

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: P961936

Luminaire Tested: **NAV-SB2B-735-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-735-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11697.3 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

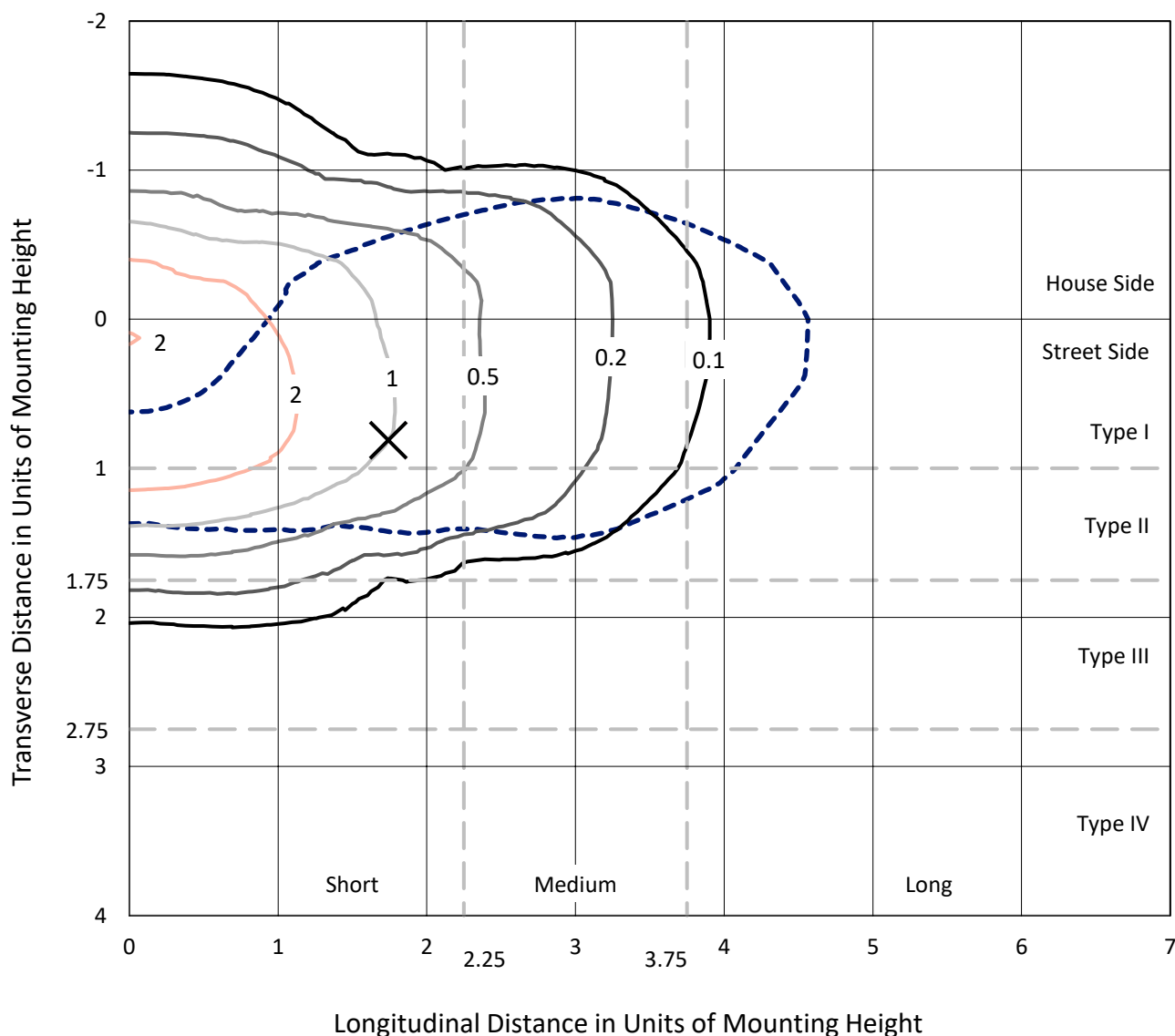
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

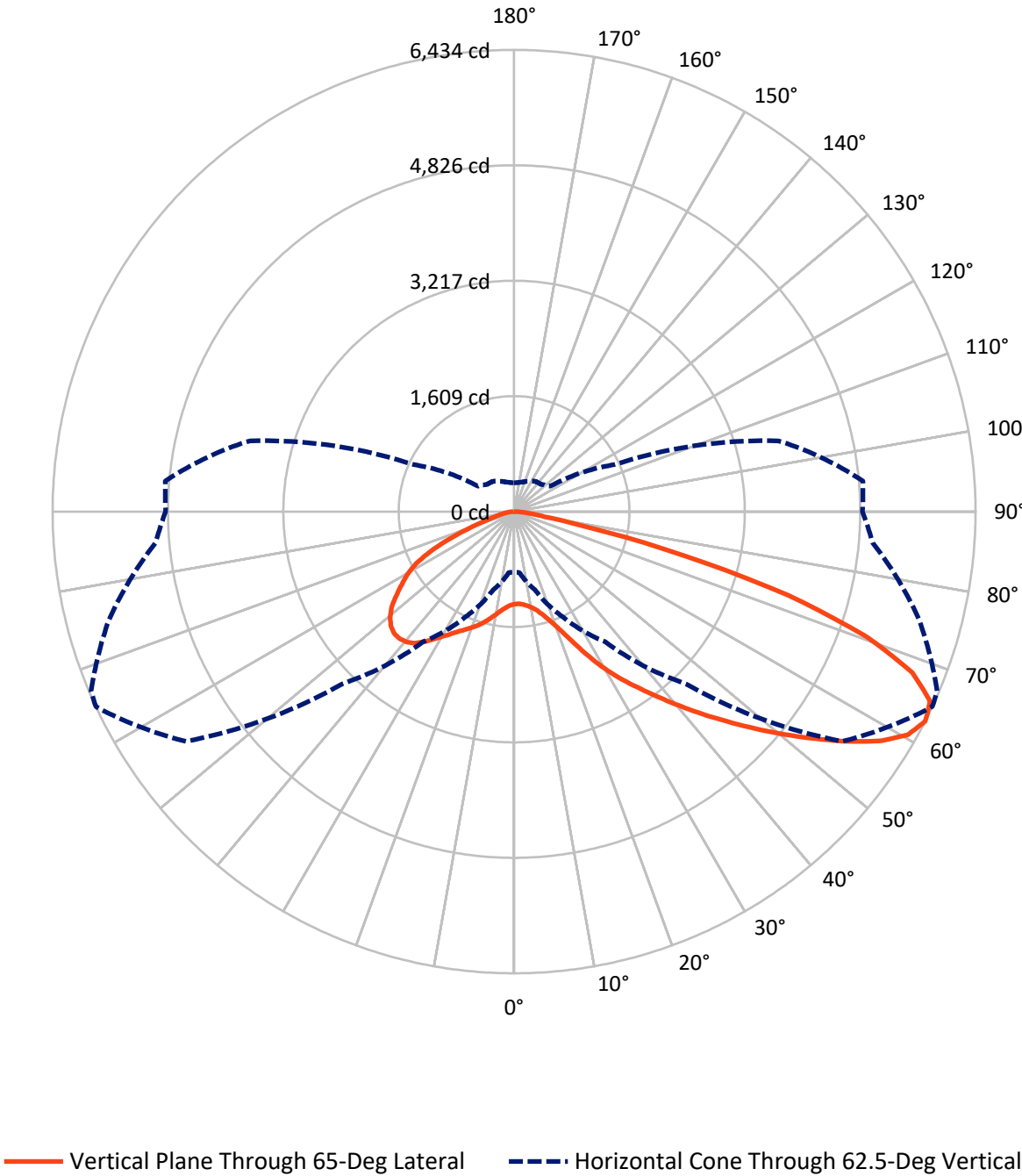
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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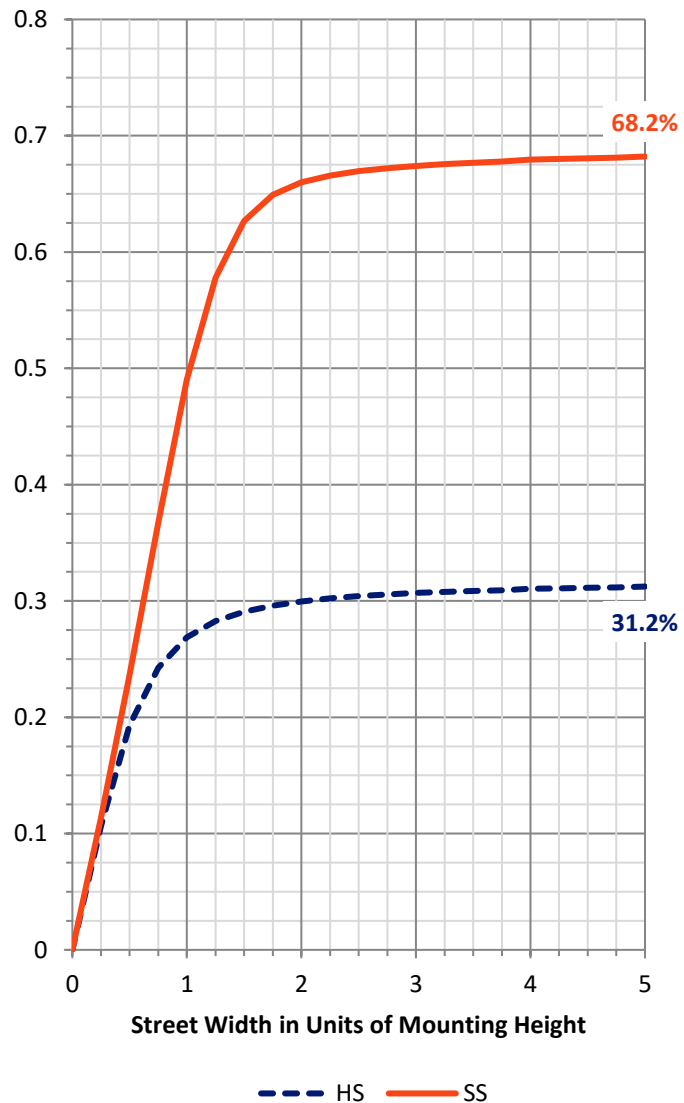
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3691.2	0.0	3691.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	8006.1	0.0	8006.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	11697.3	0.0	11697.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	1.1
10°-20°	435.8	3.7
20°-30°	883.6	7.6
30°-40°	1529.1	13.1
40°-50°	2314.0	19.8
50°-60°	2713.0	23.2
60°-70°	2274.5	19.4
70°-80°	1255.7	10.7
80°-90°	163.1	1.4
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°	11697.3	100.0
0°-180°	11697.3	100.0

Coefficient of Utilization



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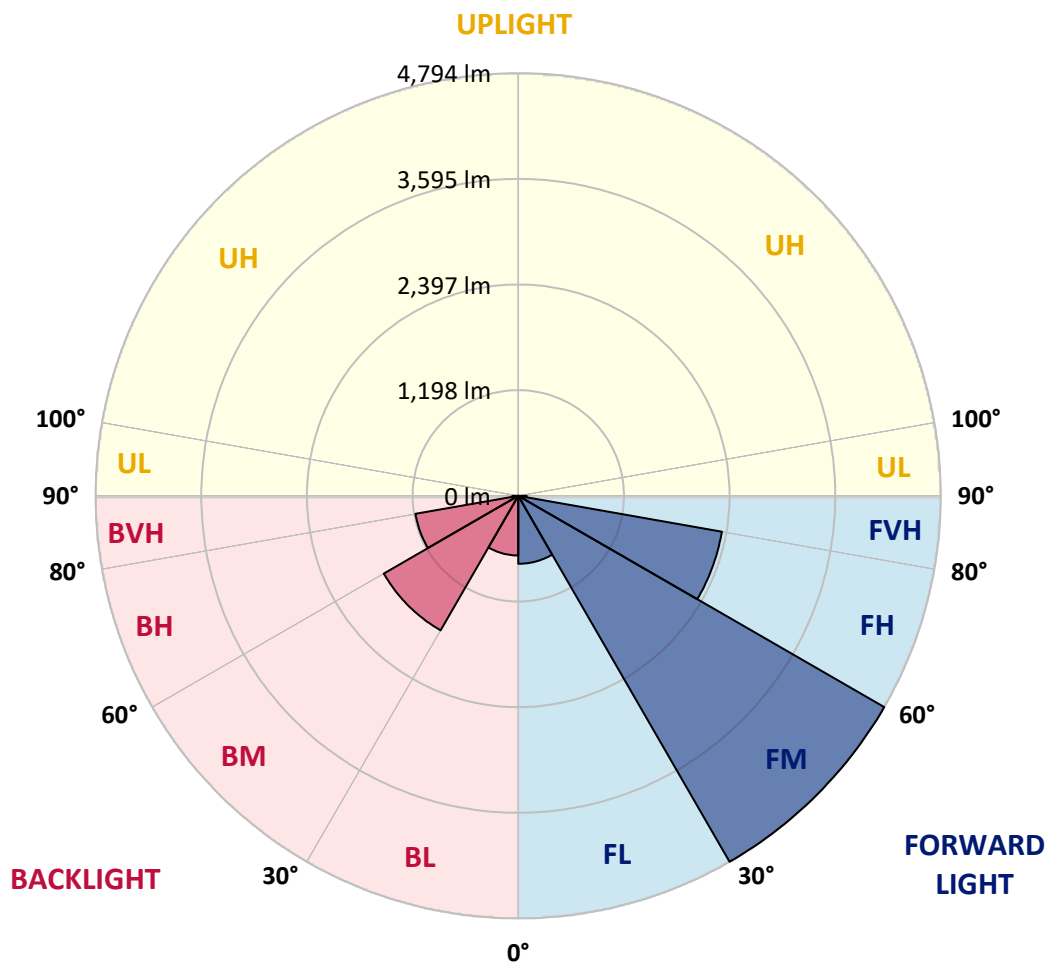
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	771.0	6.6			
FM	(30°-60°)	4793.9	41.0			
FH	(60°-80°)	2346.1	20.1			G2/5000
FVH	(80°-90°)	95.1	0.8			G1/100
BL	(0°-30°)	676.9	5.8	B2/1000		
BM	(30°-60°)	1762.1	15.1	B2/2500		
BH	(60°-80°)	1184.1	10.1	B3/2500		G3/2500
BVH	(80°-90°)	68.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0
2.5°	1280.5	1276.8	1279.9	1279.9	1281.1	1280.5	1284.7	1286.0	1287.8	1291.4	1291.4
5°	1267.7	1267.1	1272.6	1277.5	1282.3	1286.6	1292.0	1299.9	1301.1	1305.3	1310.9
7.5°	1263.5	1259.8	1268.3	1274.4	1286.0	1296.3	1310.9	1324.2	1329.6	1331.5	1341.8
10°	1296.3	1290.2	1298.1	1301.8	1311.5	1321.7	1338.8	1360.0	1366.0	1373.4	1384.9
12.5°	1352.1	1345.4	1357.0	1362.4	1371.6	1380.7	1392.2	1412.8	1415.8	1429.2	1440.1
15°	1428.5	1420.6	1427.9	1434.6	1449.9	1458.3	1469.8	1489.8	1489.8	1500.2	1508.1
17.5°	1532.4	1522.0	1527.5	1529.9	1539.7	1552.4	1571.8	1589.4	1598.5	1594.9	1583.9
20°	1687.0	1674.3	1674.3	1662.2	1658.6	1668.9	1694.4	1718.6	1728.4	1709.6	1682.8
22.5°	1919.5	1901.3	1891.0	1849.7	1833.3	1834.5	1860.1	1889.8	1897.7	1864.3	1804.2
25°	2215.0	2186.5	2172.6	2111.9	2074.9	2042.7	2062.7	2100.9	2111.9	2070.6	1973.5
27.5°	2510.6	2512.5	2499.1	2426.3	2365.0	2306.1	2295.8	2335.9	2347.4	2300.6	2180.5
30°	2925.1	2882.0	2856.6	2769.1	2681.7	2599.2	2556.8	2573.2	2576.1	2520.4	2380.8
32.5°	3282.6	3271.6	3217.1	3140.6	3028.3	2899.0	2828.0	2801.9	2797.0	2717.6	2551.8
35°	3689.8	3683.7	3626.0	3535.0	3413.7	3234.0	3106.0	3031.3	3025.3	2913.6	2721.2
37.5°	4103.7	4103.7	4047.2	3947.7	3822.0	3597.5	3402.7	3284.4	3264.9	3119.3	2893.6
40°	4433.8	4413.8	4424.1	4382.2	4238.4	3999.9	3732.2	3560.5	3534.4	3359.6	3076.8
42.5°	4621.3	4614.7	4676.6	4723.3	4664.4	4473.8	4095.2	3859.7	3823.2	3624.2	3288.0
45°	4663.2	4655.9	4766.4	4937.5	5020.0	4941.7	4489.6	4174.6	4130.3	3900.9	3514.4
47.5°	4566.7	4552.1	4714.2	4984.3	5248.8	5386.6	4916.8	4516.4	4452.0	4170.4	3746.8
50°	4276.6	4262.7	4507.8	4866.5	5325.9	5688.7	5380.5	4878.6	4780.3	4459.3	3981.7
52.5°	3646.0	3652.8	4036.9	4529.7	5224.5	5876.9	5779.9	5260.3	5142.0	4754.9	4202.0
55°	2840.2	2854.7	3326.8	3869.4	4819.1	5848.4	6052.3	5653.6	5535.8	5032.8	4429.5
57.5°	2033.6	2098.0	2540.4	3077.5	4040.6	5396.3	6111.8	6027.4	5913.3	5336.3	4652.3
60°	1318.1	1329.6	1784.8	2326.1	3076.8	4592.8	5991.0	6310.8	6221.6	5645.7	4838.6
62.5°	844.8	852.7	1130.0	1627.0	2214.5	3397.9	5584.4	6434.0	6406.8	5850.2	5017.6
65°	620.8	614.8	759.2	1075.3	1491.7	2095.5	4794.8	6374.6	6428.6	5978.3	5165.7
67.5°	518.2	509.7	580.8	744.7	1099.0	1190.0	3547.7	5987.9	6185.9	5963.8	5274.3
70°	472.1	464.8	508.0	552.9	857.5	796.8	1788.4	5205.8	5510.4	5798.0	5256.7
72.5°	400.0	387.1	446.1	491.0	667.0	611.1	739.1	3998.6	4370.1	5267.1	5009.1
75°	310.1	301.7	352.0	432.1	501.2	477.0	467.3	2428.1	2833.5	4073.3	4382.2
77.5°	245.8	234.2	280.3	336.8	450.9	359.9	340.5	1045.6	1447.4	2600.4	3278.9
80°	185.1	174.8	213.0	266.4	346.6	271.3	220.3	426.6	545.6	1317.5	1648.8
82.5°	131.7	122.6	148.7	195.4	233.1	243.3	135.3	239.1	268.9	508.0	368.4
85°	84.4	78.9	99.5	122.6	148.1	156.6	82.5	125.0	137.1	209.4	153.5
87.5°	46.1	37.6	53.4	57.1	68.6	62.5	39.5	45.5	49.2	75.8	65.0
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°	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0	1289.0
2.5°	1293.9	1295.7	1301.8	1303.6	1307.8	1313.2	1316.9	1320.5	1320.5	1324.2	1324.2
5°	1311.5	1315.7	1328.4	1335.2	1346.0	1357.0	1363.7	1371.6	1376.4	1378.8	1380.1
7.5°	1345.4	1352.1	1370.3	1381.8	1400.7	1415.8	1426.2	1437.0	1439.5	1446.2	1443.7
10°	1391.5	1399.4	1420.0	1442.0	1464.4	1483.2	1492.9	1500.8	1503.8	1505.0	1502.0
12.5°	1444.3	1455.9	1482.6	1509.3	1533.0	1549.4	1551.7	1549.9	1541.5	1534.1	1534.1
15°	1509.3	1519.6	1549.4	1578.5	1601.6	1604.5	1589.4	1579.7	1569.4	1567.5	1567.5
17.5°	1587.0	1592.4	1619.7	1648.3	1650.0	1639.8	1617.3	1608.2	1598.5	1591.8	1592.4
20°	1677.4	1675.6	1694.9	1707.1	1694.4	1662.9	1628.8	1613.7	1603.9	1596.0	1596.6
22.5°	1785.4	1771.4	1769.0	1766.0	1732.0	1665.8	1619.7	1600.3	1585.2	1574.2	1577.9
25°	1942.6	1889.2	1852.2	1831.6	1755.1	1649.4	1590.6	1547.5	1518.9	1500.2	1507.5
27.5°	2139.2	2049.4	1955.9	1905.6	1755.1	1616.1	1520.2	1450.4	1403.7	1384.3	1394.0
30°	2326.8	2232.7	2094.9	1994.8	1750.8	1561.5	1406.7	1309.6	1255.0	1235.6	1247.1
32.5°	2487.0	2384.4	2242.4	2092.5	1740.6	1472.8	1266.0	1158.6	1105.7	1082.6	1094.2
35°	2635.7	2526.4	2390.5	2199.9	1713.2	1343.0	1111.2	1029.2	970.4	933.4	945.5
37.5°	2788.0	2658.1	2530.6	2297.0	1664.1	1191.3	992.2	922.4	853.2	803.5	816.8
40°	2953.6	2798.2	2680.6	2354.6	1583.3	1046.8	900.0	836.3	762.8	710.0	720.4
42.5°	3147.3	2966.4	2847.4	2384.4	1472.8	944.3	839.9	777.4	708.2	665.1	673.6
45°	3349.3	3151.5	2999.8	2383.7	1349.7	896.4	820.5	758.6	682.1	637.2	644.5
47.5°	3561.2	3345.1	3131.5	2345.0	1242.9	903.0	809.5	717.9	633.6	589.9	595.9
50°	3773.5	3556.9	3258.9	2272.1	1197.4	888.5	769.0	660.9	561.4	521.9	524.3
52.5°	3984.1	3782.0	3368.8	2168.4	1151.3	834.5	716.7	586.8	531.7	504.3	504.3
55°	4195.9	4004.8	3488.3	2017.2	1036.0	771.3	629.3	558.9	508.0	483.1	480.6
57.5°	4408.3	4262.1	3601.7	1866.1	890.9	693.6	581.4	524.9	484.3	463.0	459.4
60°	4629.2	4556.3	3718.9	1727.1	747.6	594.1	546.2	497.6	456.3	432.7	430.9
62.5°	4856.8	4880.4	3810.5	1548.2	615.9	533.4	514.7	464.8	424.8	402.3	401.7
65°	5086.2	5193.0	3870.6	1299.9	499.5	475.8	480.6	429.1	388.4	369.0	368.4
67.5°	5259.2	5418.2	3853.6	983.7	409.6	421.2	438.2	391.4	353.2	338.0	338.7
70°	5278.5	5391.4	3686.1	673.6	342.9	367.8	390.8	354.4	315.0	304.0	304.6
72.5°	5020.0	5027.3	3219.4	439.9	290.1	322.9	341.0	316.8	278.6	267.6	267.0
75°	4342.1	4157.7	2363.8	290.1	242.7	277.4	294.4	277.4	240.4	242.7	234.2
77.5°	3289.8	2944.5	1435.2	206.3	202.7	233.1	256.1	244.0	212.4	238.5	210.0
80°	1694.9	1593.1	640.2	154.2	160.2	186.3	210.5	194.9	168.1	160.2	146.3
82.5°	388.4	451.5	252.5	110.5	115.9	134.1	160.8	146.3	120.7	102.0	100.8
85°	135.9	148.7	111.6	69.2	68.0	83.7	109.3	97.7	81.9	65.5	69.2
87.5°	43.0	56.5	41.9	27.9	29.1	37.6	50.3	46.1	38.2	24.9	26.1
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)