

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: P300907

Luminaire Tested: **GLNA-AF-02-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-02-LED-E1-SL4-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Wide OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

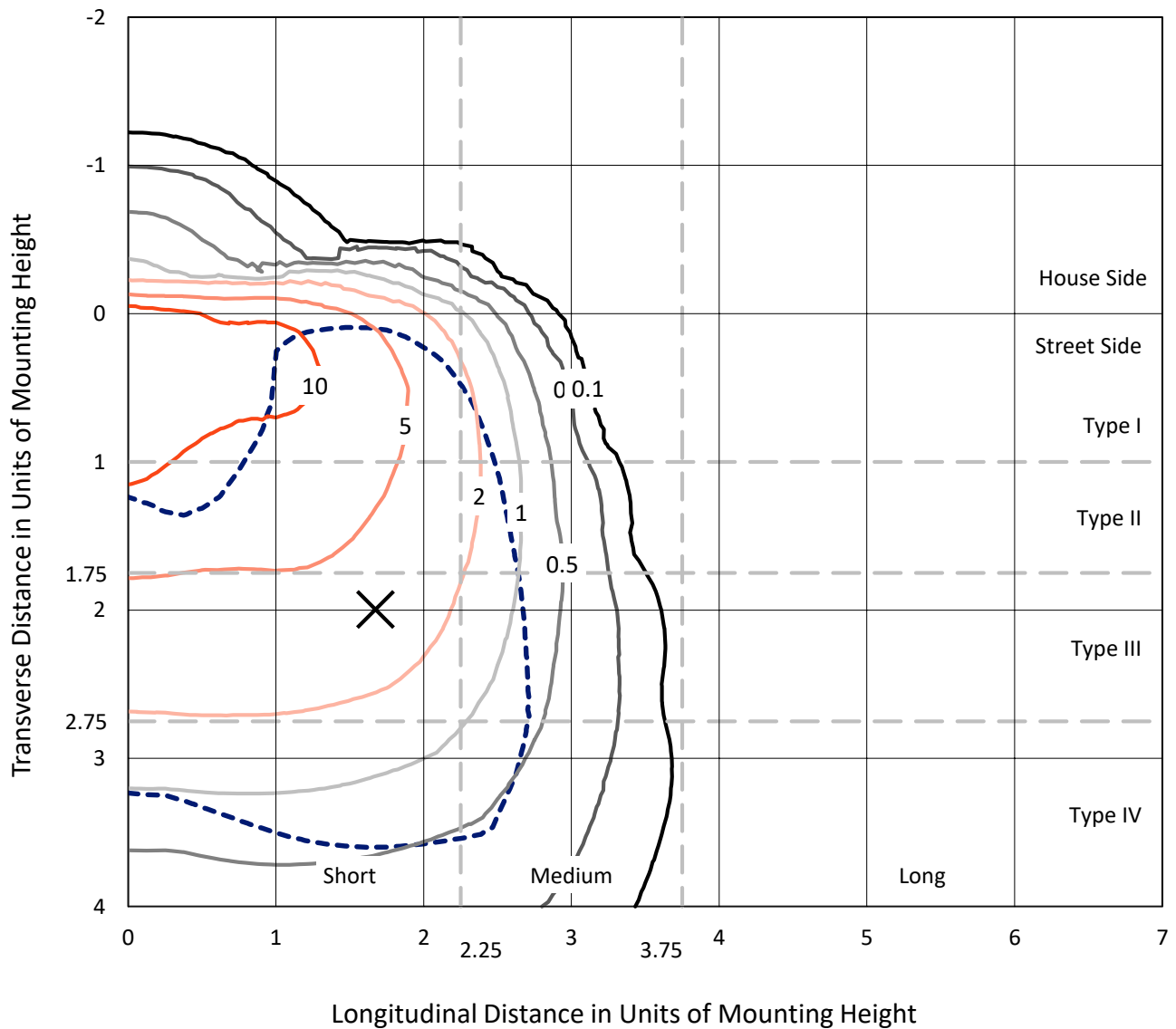
Lumens per Lamp: N/A  
Luminaire Lumens: 9011.3 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (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

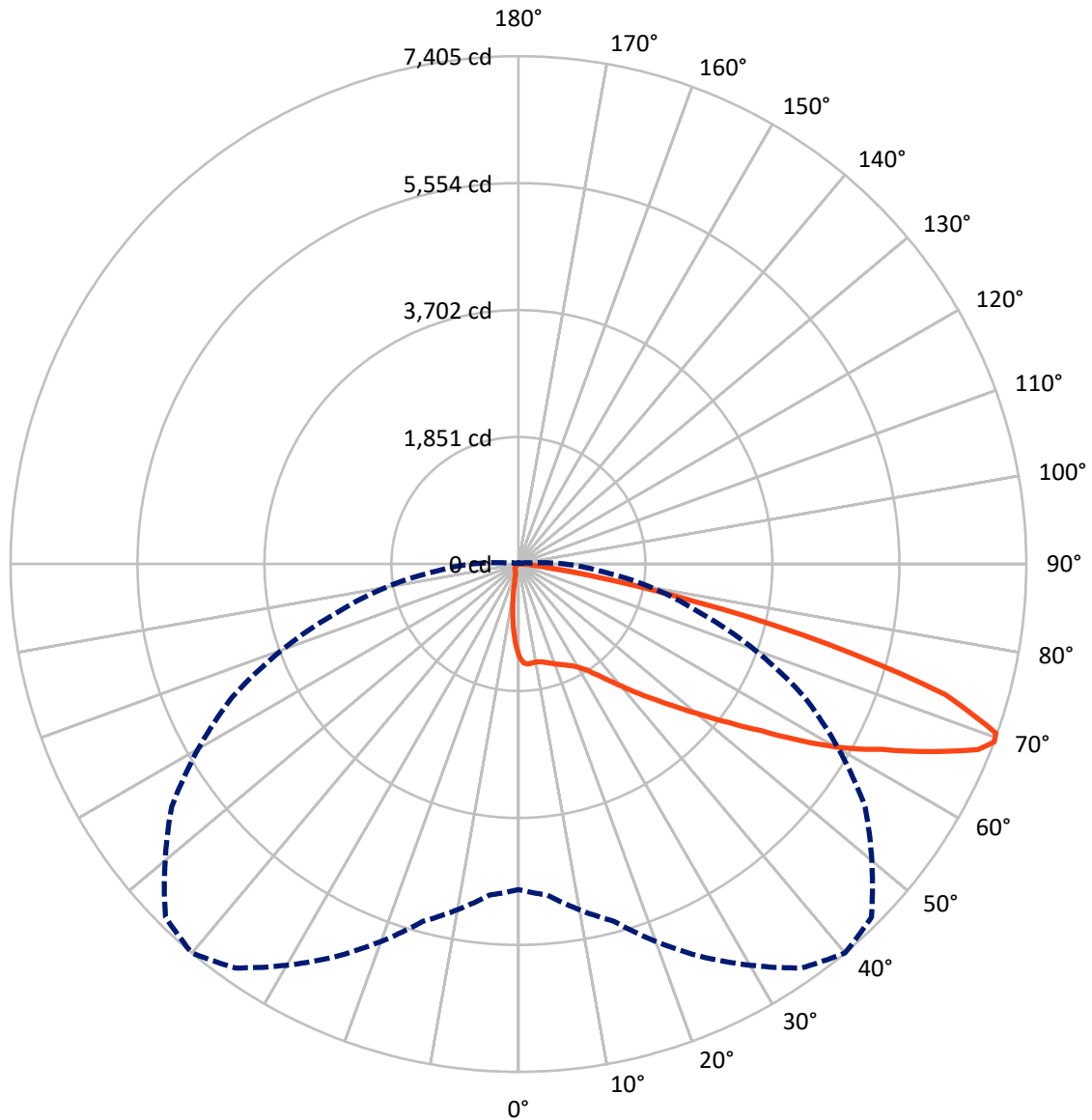
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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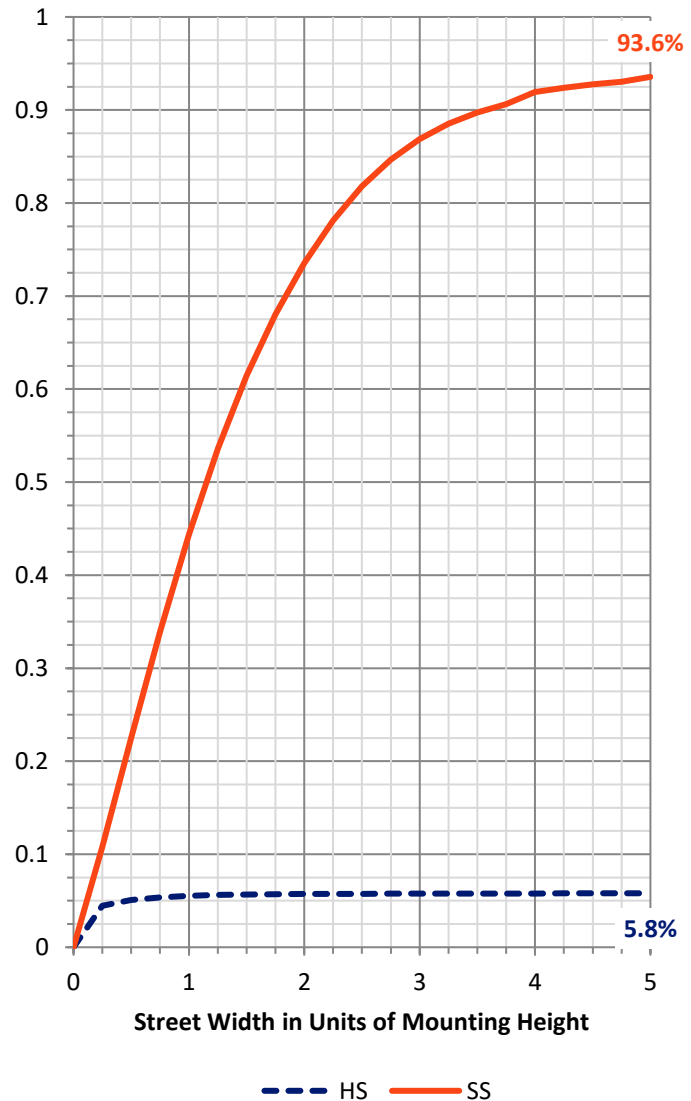
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	527.2	0.0	527.2
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	8484.1	0.0	8484.1
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	9011.3	0.0	9011.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	1.2
10°-20°	268.4	3.0
20°-30°	452.2	5.0
30°-40°	740.2	8.2
40°-50°	1281.6	14.2
50°-60°	2018.7	22.4
60°-70°	2636.3	29.3
70°-80°	1357.8	15.1
80°-90°	146.9	1.6
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°	9011.3	100.0
0°-180°	9011.3	100.0

**Coefficient of Utilization**



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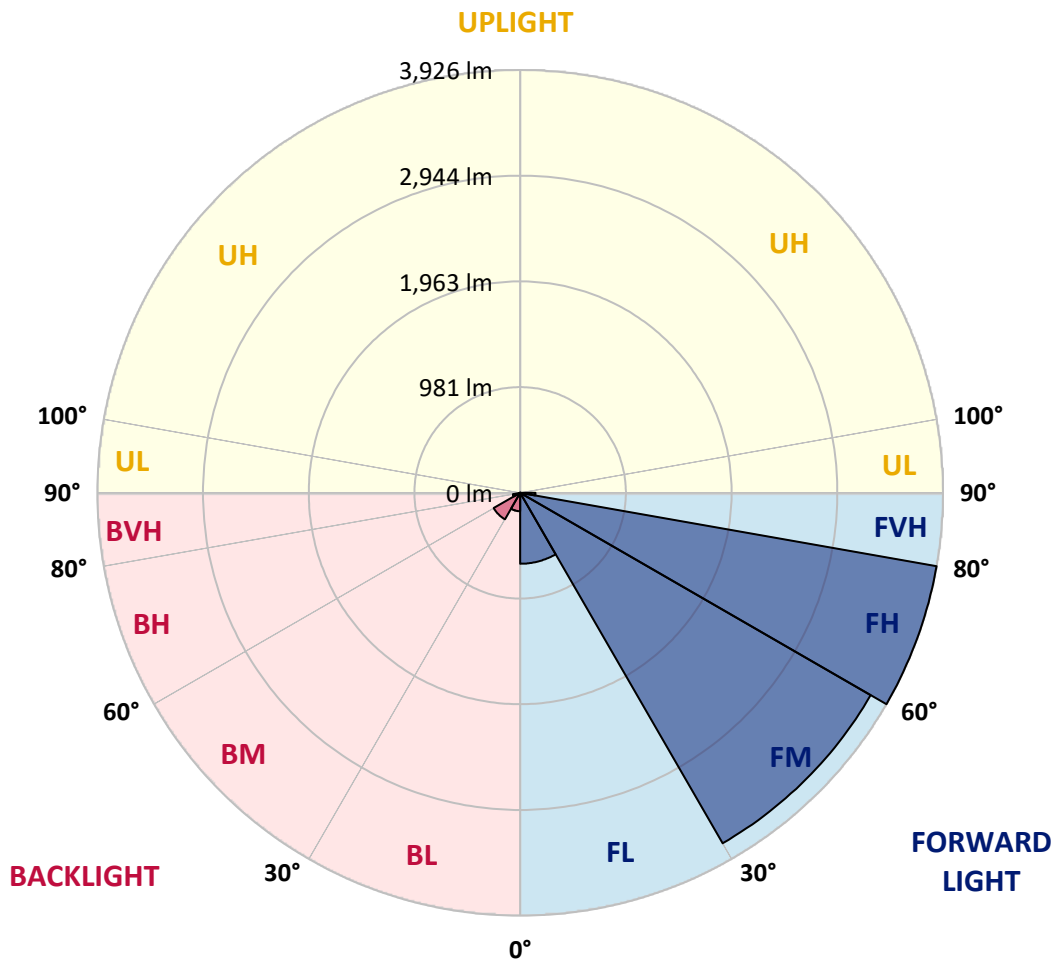
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	659.0	7.3			
FM	(30°-60°)	3757.2	41.7			
FH	(60°-80°)	3925.7	43.6			G2/5000
FVH	(80°-90°)	142.3	1.6			G2/225
BL	(0°-30°)	170.8	1.9	B1/500		
BM	(30°-60°)	283.4	3.1	B1/1000		
BH	(60°-80°)	68.5	0.8	B0/110		G0/110
BVH	(80°-90°)	4.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3
2.5°	1478.3	1470.2	1465.4	1459.0	1450.9	1444.0	1441.3	1421.4	1402.7	1376.9	1347.4
5°	1505.6	1503.0	1494.4	1485.8	1476.1	1465.4	1459.5	1435.9	1409.1	1371.5	1320.1
7.5°	1508.3	1505.1	1494.4	1482.6	1469.2	1456.3	1446.1	1422.5	1397.8	1359.7	1297.0
10°	1504.0	1500.3	1492.2	1479.4	1462.7	1450.4	1440.2	1417.7	1396.8	1362.4	1292.7
12.5°	1499.2	1495.5	1491.7	1485.3	1470.8	1462.2	1453.6	1432.2	1413.4	1384.4	1308.3
15°	1504.0	1501.9	1506.2	1503.5	1495.5	1487.9	1479.4	1460.1	1442.9	1418.8	1336.7
17.5°	1524.4	1524.4	1537.8	1539.4	1531.9	1521.2	1508.9	1489.6	1475.1	1454.7	1370.5
20°	1572.2	1570.5	1587.7	1590.9	1572.7	1556.1	1537.8	1514.2	1503.0	1490.1	1403.7
22.5°	1654.2	1646.7	1656.9	1653.7	1617.8	1592.0	1569.5	1540.5	1534.6	1528.7	1440.7
25°	1761.0	1756.7	1763.7	1732.0	1668.7	1633.8	1607.0	1574.3	1574.3	1580.2	1482.6
27.5°	1916.0	1899.9	1876.3	1820.5	1725.6	1681.0	1652.1	1617.2	1626.3	1648.3	1537.8
30°	2074.8	2057.1	2002.9	1917.1	1794.8	1748.1	1714.3	1677.8	1699.3	1739.5	1611.9
32.5°	2231.4	2211.5	2134.8	2026.5	1894.0	1847.3	1814.6	1774.4	1810.3	1877.9	1720.2
35°	2383.2	2365.5	2277.0	2149.3	2025.9	1987.3	1957.3	1922.4	1968.6	2063.0	1873.1
37.5°	2553.8	2534.4	2426.6	2288.2	2186.3	2158.4	2136.4	2101.6	2182.0	2320.4	2086.0
40°	2763.5	2730.8	2585.4	2447.5	2371.9	2358.5	2343.5	2338.7	2463.6	2655.1	2369.8
42.5°	3003.8	2950.1	2751.7	2615.4	2575.7	2585.4	2581.6	2603.1	2816.0	3071.4	2715.2
45°	3244.1	3174.9	2936.7	2794.6	2800.0	2833.7	2854.7	2940.5	3257.5	3548.8	3086.9
47.5°	3447.9	3379.8	3114.3	2988.2	3052.6	3119.1	3176.0	3338.5	3711.3	4018.6	3376.0
50°	3622.2	3557.9	3302.6	3201.2	3346.0	3453.3	3545.5	3786.4	4199.4	4376.4	3578.8
52.5°	3764.9	3722.0	3497.8	3445.2	3681.2	3838.4	3973.6	4262.2	4631.7	4667.1	3736.5
55°	3903.8	3873.3	3707.5	3735.4	4075.0	4289.0	4460.1	4766.9	5004.0	4909.6	3887.8
57.5°	4063.7	4035.8	3946.8	4103.4	4592.6	4861.8	5048.5	5214.2	5331.7	5157.4	4030.4
60°	4226.8	4210.7	4212.8	4512.1	5186.9	5445.4	5548.4	5591.3	5653.6	5390.7	4038.5
62.5°	4382.3	4412.9	4516.9	4967.0	5756.0	5954.5	6006.5	6048.9	5975.9	5427.7	3731.1
65°	4645.7	4695.6	4943.9	5575.8	6382.0	6594.4	6648.0	6502.7	6026.9	4949.3	3034.9
67.5°	4774.4	4865.6	5308.7	6143.3	6989.2	7225.2	7205.3	6532.2	5408.4	3774.0	1947.6
69°	4747.6	4844.7	5392.9	6317.1	7190.8	7404.9	7278.8	6171.2	4607.6	2734.0	1195.6
70°	4641.4	4739.5	5349.4	6310.6	7216.6	7386.1	7142.6	5725.4	3895.8	1999.1	747.7
72.5°	3876.0	3960.7	4749.2	5704.0	6648.0	6510.2	5975.4	3966.6	1898.3	544.4	168.4
75°	2385.9	2433.1	3407.7	4297.0	5021.1	4667.1	3981.1	1973.4	565.9	153.9	93.3
77.5°	1260.5	1282.0	1865.6	2532.8	3182.9	2633.7	2040.4	769.7	260.7	96.6	67.6
80°	745.0	761.1	1004.7	1158.1	1377.4	1150.6	815.8	472.6	186.7	60.6	60.1
82.5°	426.4	436.6	728.4	643.7	542.8	463.4	406.0	447.9	112.1	40.8	62.2
85°	156.6	158.8	409.8	489.7	322.9	192.0	201.7	371.2	30.0	25.7	48.8
87.5°	72.9	71.3	210.8	299.8	188.8	121.8	157.2	81.5	11.8	16.6	13.4
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°	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3	1346.3
2.5°	1330.2	1310.4	1274.5	1237.5	1199.9	1170.9	1142.5	1120.0	1112.5	1098.5	1099.6
5°	1289.5	1253.0	1177.9	1101.7	1022.4	956.9	895.2	845.4	821.2	796.5	796.5
7.5°	1254.1	1201.0	1083.5	959.6	831.4	723.6	626.5	553.6	513.3	481.1	480.6
10°	1240.7	1168.8	1004.7	827.1	648.5	501.5	386.2	312.2	274.1	249.4	248.3
12.5°	1246.6	1157.5	944.0	704.8	480.6	322.4	223.7	175.9	159.8	152.3	152.3
15°	1263.7	1154.3	883.4	585.2	339.5	201.7	148.6	135.7	134.6	134.6	134.6
17.5°	1284.7	1155.4	821.2	468.8	231.2	144.3	128.2	126.6	127.7	127.7	127.7
20°	1306.1	1155.9	754.2	361.0	163.1	125.5	120.7	120.2	121.2	121.2	121.8
22.5°	1332.4	1158.6	687.1	269.8	134.6	118.5	114.8	114.8	115.3	115.3	114.8
25°	1362.4	1164.0	617.4	200.1	122.8	113.7	110.5	110.0	110.5	110.0	109.4
27.5°	1400.0	1171.5	539.6	156.6	117.5	108.9	106.2	106.2	105.7	105.1	104.6
30°	1447.2	1180.1	452.2	133.0	112.1	104.6	101.9	101.4	100.8	99.8	99.8
32.5°	1519.1	1198.8	365.8	120.7	106.2	98.7	96.6	96.6	95.5	94.4	93.9
35°	1629.6	1235.8	288.6	113.2	99.8	92.3	89.6	89.6	88.5	88.0	87.4
37.5°	1782.4	1292.2	224.2	106.2	93.3	85.3	82.6	82.1	81.0	79.9	79.4
40°	1985.7	1361.9	176.5	99.8	86.9	78.3	76.2	75.1	72.9	71.3	71.3
42.5°	2241.0	1441.3	143.2	92.8	79.4	71.9	70.3	68.7	64.9	63.3	62.8
45°	2508.2	1512.6	121.2	84.7	71.9	65.4	64.4	61.7	56.9	55.2	55.2
47.5°	2700.7	1529.2	106.7	77.2	64.9	58.5	57.9	53.1	48.8	47.7	47.2
50°	2820.9	1496.5	94.9	69.7	58.5	52.0	50.4	44.5	41.8	40.8	40.2
52.5°	2901.9	1438.1	85.3	63.3	52.6	46.1	42.4	38.1	35.9	34.9	34.9
55°	2966.8	1355.5	75.6	57.4	47.7	41.3	35.9	32.7	30.6	29.5	29.5
57.5°	2985.0	1243.4	66.0	52.6	42.9	36.5	30.6	28.4	25.7	25.2	25.2
60°	2852.5	1041.1	58.5	46.7	38.6	31.6	26.8	24.1	21.5	20.9	20.4
62.5°	2503.3	805.7	51.5	41.3	33.8	27.4	23.1	19.8	17.7	17.7	17.7
65°	1909.5	540.1	45.1	35.9	29.5	23.1	19.8	16.1	15.0	15.0	15.6
67.5°	1143.0	293.9	38.6	30.6	25.2	19.3	16.6	13.9	13.4	13.9	13.9
69°	670.0	172.7	34.9	27.4	22.0	17.2	14.5	12.3	13.4	13.9	13.9
70°	413.6	116.4	32.2	24.7	19.8	15.6	13.4	11.8	12.9	13.4	13.4
72.5°	115.3	60.1	25.7	19.3	16.1	12.9	10.7	10.7	12.3	12.9	12.9
75°	75.1	44.5	19.8	14.5	12.3	10.2	9.1	10.2	11.8	12.3	12.3
77.5°	62.2	36.5	16.1	11.8	10.2	9.7	8.6	9.1	10.7	11.3	11.3
80°	56.9	25.7	12.9	10.7	9.1	8.6	8.0	7.5	9.7	10.2	10.2
82.5°	54.2	20.4	11.3	9.7	8.6	7.5	7.0	7.5	8.6	9.1	9.7
85°	33.8	13.4	10.2	9.1	7.5	7.0	7.0	7.0	8.0	8.6	8.6
87.5°	12.3	10.7	9.1	7.5	6.4	6.4	6.4	6.4	7.0	8.0	8.0
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)