

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: P964585

Luminaire Tested: **NAV-SB3C-740-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24781.4 lumens
Efficiency: N/A
Efficacy: 166.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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



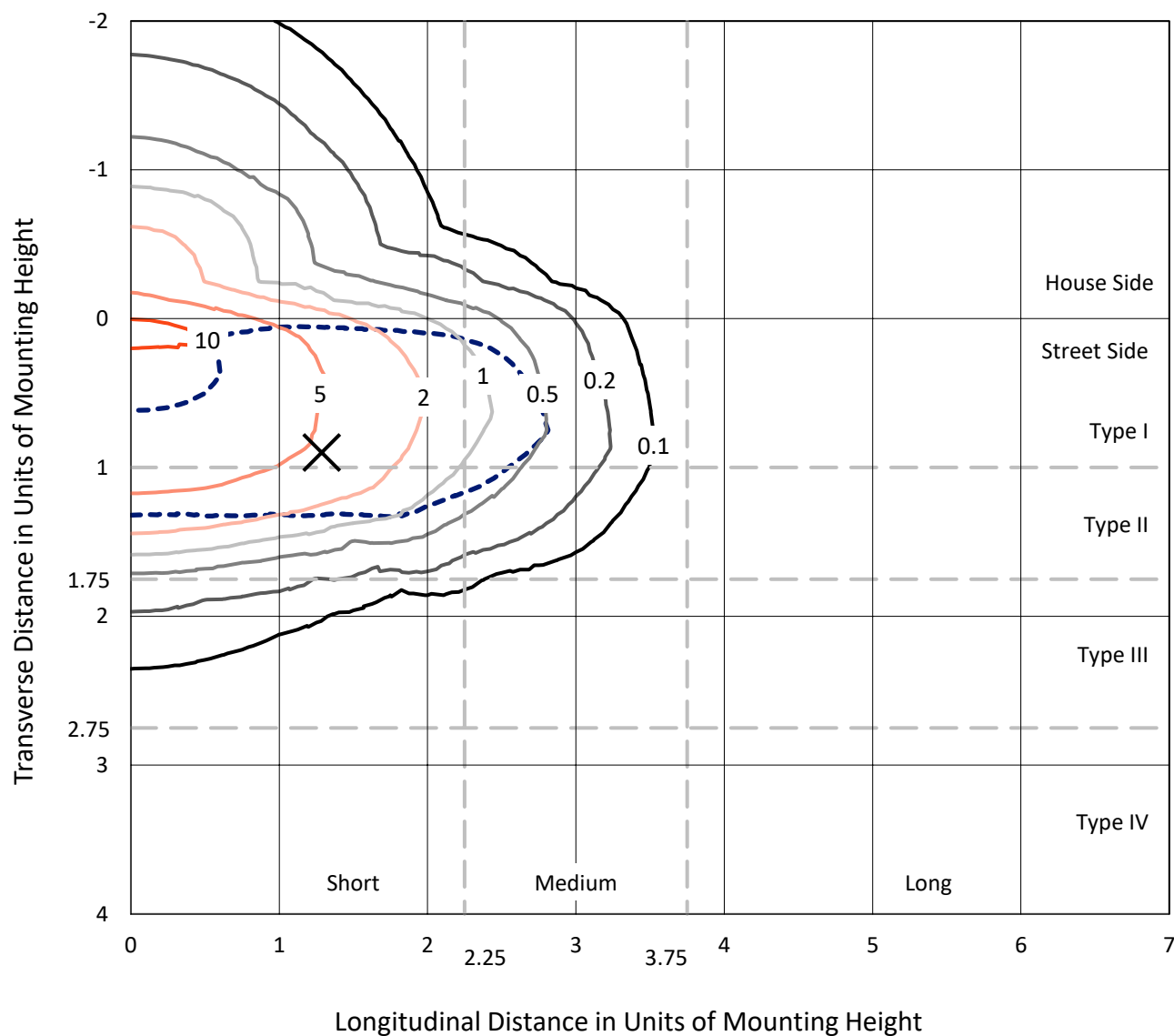
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



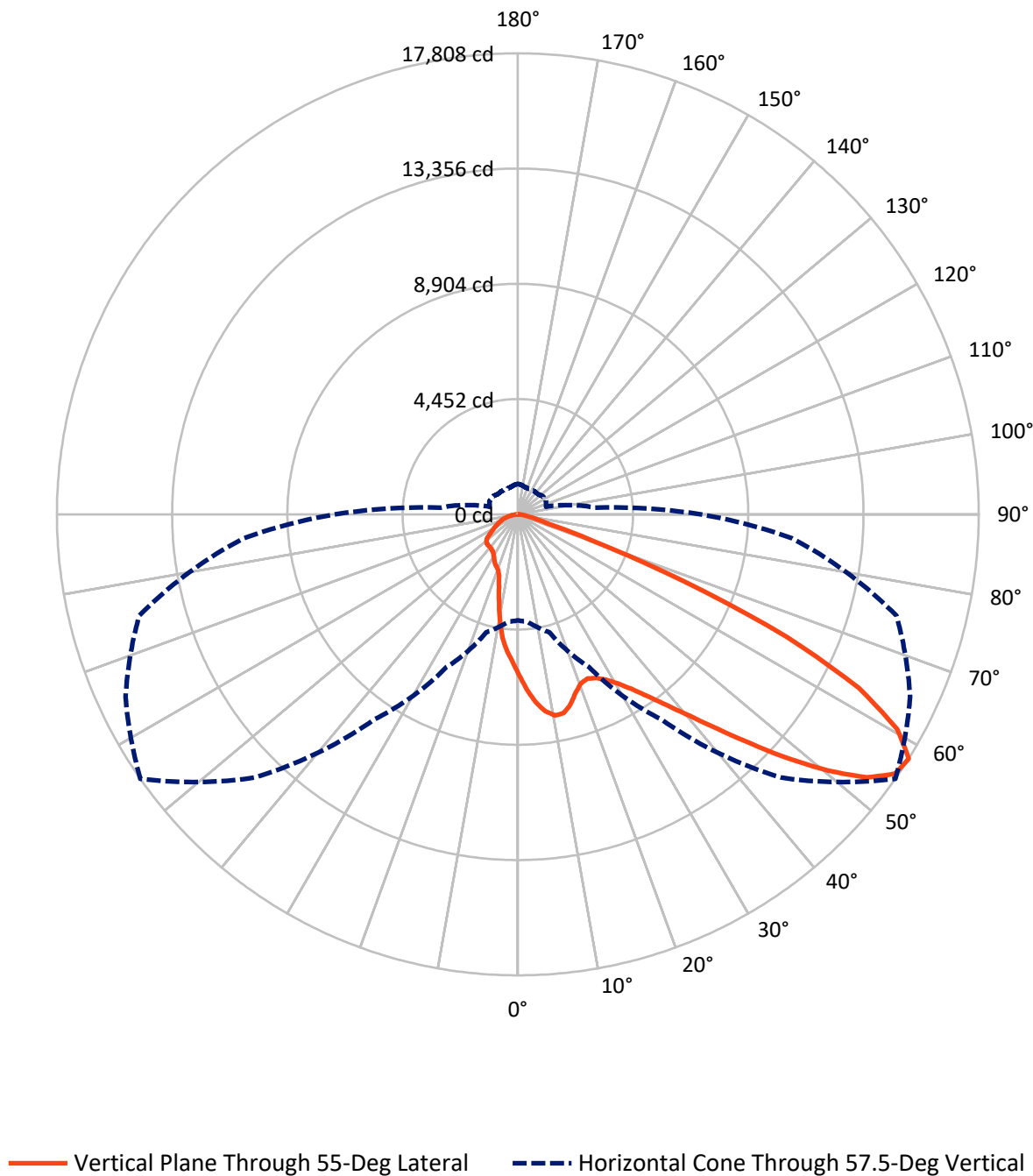
Based on 25 foot mounting height. Maximum calculated value = 12 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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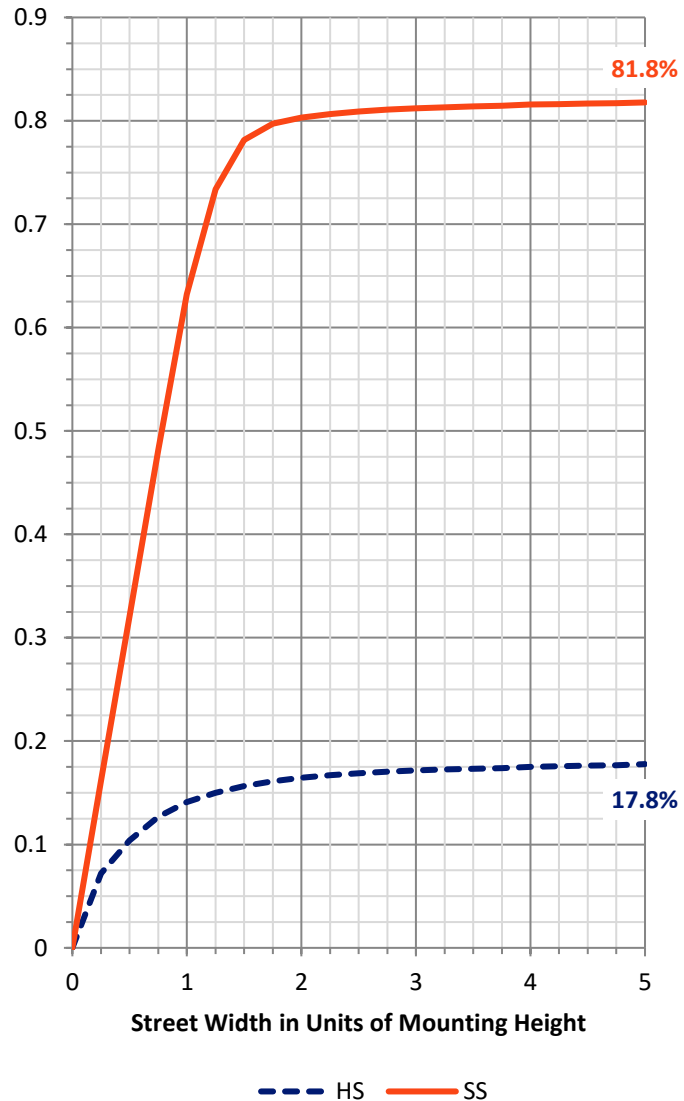
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4484.1	0.0	4484.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20297.4	0.0	20297.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	24781.4	0.0	24781.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.2	2.3
10°-20°	1454.3	5.9
20°-30°	2320.7	9.4
30°-40°	3674.3	14.8
40°-50°	5623.9	22.7
50°-60°	6023.7	24.3
60°-70°	3789.5	15.3
70°-80°	1120.6	4.5
80°-90°	198.1	0.8
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°	24781.4	100.0
0°-180°	24781.4	100.0

Coefficient of Utilization



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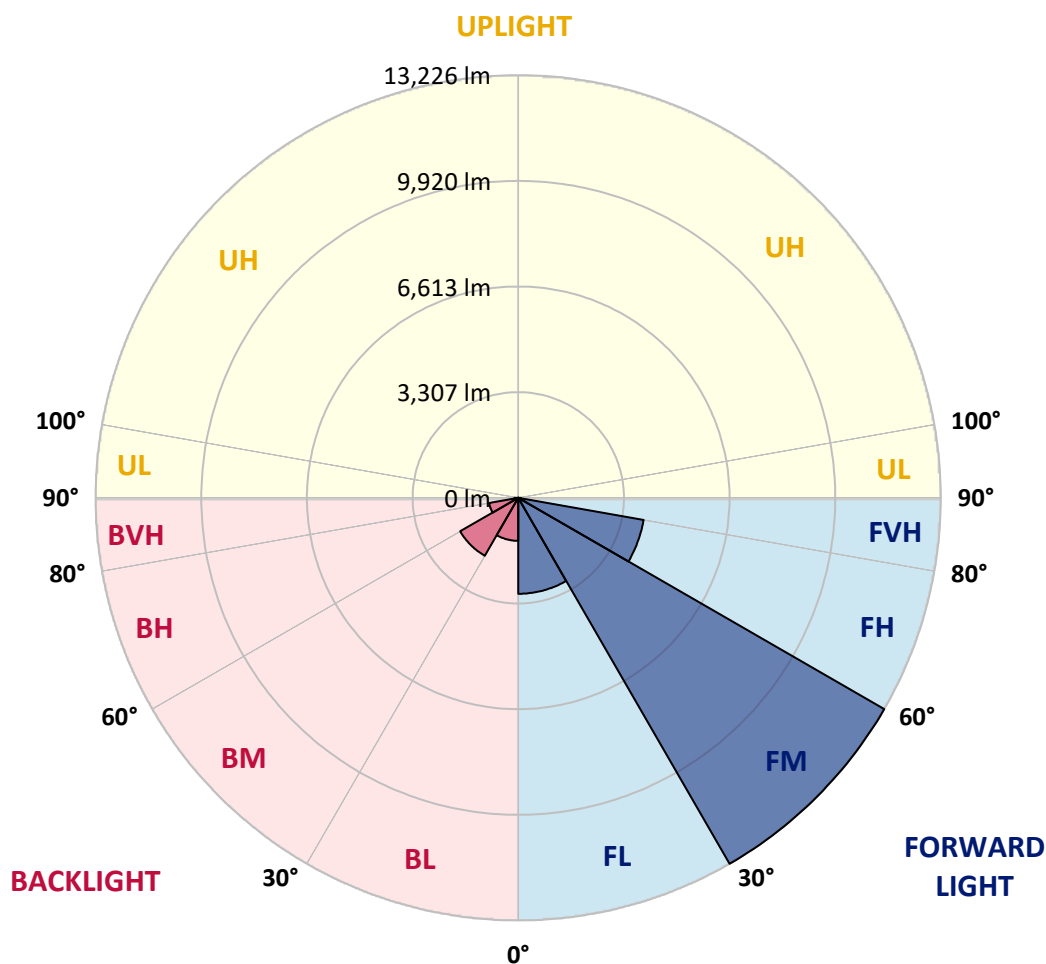
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3003.5	12.1			
FM	(30°-60°)	13226.0	53.4			
FH	(60°-80°)	3984.1	16.1			G2/5000
FVH	(80°-90°)	83.7	0.3			G1/100
BL	(0°-30°)	1347.8	5.4	B3/2500		
BM	(30°-60°)	2095.8	8.5	B2/2500		
BH	(60°-80°)	926.1	3.7	B2/1000		G2/1000
BVH	(80°-90°)	114.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4
2.5°	7124.2	7119.0	7147.2	7051.1	6985.8	6897.3	6780.8	6632.2	6472.1	6302.9	6230.0
5°	7765.9	7721.1	7750.5	7678.8	7607.0	7473.9	7300.9	7058.8	6762.8	6425.9	6246.6
7.5°	7664.7	7634.0	7709.5	7773.6	7827.4	7810.8	7683.9	7430.3	7048.5	6559.2	6299.1
10°	6848.6	6814.1	6920.4	7142.1	7467.4	7750.5	7904.3	7746.7	7340.6	6705.2	6350.4
12.5°	6128.7	6112.1	6182.5	6361.9	6723.2	7266.3	7876.1	8023.4	7644.2	6878.2	6419.5
15°	5821.3	5800.8	5845.6	5936.6	6167.1	6673.2	7619.8	8213.0	7942.7	7078.0	6529.7
17.5°	5753.3	5730.3	5749.5	5796.9	5945.5	6331.1	7233.0	8306.6	8254.0	7300.9	6621.9
20°	5878.9	5859.7	5862.3	5859.7	5963.4	6269.6	6964.0	8270.7	8525.6	7505.9	6711.6
22.5°	6182.5	6150.5	6151.7	6083.9	6140.3	6377.2	6893.5	8174.6	8767.7	7685.2	6779.5
25°	6677.1	6619.3	6630.9	6457.9	6442.5	6618.1	7003.7	8100.3	9008.6	7828.7	6792.3
27.5°	7353.5	7288.1	7253.5	6996.0	6873.0	6960.2	7227.9	8125.9	9236.6	7953.0	6760.3
30°	8199.0	8119.5	8049.0	7683.9	7461.1	7429.0	7576.4	8295.0	9505.6	8083.7	6705.2
32.5°	9235.4	9143.1	9015.0	8530.8	8216.9	8049.0	8027.3	8596.1	9820.8	8250.2	6677.1
35°	10469.0	10348.6	10166.7	9540.3	9143.1	8799.7	8621.7	9030.4	10252.6	8501.2	6709.0
37.5°	11739.8	11604.0	11437.6	10692.0	10203.9	9697.8	9346.8	9619.6	10827.7	8842.1	6793.6
40°	12912.0	12759.6	12604.6	11941.0	11417.1	10807.2	10234.6	10365.3	11531.0	9249.4	6937.1
42.5°	13603.8	13491.2	13432.2	13073.5	12668.7	12049.9	11338.9	11249.2	12321.5	9718.3	7101.1
45°	13573.0	13527.0	13708.9	13857.5	13761.4	13418.1	12632.8	12226.7	13114.5	10124.4	7252.2
47.5°	12848.0	12878.7	13284.8	14120.1	14487.8	14667.1	14106.0	13186.2	13803.7	10428.0	7320.1
50°	10875.1	10900.8	11841.1	13642.2	14674.8	15685.6	15567.7	14122.7	14337.9	10613.8	7304.8
52.5°	9313.5	9330.2	9733.7	12225.4	14057.4	16198.1	16884.7	15005.4	14728.6	10665.0	7218.9
55°	7015.2	7072.9	7525.1	9591.4	12450.9	15792.0	17686.7	15915.0	14975.9	10670.1	7129.3
57.5°	4098.2	4161.0	4719.5	6510.5	9677.3	14376.3	17808.4	16722.1	15143.8	10629.1	7075.5
60°	2007.5	2034.3	2277.8	3421.8	5967.3	11648.9	16829.6	17112.8	15237.2	10607.4	7072.9
62.5°	1352.8	1349.0	1359.3	1688.5	2940.1	7484.1	14790.1	16428.6	15187.2	10524.1	7047.3
65°	1163.3	1149.1	1110.7	1185.0	1523.3	3423.1	11427.3	14386.6	14806.7	10315.3	6871.7
67.5°	1005.6	1007.0	1008.2	985.1	1087.6	1579.6	6983.2	11332.5	13441.1	9326.3	6195.3
70°	832.7	844.2	849.3	849.3	886.5	1036.4	2981.1	7767.2	10602.3	7312.5	4989.8
72.5°	758.4	734.1	736.7	723.9	723.9	789.1	1200.4	4403.1	6679.6	4113.5	3045.2
75°	618.8	634.2	636.7	627.7	598.3	602.1	712.3	1847.4	2858.1	1706.4	1505.3
77.5°	534.2	534.2	539.4	532.9	509.8	450.9	475.3	716.2	972.3	699.5	752.0
80°	429.2	427.8	449.7	462.5	426.6	333.1	303.6	395.9	431.7	307.5	390.7
82.5°	208.8	221.6	308.7	352.3	324.1	240.9	185.7	246.0	230.6	135.8	175.5
85°	121.7	115.3	138.4	196.0	185.7	133.2	89.7	128.1	120.4	69.2	70.4
87.5°	38.4	35.9	28.2	66.6	53.8	37.1	24.3	37.1	33.3	15.4	15.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4	6209.4
2.5°	6138.9	5987.7	5837.9	5700.8	5617.5	5563.8	5510.0	5449.7	5426.7	5392.1
5°	6077.4	5785.4	5525.4	5301.1	5097.4	4937.3	4775.9	4645.2	4586.3	4626.0
7.5°	6041.6	5618.8	5217.9	4806.6	4410.8	4094.4	3818.9	3625.4	3538.4	3560.1
10°	6009.6	5430.6	4819.4	4169.9	3601.1	3209.1	2927.3	2780.0	2724.9	2736.4
12.5°	5980.2	5219.1	4339.0	3484.6	2879.8	2621.1	2540.4	2541.7	2551.9	2559.6
15°	5975.0	4964.2	3802.2	2885.0	2490.4	2473.7	2560.9	2616.0	2645.4	2654.4
17.5°	5967.3	4659.3	3255.2	2476.3	2395.6	2508.4	2589.0	2624.9	2648.0	2649.3
20°	5936.6	4272.4	2750.5	2281.6	2375.1	2472.5	2522.4	2550.6	2569.9	2576.2
22.5°	5841.8	3842.0	2357.2	2194.5	2293.1	2371.3	2430.2	2462.3	2473.7	2481.4
25°	5671.3	3360.3	2085.6	2111.2	2179.1	2277.8	2325.2	2331.6	2327.8	2339.3
27.5°	5448.5	2844.0	1916.5	1998.4	2085.6	2170.1	2195.8	2192.0	2184.3	2197.1
30°	5179.4	2380.3	1808.9	1871.6	1990.9	2067.6	2090.7	2081.8	2066.4	2080.4
32.5°	4895.0	2001.0	1720.5	1783.3	1912.6	1988.3	2011.3	2002.3	1990.9	2002.3
35°	4629.8	1735.8	1638.5	1724.4	1851.2	1925.5	1955.0	1956.2	1956.2	1970.4
37.5°	4386.5	1580.9	1570.6	1687.2	1808.9	1875.5	1917.8	1920.3	1865.3	1869.1
40°	4161.0	1515.6	1539.9	1662.9	1767.9	1832.0	1834.5	1691.0	1589.9	1587.3
42.5°	3976.5	1502.8	1548.9	1660.3	1738.4	1741.0	1560.4	1448.9	1420.8	1422.0
45°	3803.6	1498.9	1569.4	1660.3	1694.8	1504.0	1382.3	1352.8	1355.4	1365.6
47.5°	3610.0	1483.5	1573.2	1637.2	1569.4	1337.4	1301.5	1288.7	1283.6	1286.2
50°	3398.7	1428.4	1524.5	1591.1	1354.1	1265.7	1220.9	1217.0	1223.4	1227.2
52.5°	3175.9	1338.8	1441.3	1507.9	1255.4	1202.9	1153.0	1161.9	1190.1	1199.0
55°	3029.8	1233.7	1331.1	1341.3	1186.3	1144.0	1101.8	1122.3	1174.8	1191.5
57.5°	2991.4	1122.3	1205.5	1194.0	1097.9	1092.8	1067.1	1085.1	1151.7	1176.1
60°	2979.8	1022.3	1082.5	1073.6	1012.1	1036.4	1030.0	1038.9	1062.0	1069.7
62.5°	2890.1	942.9	972.3	959.5	935.2	977.4	992.8	973.6	991.6	1000.5
65°	2662.1	878.8	864.7	855.8	866.0	904.5	935.2	896.8	913.4	939.0
67.5°	2285.4	791.7	753.3	763.5	795.6	816.0	855.8	812.2	826.3	869.8
70°	1848.6	681.5	647.0	676.4	707.1	749.5	755.8	726.4	759.7	808.3
72.5°	1308.0	570.1	545.7	606.0	616.2	671.3	657.2	643.1	689.2	705.9
75°	907.0	459.9	445.8	491.9	529.1	576.5	566.2	582.9	680.3	688.0
77.5°	573.9	357.4	348.5	377.9	429.2	481.6	498.4	688.0	1161.9	1208.1
80°	333.1	266.5	256.2	279.3	324.1	372.8	480.4	844.2	766.1	757.2
82.5°	185.7	183.2	170.4	176.8	216.5	269.1	679.0	594.4	483.0	498.4
85°	87.1	107.6	92.2	88.4	121.7	315.2	453.5	339.5	225.5	220.4
87.5°	23.1	20.5	20.5	23.1	51.2	271.6	180.6	144.7	85.8	83.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)