

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: P192980

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9043.4 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

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

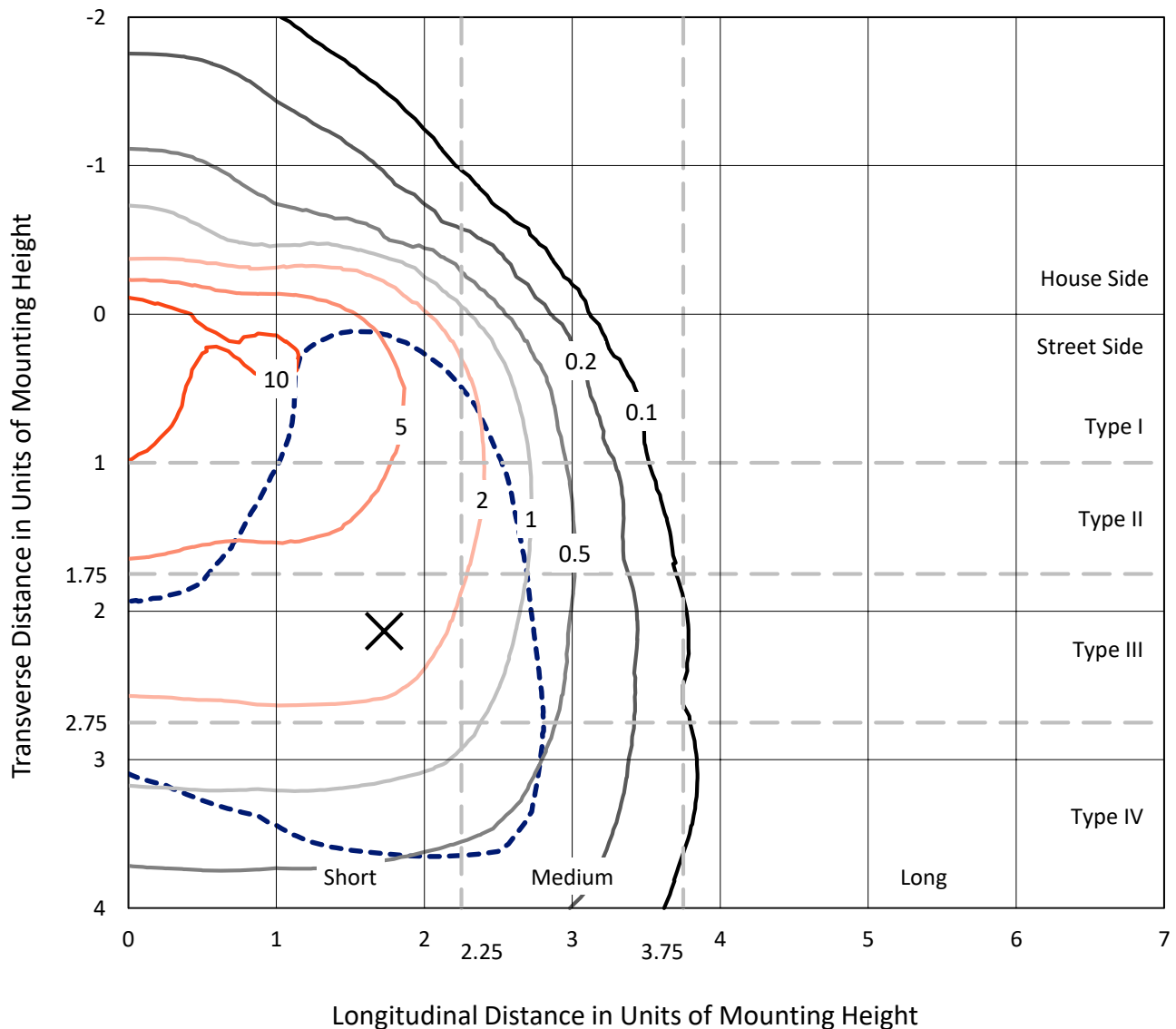


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

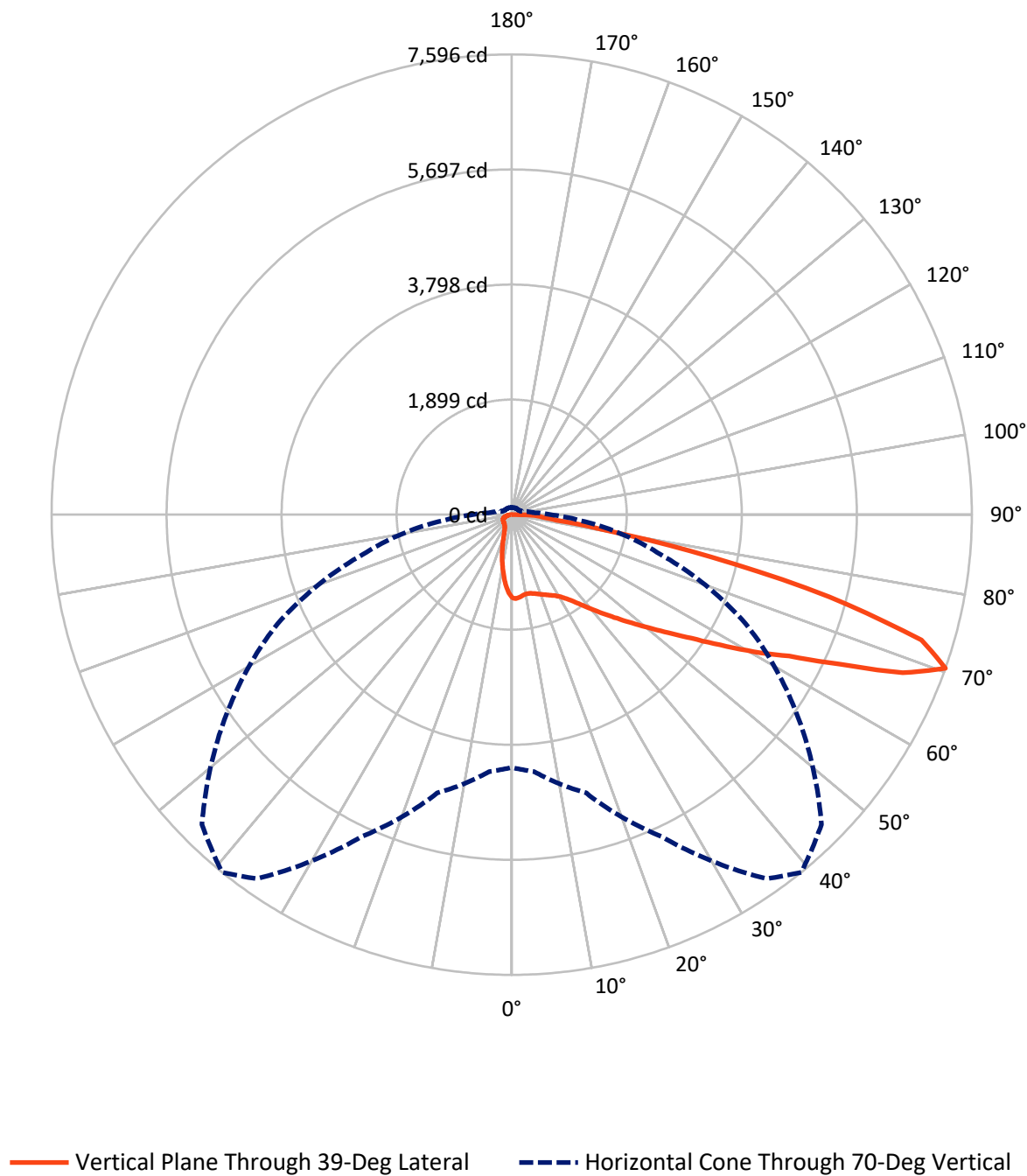


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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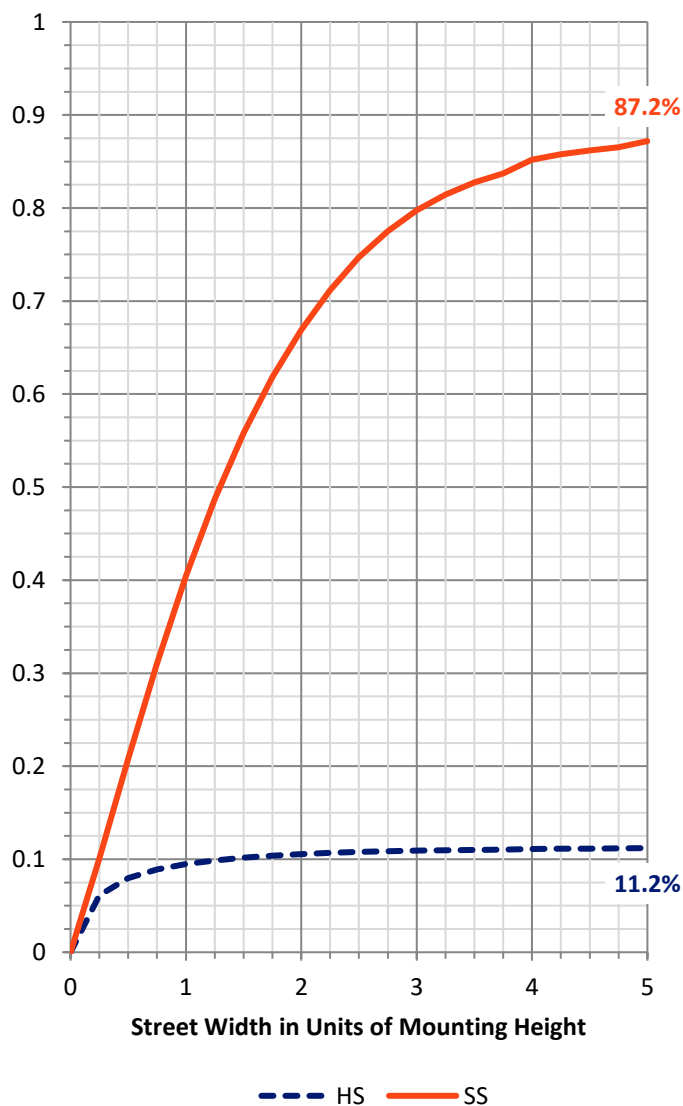
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.5	0.0	1028.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	8014.9	0.0	8014.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	9043.4	0.0	9043.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.3
10°-20°	294.5	3.3
20°-30°	458.6	5.1
30°-40°	714.4	7.9
40°-50°	1199.3	13.3
50°-60°	1905.2	21.1
60°-70°	2541.3	28.1
70°-80°	1534.6	17.0
80°-90°	277.8	3.1
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°	9043.4	100.0
0°-180°	9043.4	100.0

Coefficient of Utilization



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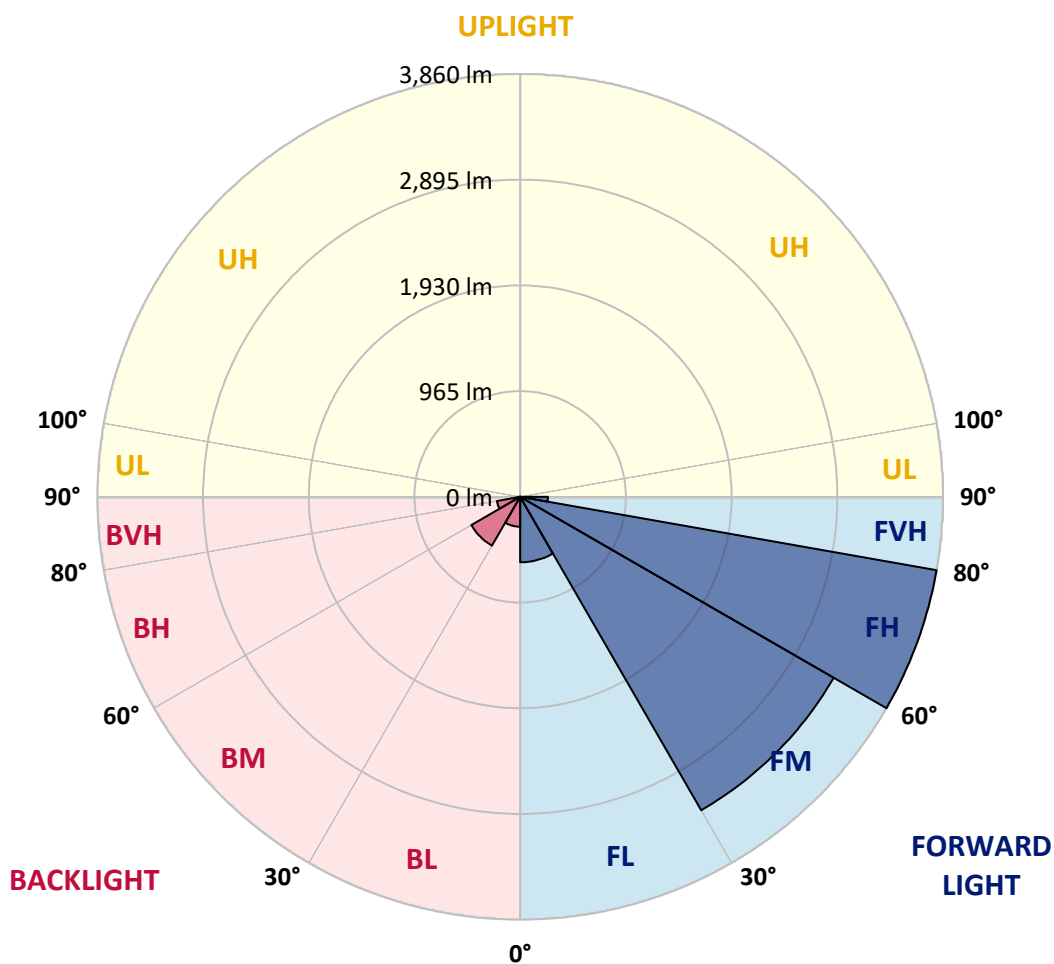
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	598.0	6.6			
FM	(30°-60°)	3304.1	36.5			
FH	(60°-80°)	3860.0	42.7			G2/5000
FVH	(80°-90°)	252.7	2.8			G3/500
BL	(0°-30°)	272.9	3.0	B1/500		
BM	(30°-60°)	514.7	5.7	B1/1000		
BH	(60°-80°)	215.9	2.4	B1/500		G1/500
BVH	(80°-90°)	25.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0
2.5°	1399.6	1399.2	1395.5	1392.7	1390.5	1389.4	1391.3	1384.5	1378.5	1371.1	1363.2
5°	1389.0	1388.5	1382.5	1377.1	1371.5	1369.7	1369.2	1356.8	1349.5	1338.4	1323.6
7.5°	1377.5	1375.2	1367.4	1358.2	1348.6	1344.0	1339.4	1323.2	1315.1	1304.0	1287.0
10°	1365.5	1362.8	1355.5	1346.3	1337.2	1330.1	1322.4	1306.7	1298.0	1289.7	1269.9
12.5°	1353.1	1350.9	1349.1	1344.9	1338.4	1332.4	1326.5	1313.2	1304.0	1294.2	1271.3
15°	1351.3	1350.5	1354.5	1357.3	1353.6	1349.9	1343.5	1332.0	1322.4	1312.6	1282.8
17.5°	1366.1	1365.5	1376.1	1383.5	1381.7	1375.2	1366.5	1353.6	1345.7	1337.6	1300.3
20°	1398.2	1400.4	1413.4	1423.0	1413.9	1404.6	1390.5	1372.6	1368.4	1364.6	1318.2
22.5°	1458.9	1461.3	1470.4	1474.1	1450.2	1436.9	1417.1	1394.0	1391.3	1394.0	1339.8
25°	1553.6	1551.4	1550.0	1536.1	1492.5	1471.8	1446.5	1422.5	1423.9	1436.4	1370.2
27.5°	1679.1	1666.7	1647.4	1606.0	1536.6	1513.6	1482.8	1460.8	1469.4	1493.3	1415.7
30°	1809.3	1795.4	1750.9	1683.2	1594.5	1569.3	1534.8	1510.0	1532.9	1570.6	1476.4
32.5°	1929.7	1927.9	1862.7	1775.7	1674.5	1652.4	1618.0	1589.9	1627.2	1684.7	1567.5
35°	2061.1	2065.3	1987.2	1882.9	1782.6	1759.6	1734.8	1713.6	1763.3	1842.3	1699.4
37.5°	2201.9	2210.2	2117.8	2000.1	1905.8	1896.2	1881.5	1872.2	1949.0	2058.5	1883.7
40°	2389.9	2381.8	2253.5	2132.5	2057.2	2056.6	2052.0	2063.1	2190.8	2340.8	2120.5
42.5°	2591.4	2567.0	2397.3	2274.6	2223.1	2238.7	2247.9	2293.0	2482.0	2683.7	2409.2
45°	2808.4	2753.7	2546.8	2424.9	2407.4	2440.6	2471.8	2569.8	2824.5	3074.1	2725.6
47.5°	2981.6	2928.8	2701.2	2582.7	2620.8	2671.0	2731.2	2886.1	3208.0	3477.4	3037.9
50°	3118.3	3083.9	2857.1	2766.6	2855.7	2932.9	3031.4	3244.2	3607.0	3870.1	3327.1
52.5°	3250.7	3225.0	3014.4	2955.0	3131.6	3238.3	3372.1	3628.6	4016.3	4256.3	3570.3
55°	3370.2	3351.8	3183.6	3190.1	3456.2	3595.0	3763.3	4066.4	4462.2	4600.7	3776.2
57.5°	3504.9	3481.5	3376.6	3484.8	3873.2	4053.5	4272.4	4558.3	4880.6	4906.9	3933.0
60°	3640.6	3620.5	3591.0	3824.9	4402.9	4592.3	4799.8	5035.1	5305.1	5144.6	3923.8
62.5°	3758.3	3760.6	3812.6	4182.2	4921.6	5140.8	5393.8	5626.5	5688.9	5186.0	3633.8
65°	3957.8	3994.2	4149.1	4688.0	5651.8	5945.1	6255.4	6218.2	5795.2	4799.2	3011.6
67.5°	4195.1	4259.0	4573.0	5362.0	6574.4	6963.9	7084.0	6352.0	5369.9	3901.3	2146.7
70°	4171.2	4259.0	4756.0	5864.6	7335.0	7596.1	7232.0	5748.6	4264.1	2548.6	1140.2
72.5°	3704.0	3829.5	4383.2	5634.3	7095.4	7072.5	6278.4	4285.7	2533.4	1023.5	445.6
75°	2823.2	2950.0	3426.4	4451.2	5608.1	5414.9	4454.9	2367.4	961.4	406.5	280.9
77.5°	1623.9	1722.4	2090.2	2729.8	3557.8	3359.7	2479.6	1052.9	468.0	283.2	219.3
80°	906.8	961.4	1184.9	1384.9	1743.6	1598.3	1109.4	654.3	349.4	205.5	169.3
82.5°	716.8	765.6	958.2	873.6	796.4	734.8	637.3	582.6	279.0	129.7	101.2
85°	626.3	672.7	811.0	687.9	543.9	498.9	517.7	573.4	217.0	78.1	86.5
87.5°	580.2	642.3	722.8	530.1	423.5	375.2	477.7	628.6	69.9	48.7	35.0
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°	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0	1373.0
2.5°	1356.4	1349.1	1337.2	1326.5	1309.9	1301.2	1291.6	1284.7	1279.1	1274.5	1281.9
5°	1314.5	1300.7	1275.5	1248.3	1216.2	1190.8	1169.7	1150.0	1136.2	1126.9	1133.3
7.5°	1274.9	1252.4	1212.9	1163.7	1108.6	1061.7	1023.0	989.1	965.6	950.3	956.3
10°	1252.4	1224.5	1163.3	1086.0	1004.6	931.6	870.8	818.5	782.1	761.4	764.6
12.5°	1246.9	1210.6	1126.0	1019.8	908.5	806.9	721.4	648.8	597.7	571.1	572.0
15°	1251.1	1204.7	1091.1	956.3	815.6	687.4	580.7	492.4	433.1	402.7	402.3
17.5°	1258.0	1200.0	1054.3	887.8	721.4	572.4	453.3	366.9	314.4	290.1	288.3
20°	1265.3	1192.7	1013.0	813.9	623.5	465.8	355.0	287.4	254.2	240.9	240.1
22.5°	1275.9	1186.2	970.1	735.7	527.4	379.3	291.9	246.5	229.0	222.2	221.1
25°	1293.0	1183.1	924.7	654.3	441.0	317.3	254.2	226.1	216.2	211.5	211.1
27.5°	1321.4	1187.6	881.8	575.1	370.6	275.5	233.2	216.2	208.8	204.7	204.1
30°	1358.2	1201.9	836.8	500.3	315.9	246.9	220.2	209.2	203.2	199.1	199.1
32.5°	1419.4	1225.8	789.5	435.4	276.8	227.2	210.6	203.2	198.2	194.9	194.5
35°	1509.5	1270.9	745.3	381.7	248.8	212.8	202.3	196.7	193.1	191.3	191.3
37.5°	1640.5	1342.1	706.3	343.0	231.7	203.2	194.5	190.3	188.0	188.0	188.0
40°	1816.7	1440.5	674.4	317.3	222.2	196.3	188.5	185.3	183.9	184.3	184.3
42.5°	2034.1	1568.3	653.4	299.4	217.4	192.2	184.3	181.6	180.3	179.7	180.3
45°	2281.9	1713.6	651.0	286.0	212.8	189.4	181.6	178.8	176.1	174.3	174.3
47.5°	2522.9	1861.2	669.9	281.4	207.8	186.2	179.3	176.6	172.4	168.3	168.3
50°	2735.8	1986.8	695.2	283.2	206.0	181.6	175.7	174.3	167.8	163.3	162.8
52.5°	2904.9	2083.2	715.8	288.8	207.8	178.4	171.0	171.5	164.7	159.5	159.1
55°	3040.5	2146.7	710.4	294.2	212.0	176.6	166.9	167.8	162.4	157.3	157.3
57.5°	3099.9	2123.4	649.2	289.6	215.1	177.0	163.7	167.3	162.8	158.2	158.2
60°	2972.5	1915.0	534.8	269.5	211.1	175.7	162.4	169.3	168.7	164.1	163.7
62.5°	2587.3	1542.0	414.7	239.5	196.7	168.7	158.7	168.7	173.8	172.4	172.0
65°	1994.1	1098.4	316.8	207.4	177.4	157.3	148.9	158.2	165.1	166.9	166.4
67.5°	1294.2	673.1	244.2	177.0	155.9	143.9	136.6	140.7	142.0	142.0	141.2
70°	636.3	362.3	194.5	148.9	133.9	129.7	125.5	123.3	121.0	119.1	119.1
72.5°	314.0	236.8	159.9	125.9	115.4	113.5	112.6	110.0	108.0	105.8	104.8
75°	232.1	192.7	136.1	106.2	99.3	97.5	99.3	97.0	96.5	94.7	93.8
77.5°	190.7	164.1	117.2	91.0	85.1	81.8	84.5	85.1	85.5	82.7	81.8
80°	154.9	138.9	97.9	75.4	69.9	67.6	69.4	73.1	74.1	69.9	68.1
82.5°	111.8	113.5	79.1	58.9	54.3	52.5	56.0	60.6	61.6	55.6	54.3
85°	93.8	94.7	60.6	41.8	37.2	34.5	40.4	45.1	48.3	42.3	41.0
87.5°	39.2	55.6	35.0	23.5	20.6	17.9	21.7	23.9	29.0	26.7	26.2
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)