

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: P964603

Luminaire Tested: **NAV-SB3C-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24143.9 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

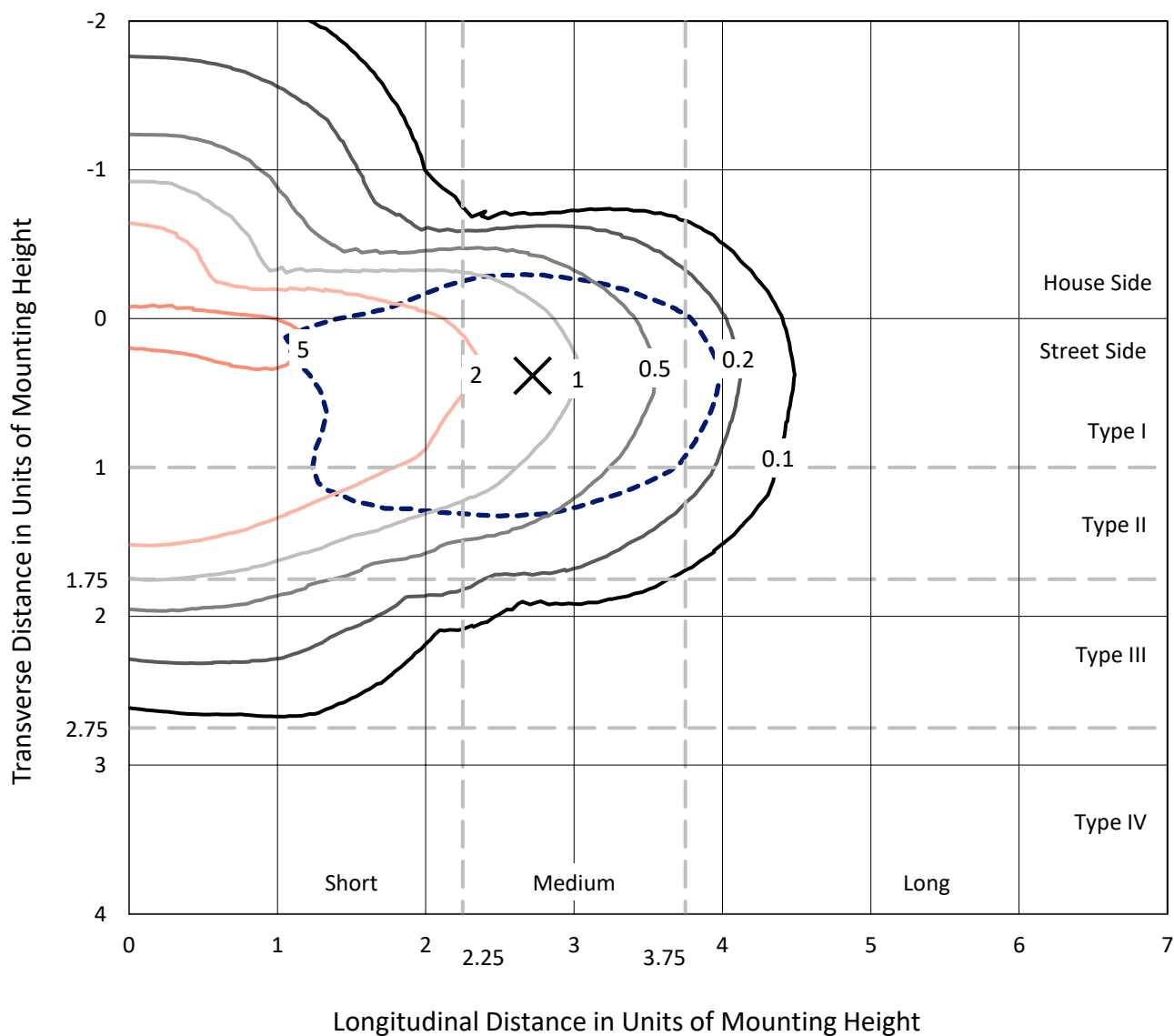
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

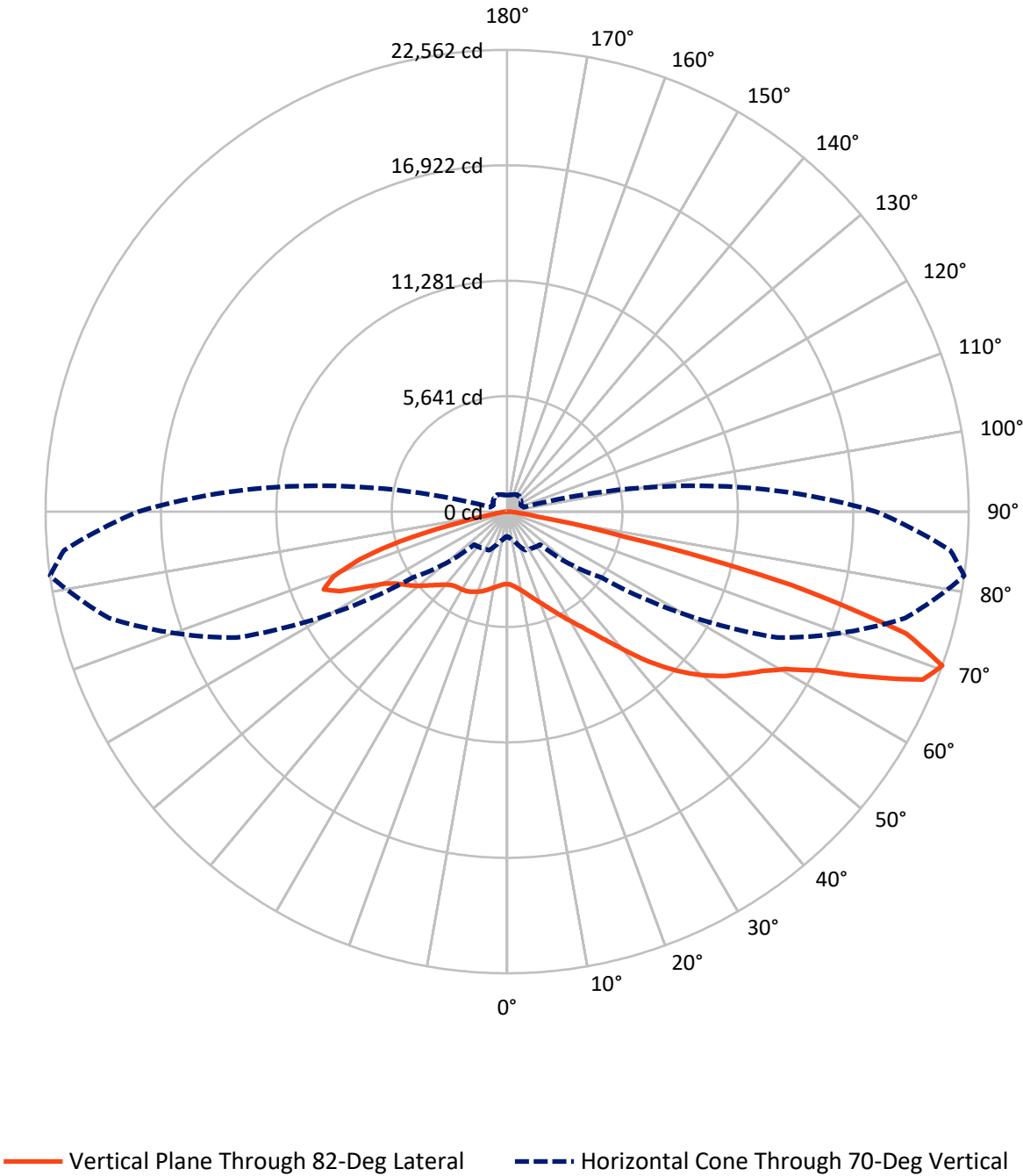
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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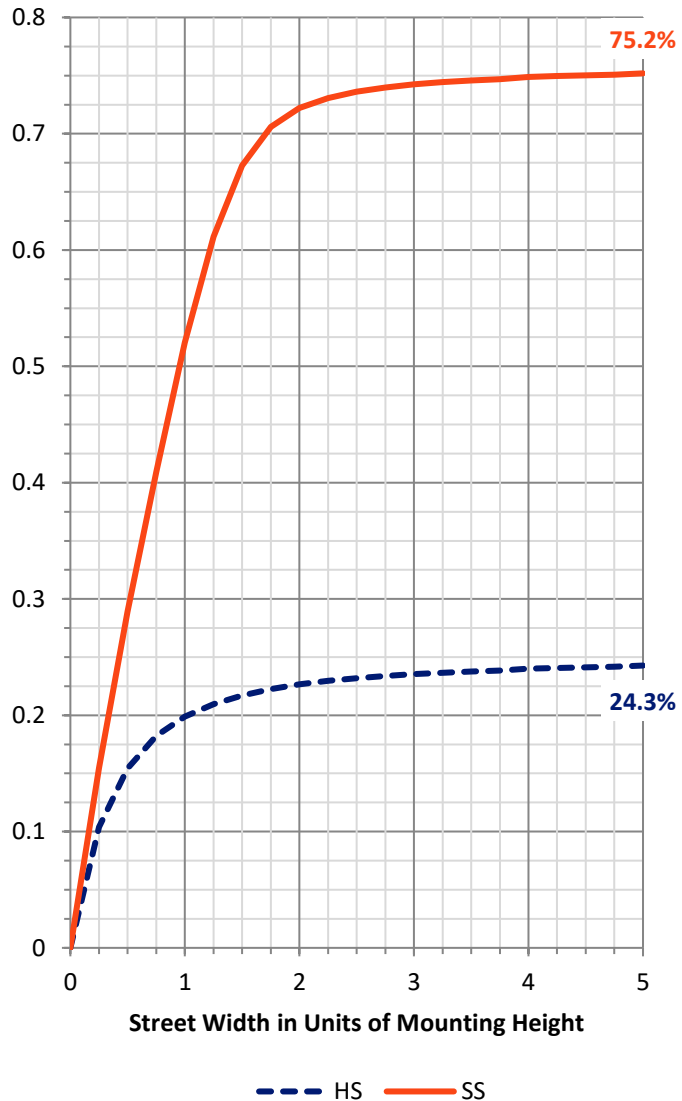
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5952.0	0.0	5952.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	18191.8	0.0	18191.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	24143.9	0.0	24143.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.2	1.4
10°-20°	960.2	4.0
20°-30°	1606.4	6.7
30°-40°	2509.6	10.4
40°-50°	3996.8	16.6
50°-60°	5562.0	23.0
60°-70°	5818.1	24.1
70°-80°	3040.9	12.6
80°-90°	315.8	1.3
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°	24143.9	100.0
0°-180°	24143.9	100.0

Coefficient of Utilization



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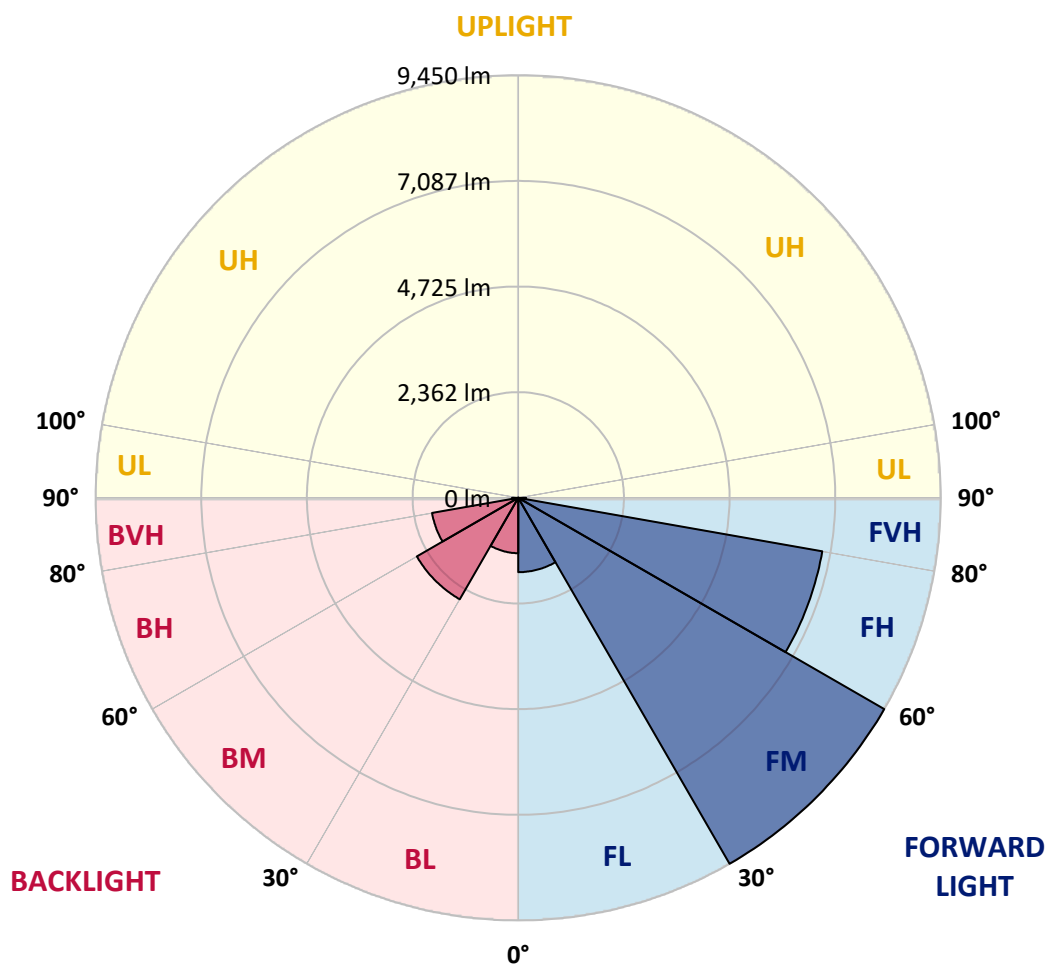
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1662.6	6.9			
FM	(30°-60°)	9449.7	39.1			
FH	(60°-80°)	6902.8	28.6			G3/7500
FVH	(80°-90°)	176.8	0.7			G2/225
BL	(0°-30°)	1238.2	5.1	B3/2500		
BM	(30°-60°)	2618.7	10.8	B3/5000		
BH	(60°-80°)	1956.1	8.1	B3/2500		G3/2500
BVH	(80°-90°)	139.0	0.6			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°	82°	85°
0°	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8
2.5°	3624.4	3644.8	3638.4	3632.0	3632.0	3623.1	3621.8	3609.0	3598.8	3582.1	3578.3
5°	3670.4	3692.3	3689.7	3694.8	3711.4	3715.3	3719.1	3711.4	3690.9	3670.4	3661.5
7.5°	3629.5	3653.8	3661.5	3692.3	3743.5	3789.6	3824.2	3838.3	3819.0	3789.6	3775.5
10°	3491.2	3518.0	3545.0	3617.9	3708.9	3817.8	3910.1	3965.1	3961.3	3933.1	3908.7
12.5°	3210.5	3238.7	3296.4	3438.6	3605.1	3797.3	3969.0	4084.3	4124.0	4103.5	4061.3
15°	2986.3	3010.7	3054.2	3200.3	3416.8	3708.9	3990.7	4215.0	4316.2	4304.6	4253.3
17.5°	2980.0	2990.2	3017.1	3086.3	3252.8	3570.6	3967.7	4343.0	4536.5	4535.2	4471.2
20°	3092.6	3096.5	3111.9	3125.9	3220.8	3465.5	3908.7	4449.4	4783.8	4783.8	4714.6
22.5°	3248.9	3246.4	3261.8	3248.9	3295.1	3456.5	3871.6	4542.9	5059.2	5079.7	4992.6
25°	3483.5	3470.6	3466.8	3437.3	3446.3	3539.8	3912.6	4649.3	5386.0	5428.2	5319.3
27.5°	3796.0	3775.5	3761.4	3693.5	3670.4	3711.4	4038.2	4777.4	5749.7	5822.8	5684.4
30°	4203.4	4166.3	4145.8	4027.9	3944.6	3951.1	4227.8	4947.8	6130.2	6248.1	6072.6
32.5°	4759.5	4701.8	4646.7	4453.2	4300.8	4250.8	4472.5	5183.5	6542.8	6731.1	6505.7
35°	5382.1	5335.9	5277.0	4978.5	4744.1	4628.8	4803.0	5512.8	7025.8	7324.2	7030.9
37.5°	5981.7	5941.9	5970.1	5567.8	5265.5	5097.6	5236.0	5954.7	7621.5	8062.2	7689.4
40°	6601.7	6571.0	6574.9	6190.5	5838.2	5649.8	5761.3	6509.5	8304.3	8939.8	8481.2
42.5°	7275.6	7252.6	7175.7	6834.9	6439.0	6263.5	6366.0	7150.1	9037.2	9939.1	9349.7
45°	8030.2	8016.1	7944.4	7553.6	7100.1	6902.8	7041.1	7857.2	9773.8	10879.5	10222.2
47.5°	8682.3	8693.8	8684.8	8355.6	7885.4	7595.9	7761.2	8595.1	10459.2	11763.4	11058.8
50°	8996.2	9056.4	9144.7	9042.3	8750.2	8455.5	8487.5	9307.5	11112.6	12592.3	11860.8
52.5°	8832.2	8946.2	9187.1	9351.1	9463.8	9402.3	9316.4	10014.7	11727.5	13340.5	12619.3
55°	8221.1	8381.2	8781.0	9176.8	9752.1	10199.2	10311.9	10798.8	12327.2	13999.0	13336.7
57.5°	7107.8	7367.8	7726.6	8527.3	9495.8	10584.8	11472.6	11886.4	12962.6	14702.4	14087.4
60°	5198.9	5547.3	5993.2	7184.6	8599.0	10378.5	12460.4	13557.1	13865.8	15613.3	15064.9
62.5°	3327.2	3542.4	3952.3	5074.6	6700.3	9321.6	12762.7	15645.3	15396.7	17107.0	16530.6
65°	2277.9	2416.2	2791.6	3422.0	4331.5	6938.6	11953.0	17210.9	17828.3	19474.6	19036.5
67.5°	1655.3	1760.3	2080.5	2632.7	2822.3	4106.0	9275.4	17139.1	20192.1	21913.9	21232.4
70°	1206.8	1281.1	1550.2	2080.5	2171.6	2284.3	5619.0	14569.1	20140.8	22562.2	21746.1
72.5°	894.2	945.5	1126.2	1614.3	1757.8	1542.5	2781.3	10588.7	17306.9	20407.3	19752.7
75°	647.0	685.4	818.7	1235.0	1406.7	1174.9	1387.4	6187.9	12072.2	14355.2	14470.5
77.5°	494.6	524.0	611.1	904.5	1126.2	881.4	860.9	2846.7	5724.1	5752.3	6075.2
80°	397.2	416.4	463.8	636.7	863.5	659.8	561.2	1149.2	1809.0	1530.9	1606.6
82.5°	292.1	324.1	392.1	447.1	617.5	454.8	342.0	580.4	688.0	591.9	597.1
85°	166.6	188.3	237.0	320.3	394.6	278.0	196.0	257.5	320.3	262.6	234.4
87.5°	58.9	76.9	83.2	125.6	171.7	115.3	75.5	74.3	105.1	78.1	65.3
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°	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8	3539.8
2.5°	3565.5	3559.0	3533.4	3498.8	3463.0	3428.3	3416.8	3392.4	3375.8	3366.8	3377.1
5°	3637.1	3616.7	3556.4	3479.6	3398.9	3311.8	3250.3	3193.9	3152.9	3114.5	3129.8
7.5°	3739.6	3703.7	3600.0	3465.5	3322.0	3177.2	3069.6	2987.7	2932.5	2896.6	2904.3
10°	3858.8	3803.7	3644.8	3443.7	3222.1	3014.5	2887.7	2817.2	2782.7	2763.4	2768.5
12.5°	3995.9	3917.8	3690.9	3393.8	3069.6	2832.6	2745.5	2725.0	2726.3	2727.5	2730.1
15°	4165.0	4056.1	3728.1	3284.8	2871.0	2693.0	2677.6	2710.9	2745.5	2762.2	2760.8
17.5°	4355.8	4202.2	3734.5	3105.4	2676.3	2603.3	2652.0	2723.7	2776.2	2799.3	2804.4
20°	4560.8	4350.7	3688.4	2851.9	2516.2	2530.2	2617.3	2709.6	2767.3	2796.7	2804.4
22.5°	4795.4	4509.6	3578.3	2585.4	2385.5	2450.8	2553.3	2643.0	2703.2	2732.6	2740.3
25°	5063.1	4687.7	3405.3	2361.2	2272.7	2361.2	2463.6	2537.9	2586.6	2613.5	2621.2
27.5°	5360.3	4873.5	3174.6	2183.0	2174.1	2268.9	2353.5	2411.1	2436.7	2457.2	2464.9
30°	5658.8	5042.6	2895.4	2048.6	2088.2	2177.9	2238.2	2263.8	2271.5	2275.3	2284.3
32.5°	5981.7	5188.7	2602.0	1937.0	2006.2	2089.6	2125.4	2136.9	2101.0	2076.8	2084.4
35°	6372.4	5345.0	2315.1	1848.7	1925.6	1997.3	2008.8	1998.5	1956.3	1906.3	1908.9
37.5°	6855.4	5539.6	2085.7	1786.0	1849.9	1897.4	1883.2	1880.7	1884.6	1825.6	1829.4
40°	7447.2	5793.3	1917.9	1737.3	1788.5	1798.8	1759.0	1780.8	1800.0	1710.3	1712.9
42.5°	8104.5	6099.5	1811.6	1704.0	1737.3	1712.9	1651.4	1675.8	1673.2	1555.3	1554.0
45°	8774.5	6432.6	1774.4	1679.6	1689.8	1641.1	1573.3	1579.6	1525.8	1419.5	1423.3
47.5°	9440.8	6790.0	1797.4	1659.1	1630.9	1575.8	1523.3	1495.1	1415.6	1336.2	1336.2
50°	10094.1	7165.5	1882.0	1618.1	1550.2	1518.1	1479.7	1429.8	1345.2	1277.3	1272.1
52.5°	10700.1	7543.4	1976.8	1550.2	1448.9	1468.2	1443.8	1386.2	1302.9	1233.7	1235.0
55°	11274.1	7921.3	2013.9	1456.6	1354.1	1424.6	1410.5	1304.2	1204.3	1147.9	1142.8
57.5°	11899.2	8376.1	1972.9	1337.5	1277.3	1374.6	1320.8	1203.0	1145.3	1103.1	1099.2
60°	12765.2	9089.7	1884.6	1190.2	1204.3	1300.3	1208.2	1159.5	1096.6	1049.3	1046.7
62.5°	14204.0	10420.8	1742.4	1044.2	1118.5	1190.2	1154.4	1105.7	1041.6	995.5	995.5
65°	16330.7	12270.8	1474.6	930.1	1022.3	1082.6	1096.6	1048.0	981.3	932.6	935.2
67.5°	18124.4	13431.5	1115.9	835.3	923.7	995.5	1035.1	987.8	917.3	869.9	871.1
70°	18025.6	12588.5	852.0	741.8	836.6	909.6	960.8	923.7	848.1	803.3	807.1
72.5°	16010.4	10531.0	689.2	647.0	748.1	819.9	881.4	853.2	776.3	732.8	732.8
75°	11762.2	7475.4	550.9	550.9	638.0	726.4	794.3	776.3	705.9	675.2	666.1
77.5°	4958.0	3136.2	431.7	457.4	530.4	623.9	708.5	714.8	653.3	691.8	627.7
80°	1318.3	864.8	329.2	360.0	416.4	515.1	616.2	613.7	547.0	511.2	475.3
82.5°	502.2	340.8	234.4	253.7	301.0	394.6	488.1	503.5	436.9	377.9	377.9
85°	193.4	146.1	144.7	152.4	175.5	261.4	369.0	381.8	329.2	279.3	288.2
87.5°	49.9	43.6	53.8	51.2	80.7	139.6	211.4	219.0	201.1	116.5	166.6
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)