

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: P964650

Luminaire Tested: **NAV-SB3C-760-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-760-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24219.7 lumens
Efficiency: N/A
Efficacy: 162.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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

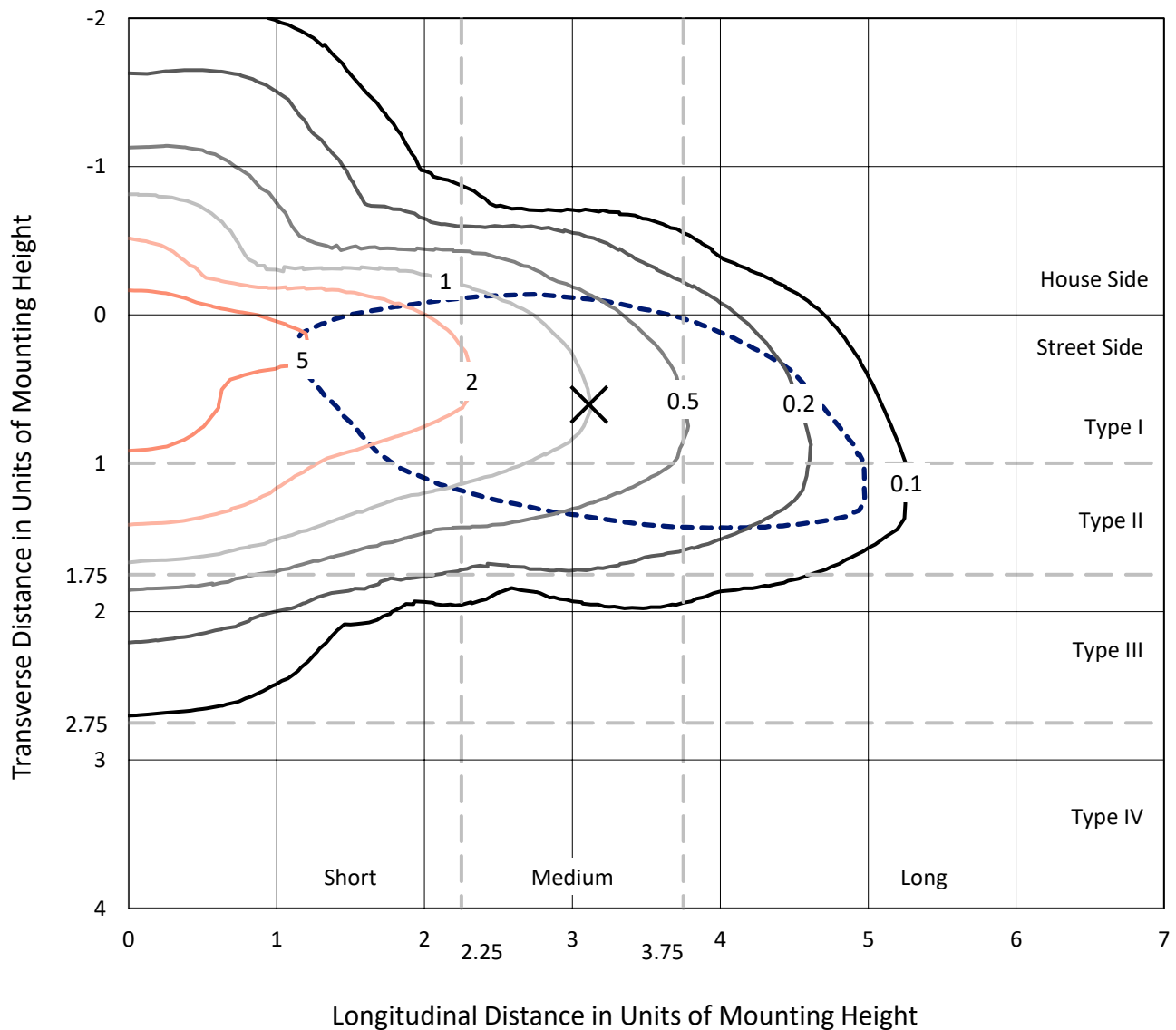


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Iso-Footcandle Lines of Horizontal Illumination

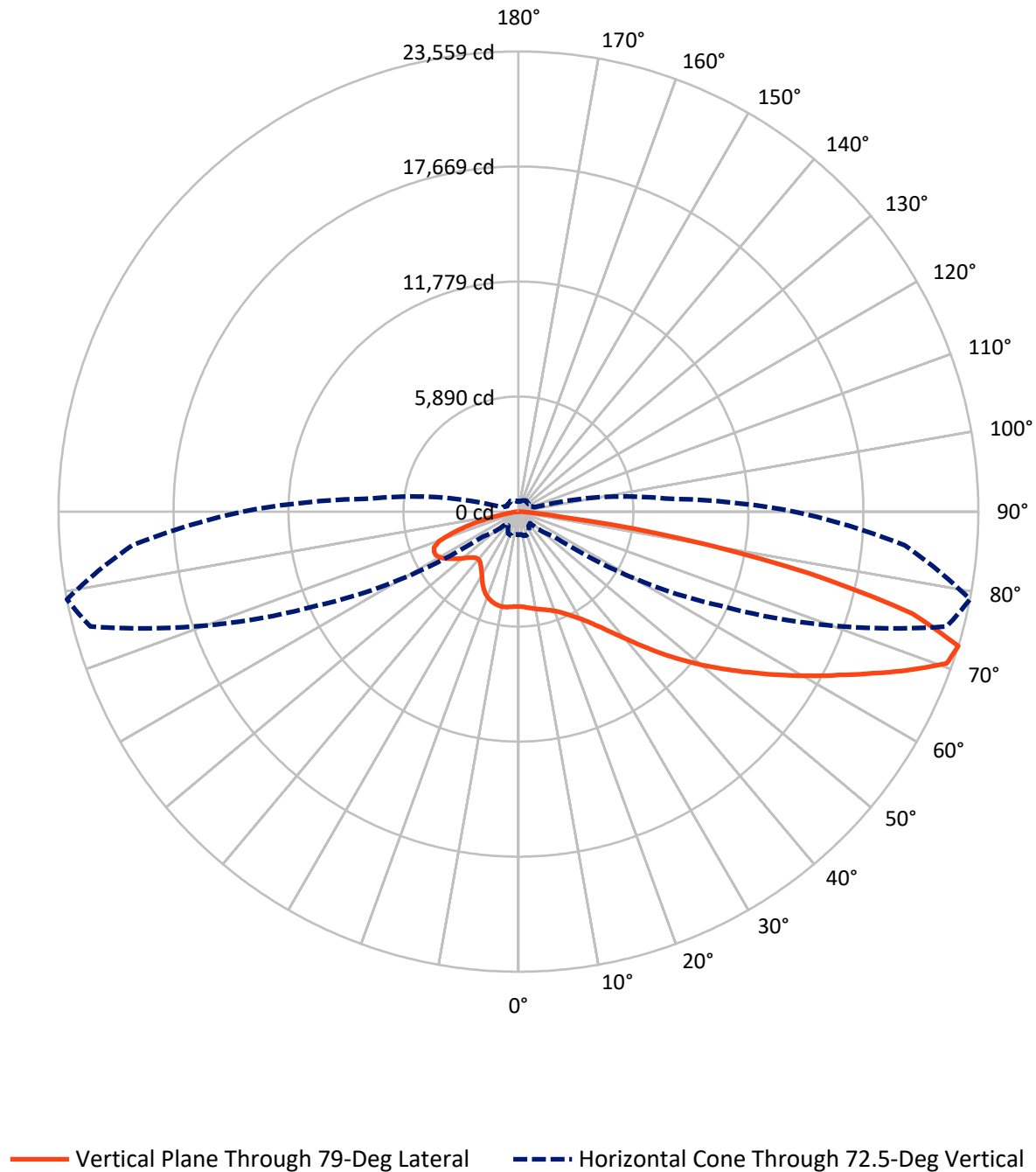
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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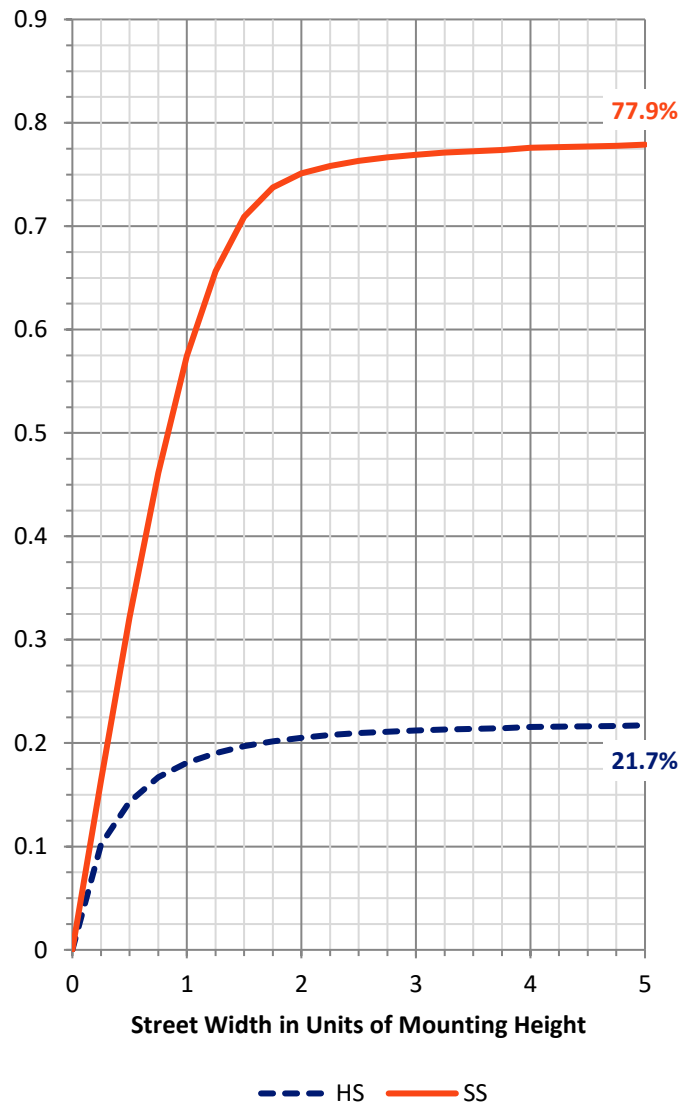
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5329.7	0.0	5329.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18890.1	0.0	18890.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	24219.7	0.0	24219.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.3	1.8
10°-20°	1153.8	4.8
20°-30°	1861.8	7.7
30°-40°	2794.3	11.5
40°-50°	3963.9	16.4
50°-60°	5005.8	20.7
60°-70°	5084.1	21.0
70°-80°	3465.1	14.3
80°-90°	449.6	1.9
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°	24219.7	100.0
0°-180°	24219.7	100.0

Coefficient of Utilization



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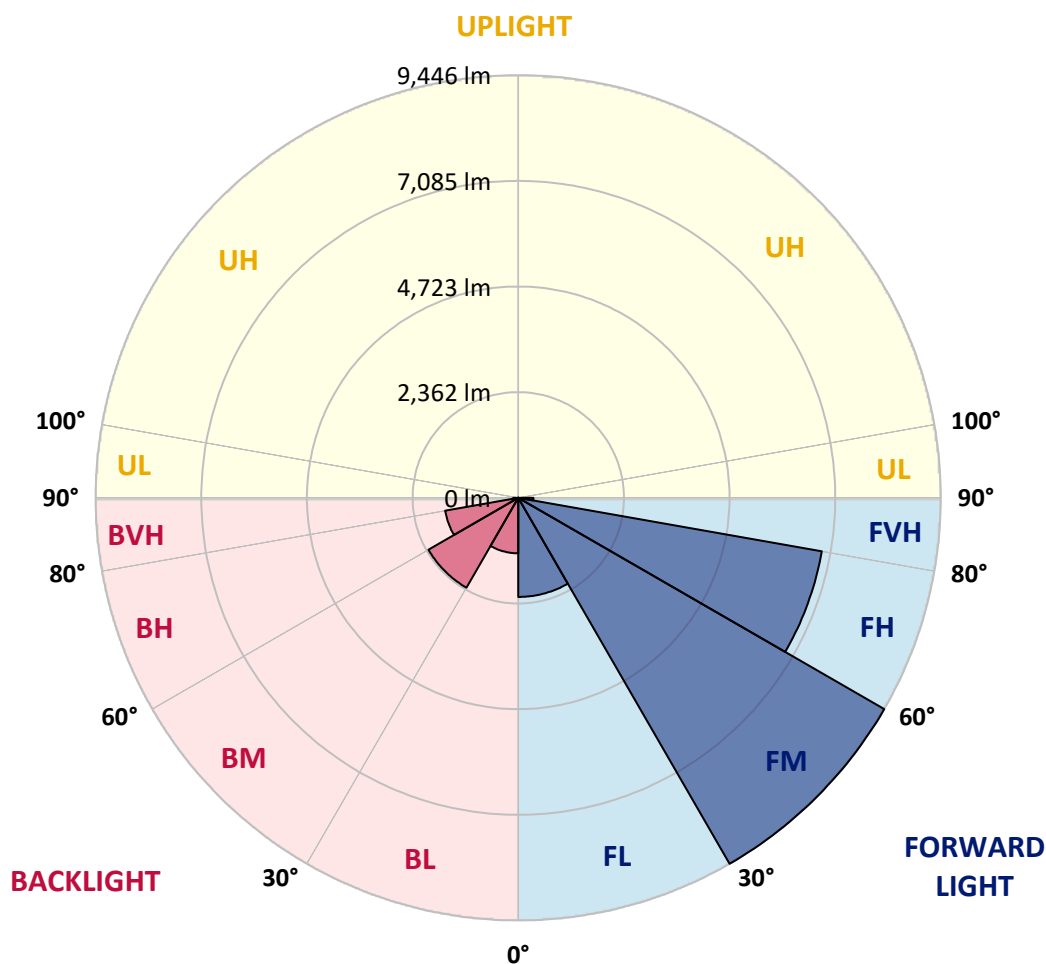
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2215.5	9.1			
FM	(30°-60°)	9446.2	39.0			
FH	(60°-80°)	6889.7	28.4			G3/7500
FVH	(80°-90°)	338.7	1.4			G3/500
BL	(0°-30°)	1241.4	5.1	B3/2500		
BM	(30°-60°)	2317.8	9.6	B2/2500		
BH	(60°-80°)	1659.5	6.9	B3/2500		G3/2500
BVH	(80°-90°)	110.9	0.5			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9
2.5°	4864.4	4841.4	4855.4	4850.3	4856.8	4864.4	4867.0	4870.8	4883.6	4882.4	4881.0
5°	4854.2	4831.1	4850.3	4843.9	4860.5	4878.5	4893.9	4908.0	4928.5	4937.4	4924.6
7.5°	4832.4	4817.1	4836.3	4855.4	4886.2	4913.1	4934.9	4966.9	4996.4	5001.5	5010.5
10°	4705.6	4694.1	4738.9	4788.9	4873.4	4946.4	4993.8	5031.0	5063.0	5068.1	5080.9
12.5°	4573.7	4559.5	4609.5	4677.4	4814.5	4946.4	5046.4	5095.1	5123.3	5139.9	5159.1
15°	4551.8	4540.3	4568.5	4627.5	4741.4	4911.8	5082.3	5171.9	5196.2	5215.5	5223.2
17.5°	4656.9	4635.2	4646.6	4667.1	4733.8	4879.8	5110.4	5259.1	5296.2	5316.7	5316.7
20°	4900.3	4869.6	4851.6	4810.6	4799.2	4884.9	5107.9	5364.1	5412.7	5438.3	5444.8
22.5°	5224.4	5203.9	5165.5	5061.8	4949.0	4947.7	5156.6	5498.6	5589.5	5613.9	5598.5
25°	5616.5	5585.7	5537.0	5396.1	5179.6	5072.0	5238.6	5670.3	5822.7	5829.2	5784.3
27.5°	6067.4	6021.3	5954.6	5768.9	5476.8	5266.8	5364.1	5867.6	6090.4	6087.9	5995.6
30°	6542.7	6496.6	6426.1	6200.6	5833.0	5529.4	5538.3	6080.2	6408.2	6394.2	6236.5
32.5°	6889.9	6855.3	6841.3	6667.0	6243.0	5839.4	5738.2	6315.9	6800.3	6787.4	6567.1
35°	7156.3	7111.6	7128.2	7039.8	6690.1	6186.6	5982.8	6596.5	7276.8	7275.6	7001.4
37.5°	7420.3	7380.6	7394.7	7335.7	7103.9	6627.2	6281.4	6939.9	7867.4	7895.6	7526.6
40°	7661.2	7618.8	7675.2	7620.2	7425.4	7096.2	6620.9	7328.0	8551.6	8605.3	8162.1
42.5°	7805.9	7772.6	7866.2	7867.4	7704.7	7492.0	6993.7	7756.0	9343.3	9463.7	8943.5
45°	7855.9	7844.3	7985.3	8014.8	7951.9	7721.3	7329.4	8222.2	10196.5	10411.7	9834.0
47.5°	7802.1	7780.3	7975.0	8083.9	8133.9	7828.9	7607.3	8727.1	11067.6	11382.8	10805.0
50°	7530.5	7488.2	7777.7	8007.1	8185.1	7899.5	7887.9	9310.0	12058.0	12402.6	11781.2
52.5°	7042.4	7010.3	7339.6	7738.0	8072.4	7934.0	8203.1	9946.7	12998.3	13444.1	12781.9
55°	6418.4	6376.2	6738.8	7258.8	7791.8	7922.5	8518.3	10659.0	14107.8	14560.0	13815.7
57.5°	5429.4	5344.9	5803.5	6418.4	7334.5	7908.4	8846.2	11367.5	15235.2	15777.1	14918.8
60°	3986.8	3861.3	4423.7	5152.7	6440.3	7771.3	9252.3	12161.7	16588.1	17076.2	16122.9
62.5°	2321.4	2248.3	2616.1	3296.3	4854.2	6964.3	9480.3	13085.5	17917.8	18430.3	17306.7
65°	1802.6	1782.1	1814.0	1866.6	2701.9	5214.2	8777.0	13986.0	19609.0	19967.6	18540.5
67.5°	1648.8	1633.4	1647.5	1548.9	1370.8	2904.3	6943.8	14214.1	21420.4	21638.3	19620.4
70°	1465.6	1447.7	1493.8	1409.3	1078.7	1320.8	4486.5	13386.5	22861.7	23270.4	20441.7
72.5°	1194.0	1173.5	1281.1	1242.7	908.4	848.1	2253.5	11419.9	22710.5	23558.7	19853.6
75°	917.3	905.8	1033.9	1065.9	740.5	667.5	1081.3	8488.7	19985.6	20840.1	17110.7
77.5°	712.3	703.4	768.6	885.3	597.0	517.6	664.9	5384.5	15060.9	15210.8	11791.5
80°	534.2	508.6	568.8	685.4	465.0	377.9	451.0	3140.1	9520.1	8629.7	5132.2
82.5°	334.4	321.5	371.6	457.4	328.0	260.0	293.4	1734.6	3815.2	2247.1	990.4
85°	190.9	185.7	202.4	261.4	178.0	149.9	167.8	766.1	696.9	479.2	298.5
87.5°	76.9	74.3	92.2	116.5	65.3	55.0	58.9	184.5	153.8	142.2	98.6
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°	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9
2.5°	4875.9	4875.9	4858.0	4829.9	4797.8	4777.3	4744.0	4735.1	4700.4	4690.2	4706.9
5°	4934.9	4924.6	4869.6	4790.1	4681.3	4581.3	4471.2	4402.0	4304.6	4270.0	4295.6
7.5°	5009.2	4981.0	4886.2	4712.0	4484.0	4259.8	4026.6	3849.8	3680.7	3620.5	3628.2
10°	5077.1	5037.4	4875.9	4571.1	4176.5	3788.3	3416.7	3156.7	2959.4	2878.7	2896.6
12.5°	5145.0	5072.0	4808.1	4336.6	3739.6	3213.1	2817.2	2614.8	2493.1	2395.7	2427.7
15°	5209.0	5106.5	4703.0	4022.7	3260.4	2726.2	2434.2	2272.7	2175.4	2111.3	2122.9
17.5°	5283.4	5136.1	4545.5	3624.3	2804.4	2389.3	2151.0	2053.7	2034.4	2026.7	2031.9
20°	5387.1	5162.9	4337.9	3178.5	2468.7	2120.3	1997.3	1988.3	1987.1	1983.2	1996.0
22.5°	5498.6	5195.0	4063.7	2773.6	2183.0	1952.4	1930.7	1912.8	1901.2	1899.9	1914.0
25°	5630.5	5205.3	3720.4	2441.9	1939.6	1873.0	1847.4	1820.5	1812.8	1812.8	1820.5
27.5°	5758.7	5170.6	3320.7	2153.5	1802.6	1800.0	1766.7	1757.7	1756.4	1760.2	1770.5
30°	5886.8	5105.3	2923.5	1887.1	1723.1	1723.1	1711.5	1718.0	1723.1	1735.9	1744.9
32.5°	6059.7	5036.1	2591.7	1689.8	1653.9	1641.1	1652.6	1665.4	1670.5	1687.3	1701.3
35°	6313.4	4987.4	2327.8	1582.2	1582.2	1565.6	1571.9	1569.4	1557.9	1550.2	1568.1
37.5°	6649.1	4984.9	2110.1	1532.3	1522.0	1519.5	1520.7	1504.1	1459.2	1405.4	1406.7
40°	7052.6	5054.1	1942.2	1497.6	1489.9	1505.3	1497.6	1452.8	1329.8	1236.3	1233.7
42.5°	7594.5	5251.4	1834.5	1455.4	1478.5	1497.6	1466.9	1311.9	1228.6	1165.8	1163.3
45°	8232.5	5571.6	1779.5	1410.5	1456.6	1479.7	1331.1	1263.2	1196.6	1120.9	1115.8
47.5°	8955.1	5975.1	1766.7	1368.3	1407.9	1422.1	1273.5	1242.7	1167.1	1085.1	1078.7
50°	9741.7	6453.0	1801.2	1318.3	1337.5	1288.8	1254.2	1226.0	1147.9	1067.2	1058.2
52.5°	10555.2	6979.5	1870.4	1250.4	1267.0	1213.2	1246.5	1222.2	1136.3	1027.5	1019.8
55°	11354.6	7510.0	1937.0	1171.0	1195.3	1145.3	1224.8	1206.8	1083.8	960.8	954.5
57.5°	12166.9	8037.8	2002.4	1100.4	1126.1	1079.9	1190.1	1165.8	1024.9	899.3	896.8
60°	13011.1	8550.2	2033.2	1032.6	1050.5	1019.8	1137.6	1095.3	958.3	836.6	832.7
62.5°	13801.6	8976.8	1983.2	964.7	976.2	963.4	1068.5	1012.1	891.6	766.1	764.9
65°	14594.6	9230.5	1829.4	898.1	900.7	894.2	971.1	922.4	813.5	704.6	696.9
67.5°	15313.3	9372.7	1584.8	826.4	819.9	817.3	880.2	825.0	737.9	643.1	635.4
70°	15465.8	9011.5	1210.6	741.8	741.8	735.3	780.2	723.9	654.7	577.8	575.2
72.5°	14125.7	7580.4	859.7	645.6	655.9	643.1	680.3	632.8	570.1	518.9	503.5
75°	11390.5	5558.8	625.1	547.0	565.0	543.1	577.8	544.5	490.7	489.4	440.7
77.5°	7826.4	3437.2	453.6	451.0	463.8	435.6	475.3	457.4	408.7	386.9	362.5
80°	3339.9	1370.8	330.6	348.5	348.5	322.9	369.0	374.1	331.8	321.5	321.5
82.5°	664.9	389.5	231.9	239.5	225.5	217.8	261.4	289.6	399.7	444.5	445.9
85°	199.9	143.5	139.6	130.7	115.3	116.5	153.8	290.8	358.7	205.0	176.8
87.5°	55.0	35.9	37.1	29.4	24.3	32.0	52.5	220.4	120.4	51.2	43.6
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)