

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: P970373

Luminaire Tested: **NAV-SB6B-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35024.2 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

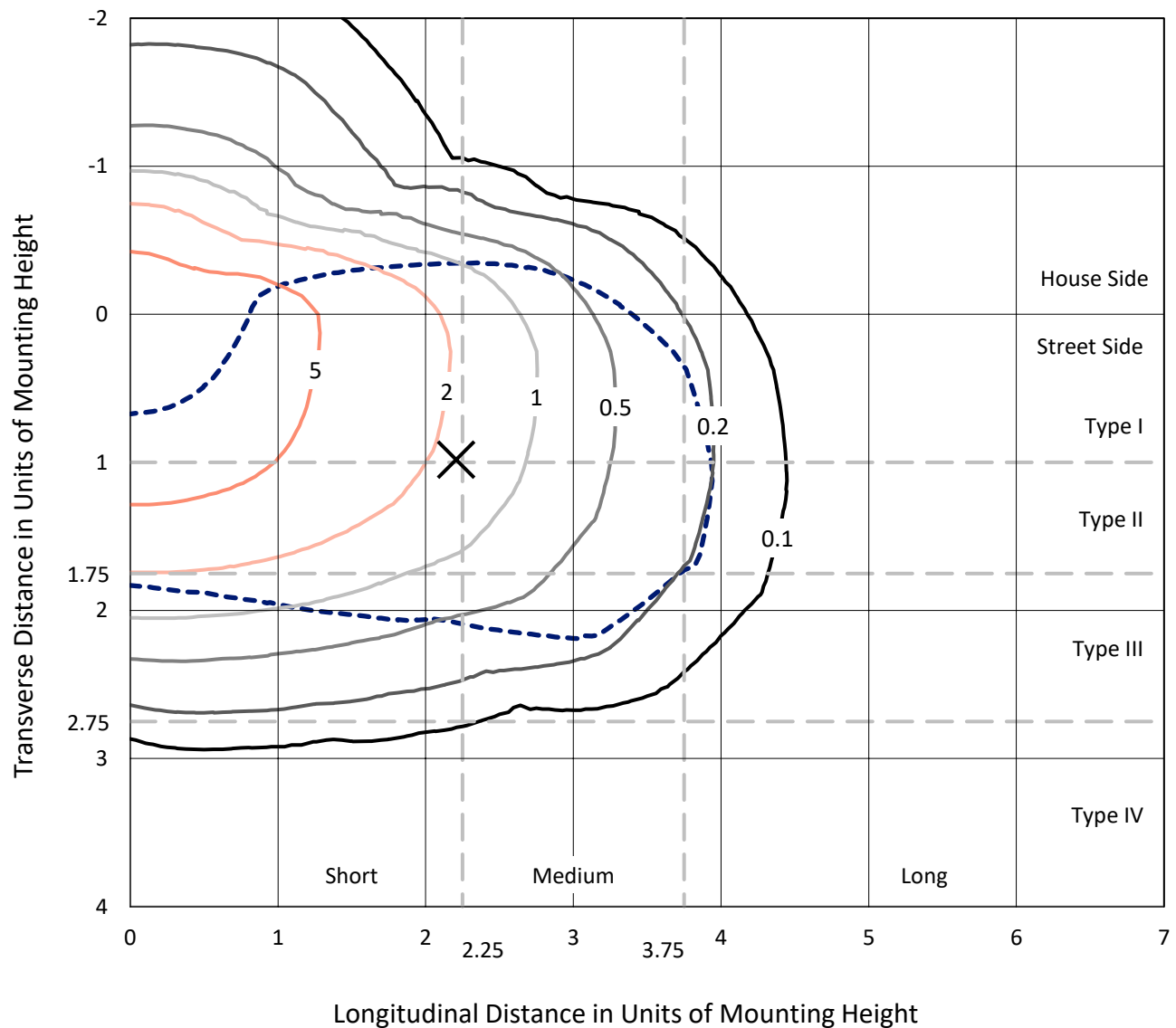
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

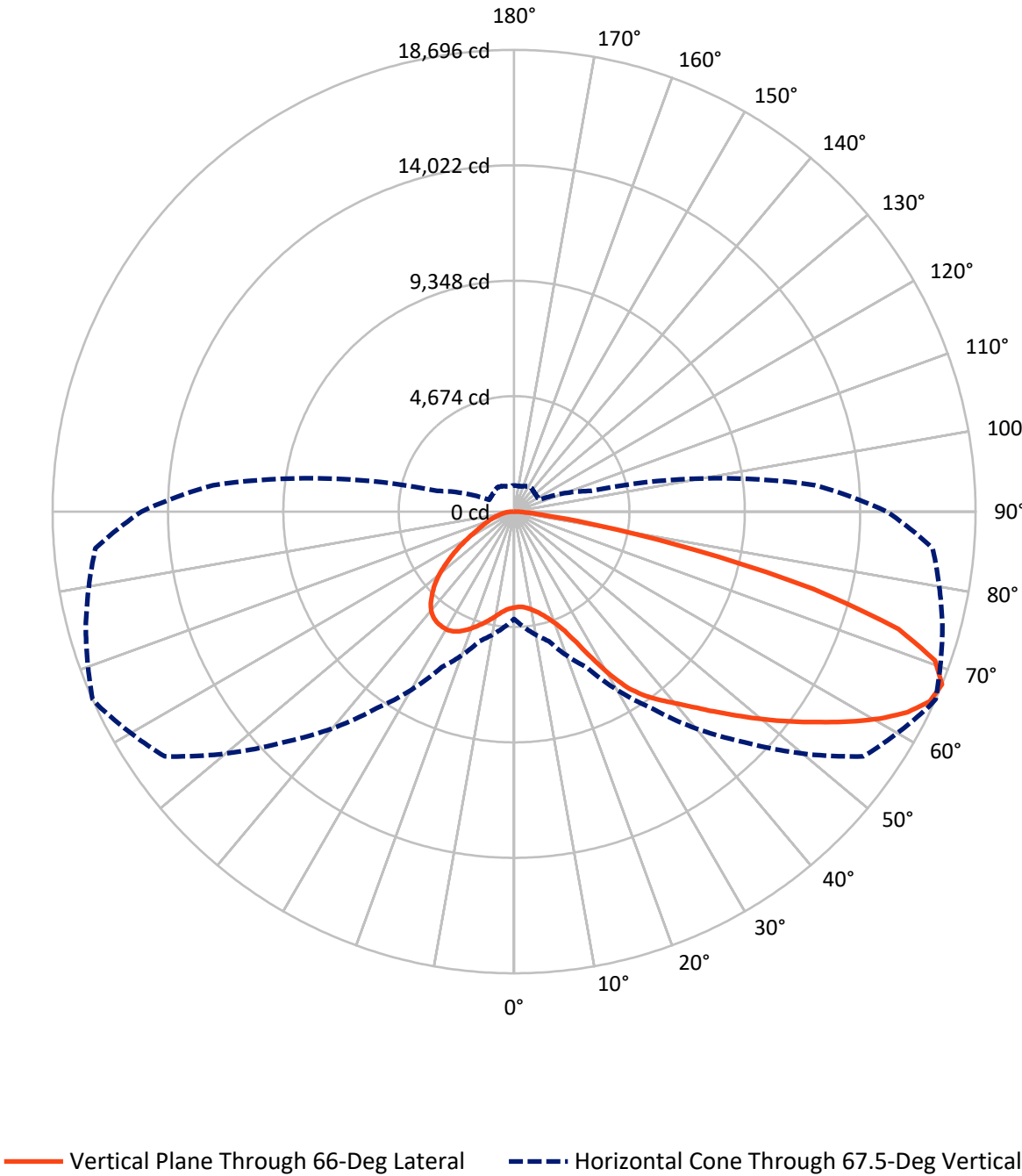
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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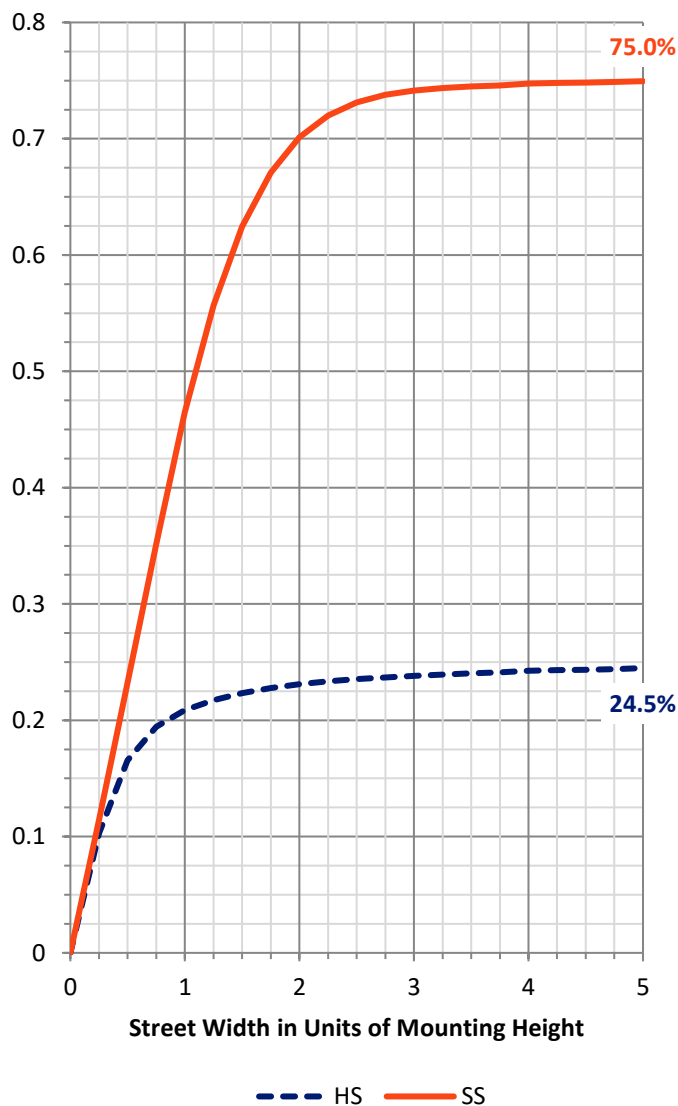
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8708.7	0.0	8708.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	26315.6	0.0	26315.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	35024.2	0.0	35024.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.1	1.1
10°-20°	1272.5	3.6
20°-30°	2452.6	7.0
30°-40°	4300.4	12.3
40°-50°	6393.2	18.3
50°-60°	8104.0	23.1
60°-70°	7929.6	22.6
70°-80°	3782.5	10.8
80°-90°	404.2	1.2
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°	35024.2	100.0
0°-180°	35024.2	100.0

Coefficient of Utilization



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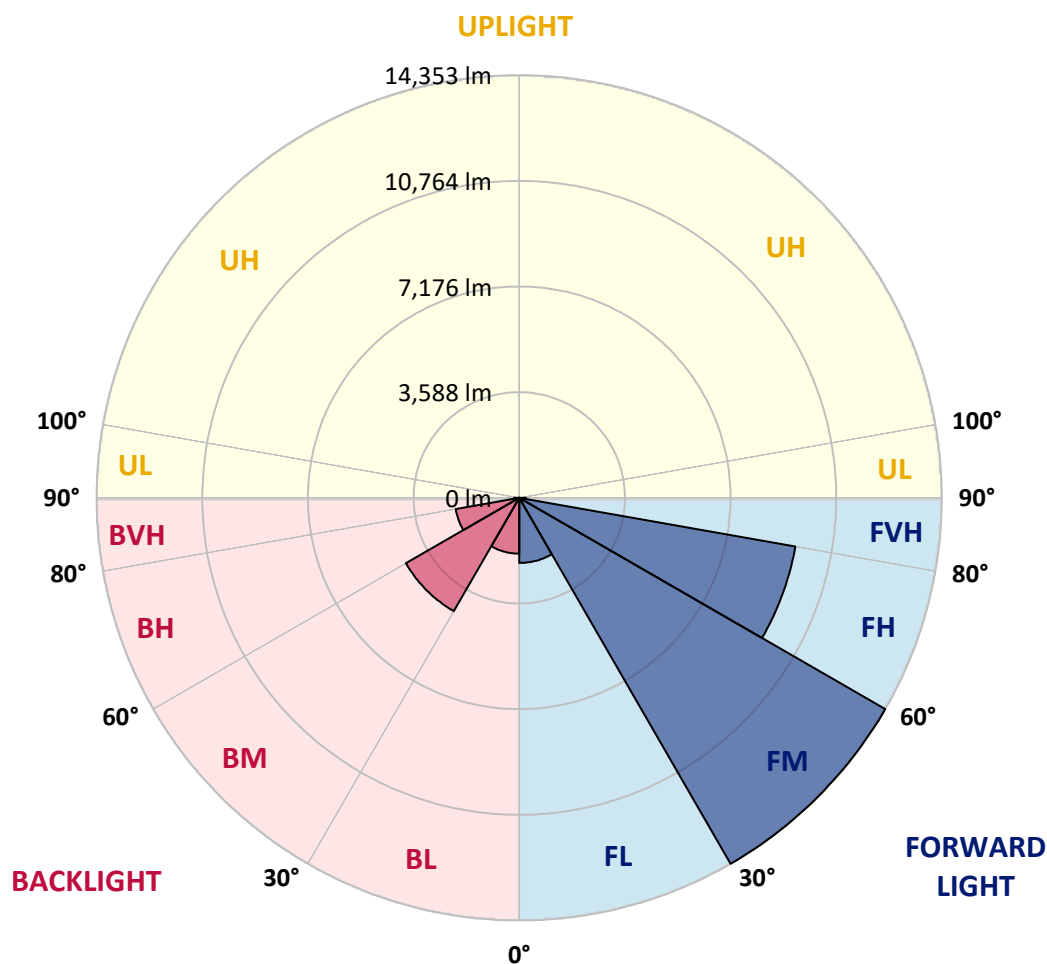
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2213.2	6.3			
FM	(30°-60°)	14352.6	41.0			
FH	(60°-80°)	9520.5	27.2			G4/12000
FVH	(80°-90°)	229.2	0.7			G3/500
BL	(0°-30°)	1897.1	5.4	B3/2500		
BM	(30°-60°)	4445.0	12.7	B3/5000		
BH	(60°-80°)	2191.6	6.3	B3/2500		G3/2500
BVH	(80°-90°)	175.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6
2.5°	3844.2	3866.3	3860.8	3851.5	3849.7	3853.4	3858.9	3864.5	3862.6	3871.7	3886.5
5°	3833.1	3855.2	3853.4	3853.4	3860.8	3875.4	3884.6	3893.9	3884.6	3895.7	3915.9
7.5°	3840.5	3857.1	3864.5	3871.7	3890.2	3917.8	3939.9	3960.1	3949.0	3961.9	3987.7
10°	3934.4	3947.2	3954.6	3954.6	3967.5	3998.7	4020.9	4057.7	4048.4	4068.6	4101.8
12.5°	4105.4	4118.3	4118.3	4111.0	4120.2	4140.5	4147.8	4188.3	4171.8	4204.9	4238.0
15°	4315.2	4341.0	4320.8	4307.9	4311.6	4331.9	4330.0	4361.3	4344.7	4372.3	4401.8
17.5°	4547.1	4580.2	4547.1	4545.3	4537.9	4560.0	4561.9	4589.4	4560.0	4580.2	4600.5
20°	4821.3	4867.3	4839.7	4848.9	4832.4	4841.6	4850.7	4891.2	4845.3	4859.9	4854.4
22.5°	5207.7	5263.0	5233.5	5268.5	5257.4	5250.0	5248.2	5320.0	5248.2	5253.7	5200.4
25°	5770.9	5837.1	5785.6	5833.4	5833.4	5857.4	5884.9	5977.0	5857.4	5822.4	5684.3
27.5°	6602.6	6668.9	6567.7	6597.1	6587.9	6646.8	6617.3	6845.6	6716.7	6659.6	6381.8
30°	7603.7	7721.4	7530.1	7522.7	7513.6	7607.3	7649.7	7800.6	7670.0	7612.9	7278.0
32.5°	8685.7	8809.1	8580.8	8514.6	8479.6	8536.7	8501.7	8623.1	8533.0	8444.7	8030.6
35°	9830.4	9951.7	9734.6	9605.8	9466.0	9346.4	9221.2	9252.5	9167.8	9033.5	8604.8
37.5°	10912.4	11135.0	10905.0	10767.0	10509.3	10275.6	9926.0	9780.7	9701.5	9578.2	9145.8
40°	12014.6	12141.6	11966.8	11849.0	11569.3	11203.1	10643.7	10336.4	10229.6	10110.0	9743.9
42.5°	12826.1	12947.6	12853.8	12772.8	12553.8	12128.7	11405.5	11020.9	10866.3	10732.1	10421.1
45°	13470.2	13560.4	13501.5	13530.9	13437.1	13024.9	12194.9	11755.2	11595.1	11431.3	11186.5
47.5°	13729.7	13825.4	13919.2	14094.1	14254.2	13950.6	13043.3	12550.1	12380.9	12213.4	11972.3
50°	13700.3	13797.8	14070.2	14441.8	14938.7	14837.5	13937.6	13396.6	13240.2	13048.9	12826.1
52.5°	13464.7	13575.1	13924.7	14543.1	15334.3	15501.8	14848.6	14270.7	14123.5	13895.3	13672.7
55°	12846.4	12912.6	13437.1	14313.0	15428.2	15965.5	15741.0	15201.9	15054.7	14736.3	14493.4
57.5°	11700.0	11795.7	12559.3	13692.9	15192.7	16280.2	16524.9	16180.9	16039.1	15580.9	15327.0
60°	10203.9	10356.6	11230.7	12651.4	14592.7	16278.3	17237.1	17143.2	17025.5	16412.7	16147.7
62.5°	8510.9	8687.6	9528.5	11179.2	13543.8	15816.5	17682.5	17949.3	17888.5	17180.0	16841.5
65°	6536.3	6657.8	7495.1	9274.6	11911.6	14824.6	17733.9	18499.5	18510.5	17763.5	17204.0
67.5°	4352.0	4701.7	5428.6	6959.6	9725.4	13203.4	17281.3	18589.6	18696.4	17963.9	17021.8
70°	2123.6	2583.6	3295.8	4523.2	6959.6	10717.3	16098.0	17849.9	18087.3	17378.8	15936.1
72.5°	881.5	1030.5	1418.8	2232.1	3995.0	7232.0	13720.4	15844.0	16283.9	15398.8	13398.5
75°	594.4	644.1	811.5	1144.6	1820.0	3566.3	9894.7	11814.0	12522.5	11630.1	9506.5
77.5°	458.2	489.5	590.7	800.5	1082.0	1348.9	5296.1	7119.8	7485.9	6930.1	4946.4
80°	360.7	384.6	441.7	583.3	767.3	721.4	1805.2	3225.9	3437.4	2883.6	1589.9
82.5°	312.8	322.1	316.5	395.6	509.7	421.4	592.6	1190.6	1313.9	953.2	519.0
85°	226.3	252.2	263.1	244.8	270.5	213.5	242.9	421.4	463.7	414.0	292.6
87.5°	92.0	136.2	167.5	158.3	99.3	60.7	75.4	123.3	141.7	154.6	95.7
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°	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6
2.5°	3888.3	3901.3	3910.4	3921.4	3928.8	3939.9	3961.9	3974.8	3976.7	3985.8	3984.1
5°	3923.3	3941.7	3961.9	3991.3	4024.5	4052.1	4094.5	4123.9	4135.0	4144.1	4142.2
7.5°	3998.7	4024.5	4061.4	4112.8	4160.7	4197.5	4249.0	4284.0	4318.9	4331.9	4333.7
10°	4111.0	4147.8	4201.2	4271.1	4322.6	4370.5	4423.8	4453.3	4488.3	4502.9	4510.3
12.5°	4250.9	4289.5	4359.4	4456.9	4504.8	4537.9	4556.3	4549.0	4556.3	4569.2	4572.9
15°	4411.0	4453.3	4532.4	4637.3	4670.4	4641.0	4600.5	4563.7	4558.2	4561.9	4574.7
17.5°	4600.5	4631.8	4723.8	4812.1	4788.2	4666.7	4578.4	4519.5	4490.1	4480.9	4493.8
20°	4865.5	4865.5	4940.9	4996.2	4836.1	4629.9	4492.0	4396.2	4335.5	4309.7	4304.2
22.5°	5187.5	5158.1	5205.9	5167.2	4826.8	4526.9	4335.5	4169.9	4077.9	4041.1	4035.5
25°	5596.0	5561.0	5548.2	5309.0	4760.6	4363.1	4052.1	3851.5	3770.6	3750.3	3754.0
27.5°	6212.5	6124.2	5956.7	5386.3	4639.2	4105.4	3720.9	3535.0	3489.0	3490.8	3496.4
30°	7033.2	6856.5	6446.2	5399.1	4440.4	3741.1	3382.3	3249.8	3227.7	3237.0	3268.2
32.5°	7793.2	7625.8	6946.7	5340.2	4135.0	3384.1	3078.7	2990.3	2957.2	2968.2	2983.0
35°	8389.4	8343.4	7410.4	5257.4	3759.5	3049.2	2806.3	2730.8	2666.4	2651.7	2662.7
37.5°	8952.6	8934.1	7758.2	5141.5	3387.8	2811.8	2587.3	2488.0	2394.1	2342.5	2344.4
40°	9570.8	9552.5	7986.5	4963.0	3058.4	2605.8	2390.4	2259.7	2143.8	2050.0	2059.2
42.5°	10266.4	10157.9	8095.0	4707.2	2778.7	2430.9	2230.3	2053.7	1901.0	1814.5	1820.0
45°	11026.4	10781.7	8093.2	4381.5	2543.1	2270.8	2059.2	1808.9	1667.3	1586.3	1582.6
47.5°	11832.5	11377.9	7993.8	4020.9	2315.0	2094.2	1794.2	1602.8	1509.0	1459.3	1448.2
50°	12664.2	11935.5	7824.5	3606.8	2081.3	1893.6	1628.6	1497.9	1426.2	1380.2	1363.6
52.5°	13446.3	12441.6	7620.3	3137.5	1843.9	1698.5	1554.9	1453.8	1378.3	1326.8	1304.7
55°	14173.2	12877.7	7331.3	2657.2	1650.7	1567.8	1520.0	1435.3	1348.9	1288.1	1264.2
57.5°	14819.1	13161.1	6832.6	2206.4	1512.6	1477.6	1483.2	1404.0	1304.7	1253.2	1220.1
60°	15356.4	13369.0	6094.8	1788.6	1400.4	1389.4	1426.2	1345.2	1229.3	1170.3	1144.6
62.5°	15678.5	13365.4	5189.4	1464.8	1304.7	1308.4	1350.7	1271.6	1153.8	1098.6	1082.0
65°	15650.8	13037.8	4195.6	1253.2	1212.7	1216.4	1271.6	1190.6	1091.2	1058.1	1056.3
67.5°	15096.9	12239.1	3218.5	1115.2	1111.5	1128.0	1192.5	1135.4	1052.6	1048.9	1054.4
70°	13597.2	10581.1	2318.7	1004.7	1006.6	1030.5	1115.2	1100.4	1032.4	1039.8	1037.9
72.5°	10903.1	8067.4	1556.8	888.8	890.6	929.3	1041.5	1072.9	1012.1	1109.7	1124.3
75°	7261.4	5031.1	1001.0	765.5	767.3	817.0	977.1	1019.5	956.9	1106.0	1115.2
77.5°	3489.0	2261.6	725.1	644.1	644.1	690.0	844.6	912.8	815.2	859.4	787.6
80°	1205.3	850.1	570.4	519.0	507.9	539.2	712.2	791.3	702.9	647.7	607.3
82.5°	474.8	441.7	458.2	403.0	366.2	386.4	553.9	653.2	517.1	467.4	465.6
85°	272.3	287.1	323.9	266.8	211.7	237.4	406.7	469.2	390.1	344.1	351.5
87.5°	73.6	101.2	149.0	138.0	95.7	101.2	193.2	259.4	224.5	173.0	178.5
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)