

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: P299169

Luminaire Tested: **GLNA-AF-03-LED-E1-T3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-T3-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11942 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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



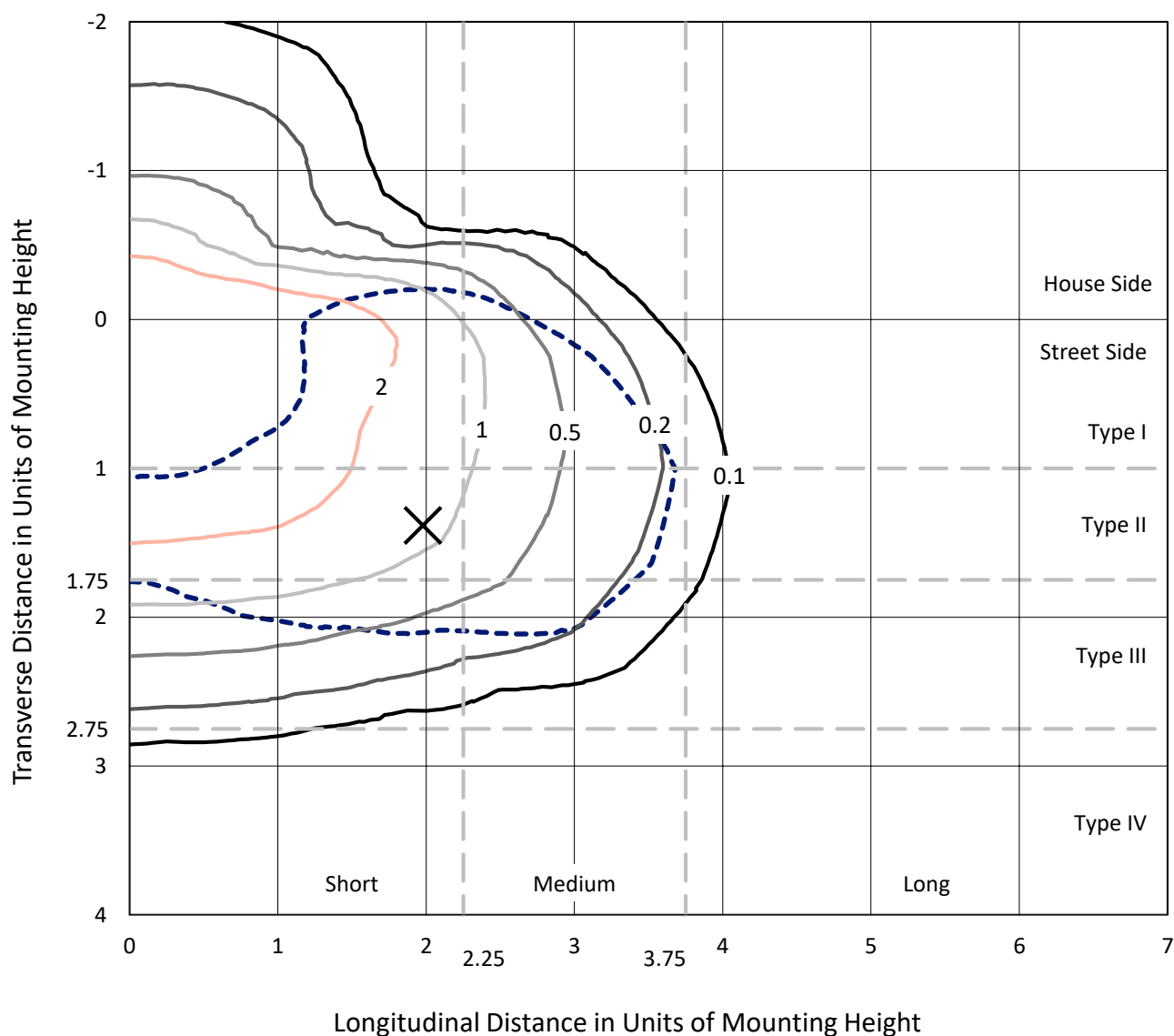
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

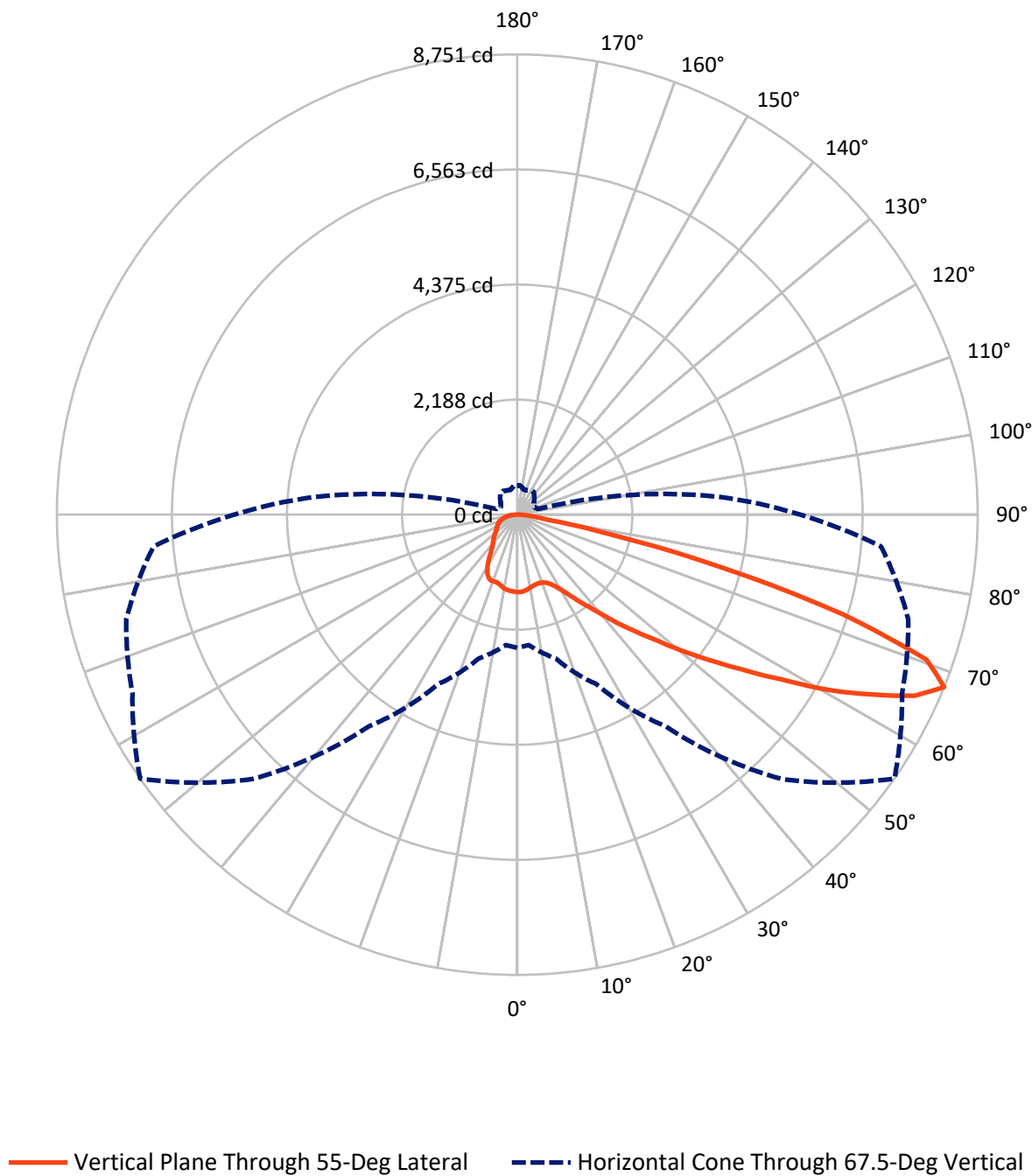


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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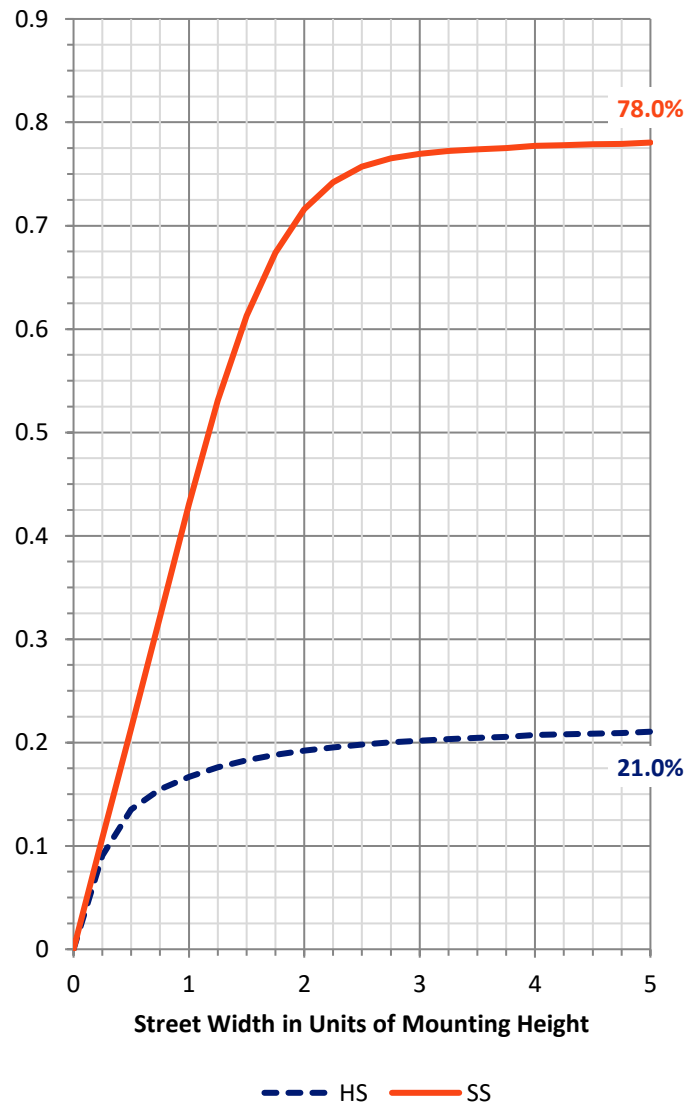
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2579.7	0.0	2579.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9362.3	0.0	9362.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	11942.0	0.0	11942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	1.2
10°-20°	389.3	3.3
20°-30°	652.1	5.5
30°-40°	1072.3	9.0
40°-50°	1805.0	15.1
50°-60°	2841.0	23.8
60°-70°	3390.4	28.4
70°-80°	1455.9	12.2
80°-90°	198.5	1.7
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°	11942.0	100.0
0°-180°	11942.0	100.0

Coefficient of Utilization



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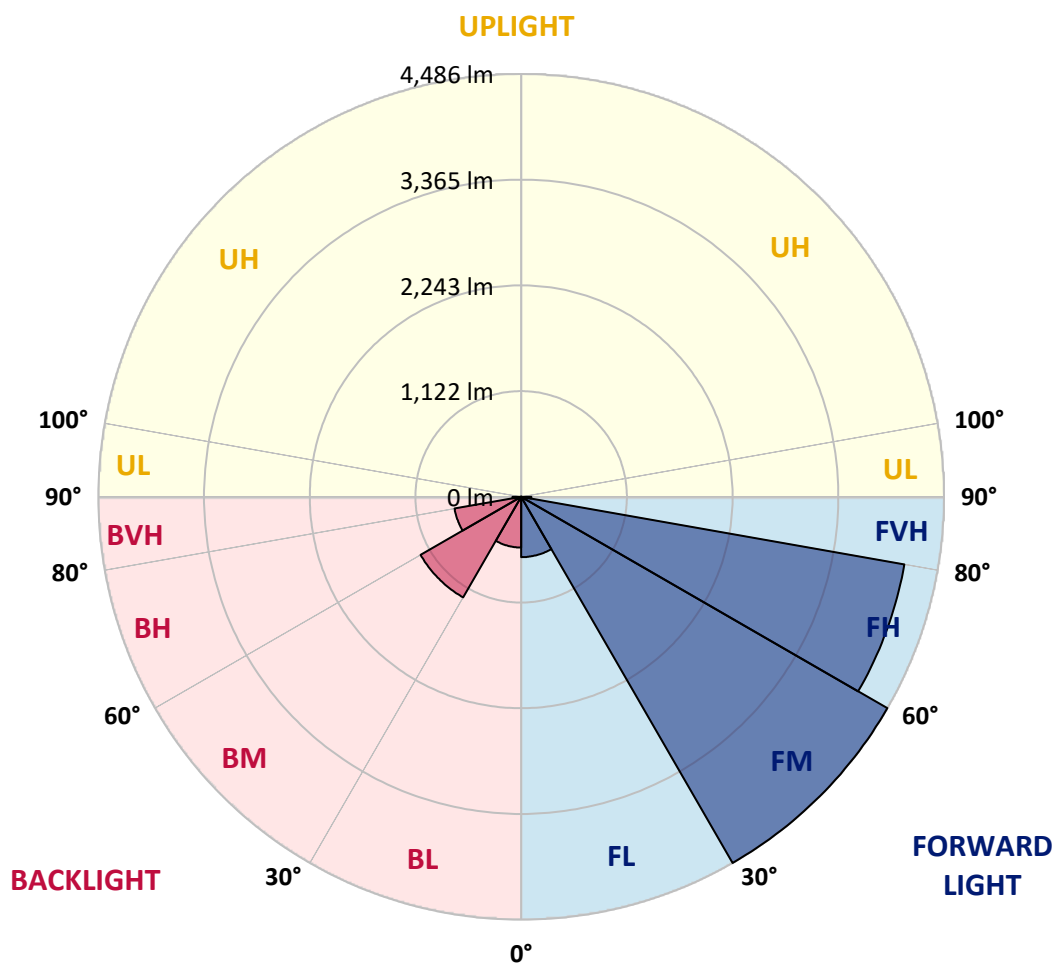
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.1	5.4			
FM	(30°-60°)	4486.3	37.6			
FH	(60°-80°)	4128.4	34.6			G2/5000
FVH	(80°-90°)	107.4	0.9			G2/225
BL	(0°-30°)	538.7	4.5	B2/1000		
BM	(30°-60°)	1232.0	10.3	B2/2500		
BH	(60°-80°)	717.9	6.0	B2/1000		G2/1000
BVH	(80°-90°)	91.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6
2.5°	1459.9	1460.5	1461.6	1466.2	1470.3	1469.1	1469.7	1467.4	1466.8	1463.3	1466.8
5°	1441.4	1443.2	1443.7	1451.2	1455.8	1457.0	1455.3	1452.4	1448.9	1445.5	1447.2
7.5°	1399.3	1403.9	1404.5	1414.9	1422.4	1432.2	1432.8	1433.4	1431.6	1429.3	1432.8
10°	1372.8	1373.9	1373.4	1380.9	1386.6	1397.6	1403.9	1414.9	1419.5	1420.7	1423.0
12.5°	1371.1	1369.9	1368.2	1368.2	1366.4	1371.1	1382.6	1398.2	1409.1	1412.6	1415.5
15°	1389.5	1388.9	1383.2	1374.5	1363.6	1360.1	1369.9	1387.2	1401.6	1409.1	1412.0
17.5°	1431.0	1427.6	1418.4	1398.7	1375.1	1365.9	1367.0	1381.4	1398.2	1408.0	1410.9
20°	1507.2	1507.2	1487.6	1450.7	1408.6	1386.6	1376.3	1384.9	1401.1	1414.3	1418.4
22.5°	1638.7	1639.8	1607.0	1546.4	1475.5	1428.7	1402.8	1401.1	1420.1	1435.1	1439.7
25°	1825.0	1820.4	1774.2	1687.7	1579.9	1502.6	1457.6	1447.2	1463.3	1480.1	1485.8
27.5°	2041.9	2025.2	1970.4	1866.0	1726.4	1613.3	1544.1	1527.4	1542.9	1562.0	1567.7
30°	2256.5	2239.1	2174.0	2059.8	1904.6	1761.6	1662.3	1635.2	1657.2	1684.3	1687.7
32.5°	2471.0	2471.0	2398.3	2265.1	2096.1	1938.6	1819.8	1787.5	1823.8	1856.7	1864.2
35°	2727.7	2728.9	2658.5	2498.1	2316.4	2149.7	2018.8	1995.2	2050.0	2073.0	2090.9
37.5°	3043.2	3049.6	2959.0	2765.2	2566.2	2390.8	2235.1	2202.8	2257.6	2320.5	2378.2
40°	3384.1	3392.2	3292.4	3053.6	2854.6	2671.2	2502.7	2444.5	2535.6	2655.6	2730.0
42.5°	3709.4	3750.9	3654.6	3408.9	3194.9	3005.1	2834.4	2749.6	2863.8	3044.9	3109.5
45°	4179.5	4209.5	4041.7	3819.0	3617.7	3405.4	3179.3	3089.9	3249.7	3478.1	3491.4
47.5°	4492.7	4470.2	4384.9	4246.4	4118.9	3920.5	3580.2	3482.2	3694.4	3963.2	3888.8
50°	4659.4	4666.3	4654.8	4662.9	4667.5	4542.9	4071.6	3937.3	4190.5	4515.2	4343.9
52.5°	4815.1	4769.0	4807.1	4996.3	5224.7	5178.5	4606.3	4466.2	4722.3	5127.8	4825.0
55°	4811.7	4741.3	4865.3	5199.3	5694.8	5747.8	5206.8	5045.3	5284.7	5784.7	5334.8
57.5°	4641.5	4645.0	4835.9	5273.1	6022.4	6283.1	5903.6	5661.3	5881.1	6450.4	5800.3
60°	4407.3	4439.1	4714.2	5261.0	6284.8	6722.1	6758.4	6325.2	6465.4	7055.4	6185.6
62.5°	4029.5	4063.0	4442.5	5135.3	6245.0	7144.8	7531.3	7078.5	7076.2	7422.3	6298.7
65°	3433.7	3423.9	3822.5	4665.2	5911.1	7457.5	8299.0	7729.7	7536.5	7428.1	6071.4
67.5°	2532.2	2488.3	2830.4	3553.1	4913.2	7107.4	8750.7	8068.9	7693.4	6939.5	5376.9
70°	1314.0	1270.1	1547.0	2074.8	3231.2	5547.1	8250.6	7893.5	7346.7	5817.0	4212.4
72.5°	561.8	554.3	666.8	910.2	1563.1	3199.5	6469.4	6832.2	6303.9	4334.1	2896.1
75°	377.8	375.5	417.6	496.0	703.1	1298.4	4048.6	4849.8	4612.1	2687.3	1628.9
77.5°	296.5	293.6	318.4	356.5	455.7	512.2	1796.7	2603.7	2409.9	1169.8	712.9
80°	231.9	229.6	245.1	265.9	327.6	323.0	591.2	1035.9	801.8	448.2	346.7
82.5°	182.8	182.8	195.5	196.1	232.5	220.3	308.6	456.3	400.3	261.3	212.3
85°	167.3	167.3	180.5	146.5	151.7	139.0	191.5	270.5	253.8	107.3	92.3
87.5°	84.2	81.9	151.7	129.8	82.5	73.8	93.4	130.9	140.7	59.4	46.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6	1472.6
2.5°	1465.7	1465.1	1466.2	1466.8	1471.4	1477.8	1480.7	1484.7	1487.0	1485.8
5°	1448.4	1449.5	1454.1	1457.6	1465.7	1476.0	1481.8	1486.4	1490.5	1488.7
7.5°	1433.9	1436.8	1443.7	1446.6	1451.2	1454.1	1453.5	1455.3	1458.7	1454.7
10°	1425.9	1429.3	1434.5	1430.5	1419.5	1403.9	1389.5	1382.0	1384.3	1381.4
12.5°	1417.8	1422.4	1418.4	1399.3	1368.8	1348.6	1337.6	1338.8	1343.9	1345.1
15°	1413.2	1414.9	1397.6	1361.8	1330.7	1327.8	1333.6	1332.4	1333.0	1333.0
17.5°	1413.2	1408.6	1376.3	1340.5	1327.2	1322.0	1304.1	1281.7	1271.8	1268.4
20°	1420.7	1408.6	1369.3	1345.7	1316.8	1272.4	1225.1	1183.6	1165.1	1159.9
22.5°	1443.2	1422.4	1388.9	1348.0	1266.1	1191.7	1116.7	1067.1	1033.6	1027.9
25°	1488.7	1465.7	1427.6	1317.4	1185.3	1079.2	993.8	938.5	905.0	900.4
27.5°	1568.3	1553.3	1448.4	1249.9	1078.0	964.4	885.4	842.7	817.9	816.2
30°	1688.3	1680.8	1438.0	1150.1	946.0	853.1	815.0	790.2	771.8	771.2
32.5°	1879.8	1819.2	1403.9	1028.4	825.4	774.1	758.5	743.5	729.1	729.1
35°	2126.1	1931.1	1339.3	898.1	752.2	730.2	710.6	687.0	667.9	666.8
37.5°	2415.6	2000.3	1223.4	793.1	717.5	700.8	672.0	636.8	603.3	597.6
40°	2708.1	2021.1	1060.2	728.5	695.6	671.4	636.2	594.7	562.4	560.7
42.5°	2976.3	1981.3	887.1	684.1	673.7	641.4	604.5	567.6	542.2	541.6
45°	3201.3	1878.1	741.8	642.0	650.6	614.3	581.4	551.4	531.8	527.8
47.5°	3412.9	1732.1	639.7	597.6	627.6	599.3	571.6	543.3	524.3	521.4
50°	3658.7	1574.7	568.2	554.3	607.4	594.1	579.7	550.3	518.5	515.1
52.5°	3956.3	1438.5	512.2	516.2	591.8	601.0	600.5	569.9	514.5	509.9
55°	4288.5	1287.4	470.1	485.1	585.5	613.7	605.6	588.3	518.0	511.0
57.5°	4615.6	1110.9	440.7	461.4	576.2	612.6	580.8	556.0	526.0	516.2
60°	4860.7	873.9	418.2	440.7	556.0	593.5	553.7	520.9	524.3	516.8
62.5°	4876.9	675.4	391.1	422.8	525.5	574.5	535.8	505.3	531.8	524.9
65°	4590.2	510.5	365.1	401.5	492.6	562.4	518.5	496.6	547.4	539.9
67.5°	3864.6	410.7	343.2	379.5	459.7	537.0	503.0	488.6	561.2	548.0
70°	2790.0	350.1	321.9	353.0	430.3	508.2	489.1	474.1	523.7	503.0
72.5°	1717.7	303.4	297.6	317.8	407.8	478.2	468.4	447.0	471.8	455.1
75°	857.7	263.0	270.5	283.2	376.1	444.1	433.8	412.4	415.9	412.4
77.5°	410.7	225.0	238.8	248.6	335.1	405.5	394.5	372.6	368.6	369.2
80°	260.1	188.0	201.3	208.2	299.4	360.5	349.5	327.6	373.8	346.7
82.5°	162.7	152.9	156.3	169.0	260.7	313.8	299.4	279.7	336.9	266.5
85°	90.0	106.7	111.3	122.3	200.7	262.4	248.0	223.2	200.2	196.7
87.5°	53.6	63.4	65.2	73.3	135.0	189.8	167.8	159.2	132.1	131.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)