7	37705.0	38224.3	36327.1
67.5°	32478.7	32098.2	32460.7	32962.0	32350.1	35941.4	35255.1	32524.9
70°	26627.7	24537.7	25260.0	25596.8	25874.4	30928.5	30599.5	26491.4
72.5°	20067.2	17190.5	17761.2	17691.8	18977.2	24807.6	23797.3	19478.5
75°	14218.7	11655.7	11727.7	11699.4	13241.9	19409.0	17231.6	13326.7
77.5°	9948.7	8444.9	8483.4	8642.8	8902.5	14637.8	12311.2	9735.4
80°	6840.7	6408.8	6622.2	6635.1	6169.8	9833.1	9095.3	7812.5
82.5°	5095.2	4455.1	4403.7	4478.2	4835.6	7966.7	6989.8	5419.1
85°	4172.3	2637.6	2120.9	2658.1	4285.4	7889.6	4642.7	2858.7
87.5°	2349.7	1251.9	565.6	1048.9	1709.5	5223.7	1341.9	365.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)