

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: P194580

Luminaire Tested: **GLEON-AF-02-LED-E1-SL4-7060-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194580
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-SL4-7060-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 9350 lumens
Efficiency: N/A
Efficacy: 110.0 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

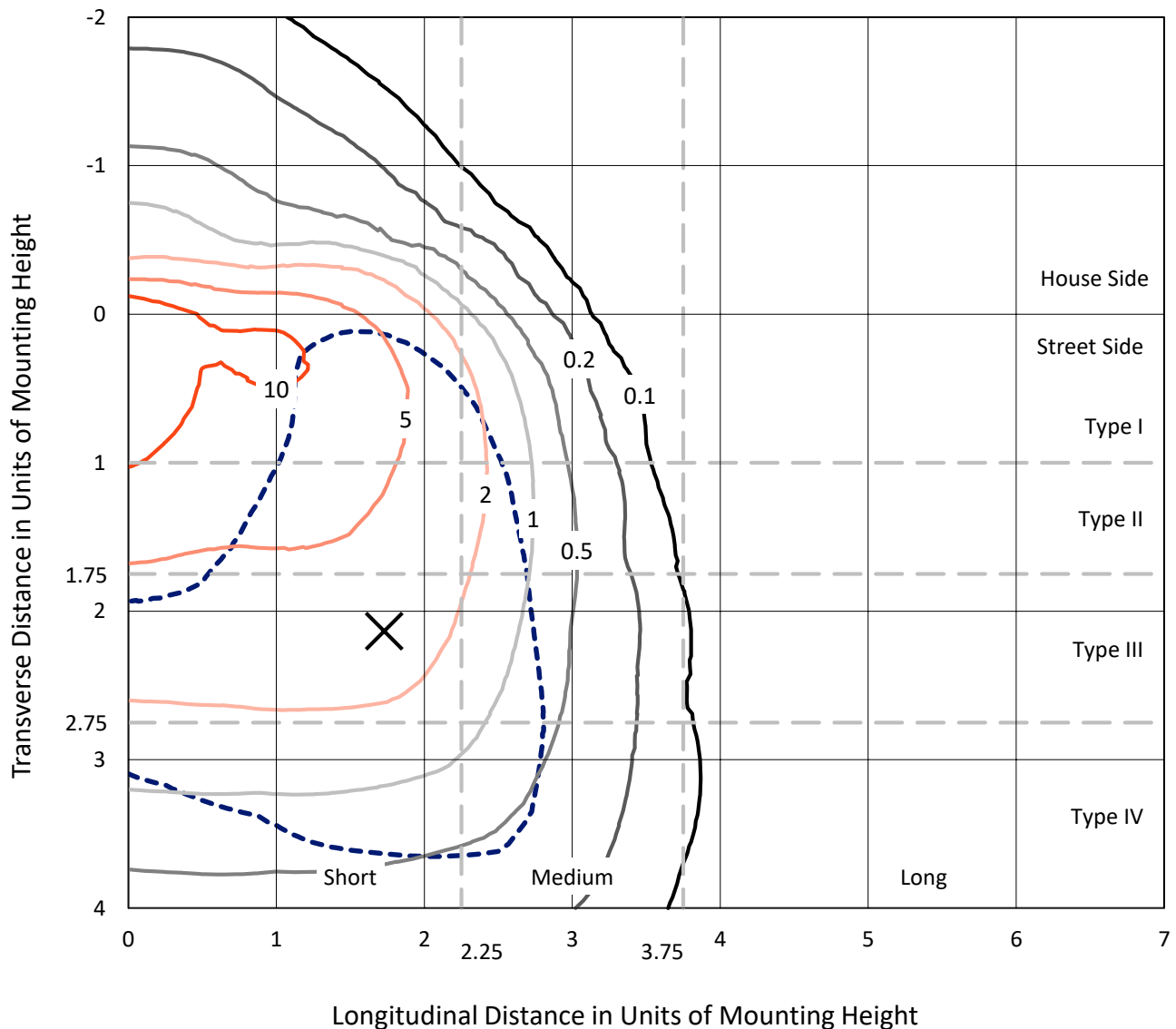


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

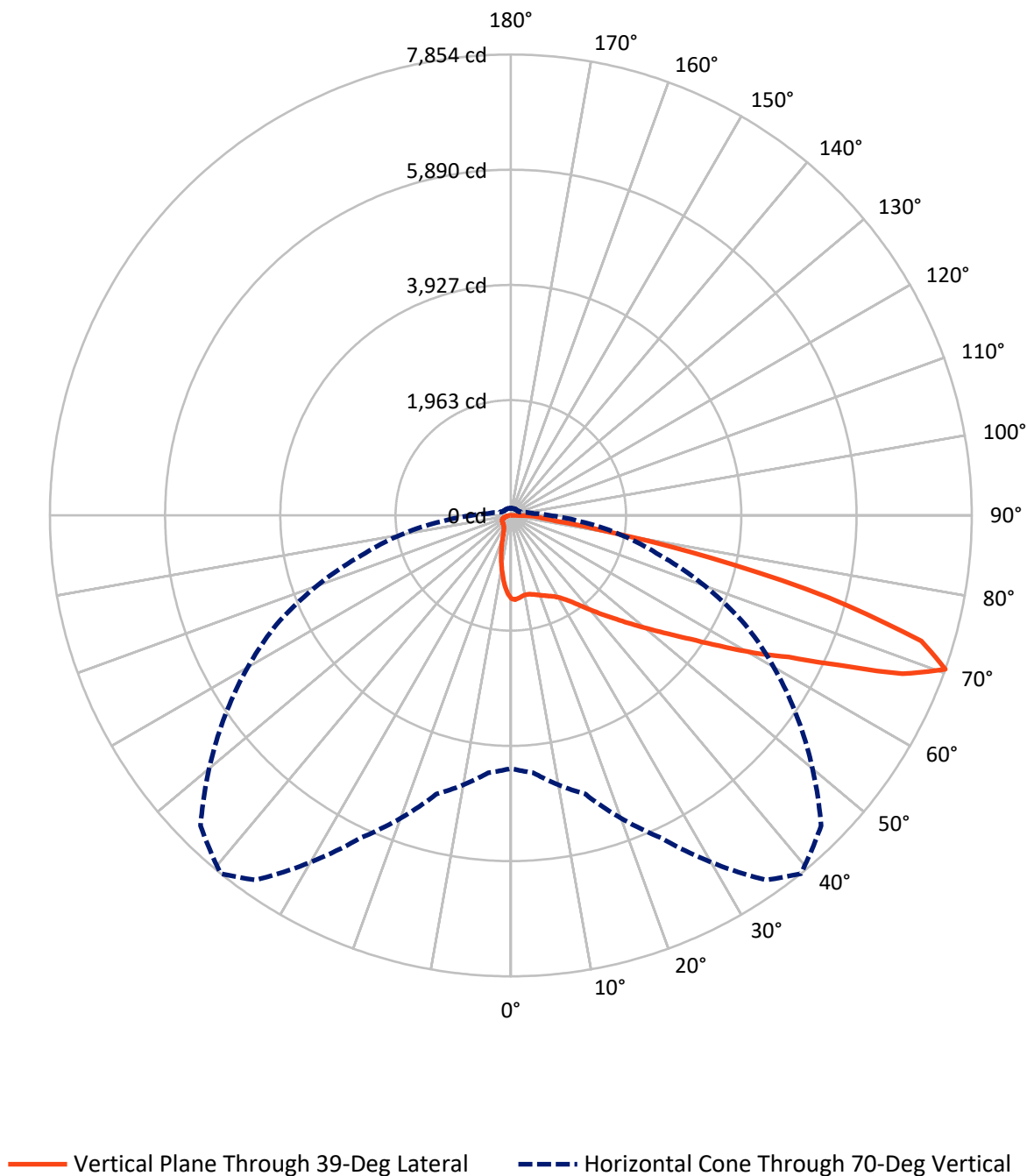


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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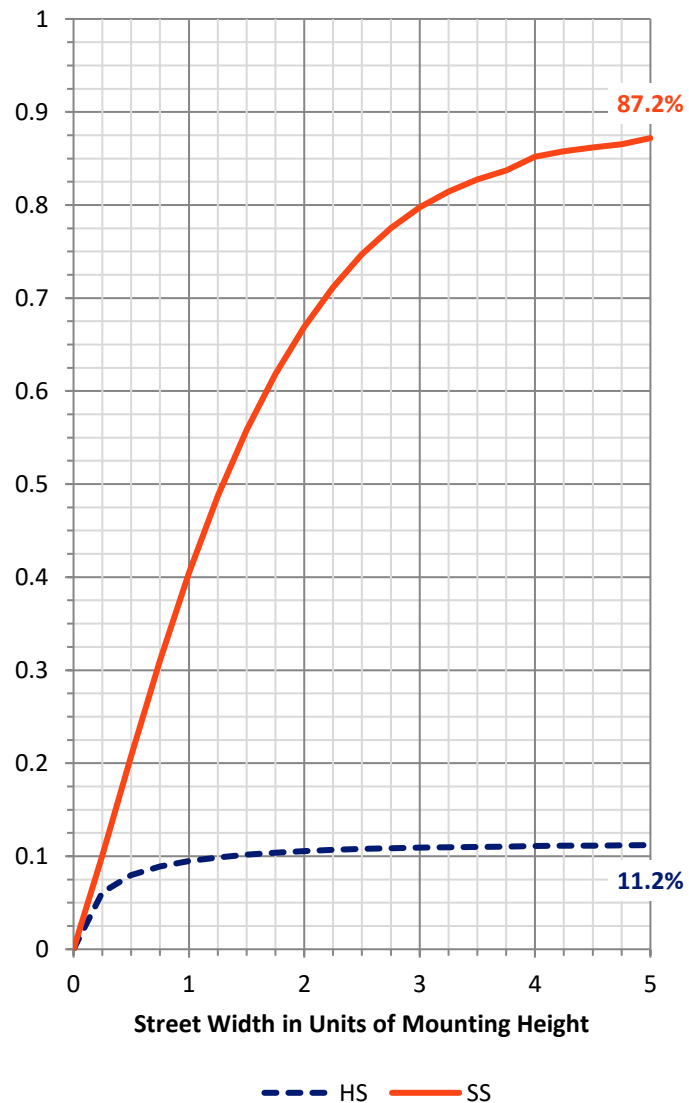
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1063.4	0.0	1063.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	8286.6	0.0	8286.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	9350.0	0.0	9350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	1.3
10°-20°	304.5	3.3
20°-30°	474.1	5.1
30°-40°	738.6	7.9
40°-50°	1240.0	13.3
50°-60°	1969.8	21.1
60°-70°	2627.5	28.1
70°-80°	1586.6	17.0
80°-90°	287.2	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°	9350.0	100.0
0°-180°	9350.0	100.0

Coefficient of Utilization



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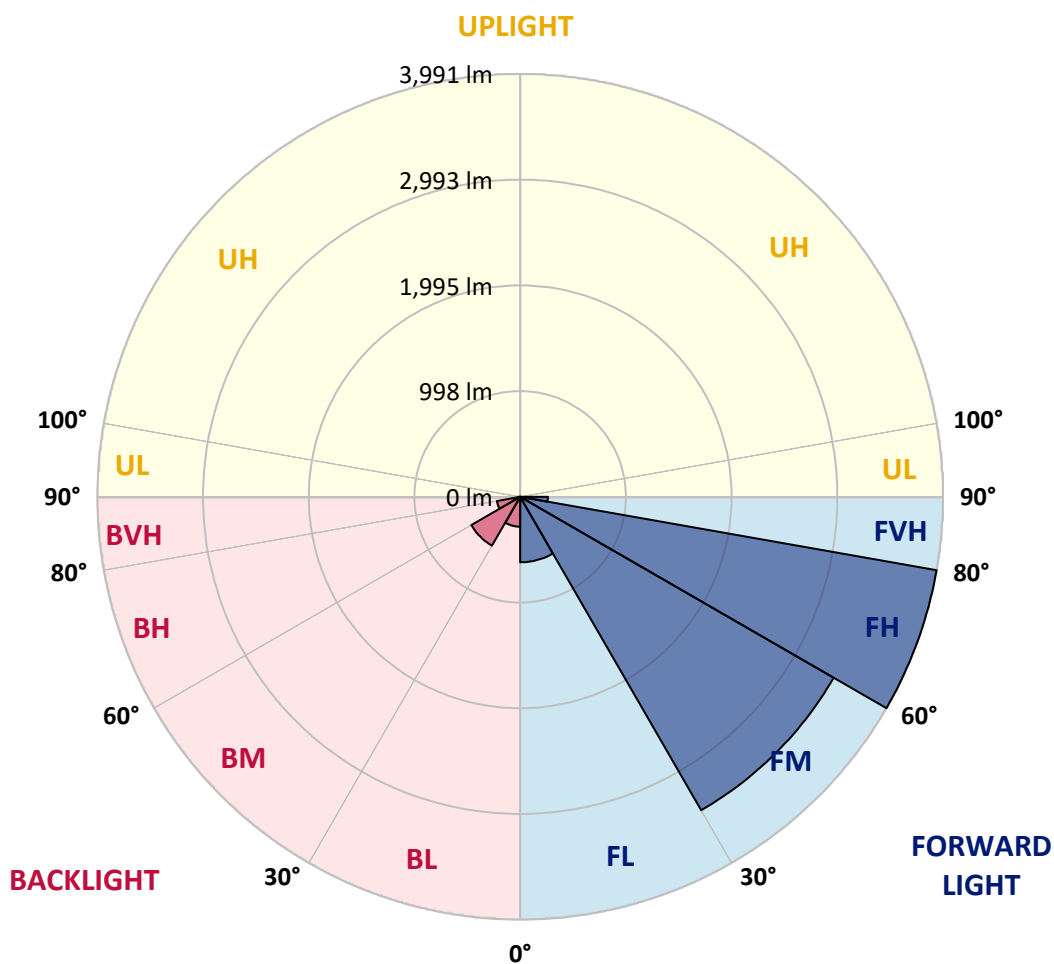
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.3	6.6			
FM	(30°-60°)	3416.1	36.5			
FH	(60°-80°)	3990.8	42.7			G2/5000
FVH	(80°-90°)	261.3	2.8			G3/500
BL	(0°-30°)	282.1	3.0	B1/500		
BM	(30°-60°)	532.2	5.7	B1/1000		
BH	(60°-80°)	223.3	2.4	B1/500		G1/500
BVH	(80°-90°)	25.9	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°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1447.0	1446.6	1442.8	1439.9	1437.5	1436.6	1438.5	1431.4	1425.2	1417.6	1409.5
5°	1436.1	1435.6	1429.5	1423.8	1418.0	1416.1	1415.7	1402.8	1395.2	1383.8	1368.6
7.5°	1424.2	1421.9	1413.8	1404.3	1394.3	1389.5	1384.8	1368.1	1359.6	1348.2	1330.6
10°	1411.9	1409.0	1401.4	1391.9	1382.4	1375.3	1367.2	1351.0	1342.0	1333.4	1313.0
12.5°	1399.0	1396.7	1394.8	1390.5	1383.8	1377.6	1371.5	1357.7	1348.2	1338.2	1314.4
15°	1397.1	1396.2	1400.5	1403.3	1399.5	1395.7	1389.1	1377.2	1367.2	1357.2	1326.3
17.5°	1412.3	1411.9	1422.8	1430.4	1428.5	1421.9	1412.8	1399.5	1391.4	1382.9	1344.4
20°	1445.6	1448.0	1461.3	1471.3	1461.8	1452.3	1437.5	1419.0	1414.7	1410.9	1362.9
22.5°	1508.4	1510.7	1520.3	1524.1	1499.3	1485.6	1465.1	1441.3	1438.5	1441.3	1385.2
25°	1606.3	1603.9	1602.5	1588.2	1543.1	1521.7	1495.5	1470.8	1472.2	1485.1	1416.6
27.5°	1736.1	1723.2	1703.3	1660.5	1588.7	1564.9	1533.1	1510.3	1519.3	1544.0	1463.7
30°	1870.6	1856.3	1810.2	1740.4	1648.6	1622.5	1586.8	1561.1	1584.9	1623.9	1526.4
32.5°	1995.2	1993.3	1925.8	1835.9	1731.3	1708.5	1672.9	1643.9	1682.4	1741.8	1620.6
35°	2131.1	2135.4	2054.6	1946.7	1843.0	1819.3	1793.6	1771.7	1823.1	1904.8	1757.0
37.5°	2276.6	2285.1	2189.6	2067.9	1970.4	1960.5	1945.2	1935.7	2015.1	2128.3	1947.6
40°	2471.0	2462.5	2329.8	2204.8	2126.8	2126.4	2121.6	2133.0	2265.2	2420.1	2192.4
42.5°	2679.2	2654.0	2478.6	2351.7	2298.4	2314.6	2324.1	2370.7	2566.1	2774.8	2491.0
45°	2903.6	2847.0	2633.1	2507.1	2489.1	2523.3	2555.6	2656.9	2920.2	3178.4	2818.0
47.5°	3082.8	3028.1	2792.8	2670.2	2709.6	2761.5	2823.7	2983.9	3316.7	3595.3	3140.8
50°	3224.0	3188.4	2954.0	2860.3	2952.6	3032.4	3134.2	3354.3	3729.3	4001.2	3439.8
52.5°	3360.9	3334.3	3116.6	3055.2	3237.8	3348.1	3486.4	3751.7	4152.4	4400.6	3691.3
55°	3484.5	3465.5	3291.5	3298.2	3573.4	3717.0	3891.0	4204.2	4613.5	4756.6	3904.3
57.5°	3623.8	3599.6	3491.2	3602.9	4004.6	4190.9	4417.2	4712.9	5046.1	5073.2	4066.4
60°	3764.0	3743.1	3712.7	3954.7	4552.2	4748.1	4962.5	5205.9	5484.9	5319.0	4056.9
62.5°	3885.7	3888.1	3941.8	4324.0	5088.4	5315.2	5576.6	5817.2	5881.8	5361.8	3756.9
65°	4092.0	4129.6	4289.8	4846.9	5843.3	6146.6	6467.5	6429.0	5991.6	4962.0	3113.7
67.5°	4337.3	4403.4	4728.1	5543.8	6797.4	7200.1	7324.1	6567.3	5551.9	4033.6	2219.5
70°	4312.6	4403.4	4917.3	6063.4	7583.7	7853.7	7477.2	5943.6	4408.6	2635.0	1178.9
72.5°	3829.6	3959.4	4531.8	5825.3	7336.0	7312.2	6491.3	4431.0	2619.3	1058.2	460.6
75°	2918.8	3050.0	3542.5	4602.1	5798.2	5598.5	4605.9	2447.7	994.0	420.2	290.5
77.5°	1679.0	1780.8	2161.1	2822.3	3678.5	3473.6	2563.7	1088.6	483.9	292.8	226.8
80°	937.4	994.0	1225.0	1431.8	1802.6	1652.4	1147.1	676.5	361.3	212.5	174.9
82.5°	741.1	791.5	990.7	903.2	823.4	759.7	658.9	602.3	288.6	134.1	104.6
85°	647.5	695.5	838.6	711.2	562.4	515.8	535.3	592.8	224.4	80.8	89.4
87.5°	599.9	664.1	747.3	548.1	437.8	387.9	493.9	649.8	72.3	50.4	36.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1402.4	1394.8	1382.4	1371.5	1354.3	1345.3	1335.3	1328.2	1322.5	1317.7	1325.4
5°	1359.1	1344.8	1318.7	1290.6	1257.4	1231.2	1209.4	1188.9	1174.7	1165.1	1171.8
7.5°	1318.2	1294.9	1254.0	1203.2	1146.1	1097.6	1057.7	1022.5	998.3	982.6	988.8
10°	1294.9	1265.9	1202.7	1122.8	1038.7	963.1	900.4	846.2	808.6	787.2	790.6
12.5°	1289.2	1251.7	1164.2	1054.4	939.3	834.3	745.9	670.8	618.0	590.4	591.4
15°	1293.5	1245.5	1128.1	988.8	843.3	710.7	600.4	509.1	447.8	416.4	416.0
17.5°	1300.6	1240.7	1090.0	918.0	745.9	591.8	468.7	379.4	325.2	300.0	298.1
20°	1308.2	1233.1	1047.3	841.4	644.6	481.6	367.0	297.1	262.9	249.1	248.1
22.5°	1319.2	1226.5	1003.0	760.6	545.3	392.2	301.9	254.8	236.7	229.6	228.7
25°	1336.8	1223.1	956.0	676.5	455.9	328.0	262.9	233.9	223.4	218.7	218.2
27.5°	1366.2	1227.9	911.8	594.7	383.2	284.8	241.0	223.4	215.8	211.5	211.1
30°	1404.3	1242.6	865.2	517.2	326.6	255.3	227.7	216.3	210.1	205.8	205.8
32.5°	1467.5	1267.4	816.2	450.2	286.2	234.8	217.7	210.1	204.9	201.6	201.1
35°	1560.7	1313.9	770.6	394.6	257.2	220.1	209.2	203.5	199.7	197.8	197.8
37.5°	1696.1	1387.6	730.2	354.6	239.6	210.1	201.1	196.8	194.4	194.4	194.4
40°	1878.2	1489.4	697.4	328.0	229.6	203.0	194.9	191.6	190.2	190.6	190.6
42.5°	2103.1	1621.5	675.5	309.5	224.9	198.7	190.6	187.8	186.3	185.9	186.3
45°	2359.3	1771.7	673.1	295.7	220.1	195.9	187.8	184.9	182.1	180.2	180.2
47.5°	2608.4	1924.3	692.6	290.9	214.9	192.5	185.4	182.5	178.3	174.0	174.0
50°	2828.5	2054.1	718.8	292.8	213.0	187.8	181.6	180.2	173.5	168.8	168.3
52.5°	3003.4	2153.9	740.2	298.5	214.9	184.4	176.8	177.3	170.2	165.0	164.5
55°	3143.7	2219.5	734.5	304.2	219.1	182.5	172.6	173.5	167.8	162.6	162.6
57.5°	3205.0	2195.3	671.2	299.5	222.5	183.0	169.2	173.0	168.3	163.5	163.5
60°	3073.3	1979.9	552.9	278.6	218.2	181.6	167.8	174.9	174.5	169.7	169.2
62.5°	2674.9	1594.4	428.8	247.7	203.5	174.5	164.0	174.5	179.7	178.3	177.8
65°	2061.7	1135.7	327.5	214.4	183.5	162.6	154.0	163.5	170.7	172.6	172.1
67.5°	1338.2	696.0	252.4	183.0	161.2	148.8	141.2	145.5	146.9	146.9	145.9
70°	657.9	374.6	201.1	154.0	138.3	134.1	129.8	127.4	125.0	123.1	123.1
72.5°	324.7	244.8	165.4	130.3	119.3	117.4	116.5	113.6	111.7	109.3	108.4
75°	240.1	199.2	140.7	109.8	102.7	100.8	102.7	100.3	99.8	97.9	97.0
77.5°	197.3	169.7	121.2	94.1	87.9	84.6	87.5	87.9	88.4	85.6	84.6
80°	160.2	143.6	101.3	78.0	72.3	69.9	71.8	75.6	76.5	72.3	70.4
82.5°	115.5	117.4	81.8	60.8	56.1	54.2	58.0	62.7	63.7	57.5	56.1
85°	97.0	97.9	62.7	43.3	38.5	35.7	41.8	46.6	49.9	43.7	42.3
87.5°	40.4	57.5	36.1	24.2	21.4	18.5	22.3	24.7	29.9	27.6	27.1
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)