

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: P319815

Luminaire Tested: **GLEON-SA1D-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5972 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

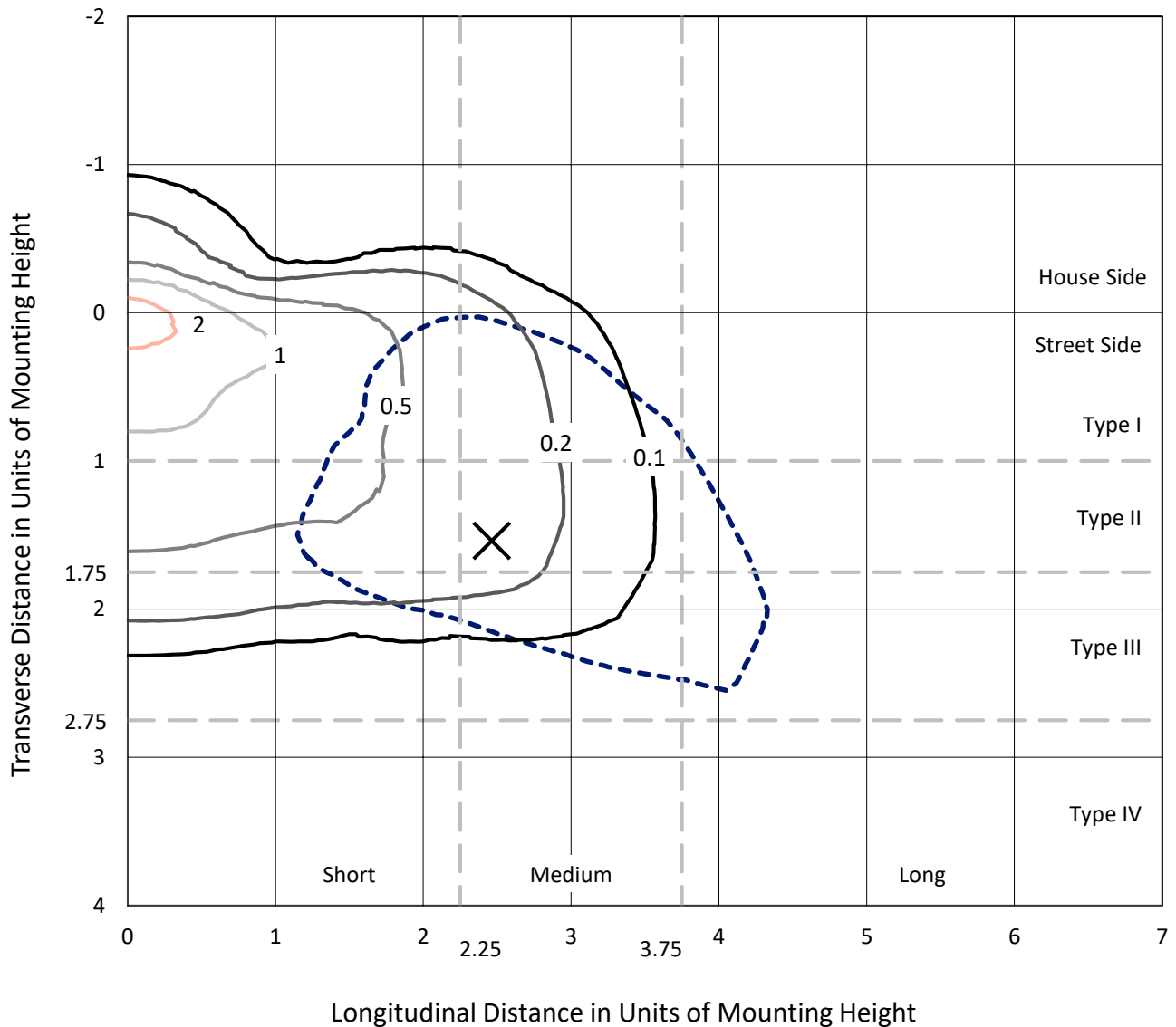
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

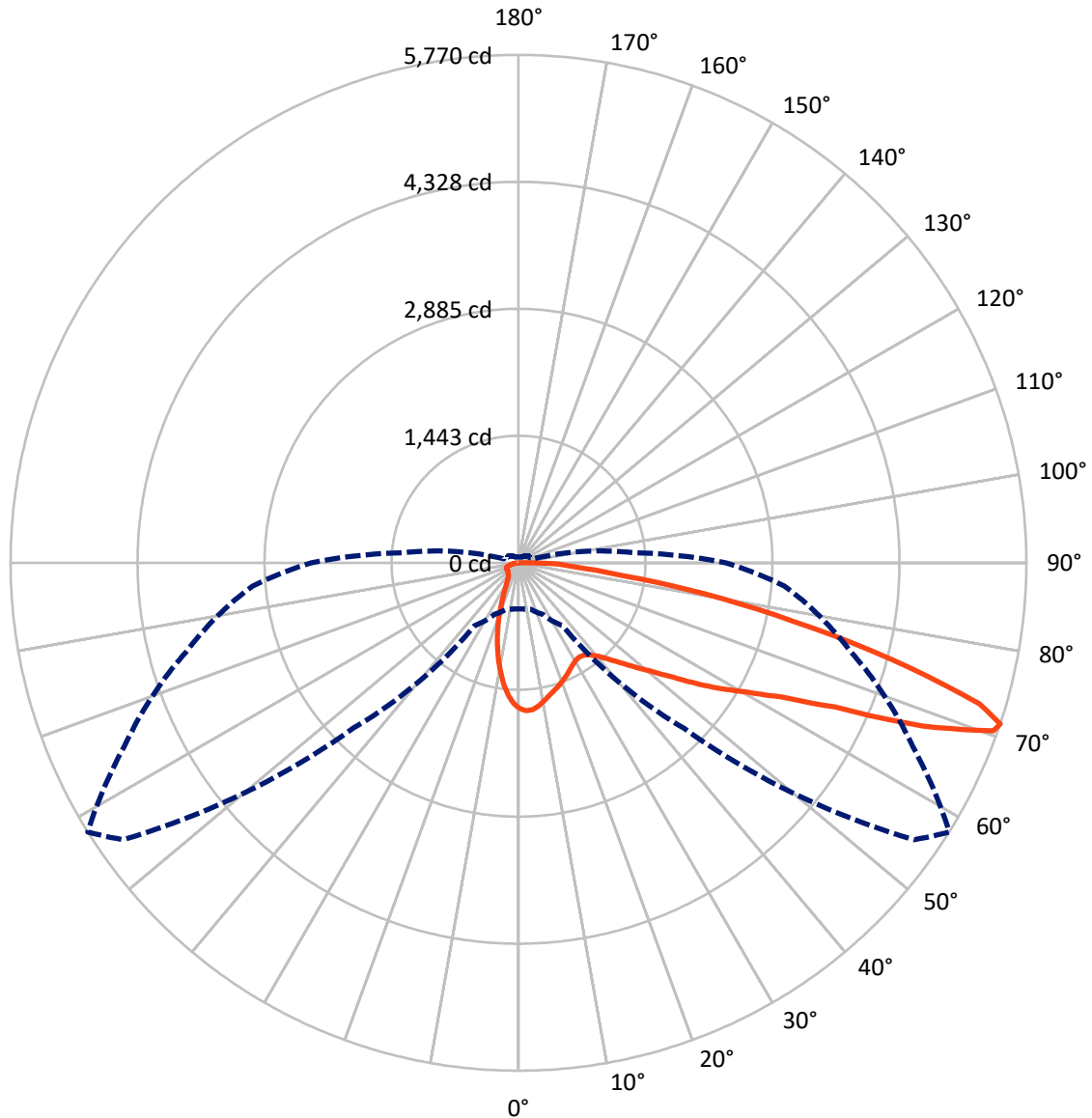
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P319815  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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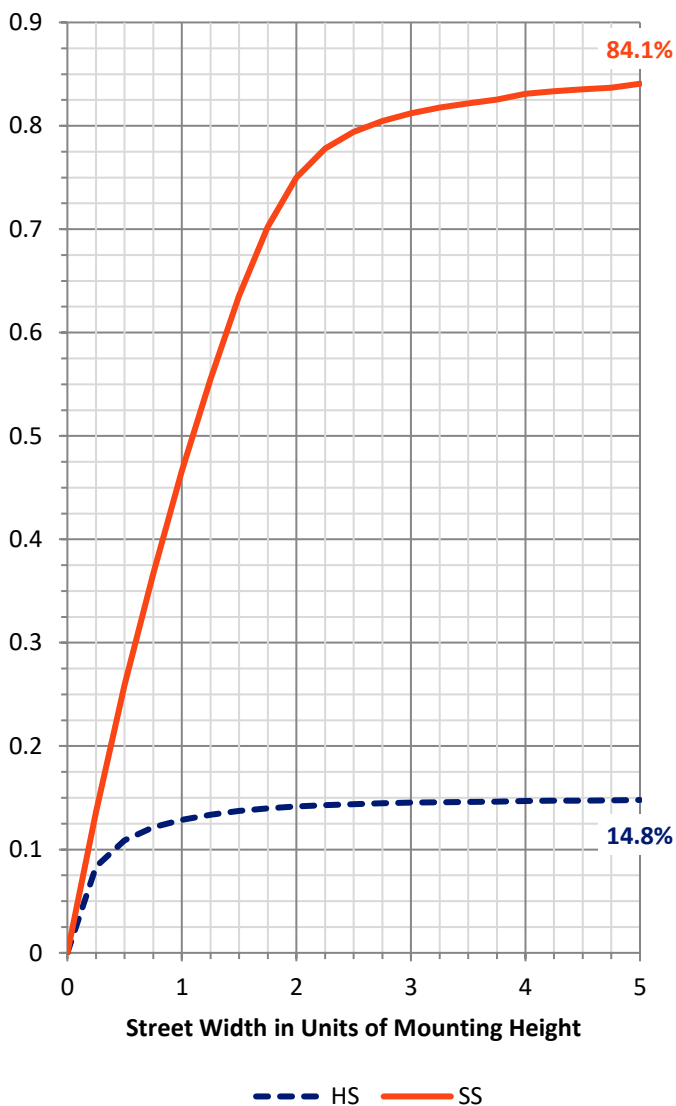
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	892.9	0.0	892.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	5079.1	0.0	5079.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	5972.0	0.0	5972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.7	2.4
10°-20°	317.4	5.3
20°-30°	403.4	6.8
30°-40°	513.8	8.6
40°-50°	728.7	12.2
50°-60°	1127.6	18.9
60°-70°	1535.1	25.7
70°-80°	1024.1	17.1
80°-90°	179.0	3.0
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°	5972.0	100.0
0°-180°	5972.0	100.0

**Coefficient of Utilization**



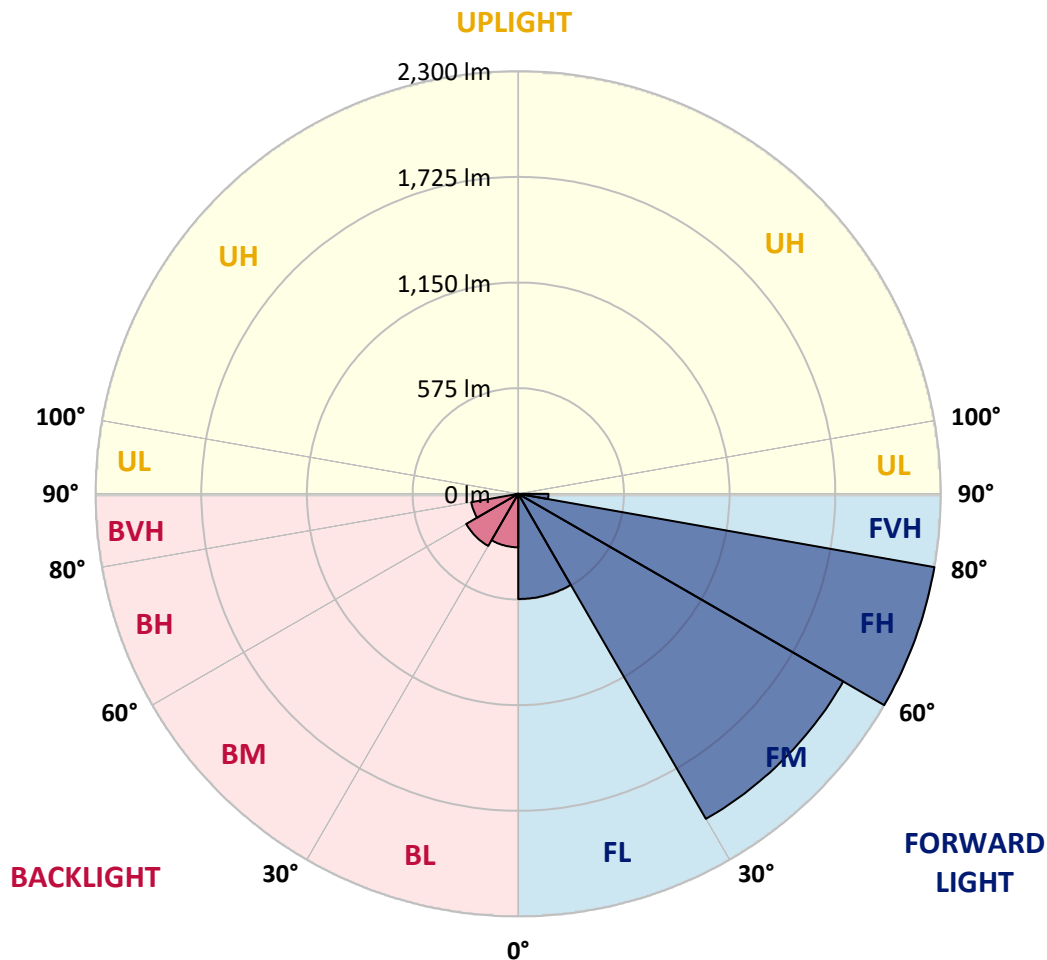
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 CATALOG NUMBER: GLEON-SA1D-827-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.5	9.6			
FM (30°-60°)	2042.7	34.2			
FH (60°-80°)	2299.7	38.5			G2/5000
FVH (80°-90°)	164.2	2.7			G2/225
BL (0°-30°)	291.0	4.9	B1/500		
BM (30°-60°)	327.4	5.5	B1/1000		
BH (60°-80°)	259.5	4.3	B1/500		G1/500
BVH (80°-90°)	14.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1698.5	1696.2	1697.1	1695.4	1691.5	1687.5	1681.7	1682.7	1674.6	1662.5	1647.6
5°	1666.5	1665.7	1671.9	1675.4	1678.4	1676.1	1674.4	1676.5	1664.6	1648.0	1622.0
7.5°	1599.3	1590.2	1598.1	1609.9	1621.2	1629.7	1640.9	1642.4	1634.9	1617.4	1583.3
10°	1503.8	1495.1	1506.7	1525.3	1547.7	1568.1	1590.8	1594.9	1596.4	1580.6	1539.2
12.5°	1404.8	1398.1	1409.8	1435.8	1473.0	1504.4	1540.6	1546.9	1559.8	1549.2	1498.4
15°	1316.2	1313.7	1327.8	1353.4	1396.3	1444.3	1496.5	1508.0	1529.8	1526.3	1466.6
17.5°	1239.6	1239.0	1249.8	1276.7	1324.1	1384.8	1452.6	1472.0	1504.4	1508.6	1440.4
20°	1182.6	1181.4	1188.9	1208.6	1257.5	1326.4	1405.2	1431.8	1478.7	1493.2	1413.3
22.5°	1152.1	1151.8	1152.1	1161.4	1201.4	1265.4	1359.0	1391.5	1453.5	1480.9	1383.4
25°	1146.9	1146.2	1141.6	1140.6	1163.3	1214.5	1313.3	1349.1	1429.6	1472.4	1354.9
27.5°	1160.4	1161.2	1155.2	1145.4	1150.0	1181.0	1273.5	1311.8	1410.4	1470.7	1335.1
30°	1188.5	1188.0	1182.8	1172.6	1163.7	1168.5	1245.2	1283.5	1397.5	1478.0	1321.6
32.5°	1219.5	1221.7	1220.7	1215.1	1201.8	1182.6	1236.7	1274.2	1393.8	1495.5	1315.8
35°	1256.7	1259.2	1266.7	1271.0	1255.4	1224.7	1255.0	1287.5	1404.6	1528.4	1325.1
37.5°	1292.1	1298.5	1319.5	1338.0	1324.7	1290.4	1303.7	1326.8	1438.1	1580.2	1350.3
40°	1332.8	1338.4	1372.8	1412.1	1410.0	1374.4	1382.1	1397.5	1497.2	1654.4	1395.9
42.5°	1373.0	1384.2	1433.9	1489.7	1505.7	1474.3	1486.6	1494.7	1580.4	1752.8	1475.3
45°	1426.4	1438.5	1507.6	1574.8	1612.2	1594.5	1614.1	1617.2	1685.0	1886.8	1590.8
47.5°	1507.4	1521.1	1601.6	1672.1	1729.3	1731.2	1763.4	1762.2	1815.7	2040.1	1736.2
50°	1633.4	1653.2	1719.1	1785.1	1854.6	1893.2	1936.3	1930.3	1972.3	2203.4	1903.7
52.5°	1798.6	1807.8	1856.6	1905.3	1991.6	2078.4	2140.2	2134.8	2150.0	2371.3	2093.8
55°	1969.8	1976.7	1996.8	2023.5	2139.6	2281.0	2411.7	2403.1	2364.6	2545.6	2281.6
57.5°	2123.7	2137.7	2151.6	2162.6	2288.5	2492.8	2689.4	2690.0	2597.6	2733.7	2475.7
60°	2147.7	2159.9	2252.1	2339.1	2543.3	2775.3	2986.6	2980.4	2838.7	2937.8	2692.1
62.5°	1898.5	1926.1	2080.1	2311.4	2788.8	3292.0	3365.9	3358.2	3127.1	3189.3	2944.0
65°	1360.5	1391.9	1577.7	1925.3	2669.8	3861.4	4050.3	3946.7	3520.2	3498.6	3239.0
67.5°	784.9	792.4	872.9	1152.1	2032.8	3891.1	5094.4	4949.4	4130.8	3849.5	3383.3
70°	580.4	580.2	599.3	709.0	1100.0	3175.7	5590.9	5720.9	4773.6	3965.0	3179.3
71°	524.9	525.5	546.9	645.3	871.2	2658.2	5485.5	5770.0	4942.9	3908.0	3031.6
72.5°	448.9	451.0	480.7	578.7	732.9	1833.1	5031.1	5475.5	5023.2	3767.4	2800.5
75°	340.5	345.3	386.5	487.8	669.8	929.7	3692.5	4372.3	4462.4	3324.3	2080.9
77.5°	243.0	248.4	295.0	410.2	636.8	700.6	2472.8	3189.3	3283.9	2130.4	938.6
80°	153.5	160.0	195.1	326.4	598.3	665.3	1554.0	2143.7	1790.7	681.7	238.8
82.5°	90.1	95.1	121.1	213.2	488.7	640.7	914.3	1188.2	696.9	205.9	108.6
85°	52.2	54.5	75.5	135.8	354.9	604.7	671.7	664.2	302.5	100.7	51.4
87.5°	24.3	27.0	44.7	70.9	197.0	438.3	530.9	458.7	188.1	47.2	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319815  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6	1654.6
2.5°	1640.3	1636.8	1622.0	1608.9	1595.1	1577.3	1557.5	1555.0	1542.9	1545.2	1541.1
5°	1607.8	1598.9	1563.3	1531.1	1493.0	1458.9	1421.9	1404.8	1380.3	1378.6	1372.4
7.5°	1561.4	1544.8	1489.7	1428.5	1367.4	1309.1	1251.5	1213.6	1174.9	1158.5	1157.0
10°	1509.2	1480.9	1399.8	1309.3	1221.1	1136.0	1053.7	992.7	937.8	911.8	910.7
12.5°	1459.7	1417.9	1306.6	1183.5	1062.8	952.6	839.6	759.5	690.6	667.6	657.8
15°	1417.7	1358.8	1215.9	1058.4	912.0	758.9	630.3	546.1	482.4	460.4	456.2
17.5°	1376.9	1301.2	1122.9	932.2	755.1	586.8	458.1	395.5	361.6	352.6	352.4
20°	1336.4	1241.9	1025.8	803.0	603.5	438.9	352.2	324.1	312.7	311.6	310.0
22.5°	1290.4	1179.1	923.6	673.4	471.0	345.1	299.4	288.1	286.7	290.4	290.4
25°	1247.3	1116.7	820.0	546.5	366.3	287.9	267.3	265.0	269.0	275.6	276.3
27.5°	1207.2	1056.6	718.9	433.7	293.5	253.6	245.1	247.8	254.8	262.5	262.7
30°	1174.1	999.8	620.8	341.8	248.0	228.0	226.5	231.9	239.6	245.7	247.1
32.5°	1148.5	951.3	525.9	274.8	218.2	208.9	210.1	214.7	219.5	222.8	225.1
35°	1136.7	909.7	438.3	231.7	199.3	194.1	195.8	198.2	200.3	202.8	204.7
37.5°	1138.7	877.5	360.1	204.9	186.6	183.9	183.9	183.9	183.9	185.1	185.4
40°	1158.1	858.9	296.4	187.8	178.1	175.2	172.9	170.8	169.1	170.0	169.5
42.5°	1207.6	857.3	249.8	177.0	171.2	166.4	161.8	158.9	156.9	157.7	158.1
45°	1291.6	878.1	218.4	169.3	164.8	157.5	151.7	148.5	147.1	149.8	150.2
47.5°	1400.4	923.4	199.3	163.7	158.7	149.2	142.9	140.0	140.4	144.4	145.4
50°	1540.6	997.1	190.1	160.2	154.6	142.1	135.6	133.1	134.4	140.0	141.3
52.5°	1694.6	1103.2	191.2	159.1	151.9	136.9	130.0	127.1	129.2	134.4	135.4
55°	1872.2	1230.7	208.4	160.6	147.9	133.6	125.4	120.4	122.1	126.9	127.7
57.5°	2069.7	1376.7	243.2	160.2	142.9	130.4	120.7	113.2	114.4	117.3	118.2
60°	2275.2	1553.1	297.1	161.4	140.6	126.7	114.2	104.8	104.4	106.9	107.3
62.5°	2521.9	1757.2	358.6	162.3	142.1	121.9	105.7	96.5	95.3	95.9	96.3
65°	2776.1	1904.9	335.5	158.9	146.7	118.0	98.2	88.4	86.1	85.7	85.9
67.5°	2784.0	1746.6	235.3	152.3	148.5	115.9	92.6	81.5	77.8	76.3	76.1
70°	2496.7	1418.9	183.3	145.2	141.0	112.5	87.4	75.9	70.3	68.0	67.8
71°	2356.5	1306.2	173.7	141.7	135.4	109.2	85.1	73.4	67.6	65.1	64.7
72.5°	2136.6	1171.0	162.1	136.0	124.6	100.7	80.7	69.9	63.9	61.0	60.3
75°	1533.4	765.7	139.2	121.3	103.2	80.3	70.7	62.8	57.6	54.1	53.7
77.5°	590.8	304.8	105.3	100.9	79.1	62.8	58.2	54.3	50.6	47.0	46.8
80°	182.6	136.3	76.8	75.9	57.2	46.8	45.3	44.3	42.9	39.1	38.3
82.5°	97.6	78.2	52.8	49.1	37.4	31.2	32.9	33.3	33.5	29.5	29.1
85°	46.6	41.4	29.7	27.9	21.8	17.5	20.2	21.8	22.1	18.1	16.9
87.5°	22.3	21.6	13.9	10.6	8.1	5.8	7.1	8.7	9.6	6.9	6.0
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)