

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: P522669

Luminaire Tested: **GALN-SA2C-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522669
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-SA2C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12885 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108
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

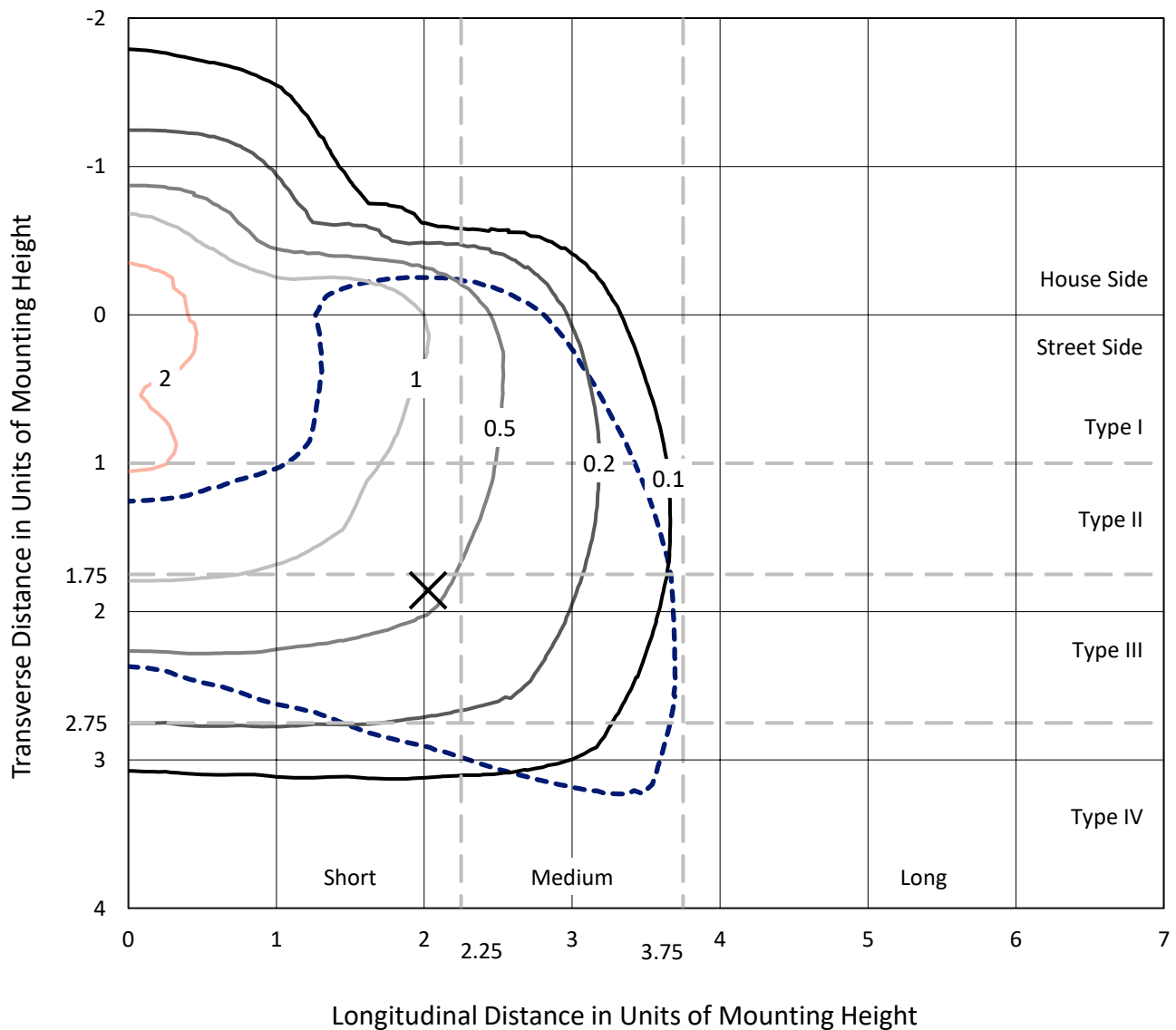


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

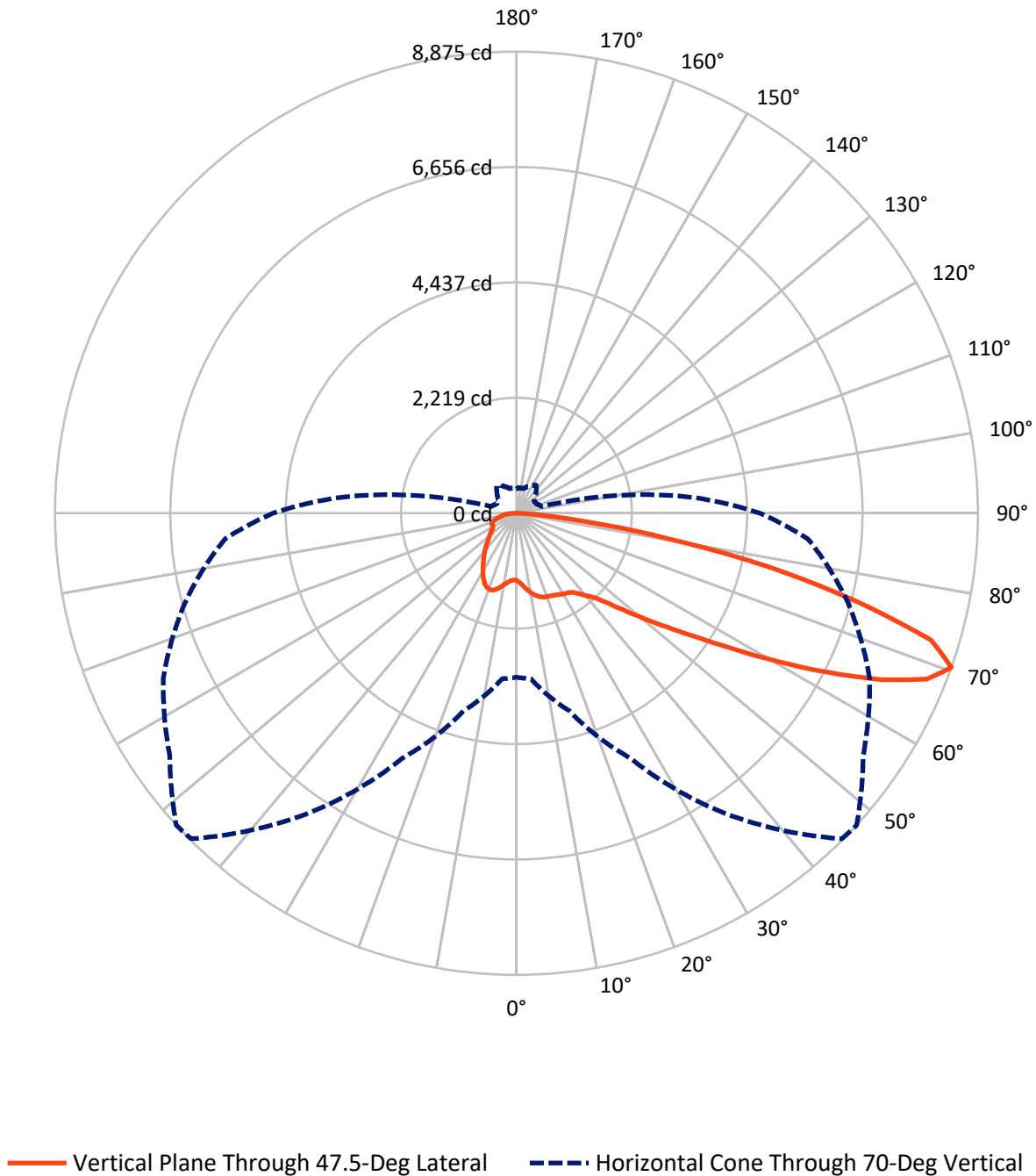


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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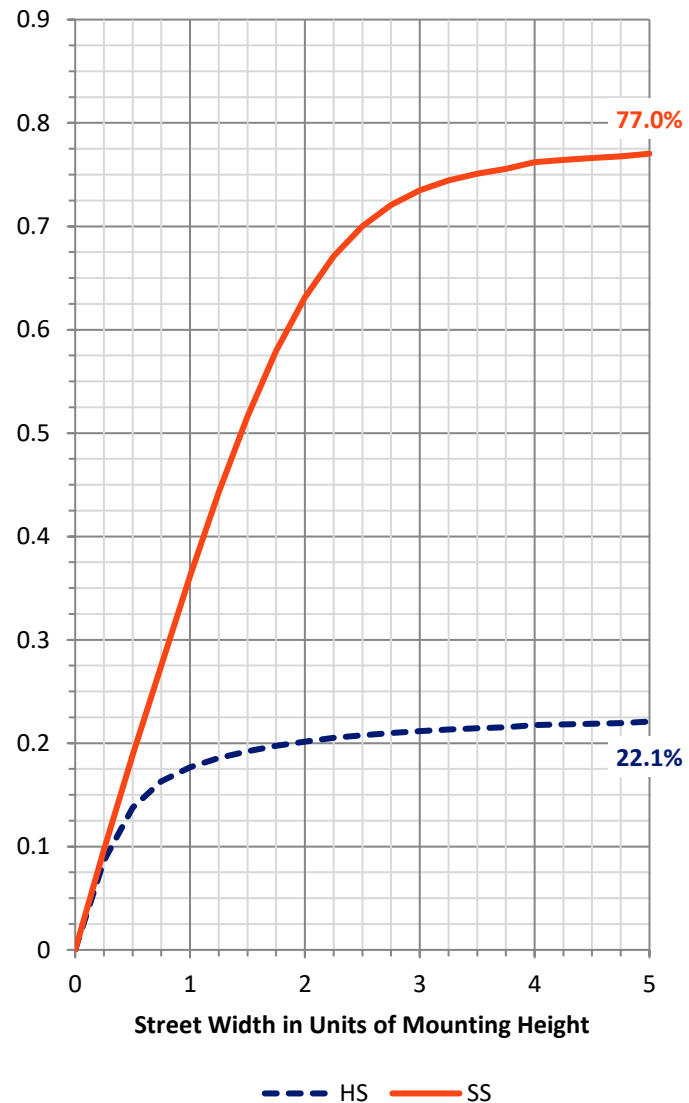
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.4	0.0	2917.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9967.6	0.0	9967.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	12885.0	0.0	12885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.0
10°-20°	445.7	3.5
20°-30°	741.3	5.8
30°-40°	1050.6	8.2
40°-50°	1551.0	12.0
50°-60°	2686.3	20.8
60°-70°	3794.5	29.4
70°-80°	2181.3	16.9
80°-90°	301.0	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°	12885.0	100.0
0°-180°	12885.0	100.0

Coefficient of Utilization



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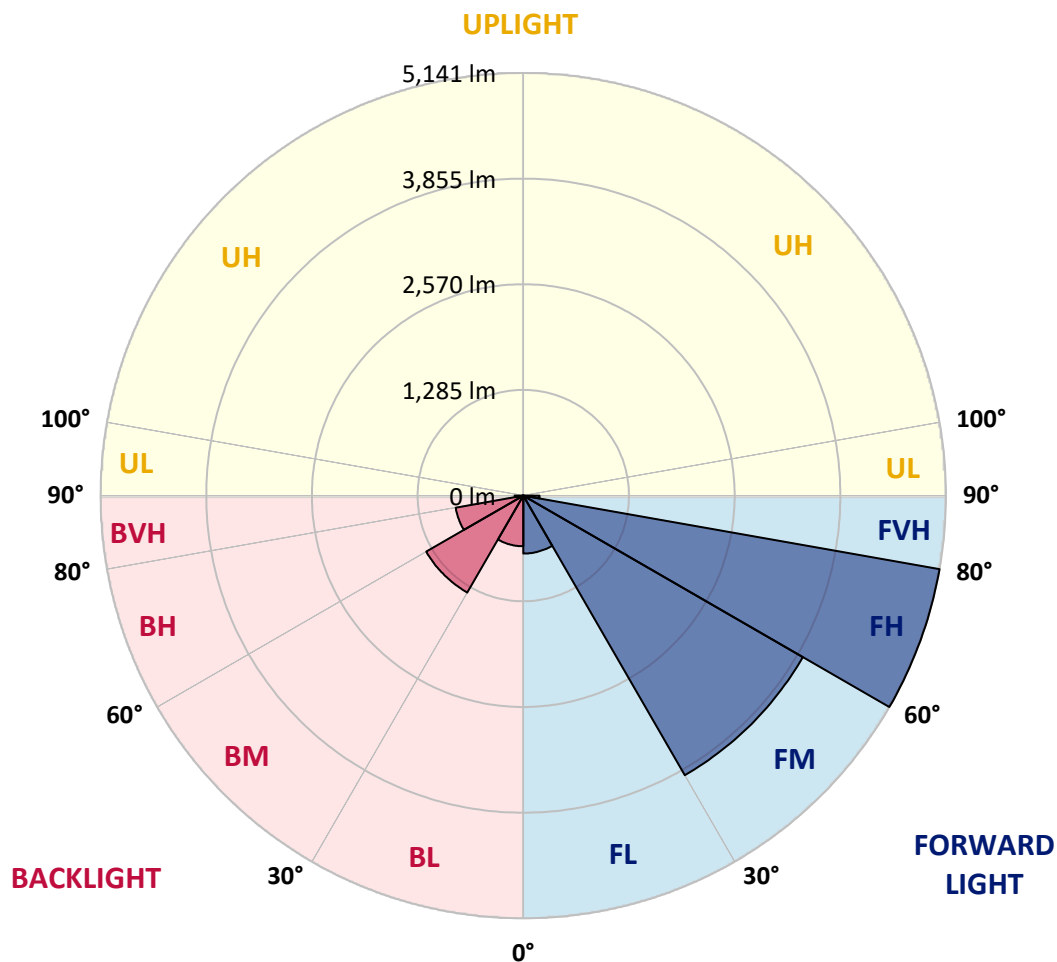
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	704.6	5.5			
FM	(30°-60°)	3925.8	30.5			
FH	(60°-80°)	5140.6	39.9			G3/7500
FVH	(80°-90°)	196.6	1.5			G2/225
BL	(0°-30°)	615.7	4.8	B2/1000		
BM	(30°-60°)	1362.1	10.6	B2/2500		
BH	(60°-80°)	835.2	6.5	B2/1000		G2/1000
BVH	(80°-90°)	104.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5
2.5°	1376.9	1372.1	1371.4	1361.1	1355.6	1345.2	1341.1	1331.4	1319.7	1308.0	1296.9
5°	1485.2	1485.2	1480.4	1465.9	1443.1	1419.7	1409.3	1390.7	1357.6	1330.7	1308.0
7.5°	1596.2	1597.6	1587.9	1566.5	1534.1	1496.2	1486.6	1459.0	1412.1	1372.8	1339.0
10°	1692.0	1692.0	1678.9	1650.0	1609.3	1567.9	1558.3	1527.2	1474.8	1425.9	1381.8
12.5°	1765.1	1765.1	1747.9	1710.0	1665.8	1628.6	1617.6	1587.9	1539.0	1484.5	1428.6
15°	1812.7	1809.2	1789.9	1747.2	1704.4	1672.0	1664.4	1639.6	1594.8	1539.6	1476.9
17.5°	1814.8	1813.4	1794.8	1758.9	1721.7	1699.6	1694.8	1678.2	1643.1	1590.7	1524.5
20°	1774.8	1777.5	1765.1	1739.6	1721.7	1712.0	1710.0	1704.4	1679.6	1630.7	1564.5
22.5°	1732.0	1736.8	1725.1	1711.3	1710.0	1719.6	1721.0	1722.4	1706.5	1658.9	1598.3
25°	1721.7	1725.1	1713.4	1701.0	1708.6	1734.1	1739.6	1745.1	1732.7	1692.7	1638.2
27.5°	1774.1	1771.3	1748.6	1721.7	1726.5	1761.0	1768.6	1774.8	1768.6	1734.1	1687.9
30°	1922.3	1913.4	1867.9	1789.2	1764.4	1788.6	1796.1	1813.4	1813.4	1787.9	1741.7
32.5°	2170.5	2153.3	2069.9	1915.4	1829.2	1814.8	1822.3	1850.6	1865.1	1845.1	1794.8
35°	2471.9	2453.9	2334.6	2127.1	1947.8	1867.2	1865.1	1896.8	1935.4	1890.6	1825.1
37.5°	2774.5	2755.9	2612.5	2379.5	2120.9	1977.5	1965.1	1976.1	1992.7	1910.6	1867.2
40°	3077.2	3055.2	2929.7	2661.5	2332.6	2123.7	2091.2	2041.6	2034.7	1976.1	1948.5
42.5°	3377.2	3357.2	3293.7	2977.9	2586.3	2266.4	2216.7	2131.2	2157.4	2122.3	2098.1
45°	3679.9	3681.2	3613.7	3333.0	2892.4	2529.8	2462.9	2329.1	2391.2	2378.1	2391.9
47.5°	3948.1	3944.6	3920.5	3677.8	3272.4	2869.0	2782.8	2627.7	2733.9	2782.1	2887.6
50°	4208.0	4205.9	4207.3	4068.7	3713.6	3272.4	3177.2	3014.5	3253.7	3421.3	3610.2
52.5°	4580.3	4592.1	4508.6	4472.1	4250.1	3748.8	3644.0	3475.8	3868.1	4132.2	4501.0
55°	4954.0	4944.4	4878.9	4916.8	4811.3	4312.8	4203.2	4069.4	4552.1	4841.0	5395.3
57.5°	5174.0	5177.4	5244.3	5429.8	5504.3	5016.1	4916.8	4813.4	5320.9	5525.6	6191.0
60°	5371.9	5387.7	5580.1	5930.4	6132.4	5880.0	5791.8	5691.1	6026.2	6107.6	6881.9
62.5°	5433.9	5482.9	5818.7	6342.7	6744.7	6855.0	6745.4	6523.3	6697.8	6666.1	7350.1
65°	5124.4	5191.2	5793.2	6497.1	7291.4	7780.3	7710.7	7298.3	7270.1	7079.1	7426.6
67.5°	4309.4	4376.2	5149.2	6173.1	7517.6	8581.5	8511.9	7863.7	7617.6	7117.7	6847.4
70°	3153.1	3195.1	3934.3	5197.4	7063.2	8850.4	8874.5	8139.5	7493.5	6593.0	5622.2
72.5°	1816.8	1909.9	2427.7	3656.4	5770.4	8170.6	8338.1	7565.9	6708.8	5500.1	3930.8
75°	781.2	783.3	1122.5	2016.8	3908.1	6567.5	6729.5	6271.7	5268.5	3803.3	2098.8
77.5°	371.6	378.5	493.7	900.5	2151.2	4537.6	4974.7	4430.7	3369.6	1827.2	792.9
80°	241.3	246.2	302.0	446.8	1054.9	2631.1	2935.9	2556.0	1486.6	653.0	342.0
82.5°	146.2	147.6	202.0	273.0	580.6	1191.5	1404.5	1109.4	634.3	390.9	201.3
85°	88.9	89.6	122.7	168.9	352.3	411.6	422.7	419.2	372.3	255.8	107.6
87.5°	42.7	44.1	63.4	80.0	138.6	127.6	120.7	140.0	175.8	137.9	46.2
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°	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5	1293.5
2.5°	1292.1	1290.1	1285.2	1283.2	1281.8	1282.5	1281.8	1281.8	1282.5	1282.5	1282.5
5°	1298.3	1294.9	1287.3	1287.3	1291.4	1301.1	1310.0	1316.9	1324.5	1323.8	1323.8
7.5°	1325.2	1319.0	1310.0	1312.8	1323.1	1338.3	1354.2	1369.3	1384.5	1385.9	1385.2
10°	1364.5	1358.3	1348.7	1352.1	1368.7	1391.4	1411.4	1433.5	1450.0	1454.8	1453.5
12.5°	1409.3	1396.9	1388.6	1398.3	1424.5	1454.8	1474.1	1490.7	1502.4	1509.3	1506.6
15°	1454.8	1443.1	1433.5	1453.5	1485.2	1513.4	1523.1	1525.9	1527.9	1534.8	1533.4
17.5°	1499.0	1483.1	1479.7	1505.9	1536.2	1548.6	1543.1	1531.4	1522.4	1527.9	1527.2
20°	1538.3	1525.9	1524.5	1550.7	1562.4	1550.7	1527.2	1506.6	1490.7	1492.1	1491.4
22.5°	1575.5	1565.9	1567.2	1578.3	1559.6	1519.7	1481.0	1452.8	1435.5	1439.0	1441.1
25°	1616.9	1607.2	1610.7	1592.7	1531.4	1461.7	1405.9	1381.8	1374.9	1381.8	1386.6
27.5°	1670.7	1664.4	1662.4	1593.4	1481.0	1376.2	1312.8	1303.8	1310.0	1325.2	1332.8
30°	1728.6	1728.6	1717.5	1581.7	1412.1	1273.5	1218.3	1219.7	1241.1	1262.5	1270.1
32.5°	1784.4	1796.1	1761.7	1550.0	1323.1	1173.5	1131.5	1132.8	1151.5	1177.7	1184.6
35°	1830.6	1864.4	1799.6	1492.1	1218.3	1089.4	1057.7	1039.1	1039.8	1059.8	1065.3
37.5°	1894.1	1956.8	1821.7	1405.9	1106.6	1017.7	981.8	949.4	928.1	919.8	919.8
40°	2004.4	2096.8	1827.2	1278.3	1001.2	949.4	898.4	859.8	818.4	781.2	774.3
42.5°	2191.2	2307.8	1816.1	1131.5	906.0	874.3	824.6	777.1	719.8	667.4	663.3
45°	2522.2	2582.2	1786.5	979.1	821.2	801.9	753.6	701.9	641.2	594.3	590.9
47.5°	3052.4	2967.6	1747.2	843.9	744.0	738.5	701.2	641.2	580.6	548.2	544.7
50°	3826.7	3574.4	1741.7	746.0	681.9	684.7	654.3	599.2	546.1	519.2	515.1
52.5°	4758.9	4307.3	1778.2	677.1	627.4	637.8	622.6	571.6	524.7	502.0	497.8
55°	5663.5	4966.5	1800.3	623.3	576.4	595.7	597.8	555.0	512.3	489.5	486.8
57.5°	6397.9	5462.9	1702.4	574.4	532.3	561.9	577.1	545.4	506.1	488.9	486.1
60°	6908.8	5697.3	1423.8	530.9	499.9	535.1	569.5	546.1	521.3	523.3	524.7
62.5°	7071.5	5593.2	1068.0	498.5	477.8	526.1	581.9	574.4	548.8	564.7	567.5
65°	6801.9	5163.0	774.3	473.0	458.5	532.3	619.2	595.0	539.2	550.9	550.9
67.5°	5899.3	4448.0	602.6	449.6	436.5	544.0	656.4	593.0	516.4	530.2	517.8
70°	4679.6	3440.6	502.0	423.4	413.0	526.8	659.8	571.6	489.5	492.3	468.9
72.5°	3105.5	2262.2	431.6	398.5	377.2	473.7	631.6	544.0	463.3	447.5	424.0
75°	1521.7	1128.0	376.5	367.5	330.3	412.3	593.0	517.8	435.1	410.3	397.2
77.5°	589.5	479.9	321.3	328.2	287.5	363.4	541.9	480.6	397.8	364.1	353.7
80°	286.1	272.4	263.4	273.7	236.5	309.6	495.1	448.2	363.4	326.1	311.0
82.5°	177.9	168.2	202.0	213.1	182.0	282.7	469.5	420.6	319.9	270.3	257.9
85°	90.3	96.5	135.1	145.5	130.3	224.8	386.8	315.8	231.0	191.7	193.1
87.5°	34.5	46.2	71.0	76.5	69.6	118.6	213.1	184.1	148.2	100.7	93.1
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)