

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: P940082

Luminaire Tested: **GALN-SB3A-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

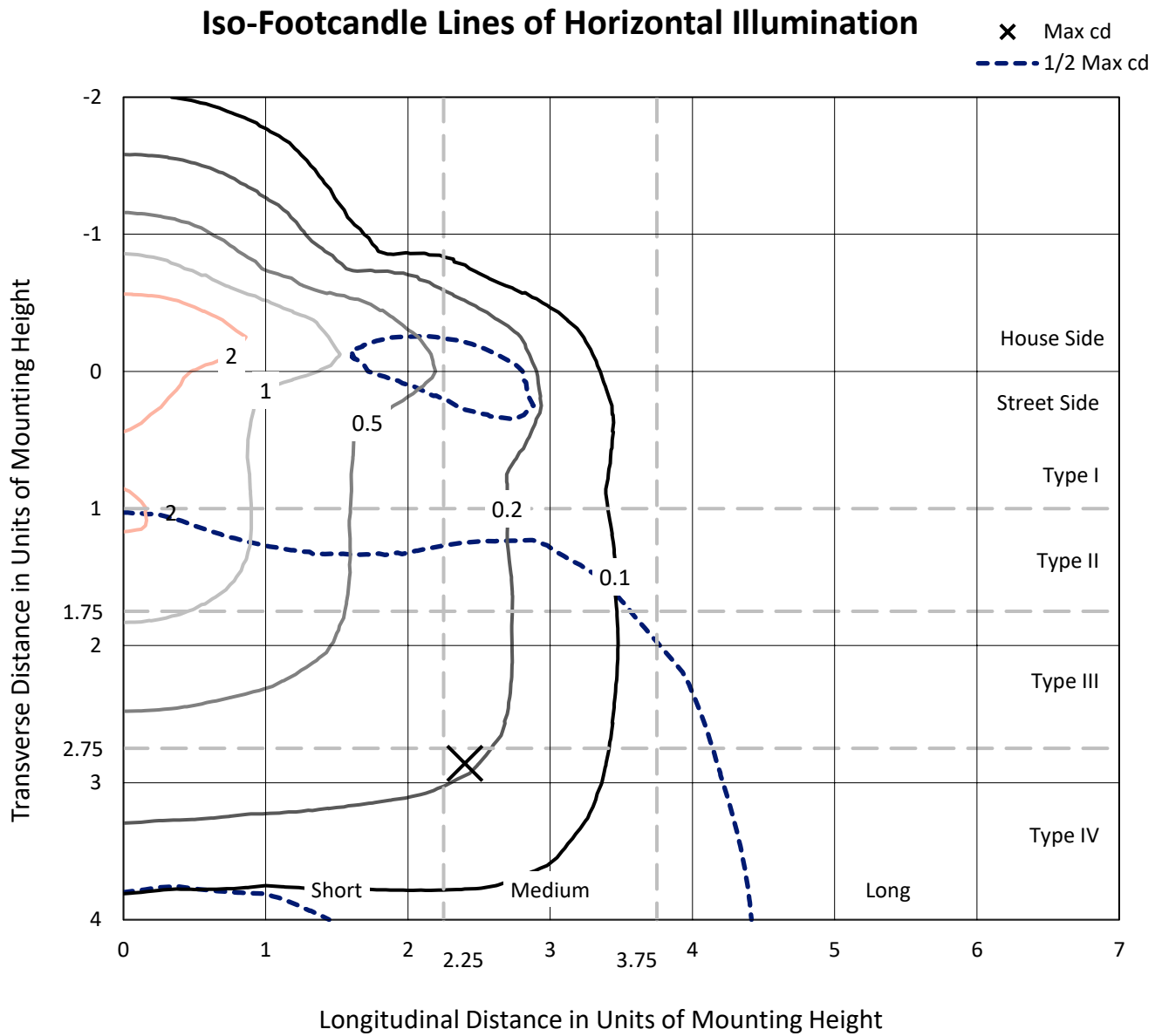
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12375 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 84.7
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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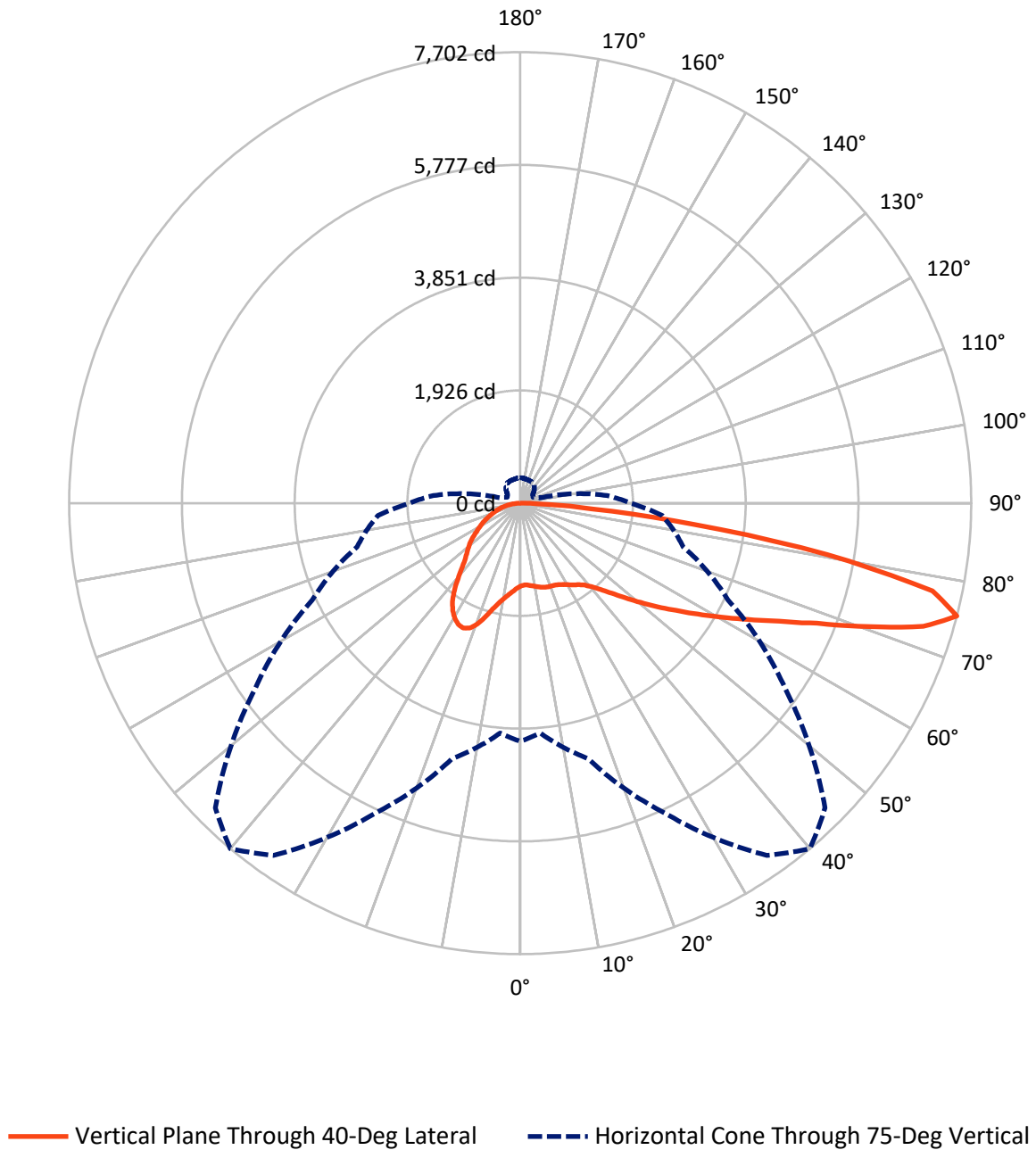


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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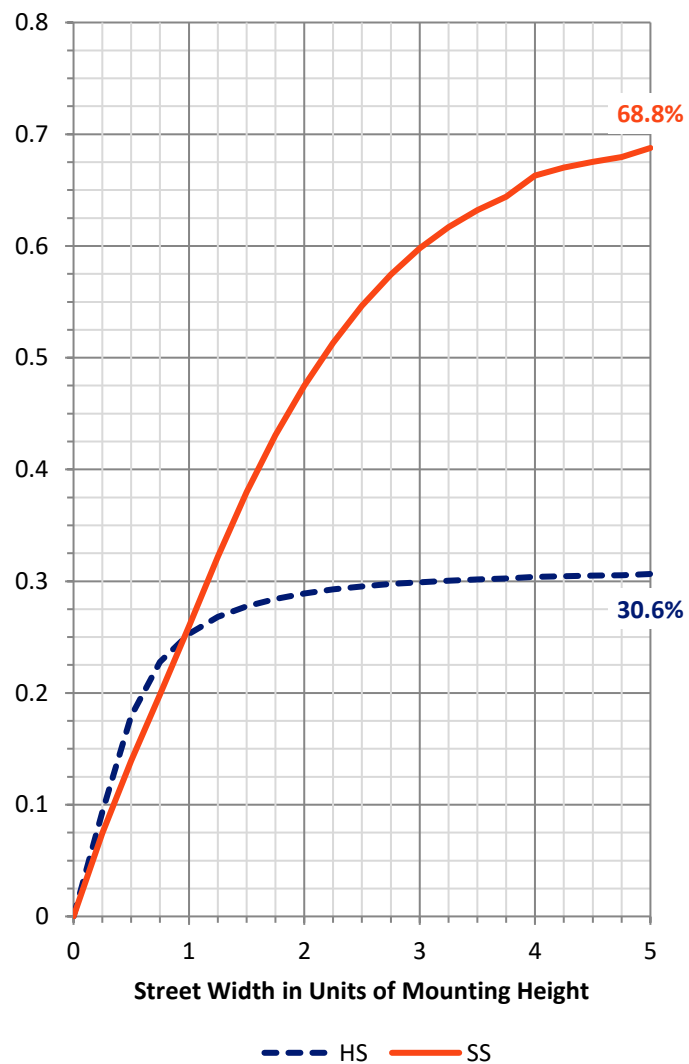
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3834.2	0.0	3834.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	8540.8	0.0	8540.8
	% Fixture	69.0	0.0	69.0
Total	Lumens	12375.0	0.0	12375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	1.1
10°-20°	474.3	3.8
20°-30°	865.9	7.0
30°-40°	1228.2	9.9
40°-50°	1658.4	13.4
50°-60°	2231.0	18.0
60°-70°	2831.6	22.9
70°-80°	2569.9	20.8
80°-90°	374.6	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°	12375.0	100.0
0°-180°	12375.0	100.0

Coefficient of Utilization



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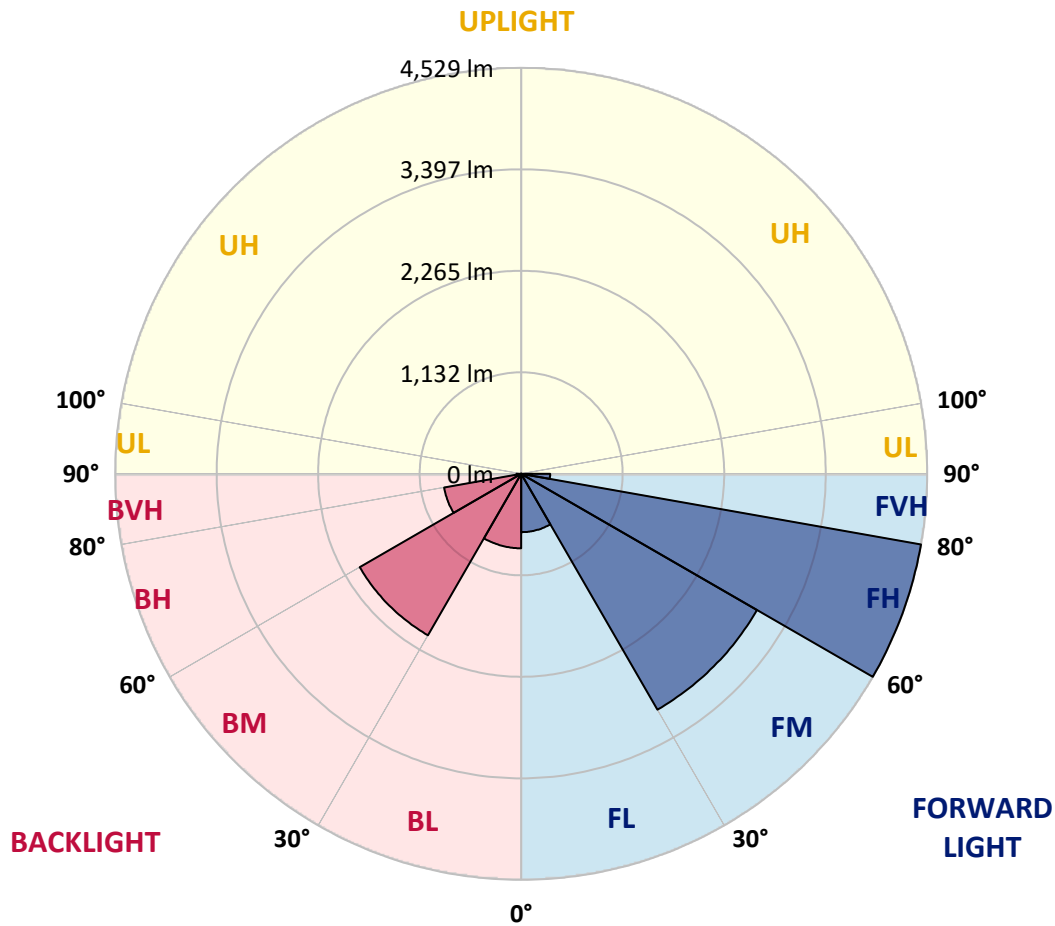
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.9	5.3			
FM	(30°-60°)	3037.8	24.5			
FH	(60°-80°)	4529.1	36.6			G2/5000
FVH	(80°-90°)	323.0	2.6			G3/500
BL	(0°-30°)	830.5	6.7	B2/1000		
BM	(30°-60°)	2079.7	16.8	B2/2500		
BH	(60°-80°)	872.4	7.0	B2/1000		G2/1000
BVH	(80°-90°)	51.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1
2.5°	1393.4	1401.3	1399.3	1396.7	1396.7	1397.4	1396.7	1401.3	1405.9	1410.5	1417.7
5°	1407.9	1415.8	1411.8	1408.5	1405.9	1405.3	1403.3	1402.6	1405.3	1411.2	1421.0
7.5°	1436.1	1444.0	1438.1	1432.2	1426.9	1424.3	1421.7	1417.7	1415.8	1419.0	1432.8
10°	1467.6	1475.5	1468.3	1457.8	1449.2	1445.9	1443.3	1439.4	1436.8	1438.7	1453.8
12.5°	1499.1	1507.0	1497.1	1482.7	1471.5	1469.6	1466.3	1465.0	1464.3	1463.7	1478.8
15°	1528.6	1535.2	1522.7	1505.7	1493.9	1490.6	1487.3	1489.3	1492.5	1496.5	1513.6
17.5°	1551.6	1558.2	1539.8	1517.5	1506.3	1505.0	1503.0	1509.6	1518.8	1528.6	1549.7
20°	1572.6	1579.2	1555.6	1525.4	1512.2	1512.2	1512.9	1526.7	1539.8	1554.2	1583.1
22.5°	1602.2	1607.4	1578.5	1537.2	1518.1	1519.5	1524.7	1538.5	1554.9	1574.6	1614.6
25°	1646.1	1650.1	1614.6	1559.5	1537.8	1541.8	1546.4	1552.9	1568.7	1591.7	1645.5
27.5°	1717.0	1720.3	1673.7	1598.9	1566.1	1572.6	1579.2	1574.6	1581.8	1601.5	1670.4
30°	1816.8	1818.8	1759.7	1660.6	1614.0	1617.3	1618.6	1599.5	1585.7	1601.5	1688.1
32.5°	1934.9	1934.3	1864.0	1735.4	1668.5	1665.2	1654.0	1616.6	1584.4	1598.2	1703.9
35°	2118.1	2110.8	2020.3	1840.4	1730.1	1709.8	1683.5	1635.6	1591.0	1594.9	1717.7
37.5°	2421.3	2399.0	2273.6	2012.4	1822.0	1770.2	1731.5	1666.5	1605.4	1593.6	1734.1
40°	2763.2	2735.0	2597.2	2248.0	1959.9	1876.5	1814.2	1710.5	1629.1	1599.5	1758.4
42.5°	3168.9	3128.8	2980.5	2525.6	2134.5	2013.7	1919.8	1766.2	1663.9	1618.6	1791.2
45°	3667.0	3613.9	3403.8	2838.7	2354.3	2193.5	2068.2	1850.9	1717.0	1655.3	1840.4
47.5°	4170.5	4183.6	3885.0	3197.1	2618.2	2415.4	2253.9	1978.2	1794.5	1714.4	1919.8
50°	4705.4	4714.6	4363.4	3594.2	2917.5	2666.1	2462.6	2120.7	1902.1	1798.4	2038.6
52.5°	5122.8	5124.2	4797.9	4009.7	3229.3	2941.8	2687.8	2283.5	2026.8	1910.0	2196.8
55°	5384.1	5380.8	5102.5	4402.8	3587.6	3231.2	2937.2	2468.5	2179.1	2041.3	2395.7
57.5°	5573.8	5563.9	5312.5	4740.8	3969.6	3573.2	3219.4	2678.6	2358.9	2197.5	2657.6
60°	5646.0	5640.0	5455.0	5032.9	4371.3	3951.2	3545.0	2913.6	2563.1	2381.9	2994.3
62.5°	5673.5	5684.7	5594.8	5315.8	4801.2	4370.0	3902.7	3194.5	2792.8	2590.6	3349.4
65°	5770.7	5791.0	5772.6	5686.0	5286.9	4860.3	4377.2	3528.6	3043.5	2814.4	3720.2
67.5°	5963.0	5983.3	5991.2	6129.0	5880.3	5471.4	4969.3	3944.7	3336.9	3046.8	3999.2
70°	5958.4	5952.5	6091.6	6481.5	6623.3	6317.4	5767.4	4456.6	3686.7	3239.8	4034.6
72.5°	5423.4	5376.2	5705.0	6477.6	7241.5	7200.9	6742.1	5116.9	3988.7	3263.4	3501.0
75°	4068.7	3942.7	4523.6	5837.6	7344.6	7702.3	7361.7	5526.5	3917.1	2883.4	2436.4
77.5°	1740.0	1613.3	2297.9	4321.4	6573.4	7200.2	6793.3	4821.6	3126.9	1906.7	1196.5
80°	455.5	454.9	694.4	1959.2	4470.4	5317.1	4664.7	3113.7	1786.6	681.3	330.1
82.5°	188.4	183.8	255.3	762.0	2184.3	2983.8	2435.1	1388.8	645.2	184.4	109.6
85°	70.2	69.6	124.1	263.2	770.6	1230.7	890.7	355.1	160.8	89.9	49.2
87.5°	19.7	19.0	26.9	91.2	187.7	284.9	152.3	58.4	45.3	35.4	14.4
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°	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1	1415.1
2.5°	1419.7	1423.0	1428.9	1433.5	1439.4	1445.9	1455.1	1461.0	1466.9	1470.9	1468.3
5°	1425.6	1432.8	1447.9	1463.0	1480.7	1497.1	1516.2	1530.0	1541.1	1544.4	1545.7
7.5°	1438.7	1450.5	1476.1	1501.7	1530.0	1556.9	1584.4	1608.1	1627.1	1634.3	1635.0
10°	1461.7	1477.5	1513.6	1549.7	1587.1	1628.4	1663.9	1698.0	1724.9	1736.1	1736.7
12.5°	1490.6	1510.3	1557.5	1607.4	1659.3	1716.4	1762.3	1804.3	1837.8	1852.9	1852.9
15°	1528.0	1553.6	1614.0	1680.9	1757.1	1836.5	1894.9	1941.5	1978.9	1997.3	1996.0
17.5°	1568.7	1602.8	1679.0	1780.0	1889.0	1993.3	2061.6	2095.7	2134.5	2152.2	2151.5
20°	1608.1	1650.1	1759.0	1906.1	2051.1	2162.0	2217.2	2226.4	2229.0	2230.9	2236.2
22.5°	1648.8	1705.2	1859.4	2064.9	2220.4	2297.2	2305.1	2265.7	2210.6	2185.0	2192.2
25°	1693.4	1768.2	1990.7	2240.1	2366.2	2375.3	2315.0	2219.1	2114.8	2066.9	2074.1
27.5°	1736.7	1841.1	2148.2	2407.5	2471.2	2390.4	2260.5	2124.6	1998.6	1948.1	1954.0
30°	1780.0	1924.4	2322.2	2553.9	2519.1	2353.0	2174.5	2022.9	1896.2	1843.0	1848.9
32.5°	1824.0	2021.6	2522.4	2659.5	2510.6	2273.6	2067.5	1908.7	1797.1	1741.3	1748.5
35°	1873.9	2141.0	2712.1	2717.3	2453.4	2156.8	1926.4	1772.2	1675.0	1630.4	1640.2
37.5°	1938.9	2292.6	2879.4	2731.7	2353.7	1985.5	1751.2	1610.7	1530.6	1510.3	1524.7
40°	2019.6	2475.1	3007.4	2708.8	2206.0	1777.4	1559.5	1447.3	1402.0	1406.6	1422.3
42.5°	2124.6	2679.2	3097.3	2649.7	2000.6	1562.8	1391.5	1341.6	1363.2	1381.6	1398.7
45°	2261.1	2891.2	3153.1	2549.3	1768.2	1381.0	1292.4	1304.2	1320.6	1322.6	1335.7
47.5°	2435.7	3105.9	3189.9	2397.7	1531.3	1253.0	1229.3	1232.0	1228.7	1214.9	1225.4
50°	2653.6	3314.6	3222.7	2196.8	1329.8	1172.9	1141.4	1132.2	1086.9	1042.3	1048.2
52.5°	2901.7	3506.2	3236.5	1947.4	1172.9	1106.0	1054.8	997.0	912.3	898.5	903.1
55°	3177.4	3683.5	3201.0	1640.9	1041.0	1020.0	942.5	872.9	863.8	851.9	853.9
57.5°	3506.9	3874.5	3128.8	1298.9	905.8	919.6	844.1	851.9	835.5	817.2	813.9
60°	3867.2	4072.0	3002.2	987.2	766.0	794.2	818.5	817.8	813.2	798.1	792.9
62.5°	4191.5	4202.0	2752.7	756.1	643.2	697.0	763.3	762.7	758.7	750.2	746.9
65°	4384.4	4182.3	2336.6	595.3	542.1	617.0	688.5	693.8	694.4	693.8	693.8
67.5°	4350.3	3951.9	1765.6	473.9	458.8	535.6	614.3	621.6	626.8	628.1	629.4
70°	3964.4	3445.9	1151.2	378.1	384.6	464.0	544.1	551.3	555.9	561.2	563.8
72.5°	3090.1	2533.5	659.0	305.9	319.6	402.3	474.5	483.1	485.7	495.5	499.5
75°	1883.1	1489.9	355.7	240.9	262.5	343.9	405.6	415.5	420.1	431.9	433.2
77.5°	895.3	645.2	202.8	187.7	211.3	280.9	342.6	353.8	341.3	347.9	342.6
80°	302.6	239.6	128.0	143.1	161.5	219.2	274.4	285.5	259.3	257.9	255.3
82.5°	105.7	97.1	81.4	95.2	104.4	156.9	207.4	221.8	193.0	192.3	183.1
85°	41.4	39.4	45.3	51.9	62.4	96.5	136.5	143.7	118.8	95.8	94.5
87.5°	8.5	9.2	11.2	11.8	19.0	33.5	49.2	60.4	47.9	40.7	37.4
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)