

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: P194289

Luminaire Tested: **GLEON-AF-01-LED-E1-AFL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-AFL-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4213 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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



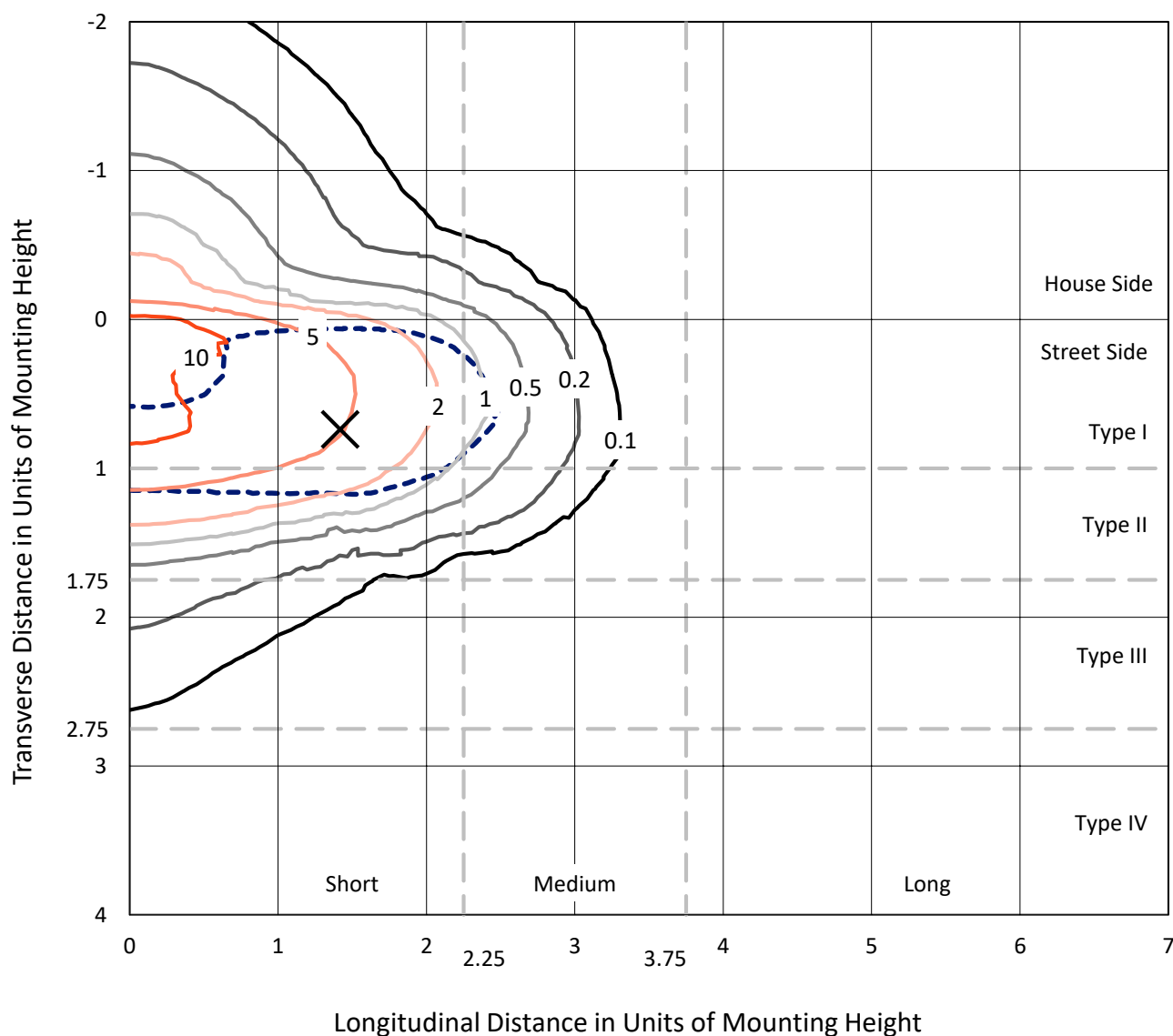
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

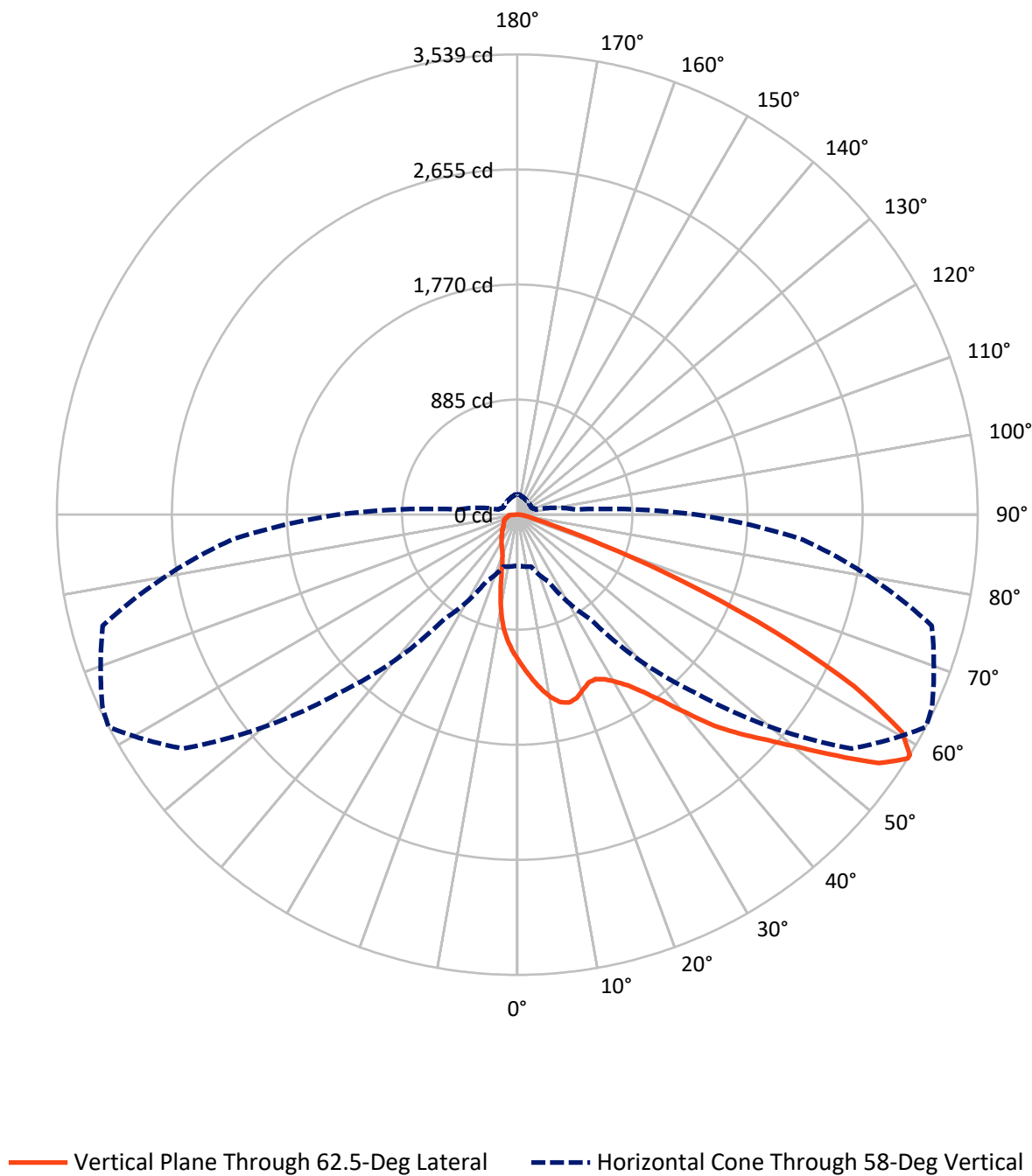


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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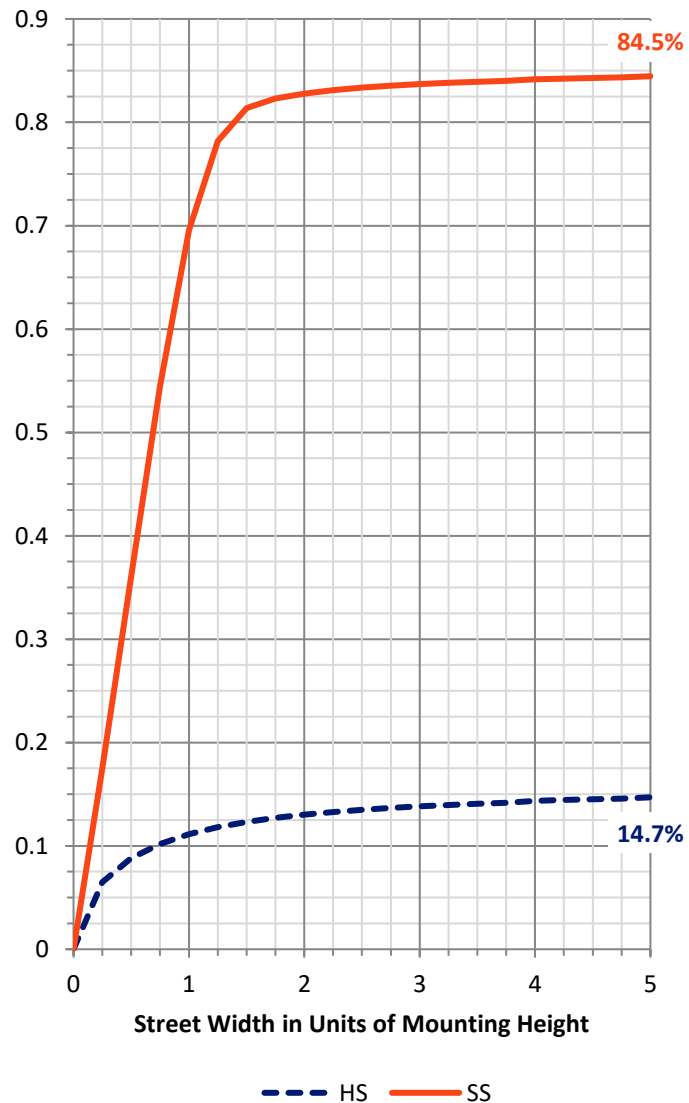
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.5	0.0	642.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	3570.5	0.0	3570.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	4213.0	0.0	4213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	2.4
10°-20°	255.8	6.1
20°-30°	413.6	9.8
30°-40°	656.5	15.6
40°-50°	960.7	22.8
50°-60°	1004.8	23.8
60°-70°	593.6	14.1
70°-80°	167.2	4.0
80°-90°	60.7	1.4
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°	4213.0	100.0
0°-180°	4213.0	100.0

Coefficient of Utilization



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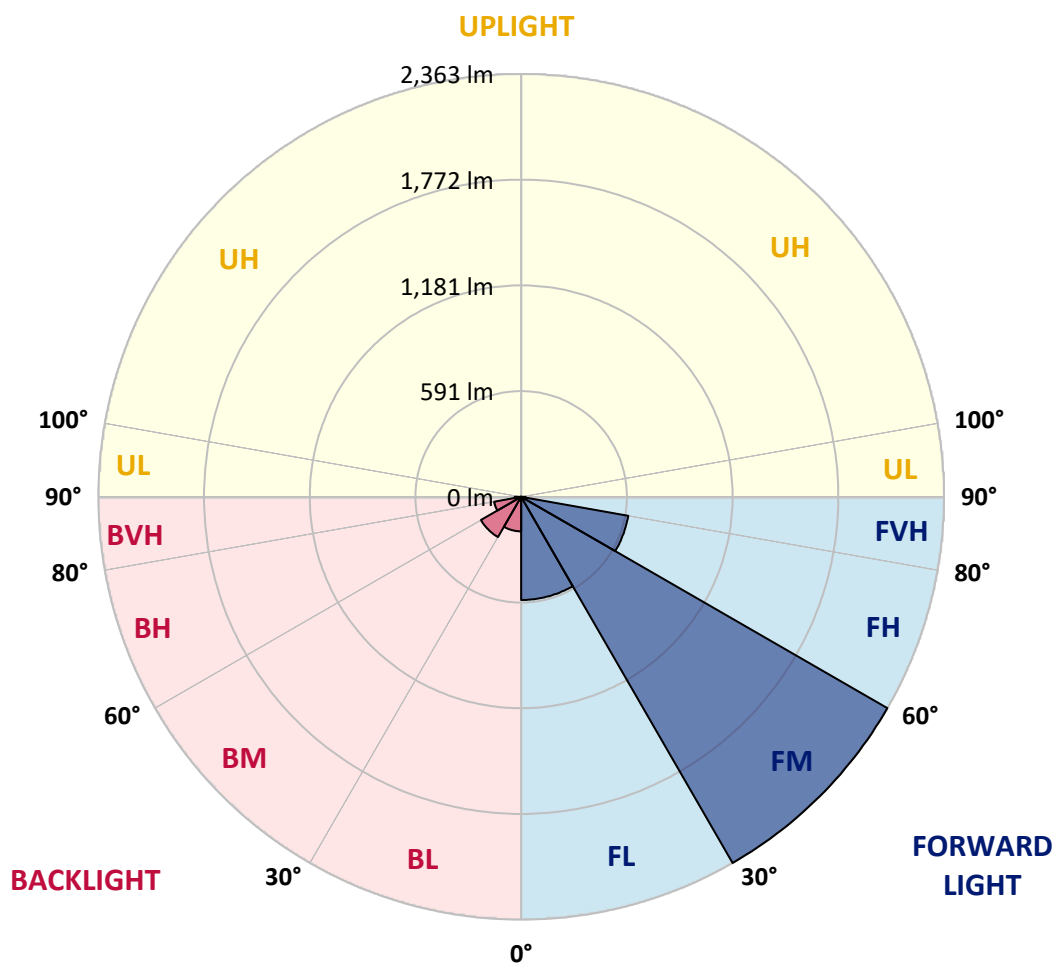
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.4	13.7			
FM	(30°-60°)	2362.6	56.1			
FH	(60°-80°)	607.5	14.4			G0/660
FVH	(80°-90°)	23.9	0.6			G1/100
BL	(0°-30°)	193.1	4.6	B1/500		
BM	(30°-60°)	259.3	6.2	B1/1000		
BH	(60°-80°)	153.3	3.6	B1/500		G1/500
BVH	(80°-90°)	36.8	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1
2.5°	1278.8	1268.5	1261.9	1256.2	1248.6	1232.6	1211.0	1197.3	1190.3	1166.7	1138.7
5°	1404.2	1395.1	1388.3	1380.6	1367.1	1341.9	1307.0	1279.2	1265.5	1218.3	1162.3
7.5°	1374.8	1378.6	1390.3	1410.7	1428.2	1424.8	1393.7	1358.4	1340.3	1274.6	1189.7
10°	1197.9	1204.4	1224.6	1272.5	1349.8	1429.2	1453.4	1429.0	1410.7	1330.4	1217.9
12.5°	1162.3	1162.1	1163.7	1176.4	1222.5	1334.1	1455.4	1480.0	1469.1	1383.5	1246.7
15°	1176.8	1177.2	1176.0	1181.4	1195.7	1239.9	1394.7	1499.6	1507.3	1437.1	1276.4
17.5°	1214.9	1213.9	1209.4	1209.4	1214.5	1231.8	1323.2	1481.4	1517.1	1484.5	1302.6
20°	1278.8	1274.2	1262.1	1251.0	1245.5	1254.8	1293.9	1439.3	1500.2	1526.0	1324.2
22.5°	1356.2	1352.6	1333.0	1309.2	1289.9	1289.7	1309.0	1402.6	1471.0	1565.1	1342.5
25°	1456.2	1450.4	1421.2	1383.1	1349.4	1336.5	1341.9	1400.8	1455.2	1607.5	1358.7
27.5°	1573.6	1563.1	1528.6	1473.6	1424.0	1398.0	1390.3	1433.1	1469.6	1660.1	1381.4
30°	1716.0	1703.9	1659.7	1588.1	1518.1	1475.4	1458.9	1490.5	1517.7	1724.2	1417.7
32.5°	1878.1	1860.7	1809.5	1730.5	1638.5	1573.4	1546.6	1566.3	1587.9	1801.3	1463.1
35°	2102.1	2081.3	2007.3	1898.4	1794.4	1704.9	1662.1	1676.4	1697.4	1916.4	1528.8
37.5°	2254.9	2245.5	2196.3	2094.0	1980.9	1877.9	1811.7	1820.0	1831.9	2060.2	1612.9
40°	2253.5	2257.2	2258.2	2259.2	2182.3	2083.7	2012.4	2003.7	2001.3	2218.2	1708.5
42.5°	2140.6	2156.1	2206.1	2307.4	2354.3	2309.0	2243.8	2218.6	2206.1	2404.2	1809.9
45°	1967.8	1976.1	2069.8	2267.8	2442.3	2532.2	2482.8	2403.5	2380.8	2575.3	1894.0
47.5°	1878.7	1887.8	1946.8	2162.6	2441.3	2712.5	2741.1	2589.9	2549.5	2724.0	1966.6
50°	1666.6	1685.7	1759.9	1979.7	2352.3	2795.5	3011.1	2812.1	2728.4	2868.9	2039.4
52.5°	1277.2	1306.6	1389.7	1678.9	2126.3	2754.4	3227.2	3081.5	2963.3	3018.8	2101.9
55°	805.6	827.5	897.3	1185.8	1701.0	2540.7	3309.1	3373.0	3267.8	3160.9	2156.1
57.5°	438.0	447.8	473.9	654.7	1106.4	2068.4	3189.7	3538.8	3495.2	3281.5	2196.9
58°	392.0	398.6	414.8	567.4	981.2	1939.2	3136.7	3539.4	3517.6	3299.2	2200.1
60°	290.8	287.5	273.0	323.8	546.2	1339.7	2816.5	3397.8	3461.8	3320.8	2184.6
62.5°	255.5	247.4	217.8	214.5	265.6	617.2	2155.1	2910.5	3061.9	3197.4	2090.6
65°	240.0	231.3	193.2	180.9	191.6	261.1	1269.5	2182.8	2372.7	2823.2	1850.2
67.5°	228.5	217.2	177.6	160.7	161.5	172.6	508.9	1374.8	1588.5	2143.6	1439.1
70°	217.4	205.1	164.3	144.8	140.3	136.5	202.4	688.2	882.0	1354.0	917.5
72.5°	205.5	193.4	152.6	132.3	123.4	110.9	132.1	281.5	393.2	640.6	416.2
75°	188.3	177.4	140.9	121.2	108.5	91.9	99.8	147.0	176.4	255.1	200.6
77.5°	167.0	158.1	127.8	112.1	96.2	74.6	76.8	102.0	113.1	146.0	119.2
80°	120.0	123.2	113.7	100.8	85.7	60.5	58.9	74.4	80.3	93.8	77.6
82.5°	84.3	86.1	94.0	82.3	70.8	47.6	43.4	52.4	55.9	61.7	41.9
85°	58.1	56.1	64.5	57.3	51.2	31.7	29.8	35.5	37.7	38.3	21.6
87.5°	34.9	34.9	37.3	30.7	27.6	16.5	16.1	20.2	21.6	20.6	11.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1	1119.1
2.5°	1122.1	1108.0	1078.0	1054.0	1023.7	992.1	974.5	955.6	942.7	933.4	948.3
5°	1130.6	1101.8	1039.9	981.2	916.3	848.9	797.7	750.1	717.0	696.3	715.8
7.5°	1144.1	1099.9	1001.3	900.9	784.4	672.1	571.7	508.9	472.2	454.1	465.4
10°	1159.6	1096.7	955.8	792.0	625.3	483.9	408.9	383.5	375.1	371.8	373.4
12.5°	1172.5	1089.9	900.1	660.2	469.6	382.1	360.5	359.9	361.7	362.1	362.7
15°	1181.6	1080.0	817.4	522.9	375.5	348.2	347.0	350.5	353.9	355.3	356.1
17.5°	1187.7	1059.6	723.9	413.4	336.5	331.7	334.5	339.0	342.6	343.6	344.4
20°	1187.1	1029.6	612.6	344.8	315.2	315.2	320.0	323.6	323.8	322.6	323.2
22.5°	1181.0	988.6	504.7	308.3	296.4	299.8	304.5	301.2	287.3	278.1	278.7
25°	1170.7	939.6	412.2	285.1	278.9	284.9	283.5	258.1	238.3	229.3	229.3
27.5°	1161.6	881.6	341.2	264.8	261.5	268.8	244.2	221.2	212.9	208.7	207.3
30°	1155.0	819.1	293.8	245.4	245.0	239.7	211.9	205.5	204.1	200.8	199.6
32.5°	1156.6	755.9	263.5	228.3	229.7	205.1	196.4	197.8	196.6	193.0	191.4
35°	1169.7	695.7	243.6	212.9	208.7	185.3	187.3	189.9	189.5	184.5	182.9
37.5°	1193.1	638.8	230.5	200.0	182.1	175.4	178.5	182.5	181.5	178.2	177.0
40°	1217.7	585.2	219.8	189.9	166.4	168.6	171.4	173.6	174.6	175.6	174.8
42.5°	1241.7	529.3	206.7	179.5	159.9	162.3	163.5	165.7	171.0	174.8	174.6
45°	1256.0	476.7	193.2	164.9	154.7	156.1	155.3	159.7	166.2	172.4	172.6
47.5°	1271.9	435.9	182.5	151.4	149.8	150.8	148.4	152.8	158.7	166.2	167.0
50°	1291.1	411.5	174.0	140.7	143.0	143.0	142.4	146.4	154.7	163.5	165.1
52.5°	1312.9	406.7	166.8	132.9	136.3	136.1	136.7	142.6	151.8	160.3	161.7
55°	1339.5	419.6	159.1	127.2	129.7	130.5	132.5	139.3	147.0	156.7	157.3
57.5°	1370.5	445.8	153.0	122.6	123.8	126.4	129.5	135.7	144.0	154.7	155.3
58°	1375.6	451.3	152.0	122.2	122.6	125.6	129.1	135.1	143.4	155.1	155.7
60°	1375.8	469.8	149.8	120.4	118.0	123.0	127.0	132.9	142.4	156.5	157.9
62.5°	1327.0	469.6	148.2	117.8	113.3	119.4	124.0	130.9	141.4	159.9	162.7
65°	1168.5	426.7	140.7	113.9	109.5	116.3	121.4	129.5	144.2	174.6	176.4
67.5°	914.0	349.8	126.6	108.3	104.5	113.1	119.8	129.3	147.2	178.0	179.1
70°	604.3	261.7	111.1	102.0	99.4	109.3	120.6	136.1	143.8	170.8	167.6
72.5°	313.6	183.7	98.6	94.0	93.4	105.9	132.1	135.3	140.5	160.7	156.7
75°	164.7	127.6	87.7	85.3	86.3	105.1	155.9	131.7	136.1	153.7	161.3
77.5°	100.8	103.0	78.4	77.4	79.4	102.8	155.7	127.2	129.7	141.4	149.8
80°	67.5	83.5	71.2	71.4	72.8	94.0	139.9	120.0	122.0	133.7	142.2
82.5°	42.7	49.4	64.7	68.0	66.3	77.6	118.8	109.3	112.1	153.0	161.7
85°	21.6	30.9	56.1	65.5	59.7	54.4	96.4	95.8	97.2	110.3	115.3
87.5°	9.9	17.1	43.8	57.1	45.0	33.9	70.0	71.0	76.6	78.4	78.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)