

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: P451299

Luminaire Tested: **GALN-SA2A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7295 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

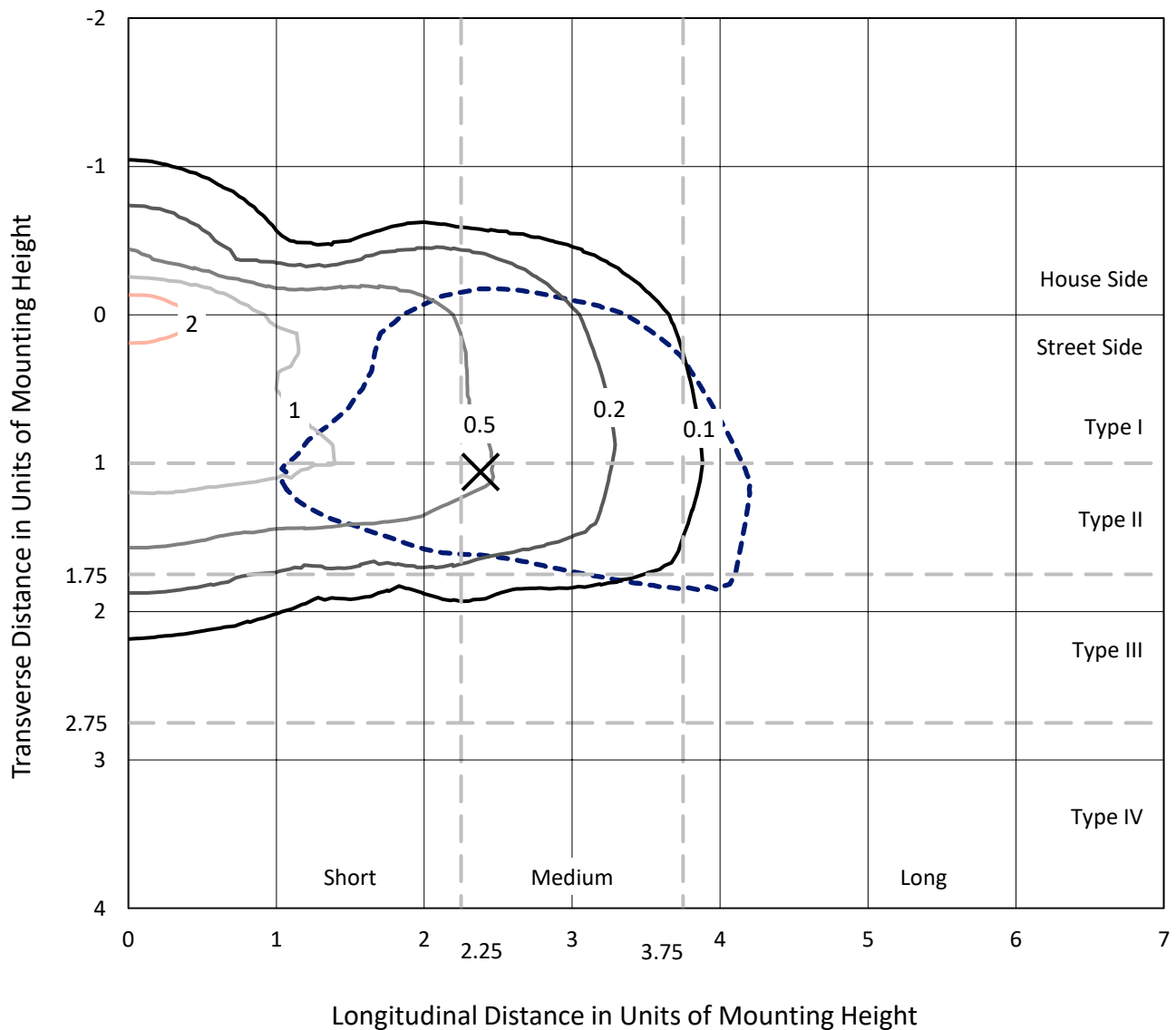


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

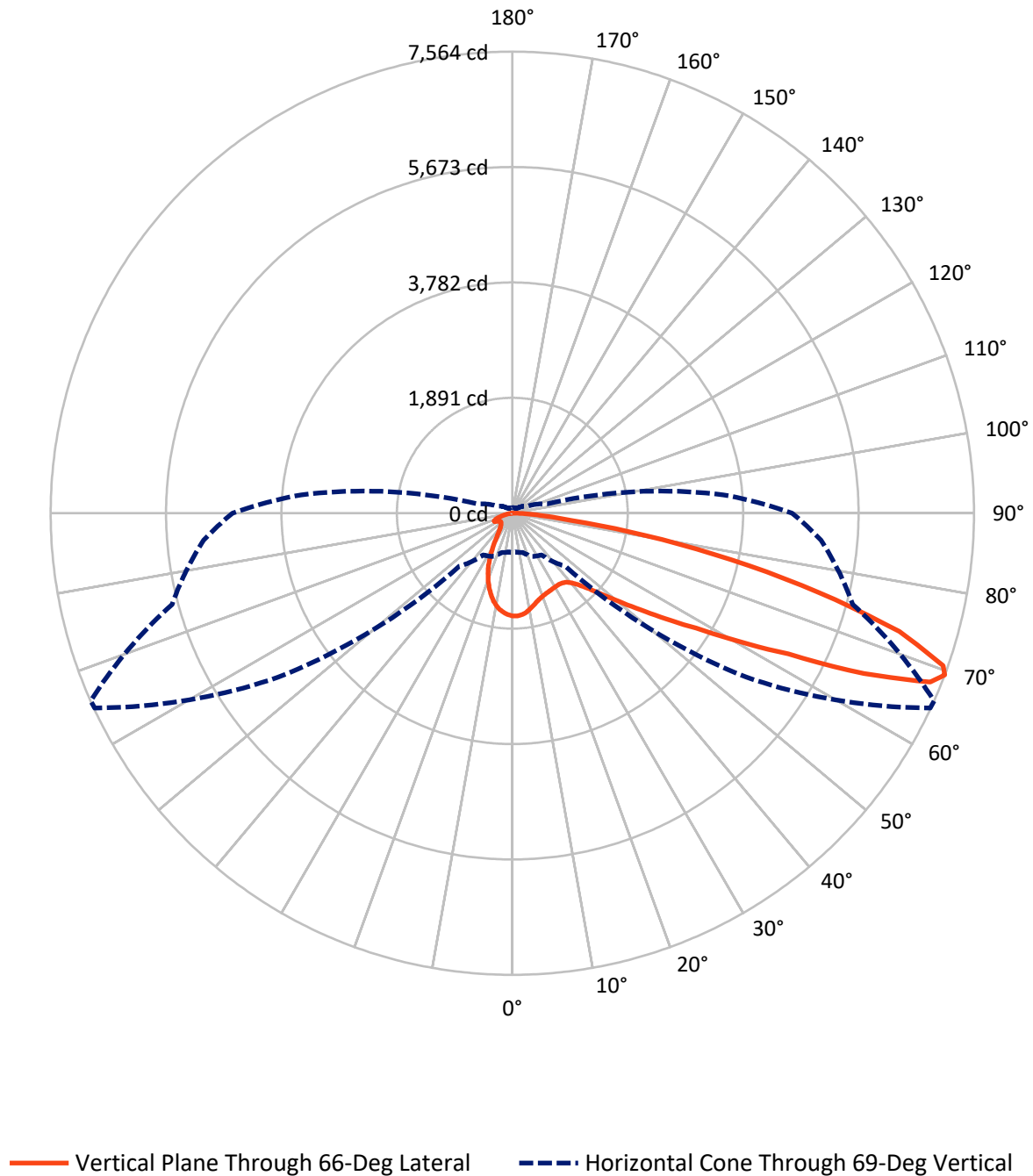


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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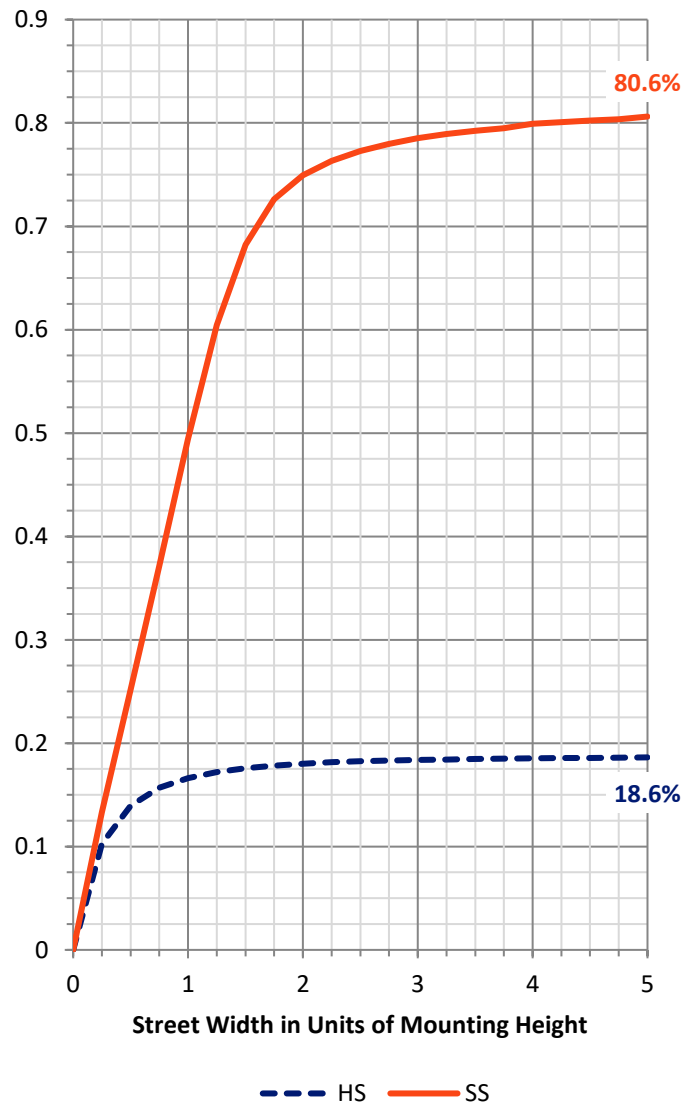
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1371.9	0.0	1371.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5923.1	0.0	5923.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	7295.0	0.0	7295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.3	2.0
10°-20°	347.0	4.8
20°-30°	472.4	6.5
30°-40°	634.8	8.7
40°-50°	947.8	13.0
50°-60°	1507.7	20.7
60°-70°	1854.4	25.4
70°-80°	1206.5	16.5
80°-90°	178.2	2.4
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°	7295.0	100.0
0°-180°	7295.0	100.0

Coefficient of Utilization



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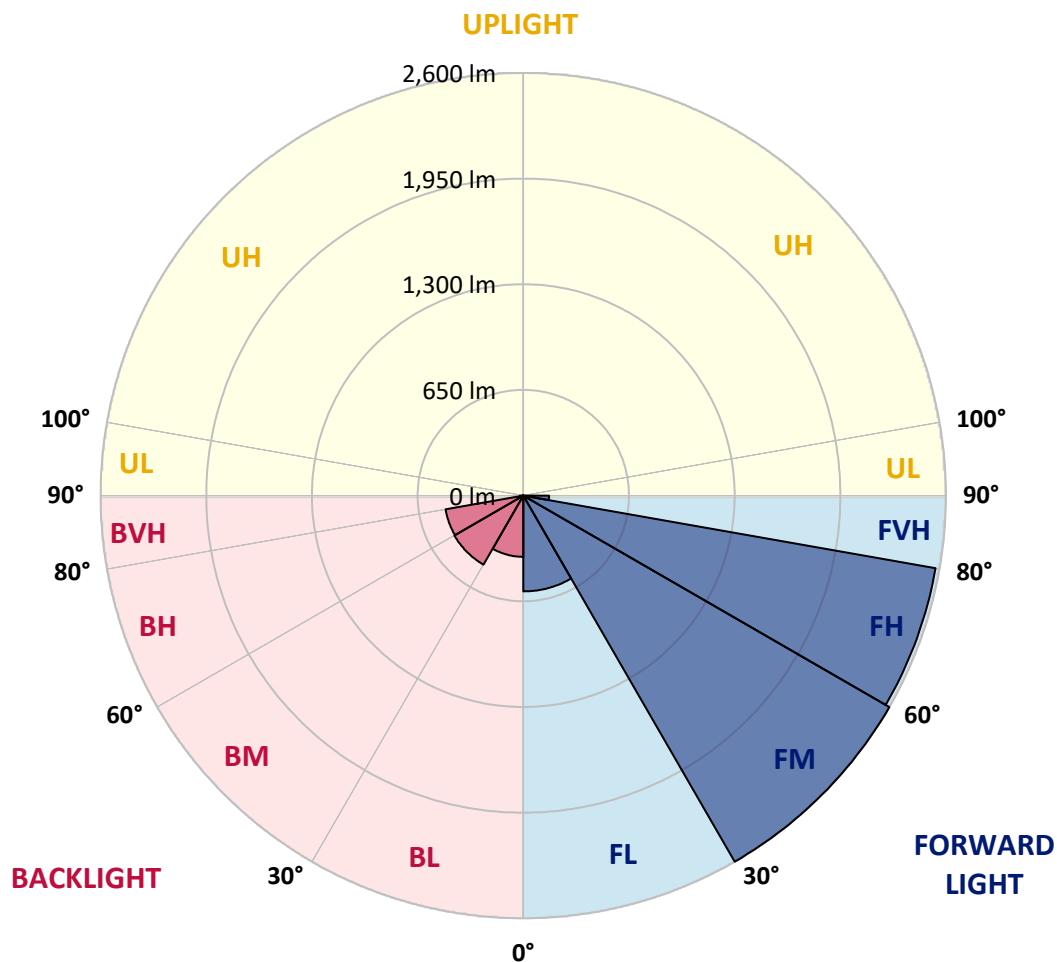
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	589.1	8.1			
FM	(30°-60°)	2600.4	35.6			
FH	(60°-80°)	2575.2	35.3			G2/5000
FVH	(80°-90°)	158.4	2.2			G2/225
BL	(0°-30°)	376.6	5.2	B1/500		
BM	(30°-60°)	489.8	6.7	B1/1000		
BH	(60°-80°)	485.7	6.7	B1/500		G1/500
BVH	(80°-90°)	19.8	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6
2.5°	1625.6	1632.1	1639.4	1647.5	1662.8	1671.3	1677.3	1684.2	1685.0	1688.7	1685.8
5°	1505.7	1513.3	1524.2	1539.6	1562.6	1598.6	1635.7	1666.0	1669.7	1686.6	1691.5
7.5°	1405.5	1409.9	1418.8	1443.4	1476.2	1516.2	1570.3	1631.7	1640.6	1681.0	1695.1
10°	1323.9	1328.3	1338.8	1364.3	1396.6	1446.7	1506.1	1586.9	1594.1	1663.6	1695.9
12.5°	1262.9	1266.9	1278.2	1303.3	1340.4	1387.3	1452.7	1538.4	1548.9	1640.6	1688.3
15°	1216.4	1224.1	1233.4	1254.0	1293.2	1338.4	1401.8	1493.9	1502.4	1616.3	1683.0
17.5°	1196.6	1200.2	1206.7	1225.7	1254.4	1298.8	1362.6	1459.2	1469.3	1599.4	1681.8
20°	1197.4	1201.0	1202.3	1212.8	1233.4	1271.7	1334.8	1431.7	1443.8	1584.4	1683.8
22.5°	1224.9	1225.3	1220.8	1217.2	1225.3	1257.2	1315.0	1411.1	1425.3	1578.0	1685.4
25°	1267.3	1274.6	1268.1	1251.1	1236.2	1251.5	1307.3	1399.8	1413.1	1568.7	1683.4
27.5°	1336.0	1337.2	1331.9	1308.9	1270.1	1258.8	1304.1	1391.3	1402.6	1561.8	1673.3
30°	1428.1	1424.5	1419.6	1394.2	1333.2	1286.7	1310.9	1383.6	1395.4	1551.7	1661.2
32.5°	1521.4	1532.7	1528.3	1498.4	1419.2	1340.8	1333.2	1382.8	1392.5	1544.0	1647.9
35°	1620.4	1625.6	1646.6	1631.3	1550.1	1428.5	1374.8	1395.4	1403.0	1544.4	1638.6
37.5°	1697.9	1712.1	1761.4	1774.7	1698.4	1544.4	1442.2	1430.9	1434.1	1564.2	1642.2
40°	1791.7	1815.9	1879.3	1933.9	1883.8	1695.1	1557.0	1496.8	1500.8	1611.9	1666.0
42.5°	1910.4	1927.4	2012.7	2086.6	2078.5	1894.3	1695.9	1604.6	1606.6	1706.8	1732.7
45°	2049.4	2073.7	2169.4	2280.5	2299.5	2119.7	1896.7	1767.8	1766.6	1854.3	1857.1
47.5°	2227.2	2242.1	2337.1	2458.2	2535.0	2402.9	2140.3	2002.2	1989.2	2069.2	2046.2
50°	2390.8	2414.2	2486.1	2618.6	2809.7	2734.6	2460.7	2305.9	2275.6	2350.4	2311.6
52.5°	2459.5	2484.1	2544.7	2709.1	3045.2	3163.6	2867.5	2668.3	2617.8	2675.2	2661.1
55°	2340.3	2372.2	2428.8	2628.7	3148.7	3658.5	3416.1	3087.3	3050.5	3025.8	3029.9
57.5°	2019.9	2050.2	2126.6	2347.2	3025.0	4017.6	4199.4	3625.8	3547.0	3433.5	3452.9
60°	1537.6	1556.6	1596.1	1840.6	2658.6	4111.0	5089.0	4306.5	4256.4	3839.5	3853.2
62.5°	1092.0	1113.4	1140.9	1262.9	1946.4	3848.0	5785.5	5257.1	5078.1	4260.0	4246.7
65°	886.7	872.2	905.3	962.3	1142.1	2982.2	5942.2	6576.5	6330.0	4813.9	4628.9
67.5°	729.2	713.8	746.6	848.0	868.6	1731.1	5377.4	7432.9	7383.6	5416.2	5017.1
69°	645.6	637.5	666.2	781.7	833.8	1229.3	4684.6	7552.1	7563.8	5771.3	5076.9
70°	581.7	585.0	612.8	748.2	818.1	1013.6	4003.9	7387.7	7487.1	5948.7	5012.2
72.5°	428.2	435.1	473.9	619.7	803.1	860.1	2382.7	6452.9	6628.6	5959.2	4585.2
75°	299.4	296.1	330.5	466.6	758.7	852.4	1399.4	4990.4	5189.6	5150.8	3852.8
77.5°	195.9	201.2	228.7	329.7	638.3	845.9	912.2	3540.5	3669.8	3444.8	2278.9
80°	138.2	137.8	153.1	225.0	473.5	812.8	747.0	2231.6	2198.9	1353.8	675.9
82.5°	79.2	84.8	102.6	158.4	316.7	715.5	687.2	1067.3	974.4	385.8	228.3
85°	44.0	46.1	61.0	95.7	185.0	538.9	599.9	485.6	458.1	161.2	98.2
87.5°	14.1	15.4	25.5	48.5	84.0	254.5	339.8	224.2	206.8	58.2	39.6
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°	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6
2.5°	1687.0	1691.9	1679.0	1666.4	1655.1	1639.4	1625.2	1613.5	1605.4	1604.2	1600.2
5°	1692.7	1693.1	1668.5	1635.3	1603.0	1567.5	1530.7	1504.4	1479.8	1466.1	1459.2
7.5°	1696.7	1693.1	1648.7	1594.9	1532.7	1468.1	1403.4	1351.7	1311.7	1296.0	1302.0
10°	1695.1	1683.8	1618.8	1532.7	1442.2	1345.7	1252.8	1180.0	1113.4	1079.0	1079.9
12.5°	1686.2	1667.7	1574.3	1462.8	1329.9	1200.6	1058.4	960.3	883.1	837.5	823.3
15°	1678.6	1646.2	1522.2	1367.9	1202.7	1018.0	844.7	723.5	658.9	622.9	622.5
17.5°	1670.5	1625.6	1465.3	1267.3	1056.4	818.9	637.1	544.6	514.3	517.9	511.8
20°	1662.0	1601.4	1405.9	1155.4	878.3	610.8	477.1	439.5	448.0	464.6	467.0
22.5°	1652.3	1575.5	1342.0	1032.2	690.8	459.7	387.0	381.4	403.2	429.0	432.7
25°	1637.4	1543.2	1261.6	903.3	532.9	370.5	338.9	343.0	364.4	386.2	388.6
27.5°	1616.3	1503.2	1180.4	742.5	400.3	317.9	309.9	315.1	325.6	338.9	342.2
30°	1588.1	1458.0	1087.1	603.6	320.8	291.7	288.4	291.3	297.3	303.0	304.6
32.5°	1559.8	1414.4	993.0	462.2	286.0	274.3	271.1	271.1	271.1	271.9	272.3
35°	1533.5	1373.1	892.0	360.0	267.8	260.6	256.1	251.3	250.5	247.6	247.6
37.5°	1519.0	1335.6	784.5	301.4	254.5	249.3	243.2	235.1	230.7	231.1	230.3
40°	1521.8	1310.9	686.8	268.2	243.6	237.9	228.7	219.4	216.5	216.5	215.7
42.5°	1553.7	1302.9	593.1	250.9	233.1	226.6	214.9	206.4	204.8	204.4	205.2
45°	1627.3	1322.6	509.0	239.6	224.2	214.5	202.8	195.1	193.5	193.5	193.1
47.5°	1770.7	1386.9	448.8	232.3	217.7	205.2	193.1	185.4	182.6	181.8	181.8
50°	1993.7	1526.3	404.0	225.8	209.7	196.7	184.2	175.3	170.9	170.5	170.1
52.5°	2303.5	1743.6	386.6	221.0	200.8	187.9	174.1	165.6	160.0	158.8	158.0
55°	2665.9	2047.0	410.4	217.3	191.5	177.8	163.6	154.7	149.5	147.1	146.6
57.5°	3085.6	2411.4	500.9	212.5	183.0	166.8	153.1	144.2	138.6	135.7	134.9
60°	3462.6	2785.9	658.9	209.7	175.7	155.1	141.0	132.9	127.7	124.8	124.4
62.5°	3876.6	3143.0	847.6	217.3	172.5	143.8	129.7	122.4	118.0	115.1	115.1
65°	4319.0	3500.5	972.4	243.2	177.3	134.9	117.6	111.5	107.5	105.4	105.0
67.5°	4617.1	3624.2	801.1	269.9	189.5	125.2	105.8	101.0	98.6	96.6	96.6
69°	4584.8	3467.8	591.0	276.7	193.1	120.4	99.4	95.7	92.5	91.7	90.9
70°	4482.6	3289.7	495.3	272.3	190.3	115.9	95.3	90.9	88.1	87.3	86.9
72.5°	3992.6	2852.9	368.8	236.7	162.0	100.6	84.4	80.4	78.0	76.8	76.8
75°	3317.1	2331.8	288.0	188.3	126.9	84.8	72.3	69.1	67.1	66.3	65.8
77.5°	1859.1	1302.0	206.8	147.5	96.1	68.7	60.6	57.8	55.7	54.9	54.9
80°	517.9	372.1	121.6	97.4	65.4	52.1	48.1	46.1	43.2	41.2	42.4
82.5°	195.1	161.2	69.5	58.6	41.6	34.7	33.5	31.9	30.7	27.9	27.9
85°	94.9	78.4	44.4	31.1	23.0	18.2	17.4	16.6	15.8	13.7	14.1
87.5°	32.7	34.7	19.4	11.3	6.9	4.4	3.6	2.0	2.0	2.0	2.0
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)