

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: P451300

Luminaire Tested: **GALN-SA2A-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6045 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

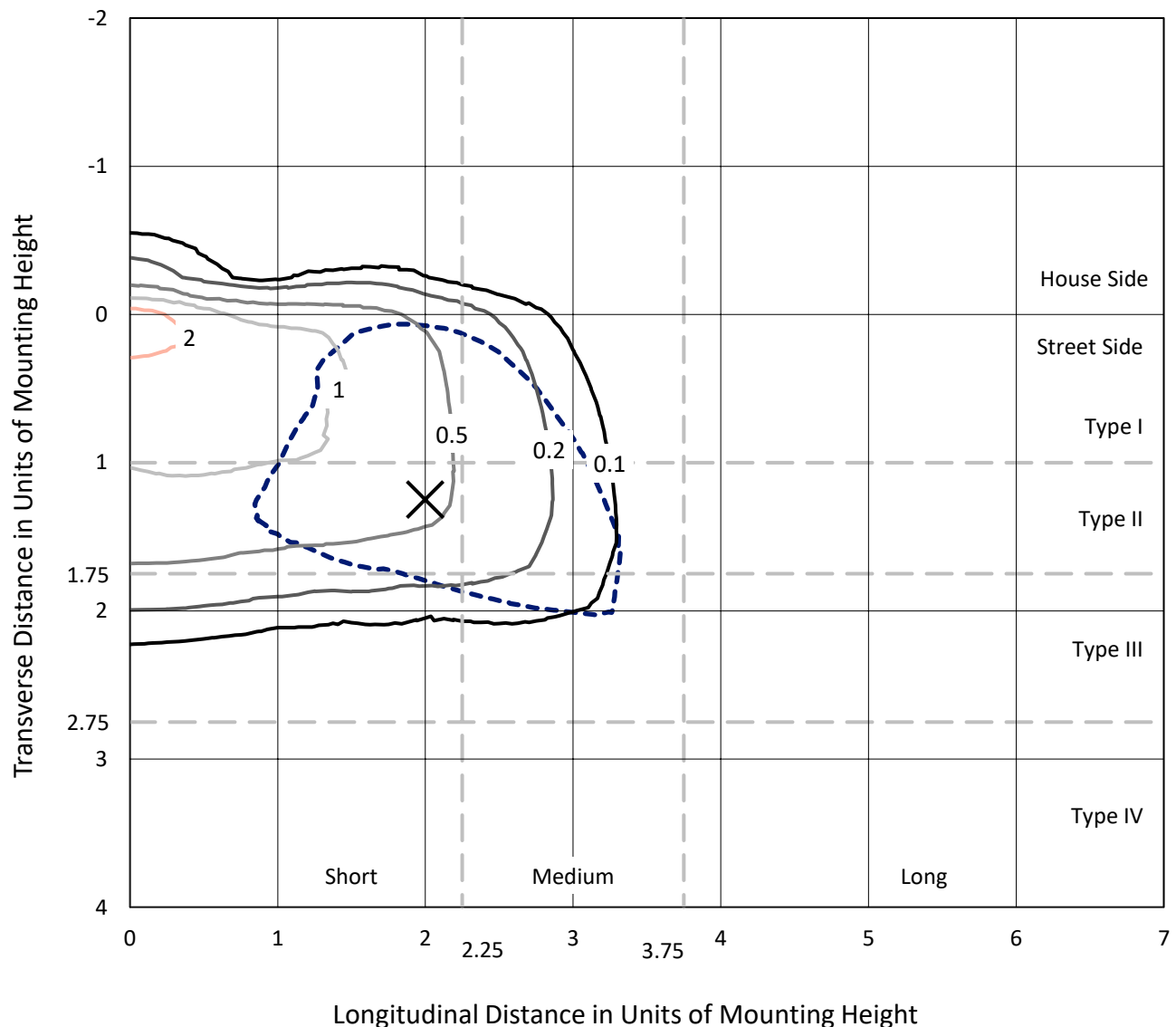


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

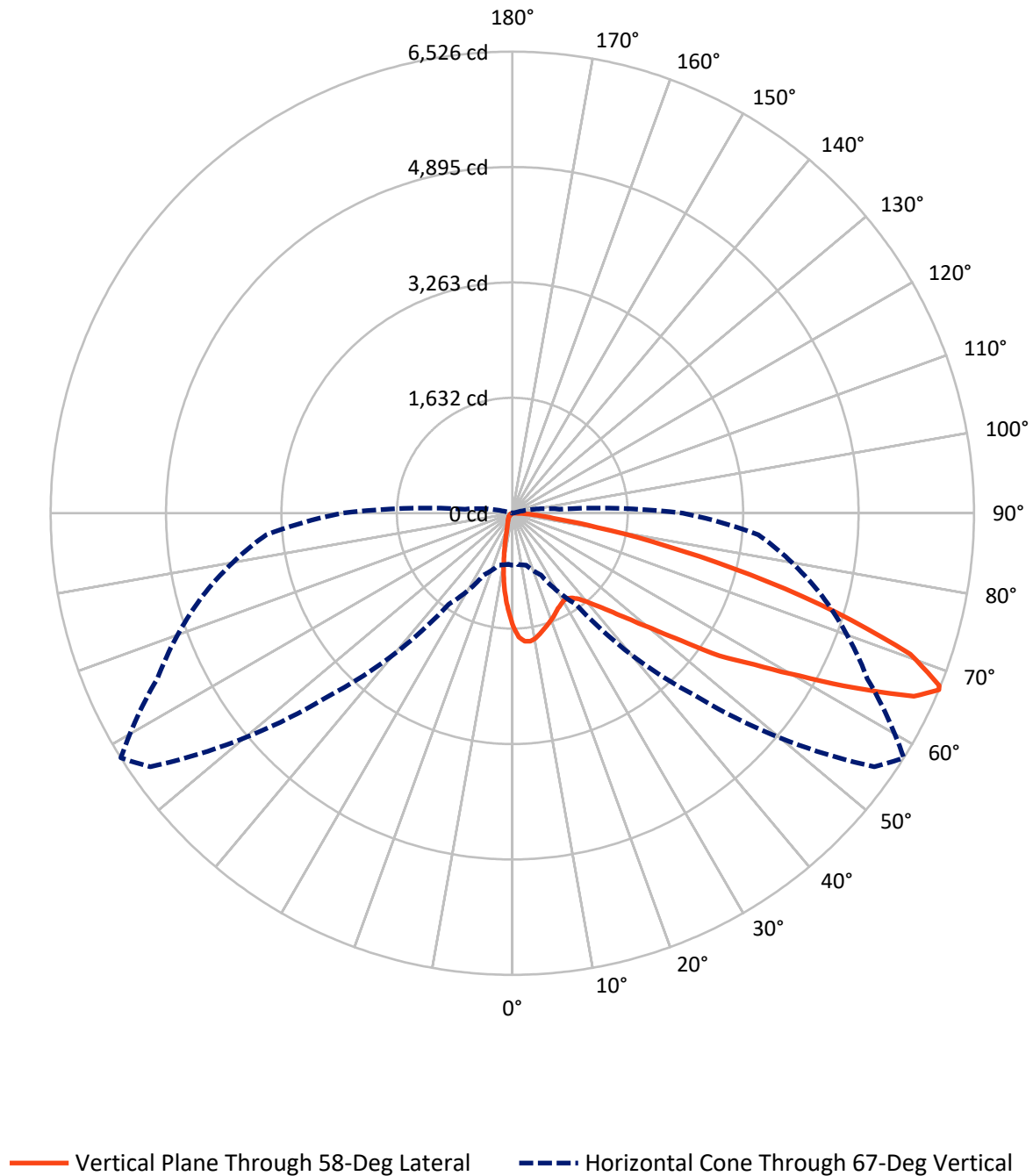


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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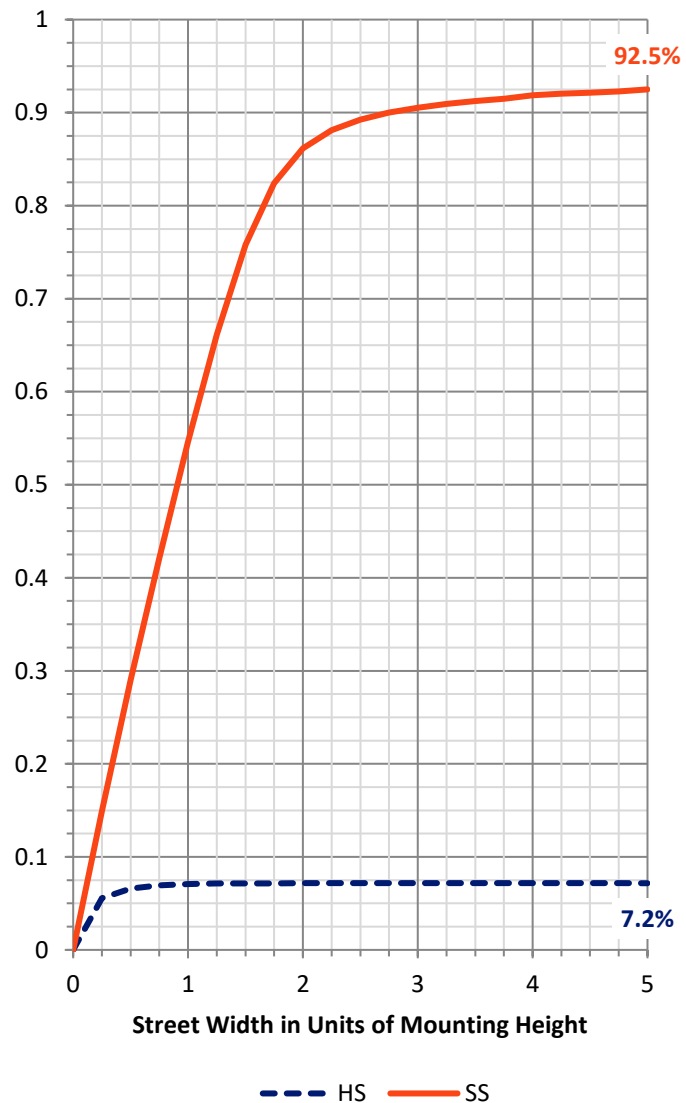
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.2	0.0	436.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	5608.8	0.0	5608.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	6045.0	0.0	6045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	2.2
10°-20°	280.8	4.6
20°-30°	380.6	6.3
30°-40°	527.8	8.7
40°-50°	841.8	13.9
50°-60°	1455.2	24.1
60°-70°	1662.2	27.5
70°-80°	693.0	11.5
80°-90°	73.5	1.2
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°	6045.0	100.0
0°-180°	6045.0	100.0

Coefficient of Utilization



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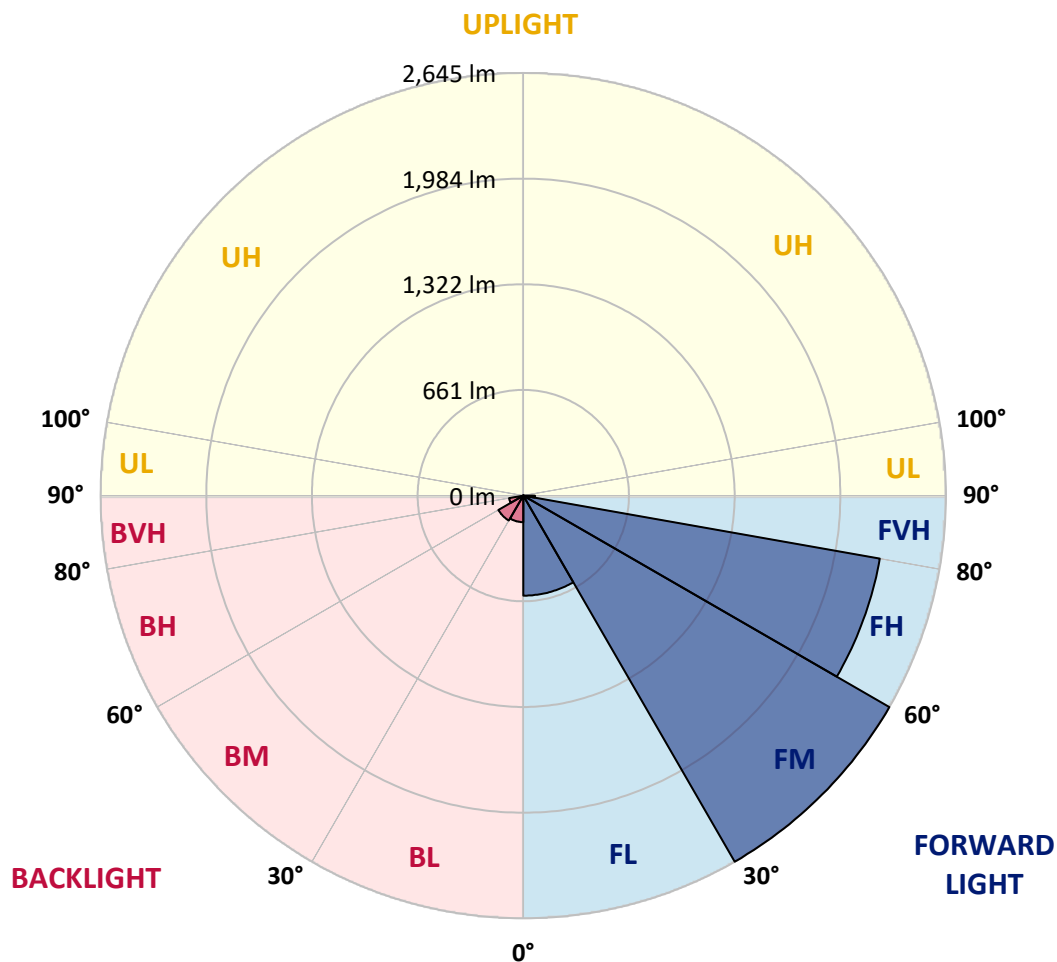
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	625.8	10.4			
FM	(30°-60°)	2644.9	43.8			
FH	(60°-80°)	2265.1	37.5			G2/5000
FVH	(80°-90°)	72.9	1.2			G1/100
BL	(0°-30°)	165.7	2.7	B1/500		
BM	(30°-60°)	179.9	3.0	B0/220		
BH	(60°-80°)	90.2	1.5	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
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°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5
2.5°	1859.8	1862.6	1852.1	1843.6	1821.8	1798.4	1767.3	1750.7	1722.4	1673.6	1619.4
5°	1903.4	1907.1	1905.4	1903.4	1894.9	1872.3	1832.7	1818.2	1776.6	1697.0	1599.2
7.5°	1806.5	1819.8	1821.4	1837.2	1852.1	1854.1	1839.2	1828.3	1789.9	1696.6	1563.3
10°	1678.0	1686.9	1699.8	1718.0	1754.0	1783.8	1798.4	1796.8	1774.6	1684.1	1521.3
12.5°	1548.3	1553.2	1573.0	1604.1	1648.1	1699.0	1737.8	1745.5	1745.9	1669.1	1486.1
15°	1436.9	1434.8	1450.2	1486.1	1547.9	1611.8	1681.2	1693.4	1712.8	1654.6	1453.4
17.5°	1341.5	1352.0	1354.4	1394.0	1451.0	1533.8	1622.3	1643.7	1682.5	1642.1	1426.4
20°	1282.5	1288.2	1293.5	1315.7	1367.0	1454.2	1566.9	1596.4	1654.2	1630.8	1396.1
22.5°	1265.2	1268.8	1264.4	1271.2	1307.6	1385.1	1506.7	1545.9	1627.1	1620.2	1371.4
25°	1278.5	1282.1	1271.6	1263.6	1276.1	1329.0	1448.6	1496.2	1605.3	1618.2	1352.8
27.5°	1310.8	1317.7	1303.1	1288.6	1281.3	1298.7	1402.9	1458.3	1590.4	1627.9	1344.3
30°	1361.3	1365.4	1354.4	1336.7	1320.1	1302.7	1379.1	1432.0	1586.3	1650.5	1343.5
32.5°	1416.3	1424.7	1418.7	1407.0	1385.6	1344.3	1386.0	1432.8	1596.0	1683.3	1353.6
35°	1484.1	1493.8	1499.5	1497.0	1469.6	1418.3	1429.6	1469.2	1621.9	1743.5	1381.1
37.5°	1550.8	1559.3	1591.2	1602.1	1577.8	1529.4	1514.4	1540.7	1678.8	1822.2	1430.8
40°	1627.1	1638.4	1683.3	1724.9	1713.2	1662.3	1634.8	1656.6	1766.1	1941.0	1524.9
42.5°	1700.2	1720.4	1788.7	1862.2	1873.1	1816.2	1798.0	1805.3	1895.3	2111.9	1656.2
45°	1804.0	1823.0	1911.1	2010.9	2062.2	2017.7	1999.2	1997.9	2072.7	2352.2	1869.1
47.5°	1953.9	1970.9	2074.7	2173.3	2264.5	2270.6	2235.5	2247.6	2295.7	2633.4	2130.0
50°	2137.7	2177.7	2246.0	2348.6	2470.6	2569.1	2580.0	2563.9	2605.1	2958.9	2443.5
52.5°	2404.7	2420.1	2482.7	2567.1	2710.1	2877.3	3007.0	2984.8	2971.9	3269.2	2760.2
55°	2603.9	2624.5	2721.8	2837.8	3047.4	3268.0	3549.1	3556.8	3393.6	3567.3	3070.0
57.5°	2543.7	2575.2	2722.6	2955.7	3416.6	3819.8	4029.0	4034.3	3783.8	3856.9	3419.8
60°	2234.7	2249.6	2460.9	2771.9	3448.1	4417.6	4709.7	4667.3	4180.9	4180.9	3728.9
62.5°	1584.7	1608.1	1779.4	2237.1	3114.1	4625.2	5524.8	5437.2	4727.8	4490.7	3913.1
65°	1012.7	990.1	1103.6	1412.2	2319.9	4318.6	6234.6	6239.8	5242.5	4614.7	3812.5
67°	733.6	724.7	757.4	965.4	1573.0	3630.3	6249.5	6526.2	5538.2	4536.4	3490.9
67.5°	671.0	677.8	701.7	870.9	1429.2	3303.5	6181.7	6509.3	5604.8	4489.1	3374.6
70°	508.6	496.9	522.7	616.0	856.8	2084.0	5317.6	5970.0	5522.0	4020.1	2696.4
72.5°	374.1	372.8	408.8	503.7	659.7	1110.1	3991.8	4786.8	4511.3	3061.1	1697.8
75°	252.5	263.8	321.1	420.9	597.8	719.8	2721.4	3472.8	3131.8	1738.2	694.0
77.5°	143.8	144.6	206.8	338.1	536.9	579.3	1612.6	2212.4	1657.8	578.1	206.0
80°	62.2	68.3	102.6	245.6	445.2	513.0	924.6	1215.9	670.6	122.4	66.7
82.5°	23.0	27.1	45.2	151.1	324.8	422.5	558.7	580.5	227.4	43.2	41.6
85°	0.0	0.8	16.6	70.7	169.3	188.6	373.3	344.2	100.6	20.6	27.1
87.5°	0.0	0.0	0.0	7.3	22.2	70.3	115.9	129.3	24.2	7.3	6.5
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°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5
2.5°	1590.4	1564.1	1498.3	1432.4	1383.5	1342.7	1281.3	1247.8	1230.0	1203.8	1205.4
5°	1550.4	1497.0	1381.1	1261.1	1164.2	1069.7	956.6	910.9	872.5	850.7	836.2
7.5°	1491.0	1412.2	1240.5	1080.6	931.5	766.3	642.3	559.5	503.7	483.1	463.3
10°	1425.9	1321.3	1097.9	876.2	669.3	498.9	393.9	317.9	290.8	265.8	268.2
12.5°	1365.8	1238.5	967.1	691.6	469.0	317.1	247.2	216.1	207.2	204.4	204.4
15°	1316.5	1159.3	826.5	519.9	321.5	227.8	197.9	189.5	186.2	185.4	185.4
17.5°	1264.0	1084.2	699.6	384.2	233.9	190.7	180.6	174.9	173.7	172.9	172.9
20°	1217.1	1008.7	579.3	286.0	189.0	171.7	165.2	161.6	160.4	159.6	160.0
22.5°	1172.7	941.6	466.2	216.1	166.4	156.3	149.9	146.2	143.8	141.8	142.2
25°	1133.1	877.0	374.9	176.9	149.9	141.0	134.5	129.3	124.0	121.6	121.2
27.5°	1105.2	820.4	292.1	151.5	134.9	125.2	117.1	110.7	103.8	100.2	99.4
30°	1082.2	763.1	231.1	133.7	120.0	110.7	100.6	91.3	84.0	80.4	78.8
32.5°	1067.2	708.5	182.2	119.2	107.5	96.1	84.8	75.5	67.5	63.8	63.0
35°	1064.8	662.9	149.1	107.0	96.1	84.0	72.3	62.2	55.3	51.7	50.9
37.5°	1082.2	627.7	124.8	97.4	86.8	73.5	60.6	51.3	45.2	42.4	42.0
40°	1128.6	605.5	108.3	89.3	78.4	63.8	51.7	43.6	37.6	34.7	34.7
42.5°	1217.1	606.3	97.4	81.6	69.9	54.5	44.0	36.4	31.1	28.7	27.9
45°	1355.3	633.8	88.1	73.9	61.8	47.3	37.6	29.9	24.6	22.6	22.6
47.5°	1540.3	688.3	80.0	66.2	54.5	40.4	31.9	24.2	19.8	17.8	17.8
50°	1782.2	776.0	73.1	59.8	48.5	34.7	25.9	19.8	15.4	13.7	13.3
52.5°	2035.1	884.2	65.0	54.1	41.6	29.5	21.0	15.4	11.7	10.5	10.1
55°	2314.2	990.1	57.4	48.5	33.9	24.6	16.6	12.1	8.5	7.3	7.3
57.5°	2595.8	1093.9	48.1	40.4	26.7	18.2	12.9	8.9	5.7	4.4	4.4
60°	2834.1	1127.4	40.8	32.7	20.2	12.9	9.3	5.7	3.2	2.0	2.0
62.5°	2866.8	1014.3	34.3	25.0	14.5	8.9	4.8	3.2	1.2	0.8	0.8
65°	2689.1	824.1	28.7	19.0	9.7	4.4	2.0	1.2	0.4	0.0	0.0
67°	2409.6	668.1	23.4	14.1	6.9	2.8	1.2	0.4	0.0	0.0	0.0
67.5°	2338.1	637.0	22.6	13.3	6.1	2.4	0.8	0.4	0.0	0.0	0.0
70°	1834.7	477.1	16.2	8.1	3.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1140.4	269.8	11.7	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0
75°	431.0	94.5	8.1	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	134.1	36.0	4.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.2	13.7	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	27.9	5.7	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.4	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.8	0.4	0.0	0.0	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)