

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: P451069

Luminaire Tested: **GALN-SA1D-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6165 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 65
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: 24 FT



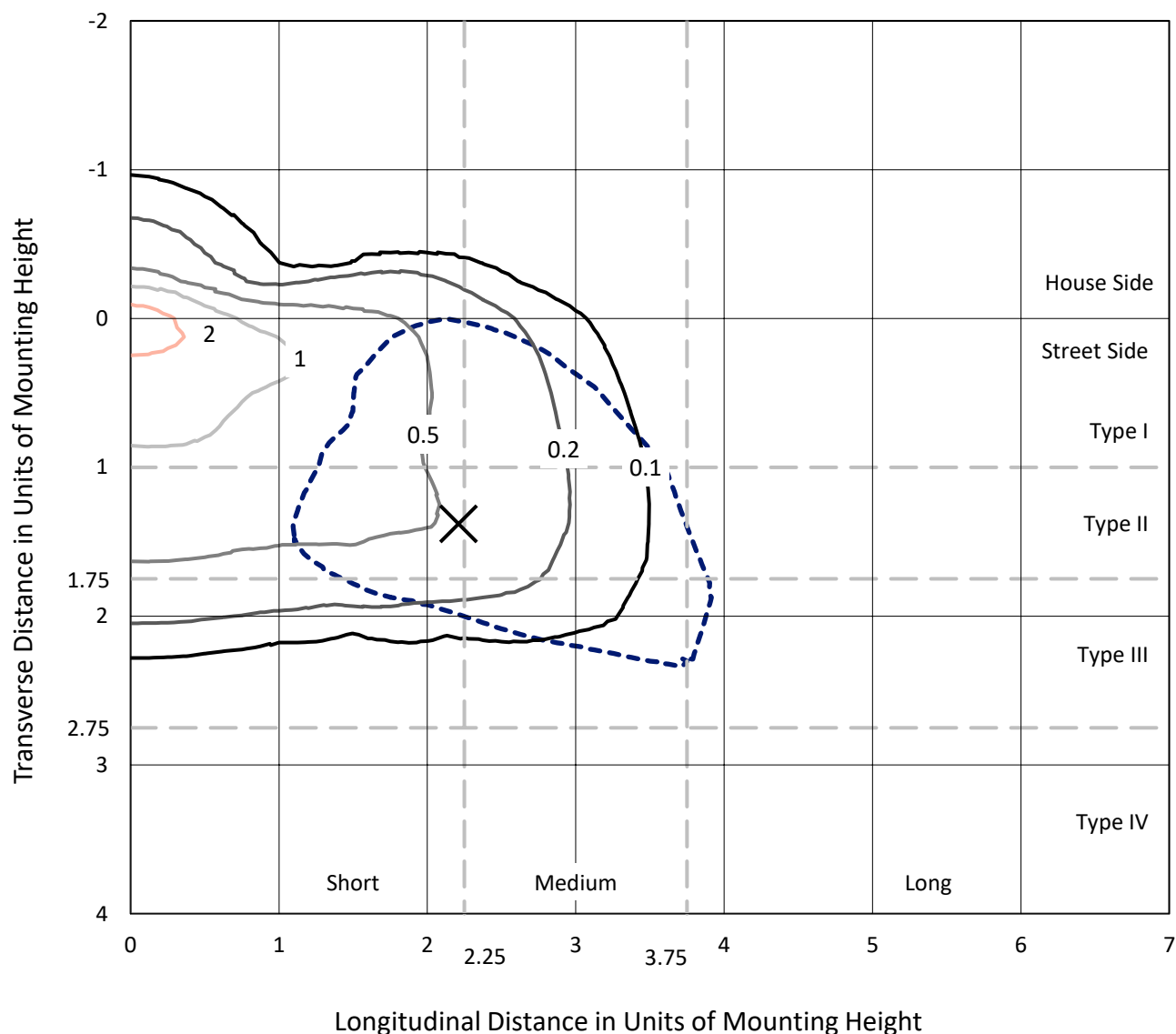
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

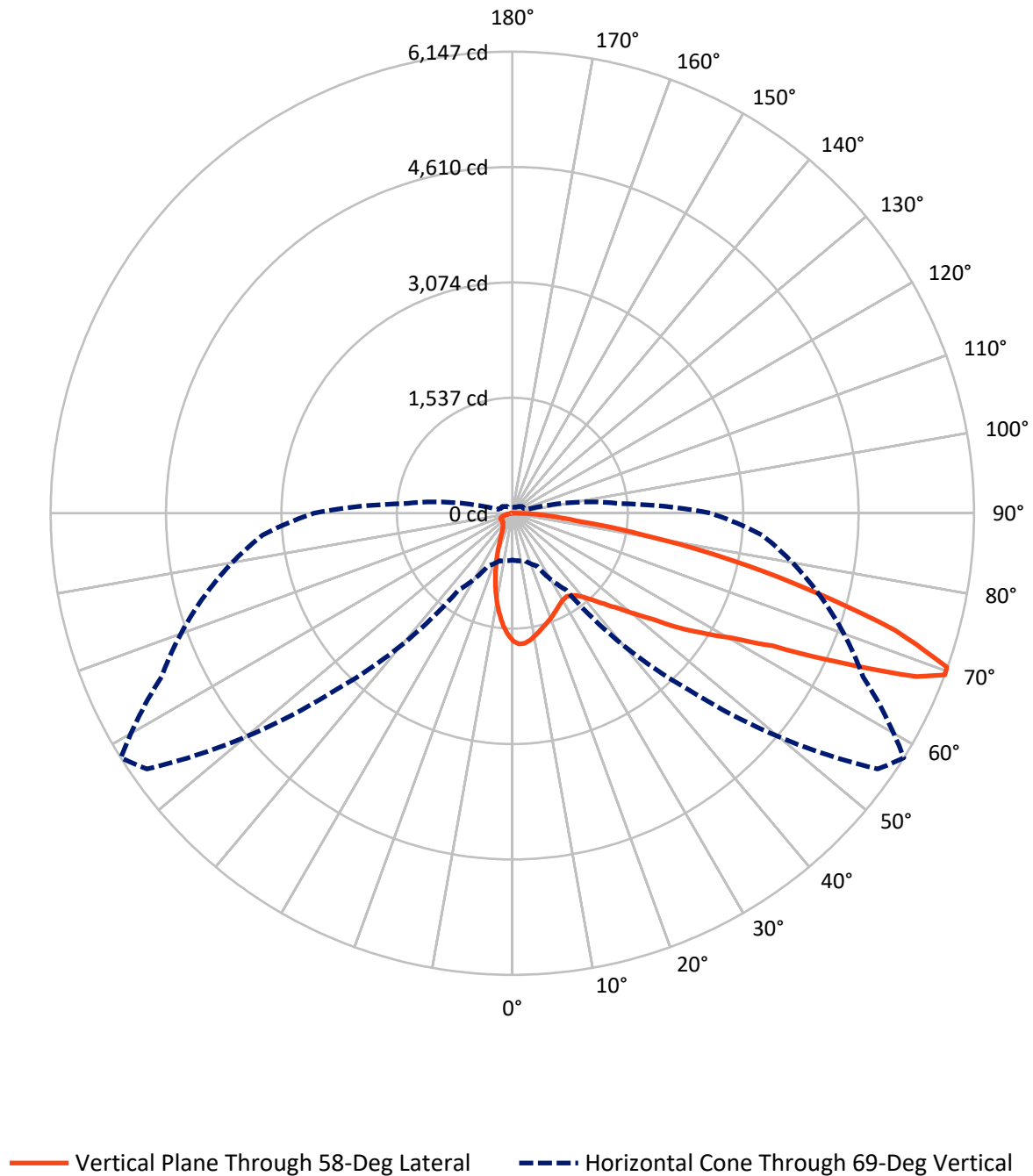


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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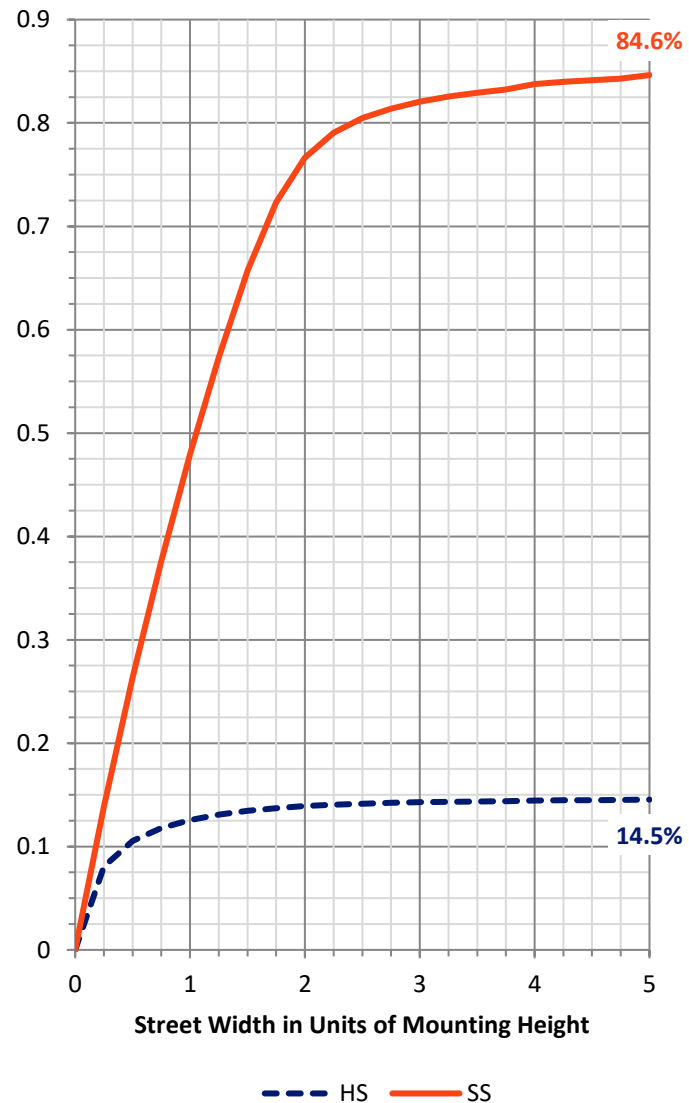
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	903.5	0.0	903.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5261.5	0.0	5261.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	6165.0	0.0	6165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	2.3
10°-20°	317.7	5.2
20°-30°	410.5	6.7
30°-40°	533.1	8.6
40°-50°	775.1	12.6
50°-60°	1236.8	20.1
60°-70°	1652.2	26.8
70°-80°	952.4	15.4
80°-90°	142.6	2.3
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°	6165.0	100.0
0°-180°	6165.0	100.0

Coefficient of Utilization



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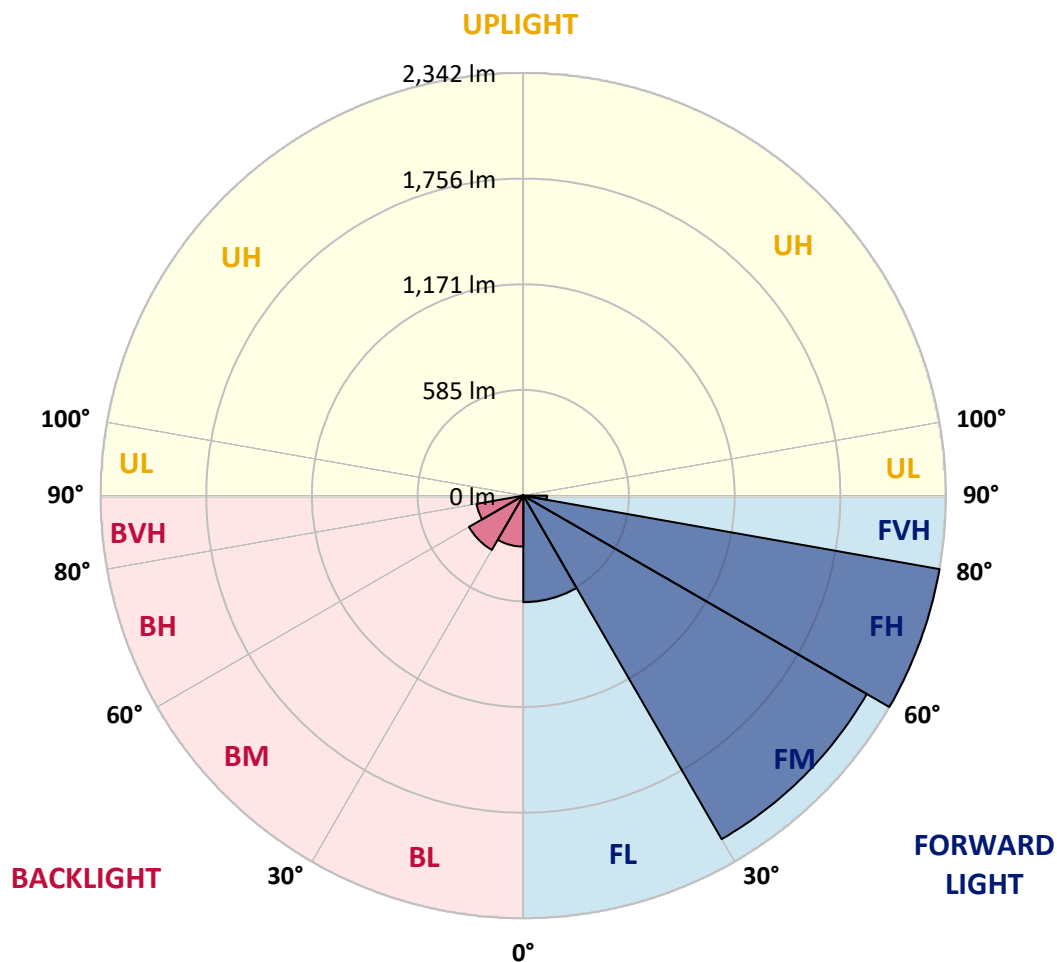
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.4	9.6			
FM	(30°-60°)	2197.5	35.6			
FH	(60°-80°)	2341.8	38.0			G2/5000
FVH	(80°-90°)	131.7	2.1			G2/225
BL	(0°-30°)	282.4	4.6	B1/500		
BM	(30°-60°)	347.4	5.6	B1/1000		
BH	(60°-80°)	262.7	4.3	B1/500		G1/500
BVH	(80°-90°)	10.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1766.9	1771.7	1770.3	1768.6	1765.9	1758.3	1745.9	1743.9	1736.0	1719.1	1698.1
5°	1739.7	1743.9	1744.2	1746.6	1750.1	1748.7	1739.7	1738.7	1727.0	1704.3	1669.3
7.5°	1646.6	1652.1	1664.1	1677.5	1689.5	1700.9	1703.6	1705.4	1698.1	1672.0	1625.3
10°	1541.7	1547.2	1552.7	1572.6	1602.2	1630.4	1653.8	1656.9	1658.6	1634.5	1577.5
12.5°	1425.5	1436.8	1448.5	1478.1	1517.6	1562.0	1603.2	1609.8	1621.5	1603.2	1536.2
15°	1326.8	1338.5	1355.4	1381.8	1429.6	1493.6	1551.7	1562.3	1585.4	1576.1	1497.7
17.5°	1258.4	1262.5	1274.2	1304.5	1356.0	1423.4	1501.1	1522.5	1559.2	1556.8	1464.7
20°	1204.4	1209.6	1216.8	1235.4	1289.0	1360.2	1454.0	1481.5	1531.4	1539.6	1432.0
22.5°	1181.7	1185.5	1184.5	1194.4	1230.9	1302.4	1406.2	1438.9	1506.6	1528.0	1401.8
25°	1183.1	1186.5	1181.4	1179.0	1200.6	1251.5	1356.4	1398.0	1486.7	1520.0	1374.3
27.5°	1206.1	1208.5	1198.9	1189.3	1191.0	1219.9	1315.1	1361.2	1469.8	1523.5	1351.2
30°	1237.1	1241.5	1235.4	1223.7	1210.9	1212.3	1288.7	1334.0	1461.9	1535.5	1340.2
32.5°	1277.0	1281.1	1278.3	1269.1	1252.5	1234.3	1282.1	1324.1	1462.6	1559.9	1337.8
35°	1318.9	1327.2	1331.6	1330.9	1317.5	1285.9	1307.9	1342.6	1479.1	1600.8	1351.9
37.5°	1366.4	1373.2	1392.5	1404.9	1392.5	1355.7	1366.0	1390.1	1515.6	1660.0	1382.9
40°	1412.4	1422.7	1450.9	1489.4	1484.6	1452.3	1454.7	1470.5	1579.9	1748.0	1443.4
42.5°	1460.6	1472.9	1522.1	1579.2	1590.5	1565.4	1572.0	1586.1	1671.3	1870.1	1547.2
45°	1522.5	1537.2	1597.7	1668.9	1713.6	1698.1	1716.7	1723.6	1793.7	2028.9	1684.0
47.5°	1602.2	1619.4	1694.0	1782.7	1846.0	1860.1	1892.4	1888.3	1945.4	2217.0	1861.5
50°	1736.7	1746.3	1816.8	1907.2	1994.2	2057.8	2092.9	2099.4	2133.4	2399.9	2059.8
52.5°	1896.5	1905.1	1956.0	2035.1	2144.1	2278.9	2365.5	2344.2	2352.4	2622.7	2291.9
55°	2076.3	2090.8	2123.1	2175.7	2317.0	2515.4	2689.4	2694.5	2603.1	2835.9	2514.4
57.5°	2215.6	2240.0	2295.4	2370.3	2549.5	2778.4	3012.2	3015.7	2898.8	3063.5	2759.9
60°	2145.5	2174.3	2300.9	2483.4	2854.4	3237.4	3398.0	3378.4	3186.6	3322.7	3059.3
62.5°	1842.9	1848.1	2032.0	2317.4	2948.3	3851.5	3972.2	3889.3	3570.6	3651.4	3363.6
65°	1192.7	1226.4	1372.2	1772.1	2639.9	4192.2	4978.2	4786.7	4109.0	4024.5	3618.4
67.5°	753.0	744.4	804.9	1011.9	1815.7	3892.1	5836.7	5806.5	4813.2	4260.0	3557.5
69°	624.4	634.0	654.6	775.7	1249.5	3323.1	5938.2	6147.2	5154.6	4241.4	3336.5
70°	566.3	570.7	592.4	687.6	964.1	2783.3	5771.8	6137.9	5288.7	4163.7	3176.2
72.5°	449.4	449.0	486.2	572.1	720.7	1588.8	4739.3	5328.9	5138.8	3802.0	2624.4
75°	341.4	346.9	387.8	484.1	663.9	868.2	3307.2	4103.9	4104.2	3003.0	1637.6
77.5°	246.2	249.6	297.4	406.4	625.4	703.8	2202.9	2943.5	2767.1	1376.0	514.7
80°	161.3	163.3	199.8	321.8	563.9	663.9	1306.2	1801.6	1305.2	365.1	170.2
82.5°	88.4	98.7	122.1	208.4	452.5	613.4	793.9	911.8	489.6	162.6	88.7
85°	44.4	47.1	68.8	121.7	295.7	507.5	552.9	523.0	252.7	80.8	46.1
87.5°	13.1	16.5	28.5	47.1	120.0	264.4	307.7	276.1	97.3	29.2	9.6
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°	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1689.5	1683.4	1655.9	1631.1	1608.4	1584.3	1564.1	1546.2	1547.9	1548.2	1530.0
5°	1651.0	1636.9	1584.7	1535.9	1494.6	1442.3	1397.6	1368.8	1354.3	1335.1	1341.9
7.5°	1598.8	1571.6	1499.1	1417.9	1341.9	1274.2	1200.6	1150.1	1117.8	1086.5	1090.6
10°	1544.8	1501.1	1395.6	1288.3	1190.0	1081.7	987.8	907.4	847.5	825.2	810.4
12.5°	1489.4	1432.0	1297.9	1155.2	1019.4	889.8	756.8	670.5	604.4	569.4	573.8
15°	1438.9	1369.1	1196.2	1022.2	845.8	691.4	558.7	476.5	430.5	420.8	426.3
17.5°	1392.1	1300.7	1100.9	892.9	687.0	518.5	419.8	373.4	354.8	349.7	349.3
20°	1344.0	1242.6	994.0	754.7	535.3	401.9	344.5	322.9	319.4	321.5	321.8
22.5°	1295.2	1170.7	884.0	617.5	426.3	328.7	301.2	295.3	298.1	302.9	303.6
25°	1250.1	1107.5	778.1	497.2	340.4	288.8	275.4	275.4	281.6	288.8	289.2
27.5°	1213.0	1046.3	672.5	394.7	285.0	259.9	255.5	257.9	266.5	272.0	272.3
30°	1182.4	989.2	572.8	316.3	250.6	236.9	235.9	240.0	246.2	251.3	251.7
32.5°	1159.4	939.0	479.6	265.8	226.9	219.4	219.0	222.1	225.5	226.9	228.3
35°	1150.4	897.4	394.4	233.8	211.1	206.3	206.3	206.0	207.3	208.0	208.7
37.5°	1157.7	865.4	328.4	213.2	199.4	196.0	193.9	191.9	191.2	191.2	191.5
40°	1188.3	848.6	279.2	199.8	191.2	186.0	182.2	179.8	177.4	178.1	178.8
42.5°	1253.2	851.7	245.8	190.8	183.9	176.7	171.2	168.5	166.8	168.8	168.5
45°	1356.7	882.6	224.5	184.6	176.7	167.4	162.3	159.5	159.5	162.6	163.7
47.5°	1501.5	941.7	213.2	179.8	171.2	160.2	155.1	153.0	153.7	158.8	159.2
50°	1678.2	1044.5	211.1	177.4	168.5	155.1	149.2	147.2	148.9	154.4	155.1
52.5°	1873.2	1176.9	221.1	177.8	166.1	152.0	144.4	141.3	143.0	147.5	148.9
55°	2104.2	1342.6	246.9	179.1	162.6	150.3	141.0	134.1	136.2	139.2	139.6
57.5°	2340.1	1551.7	292.2	179.5	159.9	147.2	135.1	126.2	126.2	128.2	129.3
60°	2628.2	1779.3	352.1	179.8	160.2	142.7	127.2	117.2	115.9	116.9	117.2
62.5°	2914.2	1969.8	362.0	178.8	163.7	138.2	118.6	108.3	105.9	105.6	104.9
65°	3040.4	1934.4	296.7	174.0	167.4	135.5	111.7	99.7	95.6	94.2	94.2
67.5°	2834.8	1636.3	223.1	167.4	165.0	132.7	105.2	92.5	87.7	84.9	84.9
69°	2641.6	1455.4	200.4	163.0	158.8	128.2	101.1	88.7	82.9	79.8	78.7
70°	2492.4	1330.9	190.8	159.2	153.0	123.1	98.0	86.0	79.4	76.0	75.3
72.5°	1989.0	1044.2	167.1	144.7	130.3	103.5	87.0	77.4	71.2	67.4	66.4
75°	1146.3	565.9	138.6	125.8	104.9	80.5	73.6	67.4	62.6	59.1	58.1
77.5°	352.8	218.7	100.4	99.4	77.0	62.2	58.8	56.4	52.9	49.2	48.5
80°	148.5	111.4	68.1	67.0	51.2	43.3	42.3	41.9	40.6	37.5	36.4
82.5°	81.5	62.9	47.4	41.3	30.9	25.1	26.1	26.5	25.4	22.3	20.3
85°	39.9	34.4	23.0	18.6	14.1	8.9	8.6	10.3	9.6	6.9	7.6
87.5°	7.9	9.6	6.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
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)