

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: P193291

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193291
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 11498.5 lumens
Efficiency: N/A
Efficacy: 119.8 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



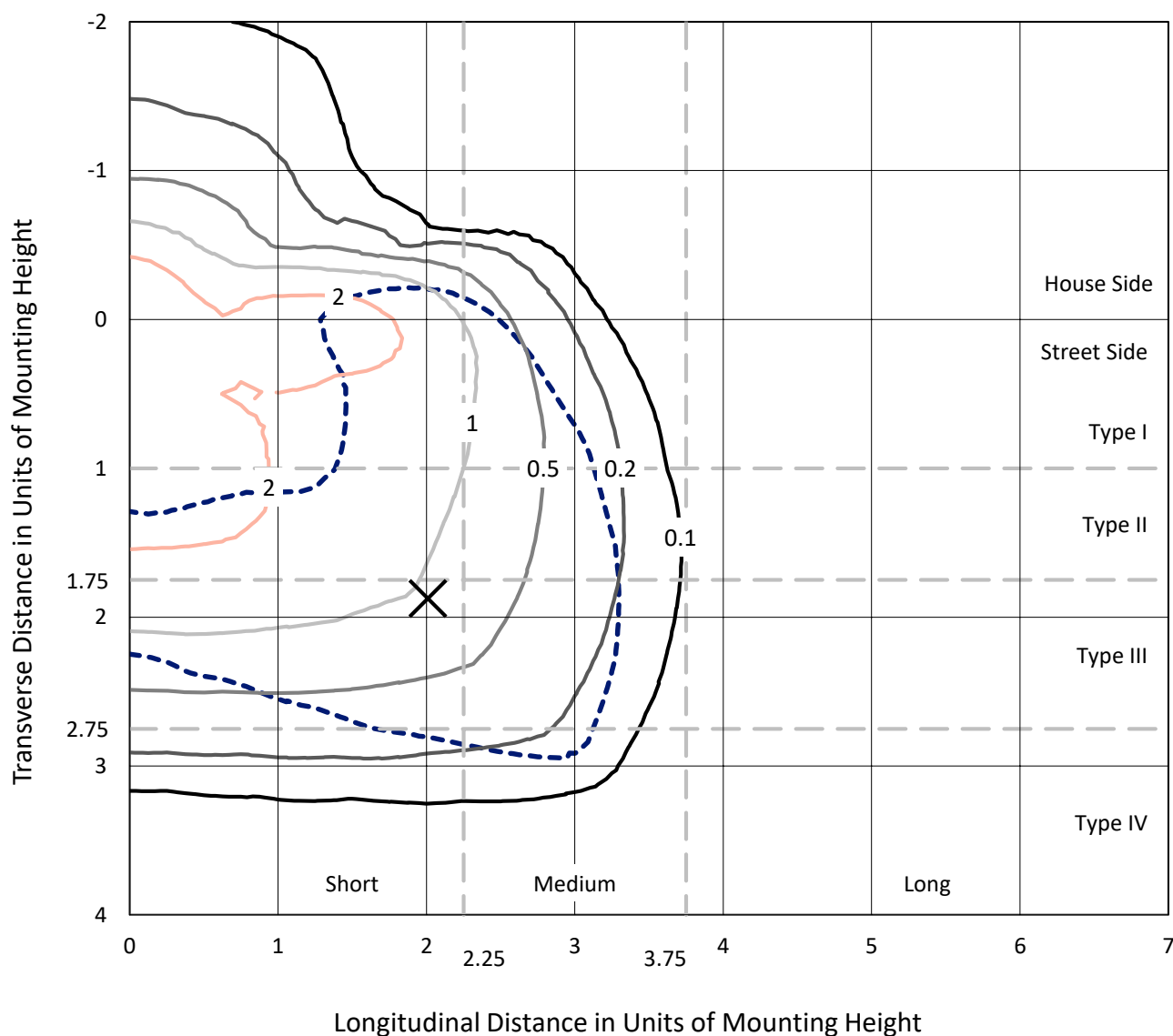
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

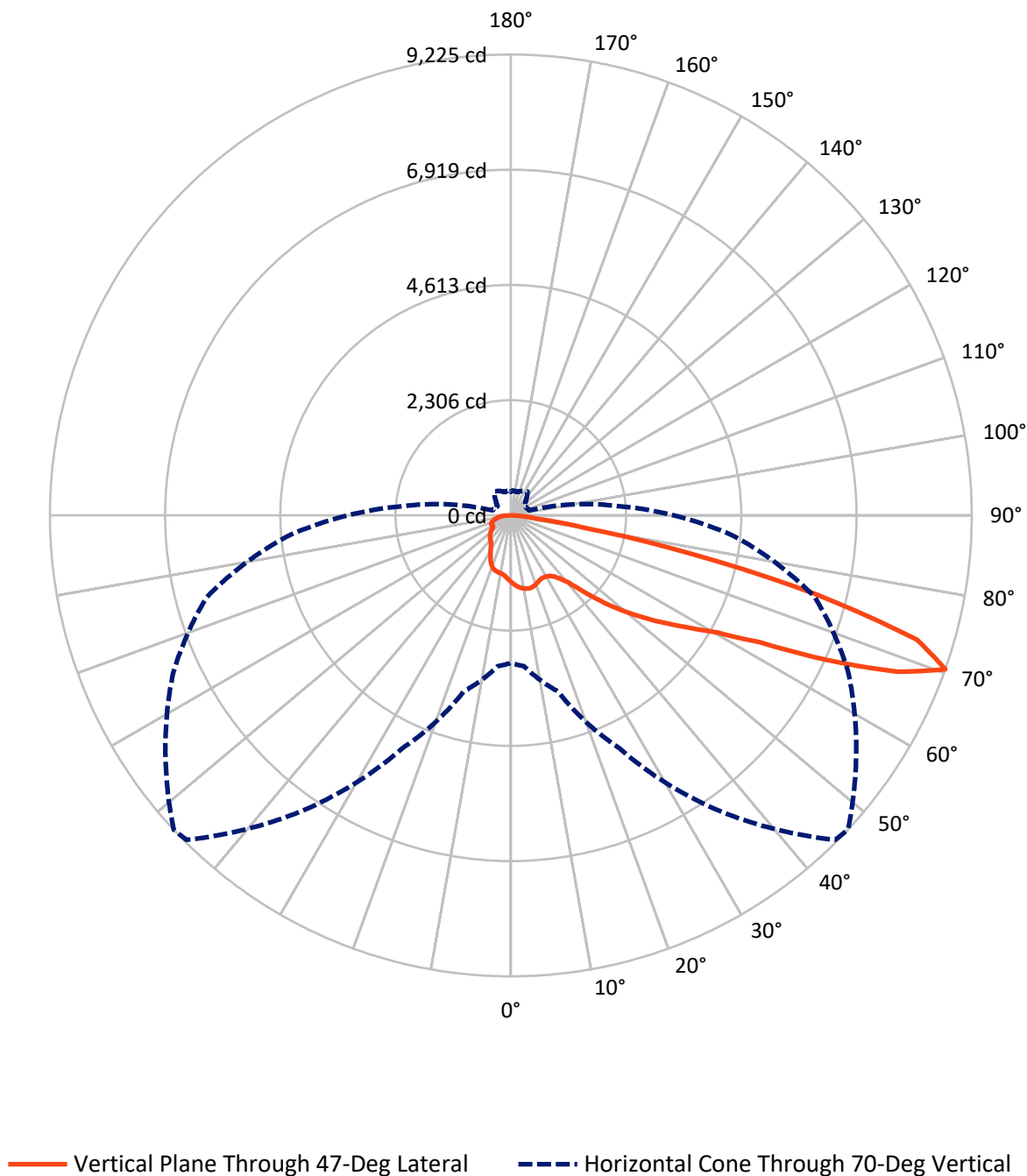


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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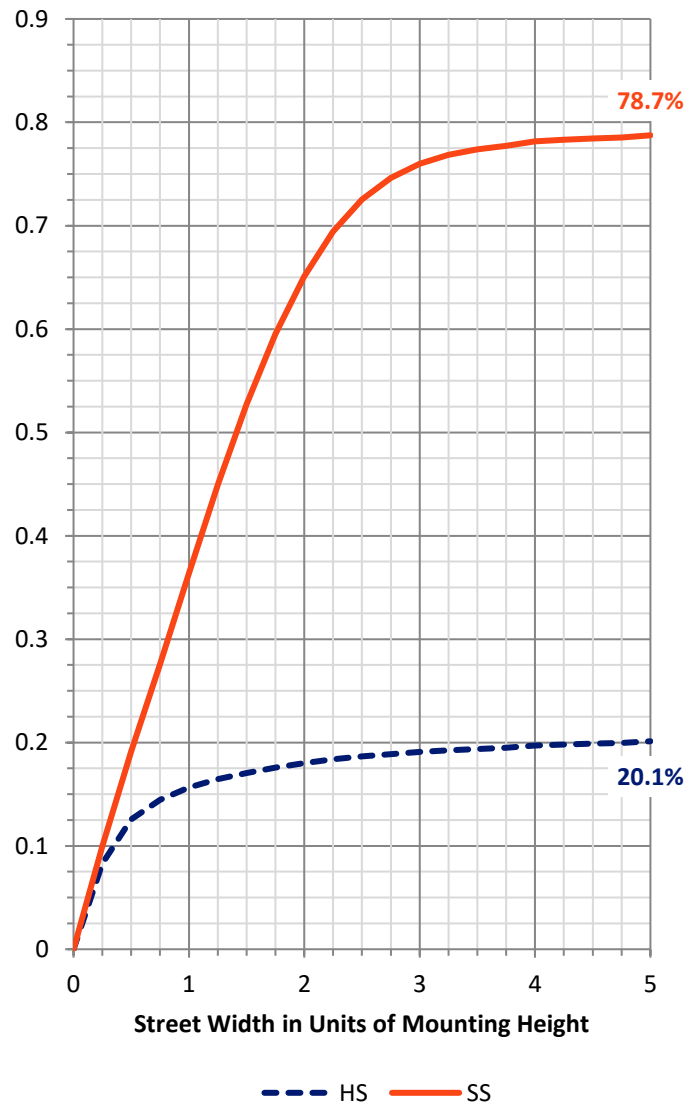
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2398.8	0.0	2398.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9099.7	0.0	9099.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	11498.5	0.0	11498.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.1
10°-20°	375.0	3.3
20°-30°	553.8	4.8
30°-40°	805.0	7.0
40°-50°	1448.7	12.6
50°-60°	2509.7	21.8
60°-70°	3582.1	31.2
70°-80°	1838.8	16.0
80°-90°	257.4	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°	11498.5	100.0
0°-180°	11498.5	100.0

Coefficient of Utilization



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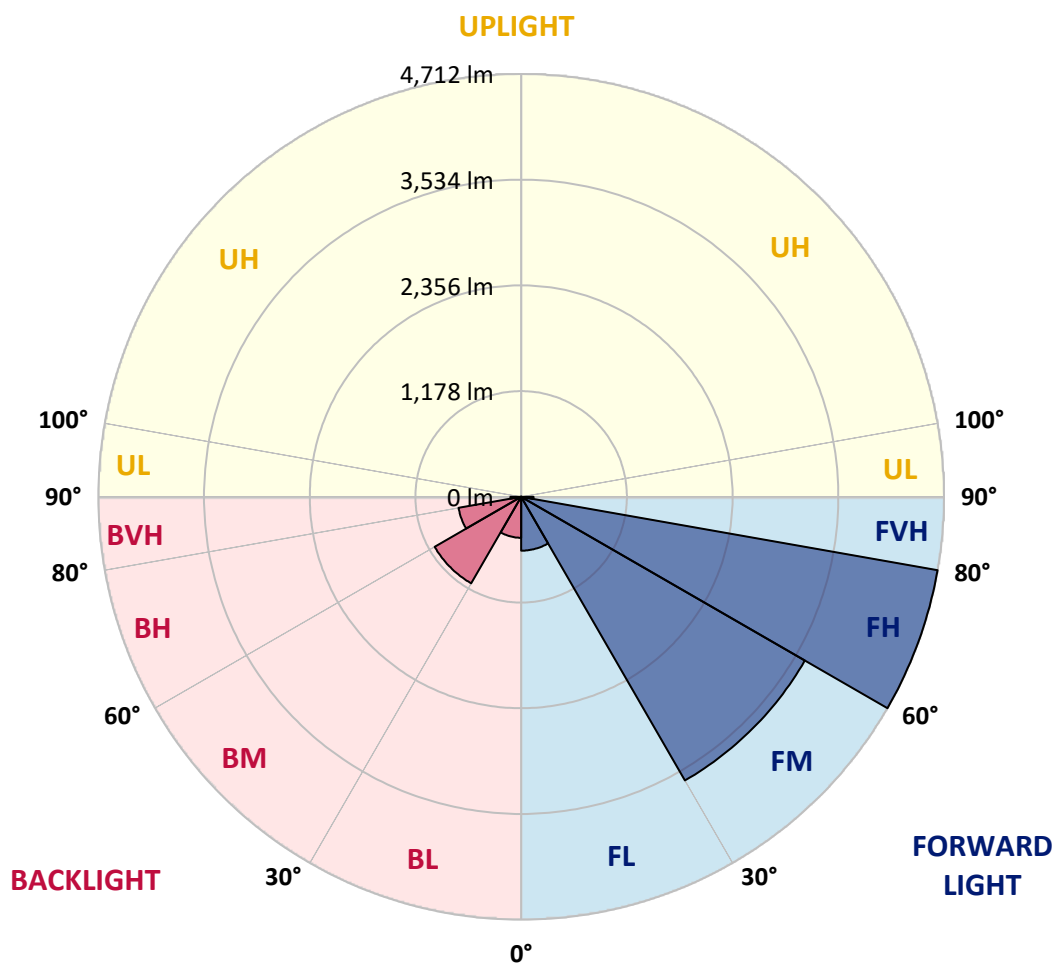
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	600.0	5.2			
FM	(30°-60°)	3649.9	31.7			
FH	(60°-80°)	4712.4	41.0			G2/5000
FVH	(80°-90°)	137.4	1.2			G2/225
BL	(0°-30°)	456.7	4.0	B1/500		
BM	(30°-60°)	1113.5	9.7	B2/2500		
BH	(60°-80°)	708.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	120.1	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°	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2
2.5°	1412.5	1409.7	1408.6	1406.3	1403.6	1389.6	1386.7	1376.6	1362.7	1348.1	1333.1
5°	1505.4	1504.8	1498.6	1487.4	1469.5	1438.8	1431.6	1406.9	1373.9	1342.0	1310.1
7.5°	1587.0	1582.0	1570.3	1547.8	1516.5	1474.6	1464.5	1430.4	1385.1	1341.4	1298.3
10°	1646.9	1644.2	1618.3	1587.5	1546.8	1500.3	1488.5	1450.5	1400.7	1345.4	1291.7
12.5°	1681.0	1675.4	1645.8	1608.9	1560.2	1514.9	1503.1	1464.5	1408.6	1345.4	1282.1
15°	1678.8	1674.8	1645.2	1604.9	1555.8	1516.0	1505.4	1466.8	1406.9	1339.7	1269.8
17.5°	1634.0	1635.7	1610.5	1570.8	1530.5	1500.3	1490.9	1455.0	1395.7	1328.6	1255.3
20°	1555.8	1563.5	1546.8	1511.5	1489.1	1468.5	1462.3	1432.1	1378.5	1312.3	1239.6
22.5°	1477.4	1484.7	1478.0	1448.3	1445.0	1432.6	1429.3	1407.5	1363.2	1302.3	1230.1
25°	1419.8	1426.5	1425.4	1399.6	1409.7	1409.1	1406.3	1395.7	1360.0	1302.3	1231.8
27.5°	1404.1	1406.3	1404.1	1380.6	1394.5	1405.7	1403.6	1401.9	1370.0	1318.5	1253.1
30°	1457.8	1454.5	1437.1	1389.6	1402.5	1418.0	1415.9	1417.0	1400.1	1361.1	1300.6
32.5°	1672.1	1656.9	1602.2	1468.5	1434.3	1442.7	1443.9	1462.3	1465.0	1426.5	1374.5
35°	1992.6	1975.9	1904.7	1679.9	1533.4	1504.3	1504.3	1532.3	1549.0	1520.5	1489.1
37.5°	2332.1	2313.7	2275.7	1973.0	1741.4	1611.0	1608.3	1627.9	1651.9	1658.7	1666.4
40°	2718.2	2698.6	2709.2	2302.0	2031.7	1796.2	1756.6	1742.5	1807.4	1850.6	1913.1
42.5°	3140.4	3131.6	3135.4	2668.3	2362.4	2073.2	2016.6	1944.5	2022.8	2099.4	2230.8
45°	3531.5	3539.4	3535.4	3060.5	2730.5	2411.1	2351.2	2211.3	2288.0	2419.4	2633.7
47.5°	3873.9	3841.4	3891.9	3488.9	3142.8	2789.2	2715.3	2527.9	2605.8	2768.0	3130.4
50°	4289.5	4285.0	4211.2	4060.7	3641.2	3169.1	3072.3	2855.2	2976.0	3201.6	3756.5
52.5°	4726.4	4645.2	4577.6	4505.5	4169.8	3558.3	3439.8	3181.3	3411.3	3694.8	4519.4
55°	4815.9	4779.5	4863.4	4984.9	4679.5	3962.9	3824.6	3590.3	3901.3	4258.7	5399.4
57.5°	5007.3	5006.7	5180.1	5396.6	5204.1	4391.9	4252.6	4084.2	4452.4	4904.8	6333.5
60°	5136.5	5172.8	5494.9	5915.2	5719.4	4887.5	4759.5	4654.2	5078.8	5627.1	7204.0
62.5°	5204.1	5253.4	5693.1	6125.5	6447.7	5712.6	5584.6	5432.9	5907.8	6419.2	7713.0
65°	4922.7	5019.5	5662.3	6307.3	7085.4	7050.2	6992.6	6726.2	6944.4	7045.1	7529.0
67.5°	4144.1	4243.1	4991.5	6137.7	7540.7	8340.2	8352.5	7897.7	7582.1	7098.8	6330.3
70°	2952.5	3030.3	3649.6	5146.0	7193.9	9183.1	9225.1	8437.4	7455.2	6295.5	4422.6
72.5°	1401.9	1449.5	2035.7	3349.2	5708.7	8413.9	8495.1	7748.3	6339.1	4661.0	2412.7
75°	515.1	529.8	688.2	1424.8	3311.1	6205.0	6300.6	5554.3	4202.2	2320.4	919.1
77.5°	308.7	318.3	386.0	601.4	1302.3	3546.7	3688.1	3020.8	1836.5	863.7	452.0
80°	215.9	222.7	276.9	374.2	615.3	1351.5	1477.4	1232.9	731.7	546.6	329.0
82.5°	146.0	149.3	194.7	252.8	408.9	482.8	520.8	548.3	493.5	406.7	208.6
85°	95.7	99.0	131.9	166.7	260.1	249.5	255.1	322.8	360.2	276.3	115.9
87.5°	54.8	57.1	79.4	88.9	127.5	105.8	106.8	170.0	230.4	186.3	70.5
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°	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2	1334.2
2.5°	1329.1	1321.8	1305.6	1295.6	1286.1	1283.8	1279.9	1279.3	1278.8	1278.8	1277.1
5°	1299.5	1287.2	1262.1	1248.1	1236.3	1235.1	1234.6	1237.4	1238.6	1239.6	1237.9
7.5°	1280.5	1263.7	1232.3	1212.2	1198.2	1194.9	1200.4	1213.4	1221.7	1225.2	1223.3
10°	1268.7	1248.1	1211.6	1189.9	1178.2	1176.4	1183.8	1198.8	1216.2	1222.8	1222.3
12.5°	1255.3	1231.8	1193.2	1170.2	1163.6	1166.9	1176.4	1190.4	1208.3	1218.9	1219.6
15°	1241.8	1214.4	1174.7	1154.7	1151.8	1156.3	1165.2	1175.8	1189.9	1200.4	1201.7
17.5°	1225.7	1197.2	1157.4	1136.8	1134.4	1136.8	1137.3	1142.9	1151.8	1161.9	1164.7
20°	1208.3	1179.2	1137.8	1117.1	1107.1	1098.0	1088.0	1089.2	1091.9	1102.0	1104.3
22.5°	1196.0	1166.9	1122.7	1094.2	1067.4	1040.4	1020.4	1017.5	1018.7	1027.0	1029.9
25°	1197.2	1166.4	1118.9	1069.5	1010.8	967.8	940.9	936.5	936.0	942.1	945.9
27.5°	1218.9	1188.2	1133.3	1044.4	949.4	885.5	857.0	853.7	849.2	850.8	855.3
30°	1267.6	1239.1	1168.6	1018.7	882.7	805.0	775.3	772.0	765.8	763.0	766.4
32.5°	1347.0	1323.5	1220.1	994.0	816.1	736.2	706.0	698.7	694.8	691.4	694.3
35°	1479.1	1469.0	1288.8	967.2	757.3	683.0	655.7	644.4	638.8	644.9	649.4
37.5°	1686.1	1691.7	1379.0	925.2	712.2	647.8	624.9	612.0	603.5	608.7	613.7
40°	1979.1	1983.0	1478.5	866.0	672.9	627.0	602.4	590.8	579.0	570.0	569.5
42.5°	2364.1	2324.3	1576.4	801.6	627.7	614.2	586.8	572.3	554.4	529.8	524.8
45°	2820.5	2681.2	1650.8	727.7	576.8	598.5	569.5	549.3	521.3	494.5	491.6
47.5°	3346.4	3064.4	1687.2	651.1	529.2	575.6	548.3	516.4	481.1	467.6	466.0
50°	3988.5	3519.2	1704.6	576.8	487.9	545.4	517.5	479.9	450.3	447.5	445.9
52.5°	4719.7	4066.3	1710.1	515.8	453.7	506.3	492.3	455.9	432.4	434.7	434.7
55°	5485.0	4631.3	1634.0	471.6	422.4	466.0	475.5	446.5	426.8	435.7	439.1
57.5°	6187.6	5132.0	1394.5	437.5	392.7	435.2	469.4	455.4	442.0	478.3	480.5
60°	6726.9	5427.9	1041.6	406.7	370.9	424.6	485.5	489.5	492.9	579.5	591.3
62.5°	6839.8	5329.4	716.0	382.6	360.8	433.5	515.1	515.8	511.9	572.3	579.5
65°	6321.3	4706.8	520.8	369.2	352.5	449.7	540.4	528.6	502.9	548.8	535.4
67.5°	5020.1	3546.0	433.5	359.1	340.2	448.6	567.3	540.4	497.9	537.5	515.8
70°	3258.5	2144.2	386.0	350.7	325.6	427.4	582.9	539.3	483.4	500.1	474.4
72.5°	1589.8	958.9	354.1	338.4	310.6	397.7	582.4	529.2	468.1	467.1	453.1
75°	622.0	439.1	325.0	320.0	284.7	364.2	566.7	514.6	450.3	432.4	427.4
77.5°	364.2	313.2	288.1	292.6	253.9	330.6	543.8	489.5	425.7	404.5	398.9
80°	265.2	234.4	245.7	252.8	217.1	297.0	513.0	458.7	398.2	408.9	401.1
82.5°	170.0	151.0	199.2	206.4	180.8	262.9	479.4	426.2	359.7	326.6	318.8
85°	86.8	95.7	148.3	157.3	139.3	215.9	438.5	383.2	316.1	271.8	276.3
87.5°	48.6	65.4	94.5	105.8	98.5	166.2	355.7	316.1	257.9	209.8	184.6
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)