

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: P194891

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T4W-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11889 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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: 25 FT



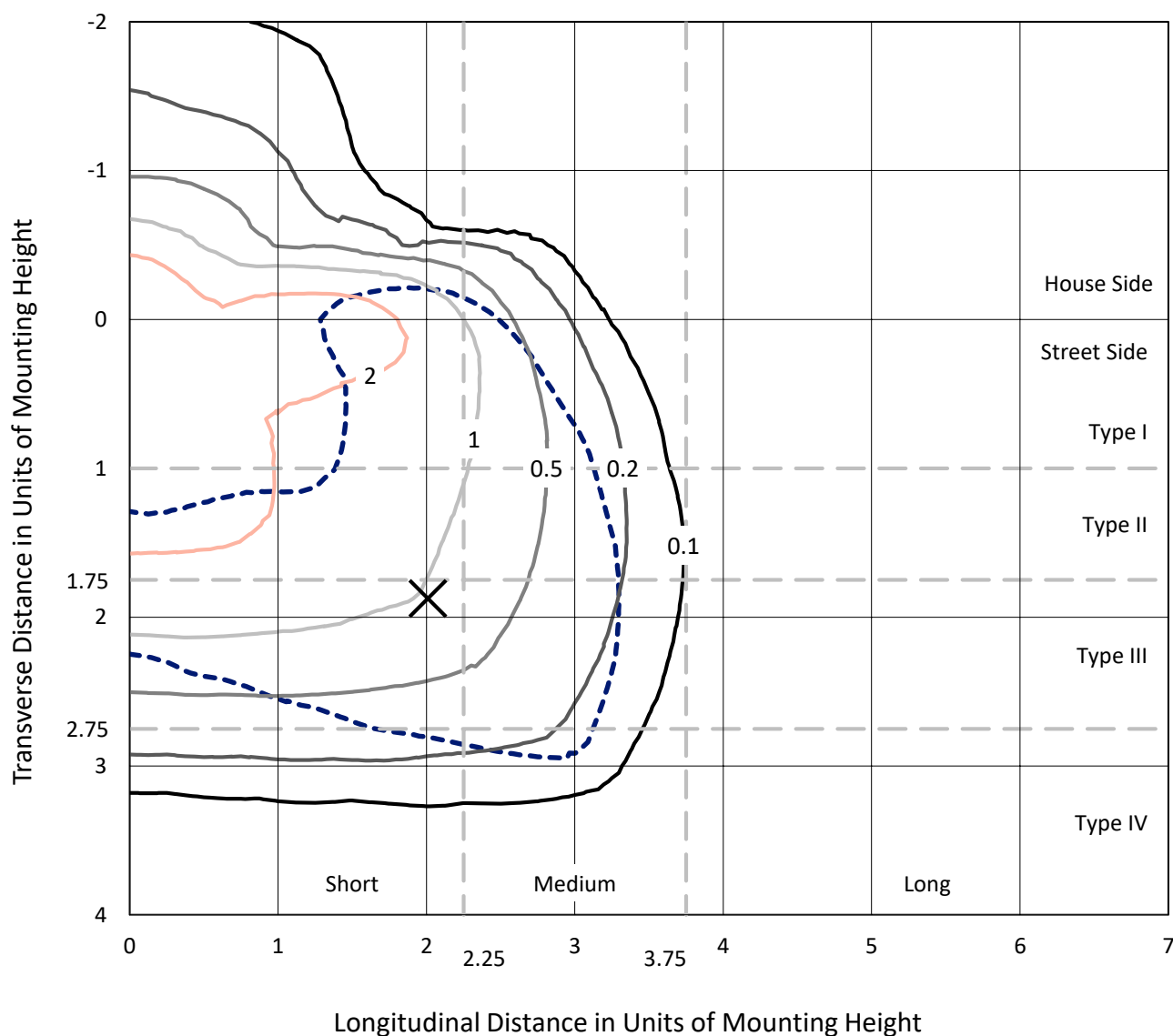
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

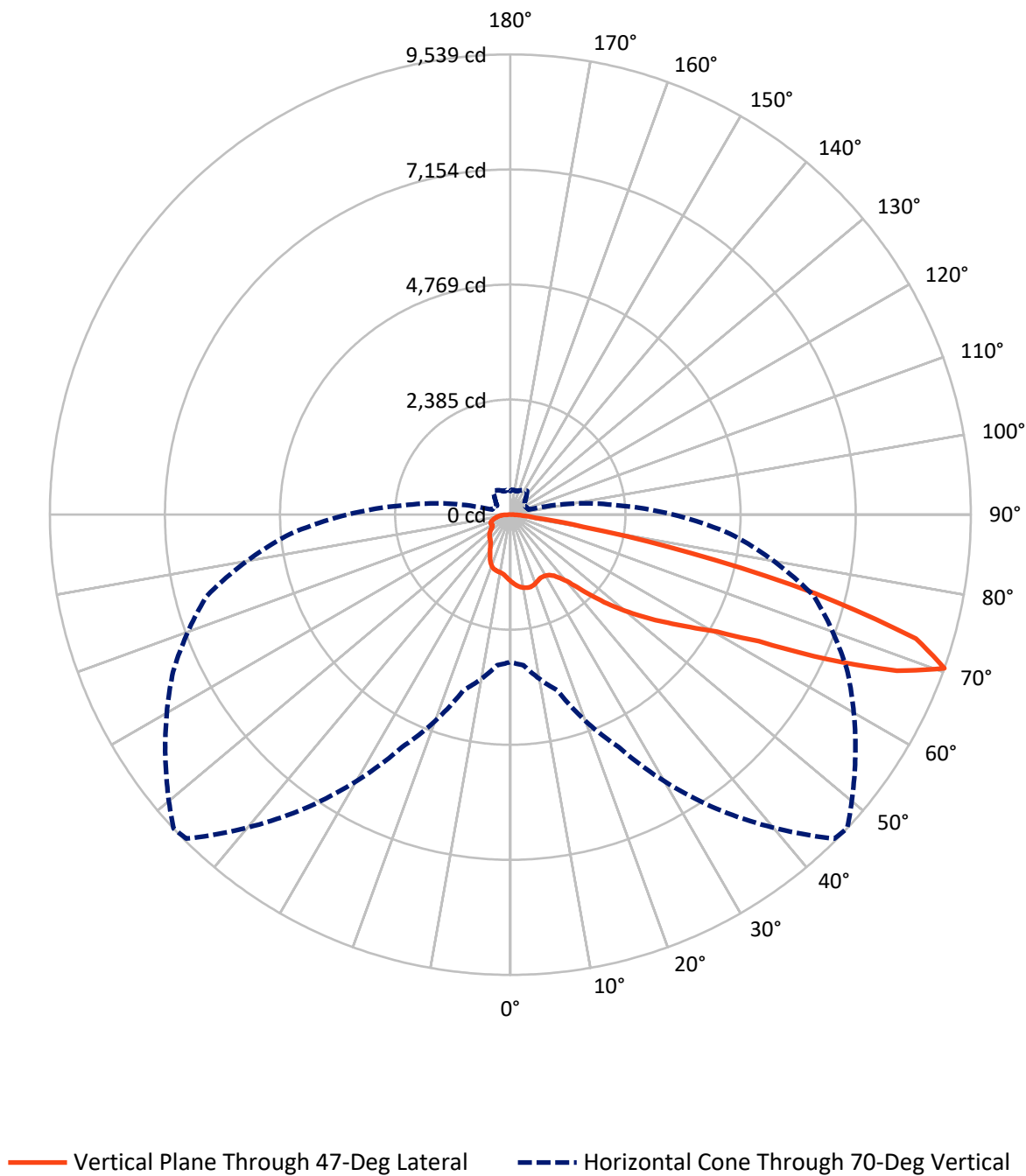


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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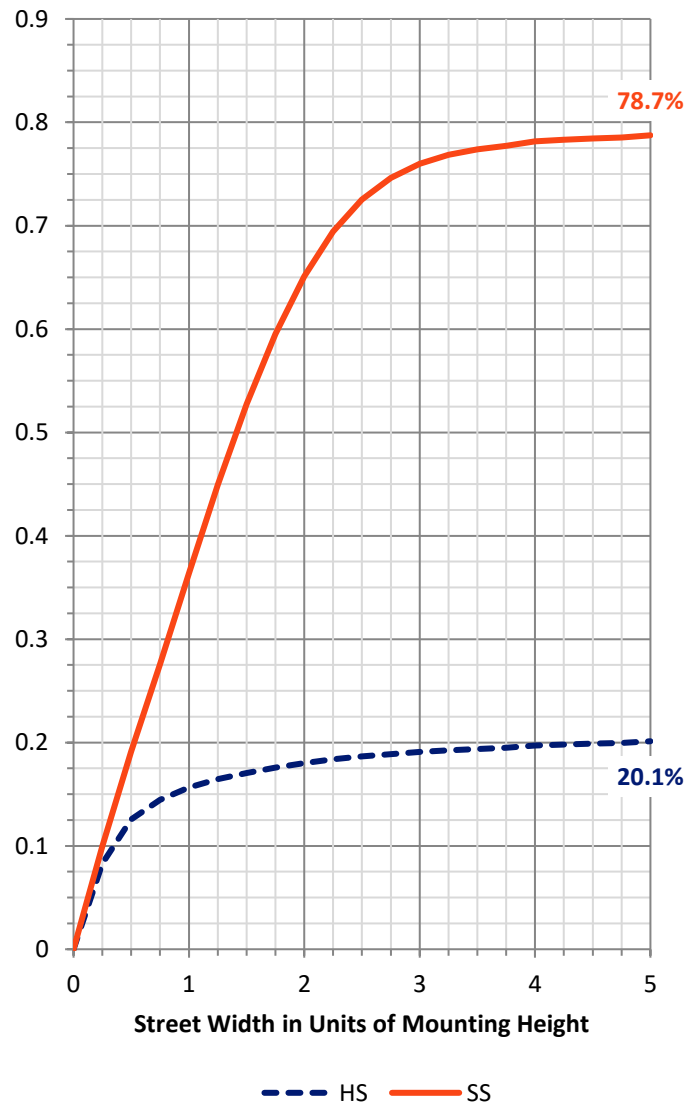
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2480.3	0.0	2480.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9408.7	0.0	9408.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	11889.0	0.0	11889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	1.1
10°-20°	387.8	3.3
20°-30°	572.6	4.8
30°-40°	832.3	7.0
40°-50°	1497.9	12.6
50°-60°	2594.9	21.8
60°-70°	3703.7	31.2
70°-80°	1901.3	16.0
80°-90°	266.2	2.2
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°	11889.0	100.0
0°-180°	11889.0	100.0

Coefficient of Utilization



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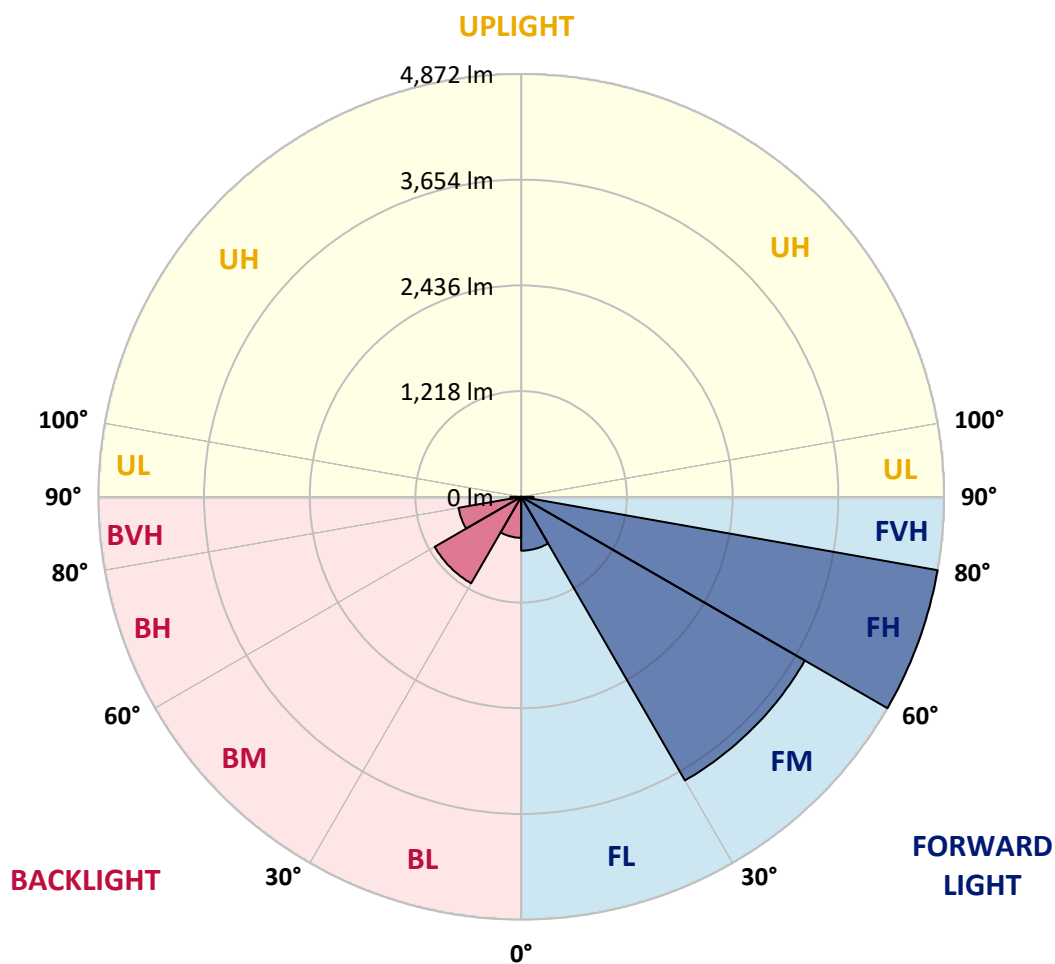
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	620.3	5.2			
FM	(30°-60°)	3773.9	31.7			
FH	(60°-80°)	4872.4	41.0			G2/5000
FVH	(80°-90°)	142.0	1.2			G2/225
BL	(0°-30°)	472.3	4.0	B1/500		
BM	(30°-60°)	1151.3	9.7	B2/2500		
BH	(60°-80°)	732.6	6.2	B2/1000		G2/1000
BVH	(80°-90°)	124.1	1.0			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°	55°	65°	75°	85°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1460.5	1457.6	1456.4	1454.1	1451.2	1436.8	1433.9	1423.5	1409.0	1394.0	1378.3
5°	1556.5	1555.9	1549.5	1538.0	1519.5	1487.7	1480.1	1454.7	1420.6	1387.6	1354.6
7.5°	1640.9	1635.7	1623.6	1600.4	1568.1	1524.7	1514.3	1479.0	1432.1	1387.0	1342.5
10°	1702.8	1699.9	1673.3	1641.5	1599.3	1551.3	1539.1	1499.8	1448.3	1391.1	1335.5
12.5°	1738.1	1732.3	1701.7	1663.5	1613.2	1566.3	1554.2	1514.3	1456.4	1391.1	1325.7
15°	1735.8	1731.7	1701.1	1659.4	1608.5	1567.5	1556.5	1516.6	1454.7	1385.3	1313.0
17.5°	1689.5	1691.3	1665.2	1624.2	1582.5	1551.3	1541.4	1504.4	1443.1	1373.7	1297.9
20°	1608.5	1616.6	1599.3	1562.8	1539.7	1518.3	1511.9	1480.7	1425.2	1356.9	1281.7
22.5°	1527.6	1535.1	1528.1	1497.5	1494.0	1481.3	1477.8	1455.3	1409.6	1346.5	1271.9
25°	1468.0	1474.9	1473.8	1447.2	1457.6	1457.0	1454.1	1443.1	1406.1	1346.5	1273.6
27.5°	1451.8	1454.1	1451.8	1427.5	1442.0	1453.5	1451.2	1449.5	1416.5	1363.3	1295.6
30°	1507.3	1503.9	1485.9	1436.8	1450.1	1466.3	1463.9	1465.1	1447.7	1407.3	1344.8
32.5°	1728.9	1713.2	1656.5	1518.3	1483.0	1491.7	1492.9	1511.9	1514.8	1474.9	1421.1
35°	2060.3	2042.9	1969.5	1736.9	1585.4	1555.3	1555.3	1584.2	1601.6	1572.1	1539.7
37.5°	2411.4	2392.3	2352.9	2040.0	1800.6	1665.8	1662.9	1683.2	1708.0	1715.0	1723.1
40°	2810.5	2790.2	2801.2	2380.1	2100.8	1857.3	1816.2	1801.7	1868.8	1913.4	1978.1
42.5°	3247.2	3237.9	3242.0	2759.0	2442.6	2143.6	2085.1	2010.5	2091.5	2170.8	2306.7
45°	3651.5	3659.6	3655.5	3164.4	2823.2	2492.9	2431.0	2286.4	2365.7	2501.6	2723.1
47.5°	4005.4	3971.9	4024.0	3607.5	3249.5	2883.9	2807.6	2613.8	2694.2	2861.9	3236.8
50°	4435.2	4430.6	4354.2	4198.6	3764.8	3276.7	3176.6	2952.2	3077.1	3310.2	3884.0
52.5°	4886.9	4803.1	4733.1	4658.5	4311.4	3679.2	3556.6	3289.4	3527.1	3820.4	4672.9
55°	4979.5	4941.9	5028.6	5154.2	4838.4	4097.4	3954.5	3712.2	4033.8	4403.4	5582.8
57.5°	5177.3	5176.7	5356.0	5579.9	5380.9	4541.1	4397.0	4222.9	4603.5	5071.4	6548.7
60°	5310.9	5348.5	5681.7	6116.0	5913.6	5053.5	4921.1	4812.3	5251.3	5818.2	7448.7
62.5°	5380.9	5431.8	5886.4	6333.5	6666.7	5906.7	5774.2	5617.5	6108.5	6637.2	7975.0
65°	5090.0	5190.0	5854.6	6521.5	7326.1	7289.6	7230.1	6954.7	7180.3	7284.4	7784.7
67.5°	4284.8	4387.2	5161.1	6346.3	7796.9	8623.4	8636.2	8165.9	7839.7	7339.9	6545.2
70°	3052.8	3133.2	3773.5	5320.7	7438.3	9495.1	9538.5	8724.1	7708.4	6509.4	4572.9
72.5°	1449.5	1498.6	2104.8	3462.9	5902.6	8699.8	8783.6	8011.5	6554.5	4819.3	2494.7
75°	532.7	547.7	711.4	1473.2	3423.6	6415.7	6514.6	5743.0	4345.0	2399.2	950.3
77.5°	319.3	329.1	399.1	621.8	1346.5	3667.1	3813.4	3123.4	1898.9	893.1	467.4
80°	223.3	230.2	286.3	387.0	636.2	1397.4	1527.6	1274.8	756.6	565.1	340.1
82.5°	151.0	154.4	201.3	261.4	422.8	499.2	538.5	566.8	510.2	420.5	215.7
85°	98.9	102.4	136.5	172.4	269.0	258.0	263.8	333.7	372.5	285.7	119.7
87.5°	56.7	59.0	82.1	92.0	131.9	109.3	110.5	175.8	238.3	192.6	72.9
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°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1374.3	1366.8	1350.0	1339.6	1329.8	1327.4	1323.4	1322.8	1322.2	1322.2	1320.5
5°	1343.6	1330.9	1304.9	1290.4	1278.3	1277.1	1276.5	1279.4	1280.6	1281.7	1280.0
7.5°	1324.0	1306.6	1274.2	1253.4	1238.9	1235.5	1241.3	1254.6	1263.2	1266.7	1265.0
10°	1311.8	1290.4	1252.8	1230.3	1218.1	1216.4	1223.9	1239.5	1257.5	1264.4	1263.8
12.5°	1297.9	1273.6	1233.7	1210.0	1203.1	1206.6	1216.4	1230.8	1249.4	1260.3	1260.9
15°	1284.1	1255.7	1214.6	1193.8	1190.9	1195.6	1204.8	1215.8	1230.3	1241.3	1242.4
17.5°	1267.3	1237.8	1196.7	1175.3	1173.0	1175.3	1175.9	1181.7	1190.9	1201.3	1204.2
20°	1249.4	1219.3	1176.5	1155.1	1144.7	1135.4	1125.0	1126.2	1129.0	1139.5	1141.8
22.5°	1236.6	1206.6	1160.9	1131.4	1103.6	1075.8	1055.0	1052.1	1053.3	1062.0	1064.8
25°	1237.8	1206.0	1156.8	1105.9	1045.2	1000.6	972.9	968.2	967.7	974.0	978.1
27.5°	1260.3	1228.5	1171.8	1079.9	981.6	915.6	886.1	882.6	878.0	879.8	884.4
30°	1310.7	1281.2	1208.3	1053.3	912.7	832.3	801.7	798.2	791.8	788.9	792.4
32.5°	1392.8	1368.5	1261.5	1027.8	843.9	761.2	729.9	722.4	718.4	714.9	717.8
35°	1529.3	1518.9	1332.6	1000.1	783.2	706.2	677.9	666.3	660.5	666.9	671.5
37.5°	1743.3	1749.1	1425.8	956.7	736.3	669.8	646.1	632.8	624.1	629.3	634.5
40°	2046.4	2050.4	1528.7	895.4	695.8	648.4	622.9	610.8	598.6	589.4	588.8
42.5°	2444.3	2403.3	1629.9	828.9	649.0	635.1	606.7	591.7	573.2	547.7	542.5
45°	2916.3	2772.3	1706.9	752.5	596.3	618.9	588.8	568.0	539.1	511.3	508.4
47.5°	3460.0	3168.5	1744.5	673.3	547.2	595.2	566.8	533.9	497.4	483.5	481.8
50°	4124.0	3638.7	1762.4	596.3	504.4	563.9	535.0	496.3	465.6	462.7	461.0
52.5°	4880.0	4204.4	1768.2	533.3	469.1	523.5	509.0	471.4	447.1	449.4	449.4
55°	5671.3	4788.6	1689.5	487.6	436.7	481.8	491.6	461.6	441.3	450.6	454.0
57.5°	6397.7	5306.3	1442.0	452.3	406.0	450.0	485.3	470.8	456.9	494.5	496.8
60°	6955.3	5612.3	1077.0	420.5	383.5	439.0	502.1	506.1	509.6	599.2	611.4
62.5°	7072.1	5510.5	740.4	395.6	373.1	448.3	532.7	533.3	529.2	591.7	599.2
65°	6536.0	4866.7	538.5	381.7	364.4	465.0	558.7	546.6	520.0	567.4	553.5
67.5°	5190.6	3666.5	448.3	371.3	351.7	463.9	586.5	558.7	514.8	555.8	533.3
70°	3369.2	2217.0	399.1	362.7	336.6	441.9	602.7	557.6	499.7	517.1	490.5
72.5°	1643.8	991.4	366.1	349.9	321.0	411.2	602.1	547.2	484.1	483.0	468.5
75°	643.2	454.0	336.1	330.8	294.4	376.5	585.9	532.1	465.6	447.1	441.9
77.5°	376.5	323.9	297.9	302.5	262.6	341.8	562.2	506.1	440.2	418.2	412.4
80°	274.2	242.4	253.9	261.4	224.4	307.1	530.4	474.3	411.8	422.8	414.7
82.5°	175.8	156.2	205.9	213.4	186.8	271.8	495.7	440.7	371.9	337.8	329.7
85°	89.7	98.9	153.3	162.5	144.0	223.3	453.5	396.2	326.8	281.1	285.7
87.5°	50.3	67.7	97.8	109.3	101.8	171.8	367.9	326.8	266.6	216.9	190.9
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)