

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: P269165

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269165
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: GLEON-AF-03-LED-E1-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10353.6 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

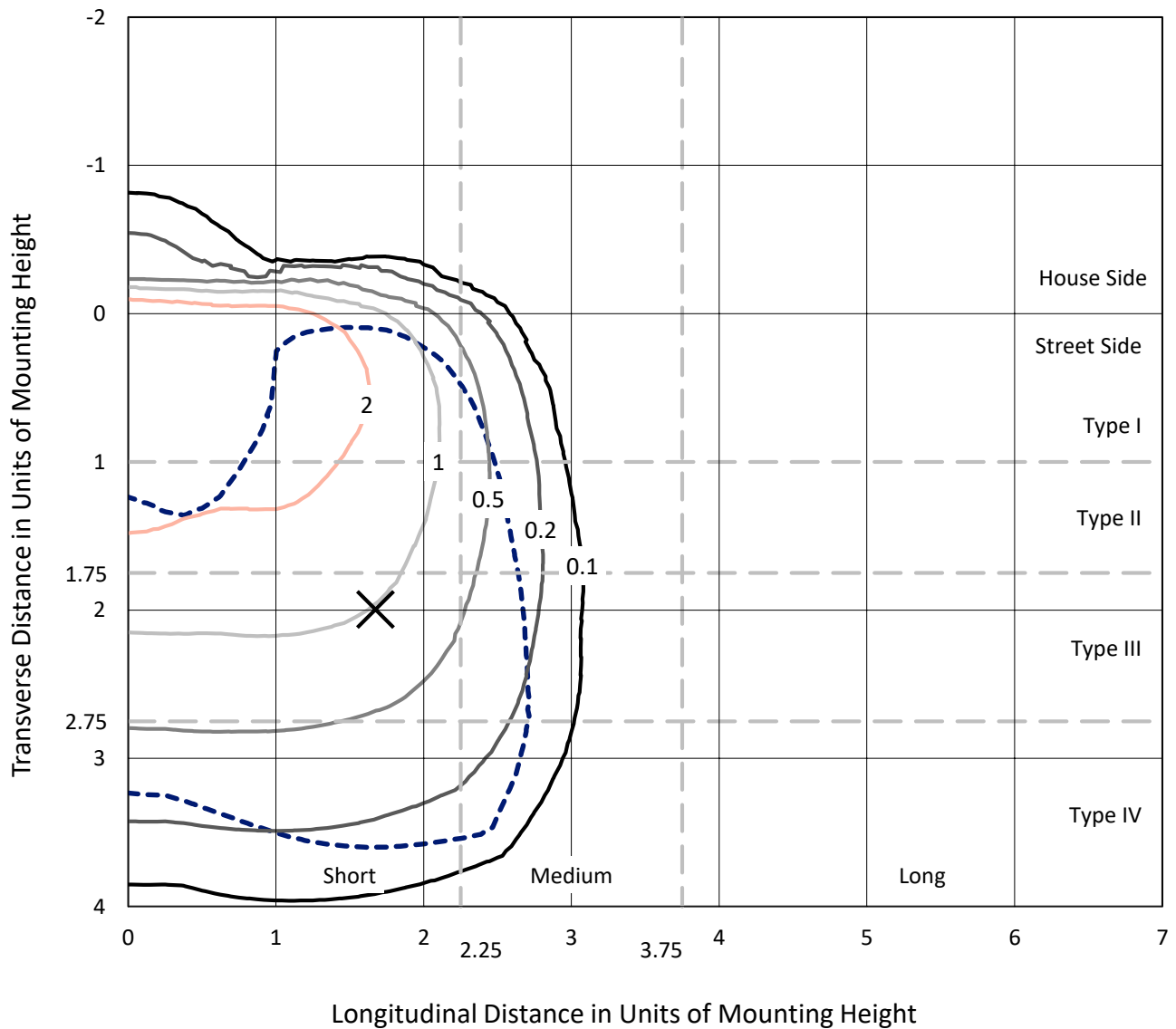
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

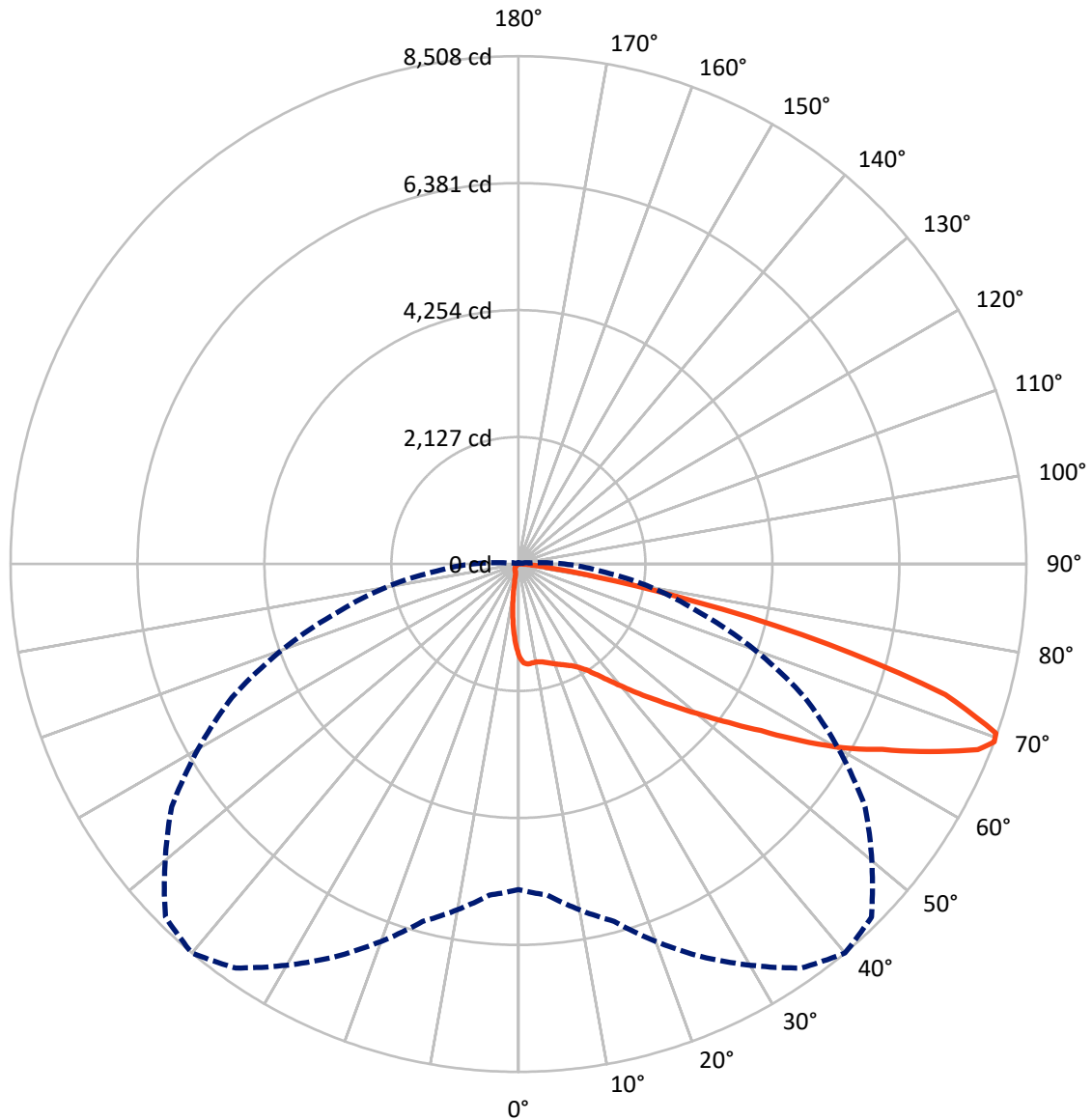


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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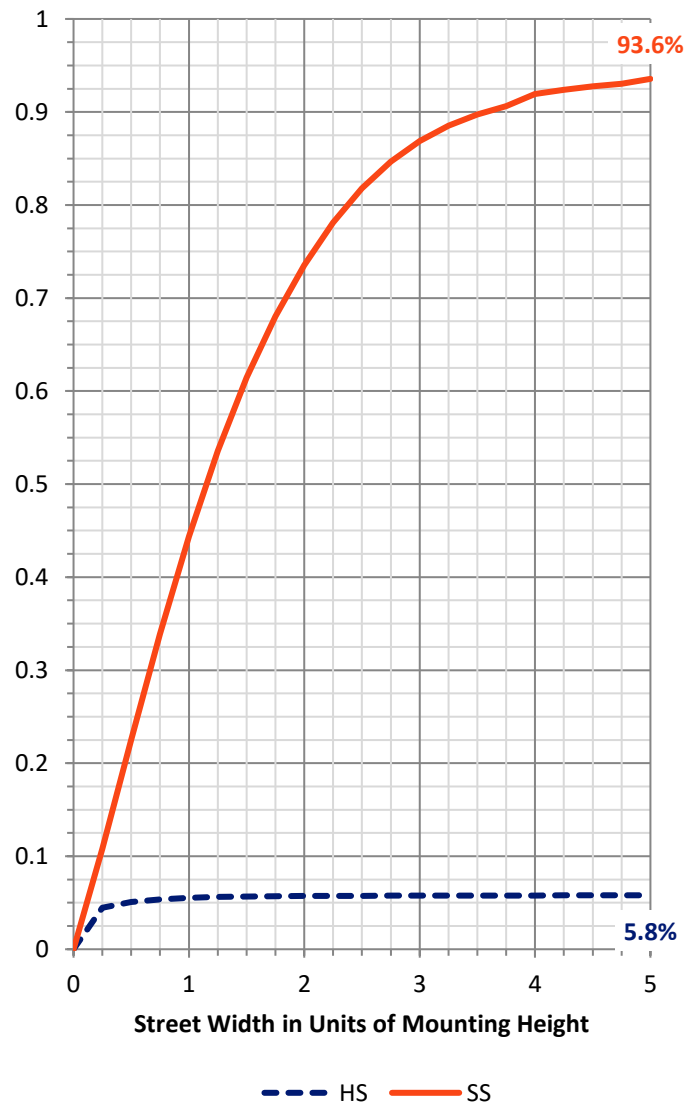
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.7	0.0	605.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	9747.9	0.0	9747.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	10353.6	0.0	10353.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	1.2
10°-20°	308.4	3.0
20°-30°	519.5	5.0
30°-40°	850.5	8.2
40°-50°	1472.5	14.2
50°-60°	2319.4	22.4
60°-70°	3029.0	29.3
70°-80°	1560.1	15.1
80°-90°	168.8	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°	10353.6	100.0
0°-180°	10353.6	100.0



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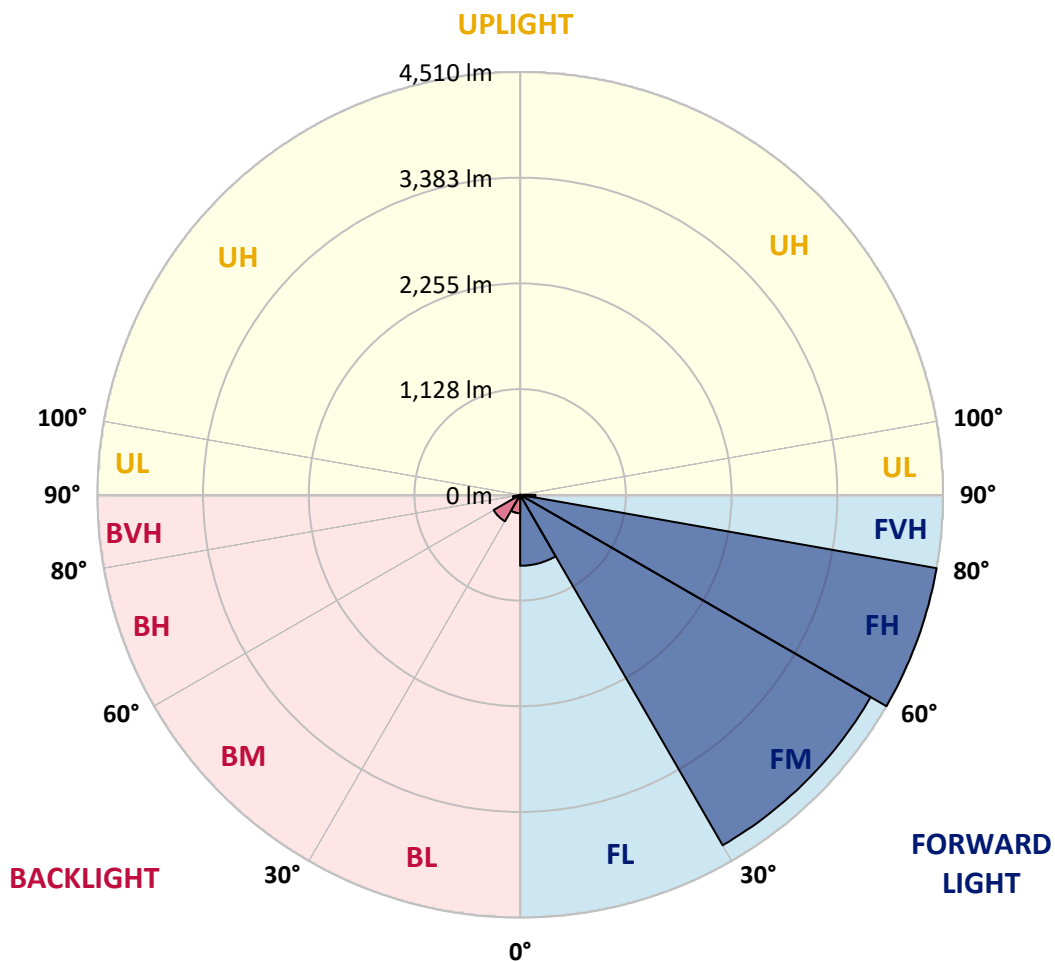
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.1	7.3			
FM	(30°-60°)	4316.8	41.7			
FH	(60°-80°)	4510.5	43.6			G2/5000
FVH	(80°-90°)	163.5	1.6			G2/225
BL	(0°-30°)	196.2	1.9	B1/500		
BM	(30°-60°)	325.6	3.1	B1/1000		
BH	(60°-80°)	78.6	0.8	B0/110		G0/110
BVH	(80°-90°)	5.3	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°	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9
2.5°	1698.4	1689.3	1683.8	1676.2	1667.1	1659.1	1655.9	1633.2	1611.6	1582.1	1548.0
5°	1730.0	1726.8	1717.0	1707.0	1696.0	1683.8	1677.0	1649.7	1618.9	1575.8	1516.7
7.5°	1733.0	1729.2	1717.0	1703.5	1688.1	1673.3	1661.5	1634.3	1606.1	1562.3	1490.2
10°	1728.1	1723.8	1714.5	1699.8	1680.5	1666.4	1654.8	1628.8	1604.8	1565.3	1485.3
12.5°	1722.5	1718.2	1713.8	1706.5	1689.9	1680.0	1670.2	1645.4	1624.0	1590.7	1503.1
15°	1728.1	1725.6	1730.6	1727.5	1718.2	1709.6	1699.8	1677.6	1657.8	1630.1	1535.8
17.5°	1751.4	1751.4	1766.8	1768.8	1760.0	1747.8	1733.5	1711.5	1694.8	1671.3	1574.5
20°	1806.3	1804.4	1824.2	1828.0	1807.0	1787.8	1766.8	1739.7	1726.8	1712.1	1612.8
22.5°	1900.6	1892.0	1903.7	1900.1	1858.8	1829.2	1803.3	1770.0	1763.3	1756.5	1655.3
25°	2023.3	2018.3	2026.3	1989.9	1917.3	1877.2	1846.3	1808.7	1808.7	1815.6	1703.5
27.5°	2201.3	2182.9	2155.8	2091.8	1982.6	1931.4	1898.2	1858.1	1868.6	1893.8	1766.8
30°	2383.8	2363.5	2301.2	2202.6	2062.1	2008.5	1969.7	1927.8	1952.3	1998.5	1851.9
32.5°	2563.8	2540.9	2452.8	2328.3	2176.1	2122.5	2084.8	2038.8	2079.9	2157.5	1976.5
35°	2738.2	2717.8	2616.1	2469.5	2327.7	2283.3	2248.8	2208.8	2261.8	2370.3	2152.1
37.5°	2934.1	2911.9	2788.1	2629.1	2512.0	2480.0	2454.7	2414.6	2507.1	2666.1	2396.8
40°	3175.1	3137.5	2970.5	2812.1	2725.3	2709.8	2692.6	2687.0	2830.6	3050.6	2722.8
42.5°	3451.2	3389.7	3161.6	3005.0	2959.5	2970.5	2966.3	2990.8	3235.5	3528.9	3119.6
45°	3727.2	3647.7	3374.3	3210.9	3217.0	3255.8	3279.9	3378.4	3742.7	4077.3	3546.8
47.5°	3961.5	3883.3	3578.2	3433.3	3507.3	3583.7	3649.1	3835.9	4264.2	4617.3	3878.9
50°	4161.8	4087.8	3794.5	3678.0	3844.4	3967.6	4073.6	4350.4	4824.9	5028.4	4111.9
52.5°	4325.8	4276.4	4018.8	3958.4	4229.6	4410.1	4565.5	4897.0	5321.6	5362.3	4293.1
55°	4485.3	4450.3	4259.9	4291.8	4682.0	4927.8	5124.4	5477.0	5749.3	5640.8	4466.9
57.5°	4669.0	4637.1	4534.6	4714.7	5276.6	5586.1	5800.5	5990.9	6125.9	5925.6	4630.9
60°	4856.3	4837.9	4840.3	5184.2	5959.5	6256.5	6374.9	6424.1	6495.7	6193.8	4640.0
62.5°	5035.1	5070.3	5189.8	5706.8	6613.4	6841.4	6901.1	6949.8	6866.0	6236.3	4286.9
65°	5337.6	5395.0	5680.3	6406.4	7332.7	7576.7	7638.3	7471.4	6924.7	5686.5	3487.0
67.5°	5485.6	5590.3	6099.4	7058.3	8030.3	8301.4	8278.6	7505.2	6214.0	4336.2	2237.8
69°	5454.8	5566.3	6196.1	7258.0	8262.0	8507.8	8363.1	7090.4	5293.9	3141.3	1373.7
70°	5332.8	5445.5	6146.3	7250.7	8291.5	8486.3	8206.6	6578.3	4476.2	2297.0	859.0
72.5°	4453.3	4550.6	5456.7	6553.7	7638.3	7479.8	6865.4	4557.6	2181.1	625.5	193.6
75°	2741.3	2795.4	3915.4	4937.2	5769.1	5362.3	4574.1	2267.3	650.3	176.8	107.3
77.5°	1448.2	1473.0	2143.4	2910.1	3657.1	3026.0	2344.3	884.4	299.6	110.9	77.7
80°	856.1	874.5	1154.3	1330.6	1582.6	1321.9	937.4	542.9	214.4	69.7	69.0
82.5°	489.9	501.7	837.0	739.6	623.8	532.4	466.5	514.5	128.7	46.8	71.4
85°	180.0	182.4	470.8	562.7	371.0	220.7	231.8	426.4	34.6	29.6	56.1
87.5°	83.8	81.9	242.3	344.5	216.9	139.9	180.6	93.7	13.6	19.1	15.5
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°	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9	1546.9
2.5°	1528.3	1505.6	1464.2	1421.7	1378.7	1345.3	1312.8	1286.8	1278.2	1262.2	1263.3
5°	1481.6	1439.7	1353.3	1265.8	1174.7	1099.4	1028.6	971.2	943.5	915.3	915.3
7.5°	1440.9	1379.8	1245.0	1102.5	955.3	831.4	719.8	636.0	589.7	552.7	552.2
10°	1425.5	1342.8	1154.3	950.2	745.1	576.3	443.8	358.7	314.9	286.6	285.3
12.5°	1432.3	1329.9	1084.7	809.8	552.2	370.5	256.9	202.2	183.7	175.0	175.0
15°	1452.0	1326.3	1015.1	672.4	390.1	231.8	170.7	155.9	154.7	154.7	154.7
17.5°	1476.1	1327.4	943.5	538.7	265.5	165.7	147.3	145.4	146.7	146.7	146.7
20°	1500.7	1328.1	866.5	414.7	187.3	144.2	138.7	138.1	139.2	139.2	139.9
22.5°	1530.8	1331.2	789.5	309.9	154.7	136.3	132.0	132.0	132.5	132.5	132.0
25°	1565.3	1337.3	709.3	229.8	141.2	130.7	127.0	126.3	127.0	126.3	125.8
27.5°	1608.5	1346.0	620.0	180.0	134.9	125.1	122.0	122.0	121.5	120.8	120.2
30°	1662.8	1355.8	519.5	152.8	128.7	120.2	117.0	116.5	115.8	114.7	114.7
32.5°	1745.3	1377.5	420.2	138.7	122.0	113.4	110.9	110.9	109.8	108.4	107.8
35°	1872.2	1420.0	331.6	130.1	114.7	106.0	102.9	102.9	101.7	101.1	100.5
37.5°	2048.0	1484.7	257.6	122.0	107.3	97.9	95.0	94.3	93.1	91.8	91.2
40°	2281.5	1564.8	202.7	114.7	99.8	90.0	87.6	86.2	83.8	81.9	81.9
42.5°	2574.8	1655.9	164.6	106.5	91.2	82.6	80.8	79.0	74.6	72.8	72.1
45°	2881.8	1738.0	139.2	97.3	82.6	75.2	74.0	70.8	65.3	63.5	63.5
47.5°	3103.0	1757.1	122.7	88.8	74.6	67.2	66.6	61.1	56.1	54.8	54.3
50°	3241.1	1719.4	109.1	80.0	67.2	59.7	57.9	51.2	48.1	46.8	46.3
52.5°	3334.1	1652.3	97.9	72.8	60.4	53.0	48.7	43.7	41.3	40.1	40.1
55°	3408.7	1557.3	86.9	65.9	54.8	47.4	41.3	37.5	35.2	33.9	33.9
57.5°	3429.6	1428.6	75.7	60.4	49.2	42.0	35.2	32.7	29.6	28.9	28.9
60°	3277.5	1196.3	67.2	53.5	44.3	36.3	30.8	27.8	24.7	24.1	23.4
62.5°	2876.3	925.7	59.2	47.4	38.8	31.4	26.5	22.7	20.3	20.3	20.3
65°	2194.0	620.5	51.7	41.3	33.9	26.5	22.7	18.4	17.2	17.2	17.8
67.5°	1313.3	337.8	44.3	35.2	28.9	22.2	19.1	16.0	15.5	16.0	16.0
69°	769.8	198.4	40.1	31.4	25.2	19.8	16.7	14.2	15.5	16.0	16.0
70°	475.2	133.8	37.0	28.3	22.7	17.8	15.5	13.6	14.8	15.5	15.5
72.5°	132.5	69.0	29.6	22.2	18.4	14.8	12.3	12.3	14.2	14.8	14.8
75°	86.2	51.2	22.7	16.7	14.2	11.7	10.5	11.7	13.6	14.2	14.2
77.5°	71.4	42.0	18.4	13.6	11.7	11.0	9.8	10.5	12.3	12.9	12.9
80°	65.3	29.6	14.8	12.3	10.5	9.8	9.3	8.7	11.0	11.7	11.7
82.5°	62.3	23.4	12.9	11.0	9.8	8.7	8.1	8.7	9.8	10.5	11.0
85°	38.8	15.5	11.7	10.5	8.7	8.1	8.1	8.1	9.3	9.8	9.8
87.5°	14.2	12.3	10.5	8.7	7.4	7.4	7.4	7.4	8.1	9.3	9.3
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)