

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: LUMARK

Report Number: P963712

Luminaire Tested: **NAV-SB3A-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12770.5 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
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

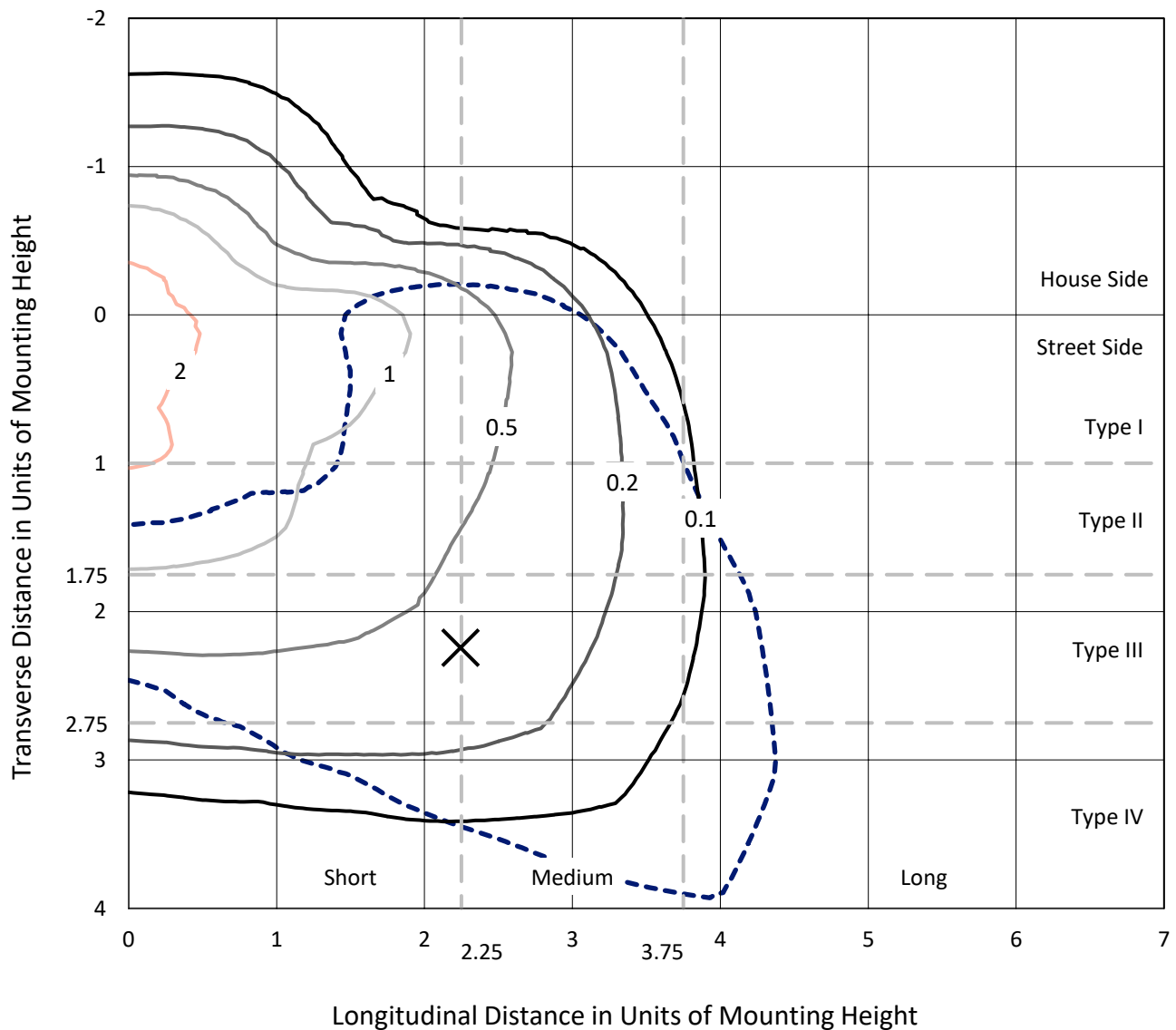


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Iso-Footcandle Lines of Horizontal Illumination

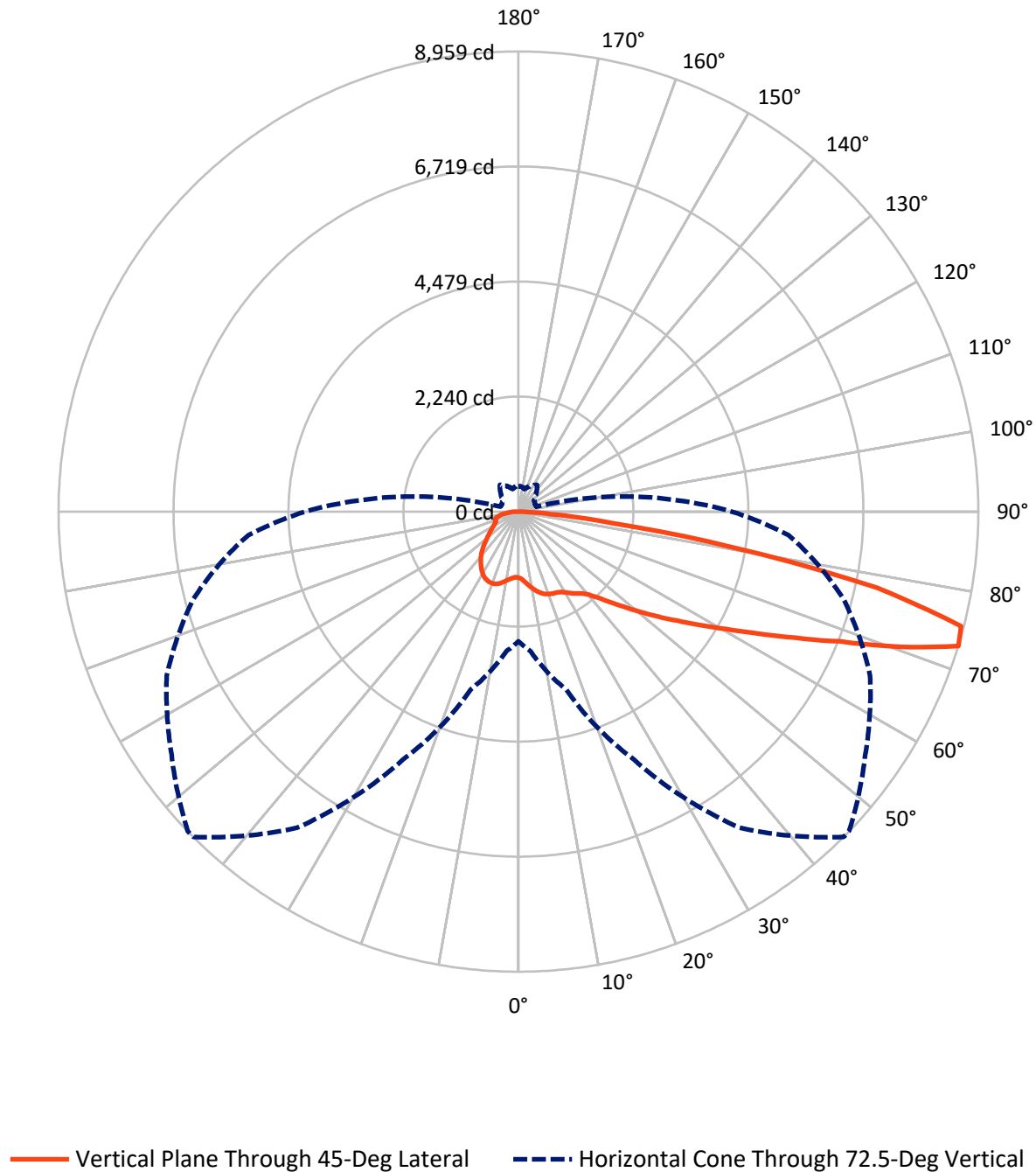
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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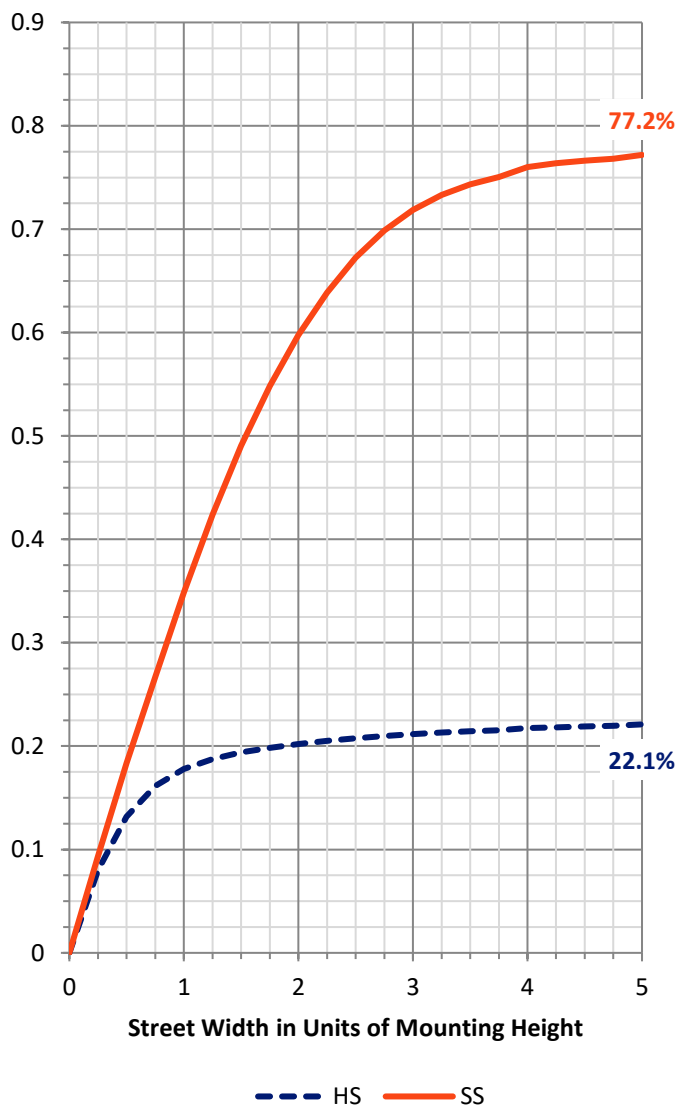
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2887.0	0.0	2887.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9883.5	0.0	9883.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	12770.5	0.0	12770.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	1.0
10°-20°	437.2	3.4
20°-30°	760.5	6.0
30°-40°	1090.2	8.5
40°-50°	1535.1	12.0
50°-60°	2351.3	18.4
60°-70°	3406.2	26.7
70°-80°	2720.1	21.3
80°-90°	338.8	2.7
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°	12770.5	100.0
0°-180°	12770.5	100.0

Coefficient of Utilization



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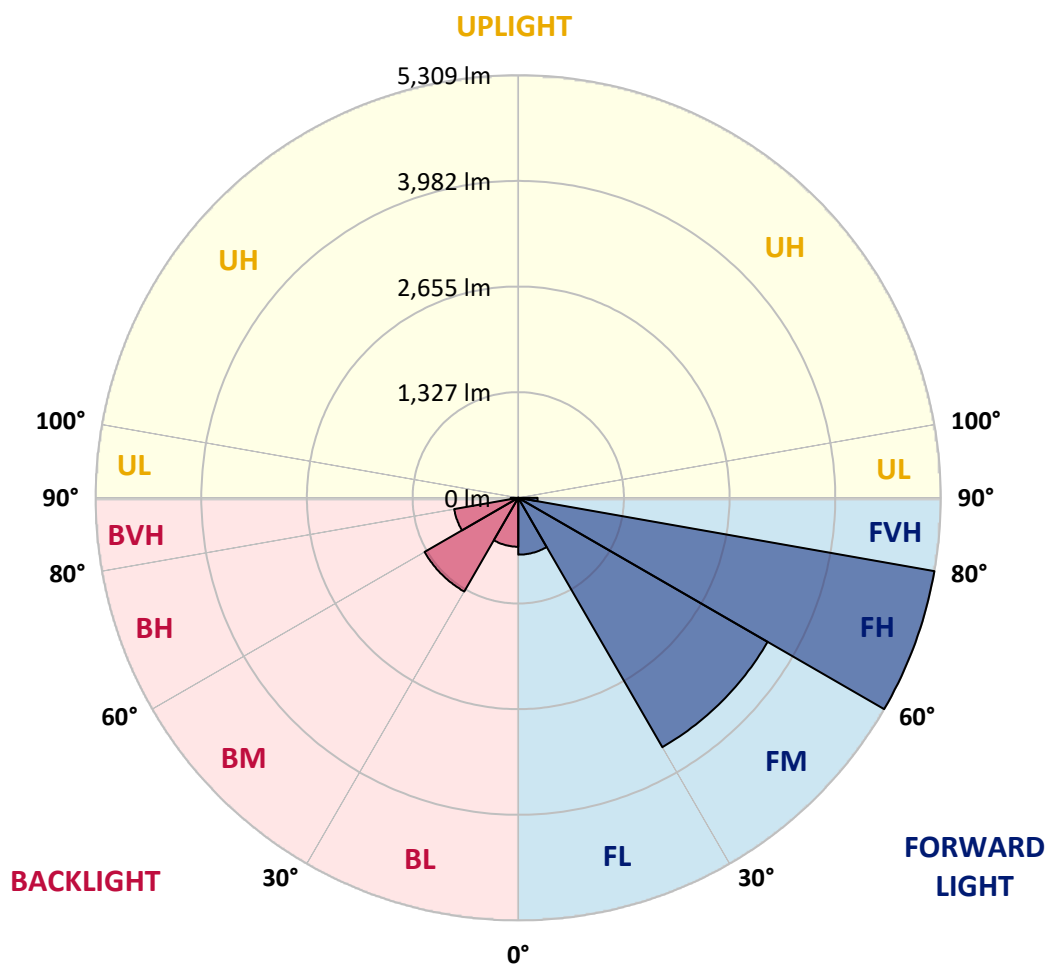
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	714.1	5.6			
FM	(30°-60°)	3617.3	28.3			
FH	(60°-80°)	5309.1	41.6			G3/7500
FVH	(80°-90°)	243.0	1.9			G3/500
BL	(0°-30°)	614.7	4.8	B2/1000		
BM	(30°-60°)	1359.3	10.6	B2/2500		
BH	(60°-80°)	817.2	6.4	B2/1000		G2/1000
BVH	(80°-90°)	95.7	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3
2.5°	1338.8	1347.5	1339.5	1332.0	1328.7	1319.9	1319.3	1313.8	1310.5	1301.0	1298.4
5°	1432.2	1443.7	1430.3	1415.4	1402.0	1380.5	1377.8	1362.3	1344.8	1324.6	1313.2
7.5°	1537.9	1548.0	1532.5	1510.3	1486.8	1451.1	1450.4	1422.2	1394.6	1360.3	1340.8
10°	1630.1	1643.5	1622.7	1592.3	1562.8	1522.4	1517.7	1485.4	1450.4	1406.0	1376.4
12.5°	1711.4	1720.9	1700.7	1663.7	1629.3	1589.0	1582.9	1547.3	1508.3	1457.9	1420.1
15°	1776.0	1788.1	1761.3	1721.5	1685.2	1645.5	1640.1	1607.8	1568.9	1515.7	1467.3
17.5°	1818.5	1828.5	1800.9	1756.5	1721.5	1688.6	1684.5	1657.6	1623.3	1569.5	1517.7
20°	1834.5	1845.3	1816.4	1771.3	1739.0	1713.5	1711.4	1692.0	1668.4	1619.3	1566.8
22.5°	1850.7	1860.8	1823.2	1776.0	1747.7	1731.6	1730.9	1718.2	1708.8	1668.4	1617.2
25°	1915.9	1918.7	1868.2	1800.2	1759.9	1745.8	1745.1	1744.4	1748.4	1716.9	1671.8
27.5°	1972.5	1971.8	1928.7	1864.8	1802.3	1772.6	1772.0	1778.7	1791.5	1765.3	1728.3
30°	2055.2	2047.8	1996.7	1930.1	1872.9	1827.2	1823.2	1817.0	1827.2	1806.3	1784.7
32.5°	2230.8	2207.2	2124.5	2006.1	1931.4	1896.5	1891.0	1853.4	1857.4	1844.7	1833.9
35°	2482.4	2451.5	2341.1	2150.0	2004.1	1954.3	1951.6	1903.8	1895.7	1884.4	1888.4
37.5°	2781.7	2743.4	2615.0	2358.6	2129.2	2021.6	2017.5	1974.5	1941.6	1929.5	1952.3
40°	3082.5	3034.0	2927.7	2612.9	2313.5	2133.9	2121.1	2055.8	2018.2	1998.0	2046.5
42.5°	3374.4	3334.1	3243.3	2898.2	2541.0	2298.0	2269.9	2158.1	2129.8	2111.1	2198.5
45°	3632.8	3596.4	3529.9	3202.9	2807.4	2521.4	2493.8	2311.5	2302.8	2302.8	2429.2
47.5°	3842.7	3834.6	3764.0	3513.7	3121.5	2775.7	2727.9	2524.8	2548.4	2584.6	2756.8
50°	4075.4	4053.3	3977.9	3819.8	3490.8	3067.0	3028.0	2786.5	2874.6	2974.1	3230.5
52.5°	4289.4	4301.5	4217.4	4138.6	3907.9	3391.9	3323.4	3095.3	3285.6	3450.5	3785.5
55°	4509.4	4510.0	4486.5	4475.8	4345.2	3751.2	3675.9	3466.7	3769.3	3973.8	4432.7
57.5°	4715.9	4717.3	4752.2	4847.1	4852.5	4165.6	4080.1	3922.8	4306.8	4515.4	5100.0
60°	4900.2	4909.6	5005.2	5227.2	5298.4	4640.6	4559.8	4461.6	4862.5	5072.4	5801.7
62.5°	4962.1	4996.5	5209.0	5524.5	5739.1	5223.1	5143.8	5085.2	5446.4	5641.6	6388.3
65°	4857.2	4935.9	5346.9	5770.0	6192.5	5915.4	5836.7	5772.8	6053.3	6236.9	6870.0
67.5°	4599.5	4701.1	5338.8	6027.7	6742.9	6748.2	6674.9	6524.8	6703.8	6774.4	7026.8
70°	3920.7	4072.7	4868.6	6124.0	7374.6	7887.2	7816.5	7430.4	7353.0	7011.3	6585.4
72.5°	2526.1	2730.6	3585.0	5332.2	7515.2	8958.8	8954.8	8247.8	7558.2	6551.1	5281.6
75°	921.7	1046.7	1665.7	3346.8	6308.3	8904.4	8930.6	8107.9	6899.6	5060.3	3290.4
77.5°	335.7	367.4	543.6	1286.3	3879.7	7144.5	7199.0	6481.8	4911.0	2539.5	1303.8
80°	176.3	193.7	278.5	499.2	1662.3	4243.0	4328.4	3852.1	2308.2	764.9	390.8
82.5°	97.6	105.6	156.1	271.1	748.8	1814.4	1865.5	1521.7	812.0	324.3	161.4
85°	52.5	55.9	73.3	148.0	365.9	629.0	643.2	454.8	323.6	190.3	78.0
87.5°	15.5	18.9	24.2	47.0	143.3	141.2	144.6	90.1	127.8	96.2	25.5
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°	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3	1288.3
2.5°	1294.4	1292.3	1284.9	1281.6	1277.6	1276.8	1280.2	1280.9	1281.6	1282.3	1284.9
5°	1306.5	1299.7	1293.0	1288.9	1290.3	1291.0	1297.8	1302.5	1305.7	1308.5	1309.8
7.5°	1330.0	1324.6	1313.2	1312.5	1314.6	1320.6	1329.3	1340.1	1346.1	1350.8	1352.2
10°	1365.0	1354.8	1341.4	1343.5	1347.5	1356.3	1374.4	1383.1	1393.3	1402.0	1399.9
12.5°	1400.7	1391.8	1376.4	1377.8	1384.5	1399.9	1417.5	1428.2	1435.0	1441.7	1444.3
15°	1447.1	1431.6	1414.8	1414.8	1426.9	1443.7	1451.8	1460.5	1464.5	1471.9	1474.7
17.5°	1494.9	1474.7	1452.4	1451.1	1465.9	1473.9	1478.7	1480.0	1481.3	1489.4	1492.1
20°	1542.6	1520.4	1488.8	1486.0	1489.4	1488.1	1487.4	1486.0	1488.1	1498.1	1502.2
22.5°	1589.7	1564.1	1520.4	1508.3	1498.9	1486.0	1485.4	1484.7	1486.0	1496.2	1502.9
25°	1644.8	1613.9	1555.3	1519.0	1487.4	1470.0	1471.9	1472.6	1473.9	1482.0	1492.8
27.5°	1704.7	1670.4	1587.6	1515.7	1458.5	1446.4	1443.0	1445.0	1449.8	1462.6	1475.3
30°	1764.6	1724.3	1617.2	1502.2	1422.2	1405.4	1394.6	1399.3	1414.1	1426.9	1441.0
32.5°	1819.1	1778.7	1640.8	1472.6	1375.8	1349.5	1335.4	1341.4	1356.3	1361.0	1377.8
35°	1883.0	1837.2	1650.9	1425.6	1325.3	1284.9	1266.1	1257.4	1264.7	1260.0	1274.8
37.5°	1954.3	1906.5	1649.5	1363.7	1266.1	1219.6	1193.4	1160.5	1145.0	1128.8	1139.0
40°	2059.9	1991.3	1633.4	1288.9	1192.8	1150.4	1103.3	1047.4	1012.5	980.8	982.9
42.5°	2203.9	2109.0	1603.8	1206.9	1110.0	1070.3	1006.4	941.2	886.0	833.5	828.8
45°	2418.5	2263.1	1566.8	1119.4	1020.6	981.5	912.2	838.9	776.3	709.1	701.0
47.5°	2727.9	2470.2	1531.9	1019.9	926.4	890.7	828.1	760.2	686.2	620.9	613.6
50°	3153.1	2767.6	1499.6	923.0	833.5	806.6	756.9	687.6	612.8	560.4	557.0
52.5°	3694.0	3172.0	1486.0	829.5	746.7	736.7	697.0	632.3	561.7	517.3	513.9
55°	4314.9	3655.7	1486.0	740.0	670.8	674.0	646.5	586.6	525.4	485.7	481.6
57.5°	4948.7	4145.4	1459.2	657.2	606.2	620.2	602.8	550.3	495.2	454.1	447.4
60°	5532.6	4555.8	1350.2	581.9	549.0	571.1	559.8	514.7	447.4	413.1	407.6
62.5°	5981.3	4787.2	1140.3	522.0	501.8	527.5	521.4	467.5	438.6	424.5	419.7
65°	6206.0	4749.5	871.9	468.9	462.2	501.8	489.1	487.1	464.2	448.0	442.7
67.5°	6068.1	4425.2	632.3	429.9	439.3	478.4	527.5	535.5	493.1	461.5	456.1
70°	5463.4	3838.6	470.9	392.9	410.4	479.0	601.5	560.4	483.7	446.7	440.6
72.5°	4156.2	2862.5	365.3	353.8	372.7	482.4	634.4	549.0	456.7	493.7	489.7
75°	2376.8	1571.5	293.4	306.1	325.6	450.7	617.6	519.4	435.9	453.5	453.5
77.5°	906.2	604.1	242.2	259.0	261.7	393.6	590.7	517.3	415.1	405.0	369.3
80°	314.2	236.2	200.5	205.8	202.5	349.8	566.4	450.1	339.7	304.1	294.0
82.5°	128.5	117.8	158.8	152.0	144.0	271.8	457.5	368.0	277.9	245.6	242.8
85°	55.9	74.7	105.0	92.1	83.4	188.4	366.6	311.5	234.8	202.5	201.8
87.5°	11.5	28.3	44.4	41.7	43.0	125.8	260.3	221.3	166.2	124.4	97.6
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)