

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: P522684

Luminaire Tested: **GALN-SA2D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12371 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 125
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

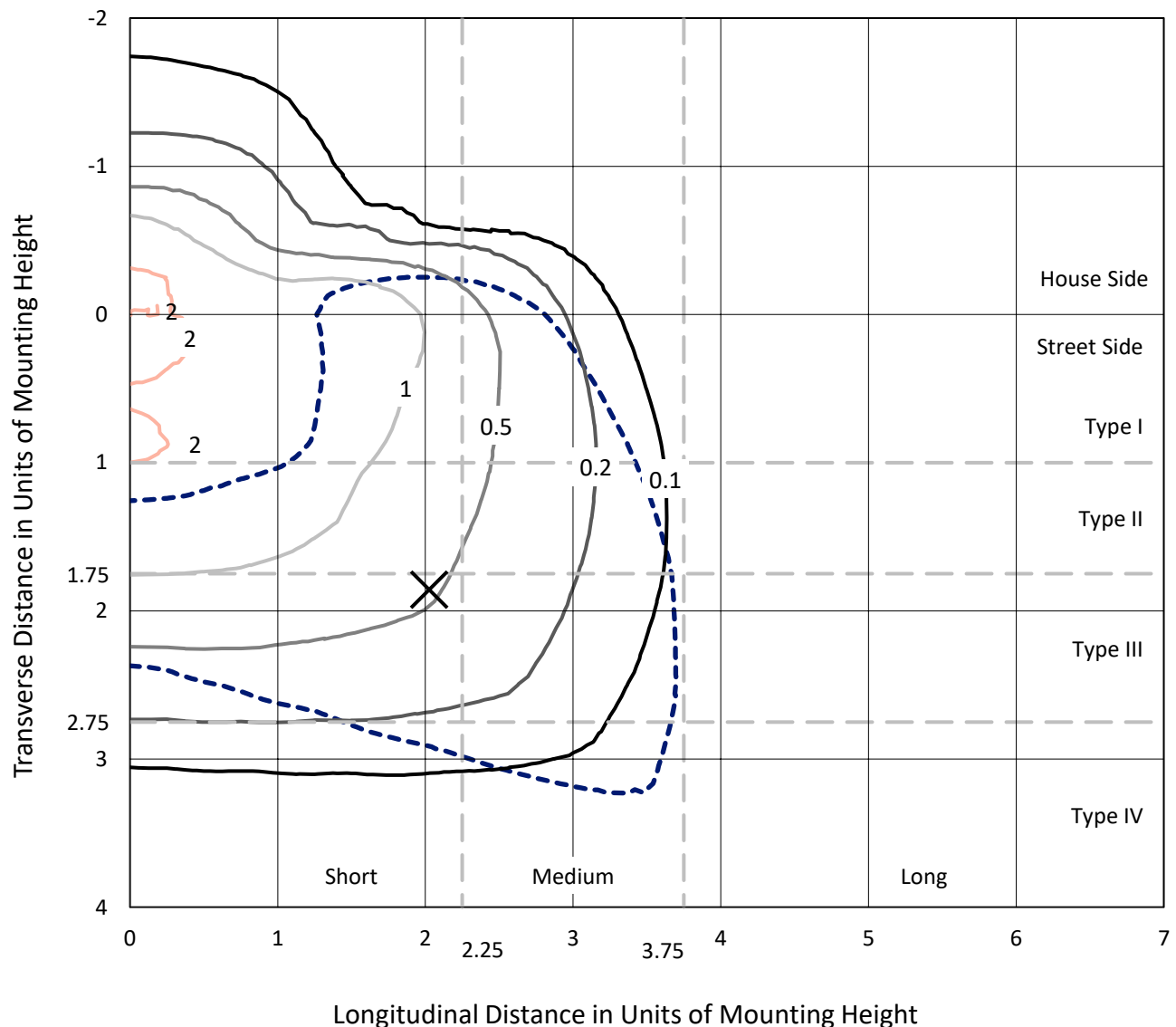


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

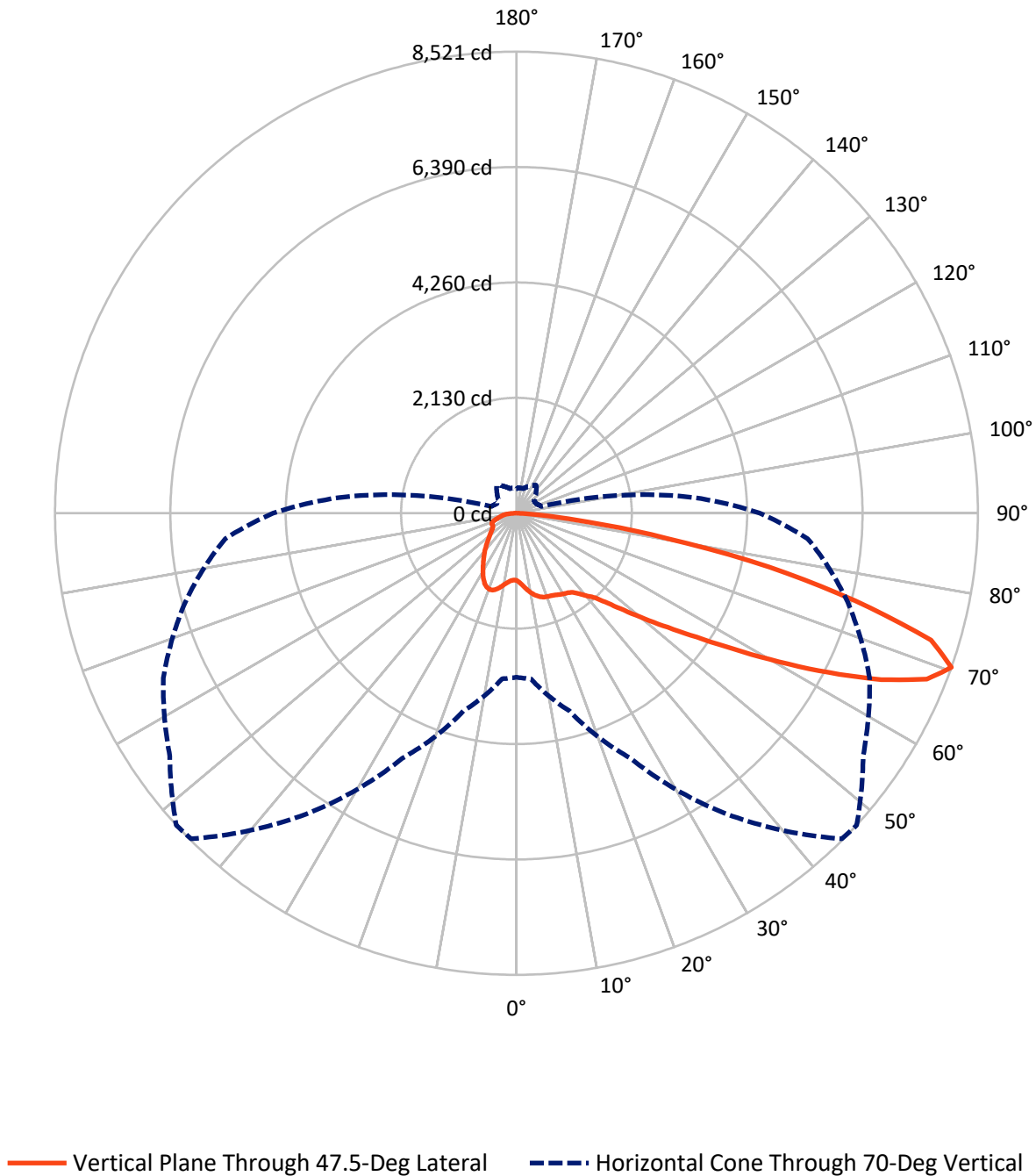


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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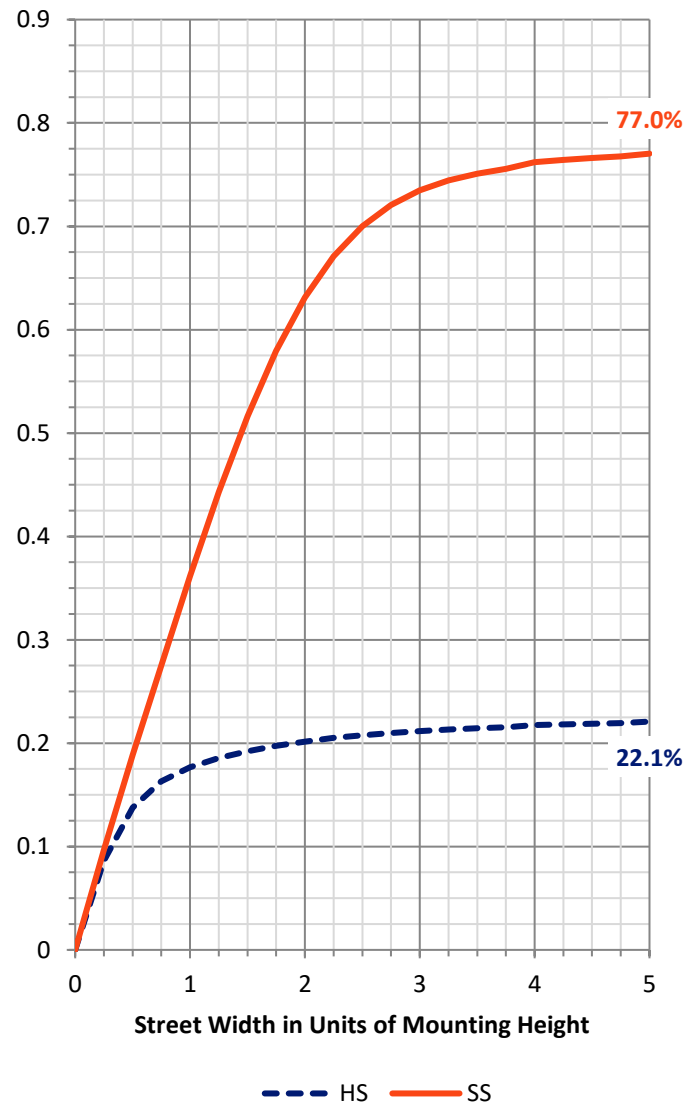
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2801.0	0.0	2801.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9570.0	0.0	9570.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	12371.0	0.0	12371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.0
10°-20°	428.0	3.5
20°-30°	711.7	5.8
30°-40°	1008.7	8.2
40°-50°	1489.1	12.0
50°-60°	2579.2	20.8
60°-70°	3643.1	29.4
70°-80°	2094.3	16.9
80°-90°	289.0	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°	12371.0	100.0
0°-180°	12371.0	100.0

Coefficient of Utilization



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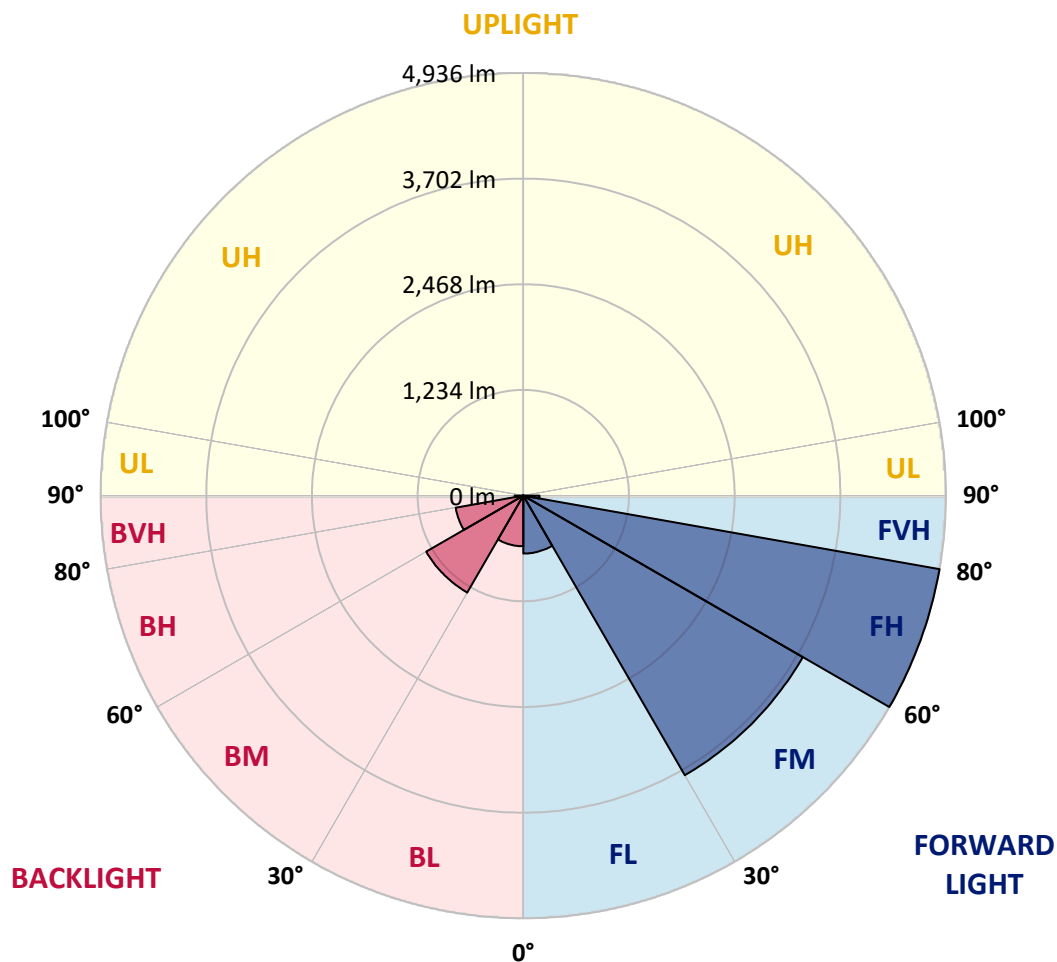
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	676.5	5.5			
FM	(30°-60°)	3769.2	30.5			
FH	(60°-80°)	4935.5	39.9			G2/5000
FVH	(80°-90°)	188.8	1.5			G2/225
BL	(0°-30°)	591.2	4.8	B2/1000		
BM	(30°-60°)	1307.8	10.6	B2/2500		
BH	(60°-80°)	801.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	100.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
2.5°	1322.0	1317.4	1316.7	1306.8	1301.5	1291.5	1287.6	1278.3	1267.1	1255.8	1245.2
5°	1425.9	1425.9	1421.3	1407.4	1385.6	1363.0	1353.1	1335.2	1303.5	1277.6	1255.8
7.5°	1532.5	1533.8	1524.6	1504.0	1472.9	1436.5	1427.3	1400.8	1355.8	1318.0	1285.6
10°	1624.5	1624.5	1612.0	1584.2	1545.1	1505.4	1496.1	1466.3	1416.0	1369.0	1326.6
12.5°	1694.7	1694.7	1678.2	1641.7	1599.4	1563.6	1553.0	1524.6	1477.6	1425.3	1371.7
15°	1740.4	1737.1	1718.5	1677.5	1636.4	1605.3	1598.1	1574.2	1531.2	1478.2	1418.0
17.5°	1742.4	1741.0	1723.2	1688.7	1653.0	1631.8	1627.2	1611.3	1577.5	1527.2	1463.7
20°	1704.0	1706.6	1694.7	1670.2	1653.0	1643.7	1641.7	1636.4	1612.6	1565.6	1502.1
22.5°	1662.9	1667.6	1656.3	1643.1	1641.7	1651.0	1652.3	1653.7	1638.4	1592.8	1534.5
25°	1653.0	1656.3	1645.1	1633.1	1640.4	1664.9	1670.2	1675.5	1663.6	1625.2	1572.9
27.5°	1703.3	1700.7	1678.8	1653.0	1657.6	1690.7	1698.0	1704.0	1698.0	1664.9	1620.6
30°	1845.6	1837.0	1793.3	1717.9	1694.0	1717.2	1724.5	1741.0	1741.0	1716.5	1672.2
32.5°	2084.0	2067.4	1987.3	1839.0	1756.3	1742.4	1749.6	1776.8	1790.7	1771.5	1723.2
35°	2373.2	2356.0	2241.5	2042.2	1870.1	1792.7	1790.7	1821.1	1858.2	1815.2	1752.3
37.5°	2663.9	2646.0	2508.3	2284.5	2036.3	1898.6	1886.7	1897.3	1913.2	1834.4	1792.7
40°	2954.5	2933.3	2812.8	2555.3	2239.5	2038.9	2007.8	1960.2	1953.5	1897.3	1870.8
42.5°	3242.4	3223.2	3162.3	2859.1	2483.1	2176.0	2128.3	2046.2	2071.4	2037.6	2014.4
45°	3533.1	3534.4	3469.5	3200.1	2777.1	2428.9	2364.6	2236.2	2295.8	2283.2	2296.5
47.5°	3790.6	3787.3	3764.1	3531.1	3141.8	2754.6	2671.8	2522.9	2624.8	2671.1	2772.4
50°	4040.1	4038.2	4039.5	3906.4	3565.5	3141.8	3050.5	2894.2	3123.9	3284.8	3466.2
52.5°	4397.6	4408.9	4328.8	4293.7	4080.5	3599.3	3498.6	3337.1	3713.8	3967.3	4321.5
55°	4756.4	4747.2	4684.3	4720.7	4619.4	4140.8	4035.5	3907.1	4370.5	4647.9	5180.1
57.5°	4967.6	4970.9	5035.1	5213.2	5284.7	4816.0	4720.7	4621.4	5108.6	5305.2	5944.0
60°	5157.6	5172.8	5357.5	5693.8	5887.8	5645.5	5560.7	5464.1	5785.8	5863.9	6607.4
62.5°	5217.2	5264.2	5586.6	6089.7	6475.6	6581.5	6476.3	6263.1	6430.6	6400.2	7056.8
65°	4919.9	4984.1	5562.1	6238.0	7000.6	7469.9	7403.1	7007.2	6980.1	6796.7	7130.3
67.5°	4137.5	4201.7	4943.8	5926.8	7217.7	8239.2	8172.3	7550.0	7313.7	6833.8	6574.3
70°	3027.3	3067.7	3777.3	4990.1	6781.5	8497.3	8520.5	7814.8	7194.5	6330.0	5397.9
72.5°	1744.4	1833.7	2330.9	3510.6	5540.2	7844.6	8005.5	7264.1	6441.2	5280.7	3774.0
75°	750.0	752.0	1077.7	1936.3	3752.2	6305.5	6461.1	6021.5	5058.3	3651.6	2015.1
77.5°	356.8	363.4	474.0	864.6	2065.4	4356.6	4776.3	4254.0	3235.2	1754.3	761.3
80°	231.7	236.3	290.0	429.0	1012.8	2526.2	2818.8	2454.0	1427.3	626.9	328.3
82.5°	140.3	141.7	194.0	262.1	557.4	1143.9	1348.5	1065.1	609.0	375.4	193.3
85°	85.4	86.1	117.8	162.2	338.3	395.2	405.8	402.5	357.5	245.6	103.3
87.5°	41.0	42.4	60.9	76.8	133.1	122.5	115.8	134.4	168.8	132.4	44.4
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°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
2.5°	1240.6	1238.6	1234.0	1232.0	1230.6	1231.3	1230.6	1230.6	1231.3	1231.3	1231.3
5°	1246.5	1243.2	1235.9	1235.9	1239.9	1249.2	1257.8	1264.4	1271.7	1271.0	1271.0
7.5°	1272.4	1266.4	1257.8	1260.4	1270.4	1284.9	1300.2	1314.7	1329.3	1330.6	1329.9
10°	1310.1	1304.1	1294.9	1298.2	1314.1	1335.9	1355.1	1376.3	1392.2	1396.8	1395.5
12.5°	1353.1	1341.2	1333.3	1342.5	1367.7	1396.8	1415.3	1431.2	1442.5	1449.1	1446.5
15°	1396.8	1385.6	1376.3	1395.5	1425.9	1453.1	1462.3	1465.0	1467.0	1473.6	1472.3
17.5°	1439.2	1423.9	1420.6	1445.8	1474.9	1486.8	1481.5	1470.3	1461.7	1467.0	1466.3
20°	1476.9	1465.0	1463.7	1488.8	1500.1	1488.8	1466.3	1446.5	1431.2	1432.6	1431.9
22.5°	1512.7	1503.4	1504.7	1515.3	1497.4	1459.0	1422.0	1394.8	1378.3	1381.6	1383.6
25°	1552.4	1543.1	1546.4	1529.2	1470.3	1403.4	1349.8	1326.6	1320.0	1326.6	1331.3
27.5°	1604.0	1598.1	1596.1	1529.9	1422.0	1321.3	1260.4	1251.8	1257.8	1272.4	1279.6
30°	1659.6	1659.6	1649.0	1518.6	1355.8	1222.7	1169.7	1171.1	1191.6	1212.1	1219.4
32.5°	1713.2	1724.5	1691.4	1488.2	1270.4	1126.7	1086.3	1087.7	1105.5	1130.7	1137.3
35°	1757.6	1790.0	1727.8	1432.6	1169.7	1045.9	1015.5	997.6	998.3	1017.5	1022.8
37.5°	1818.5	1878.7	1749.0	1349.8	1062.5	977.1	942.7	911.6	891.0	883.1	883.1
40°	1924.4	2013.1	1754.3	1227.3	961.2	911.6	862.6	825.5	785.8	750.0	743.4
42.5°	2103.8	2215.7	1743.7	1086.3	869.9	839.4	791.7	746.1	691.1	640.8	636.8
45°	2421.6	2479.2	1715.2	940.0	788.4	769.9	723.6	673.9	615.7	570.6	567.3
47.5°	2930.6	2849.2	1677.5	810.3	714.3	709.0	673.2	615.7	557.4	526.3	523.0
50°	3674.1	3431.8	1672.2	716.3	654.7	657.4	628.2	575.3	524.3	498.5	494.5
52.5°	4569.1	4135.5	1707.3	650.1	602.4	612.3	597.8	548.8	503.8	481.9	478.0
55°	5437.6	4768.3	1728.5	598.4	553.4	572.0	573.9	532.9	491.9	470.0	467.4
57.5°	6142.6	5245.0	1634.5	551.4	511.1	539.5	554.1	523.6	485.9	469.4	466.7
60°	6633.2	5470.1	1367.0	509.7	479.9	513.7	546.8	524.3	500.5	502.5	503.8
62.5°	6789.4	5370.1	1025.4	478.6	458.8	505.1	558.7	551.4	526.9	542.2	544.8
65°	6530.6	4957.0	743.4	454.1	440.2	511.1	594.5	571.3	517.7	528.9	528.9
67.5°	5664.0	4270.5	578.6	431.6	419.0	522.3	630.2	569.3	495.8	509.1	497.2
70°	4492.9	3303.3	481.9	406.5	396.5	505.8	633.5	548.8	470.0	472.7	450.2
72.5°	2981.6	2172.0	414.4	382.6	362.1	454.8	606.4	522.3	444.9	429.6	407.1
75°	1461.0	1083.0	361.4	352.8	317.1	395.9	569.3	497.2	417.7	393.9	381.3
77.5°	566.0	460.7	308.5	315.1	276.1	348.9	520.3	461.4	382.0	349.5	339.6
80°	274.7	261.5	252.9	262.8	227.1	297.2	475.3	430.3	348.9	313.1	298.6
82.5°	170.8	161.5	194.0	204.6	174.8	271.4	450.8	403.8	307.2	259.5	247.6
85°	86.7	92.7	129.8	139.7	125.1	215.8	371.4	303.2	221.8	184.0	185.4
87.5°	33.1	44.4	68.2	73.5	66.9	113.9	204.6	176.8	142.3	96.7	89.4
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)