

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: P969848

Luminaire Tested: **NAV-SB6A-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27558.1 lumens
Efficiency: N/A
Efficacy: 161.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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

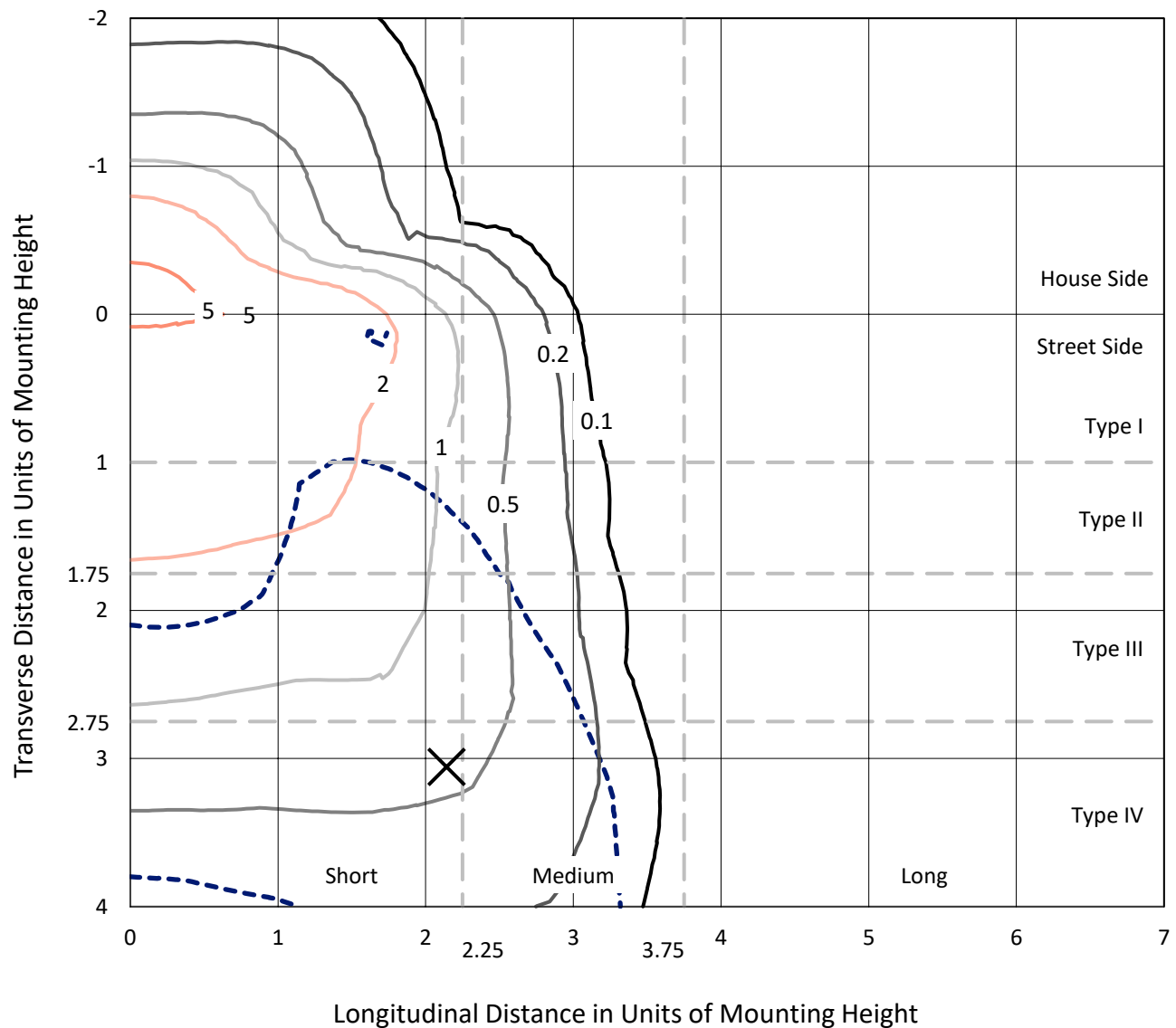


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Iso-Footcandle Lines of Horizontal Illumination

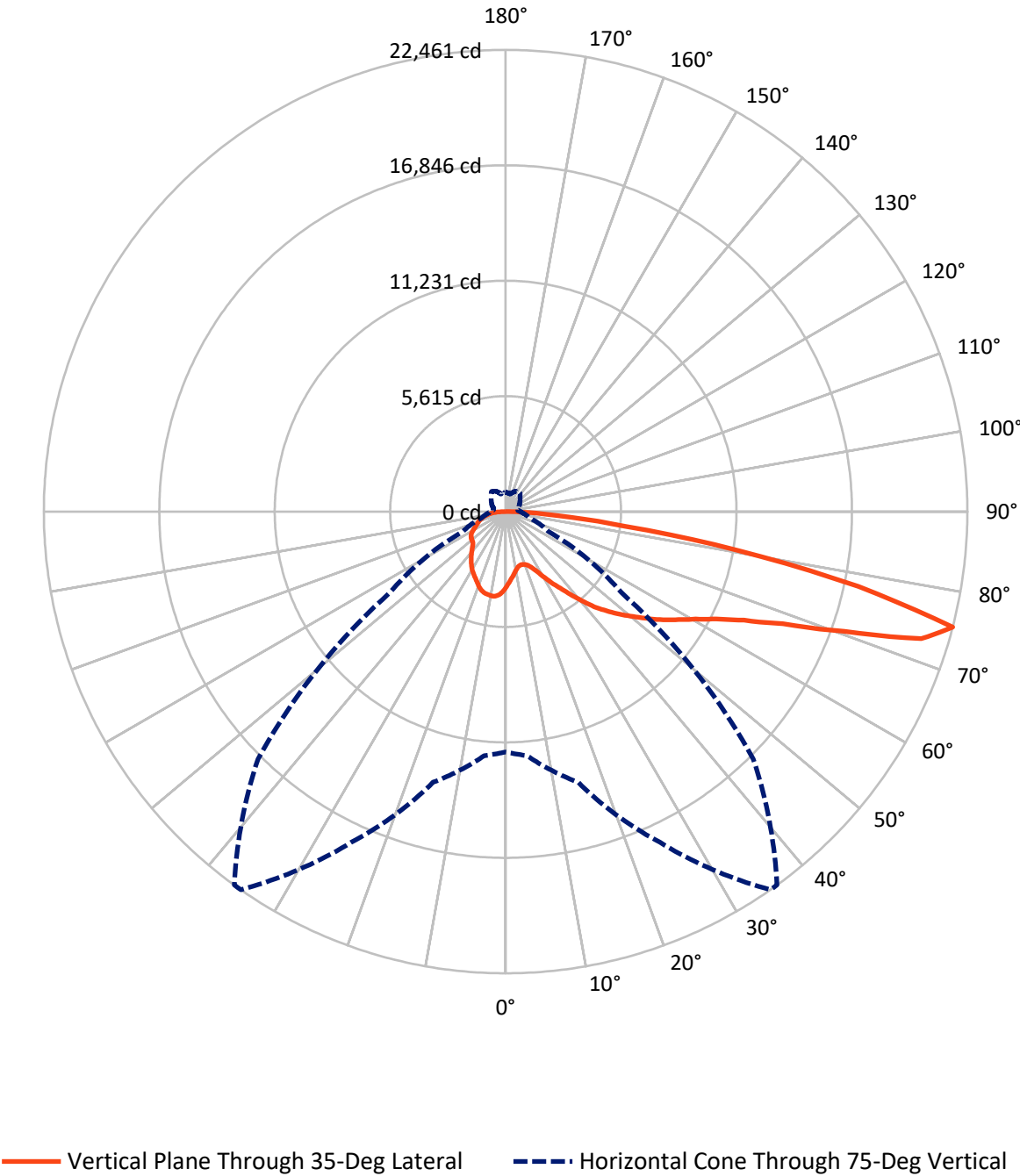
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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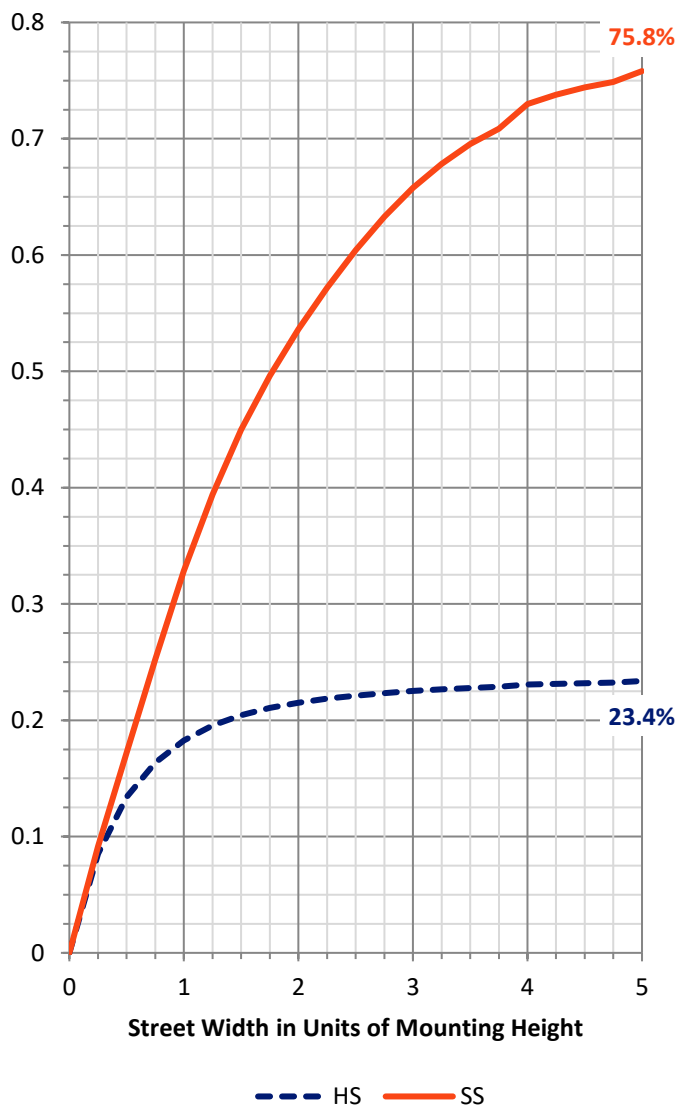
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6558.1	0.0	6558.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	21000.0	0.0	21000.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	27558.1	0.0	27558.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.7	1.3
10°-20°	1002.9	3.6
20°-30°	1684.1	6.1
30°-40°	2617.4	9.5
40°-50°	3884.9	14.1
50°-60°	5363.3	19.5
60°-70°	6506.9	23.6
70°-80°	5377.5	19.5
80°-90°	773.4	2.8
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°	27558.1	100.0
0°-180°	27558.1	100.0

Coefficient of Utilization



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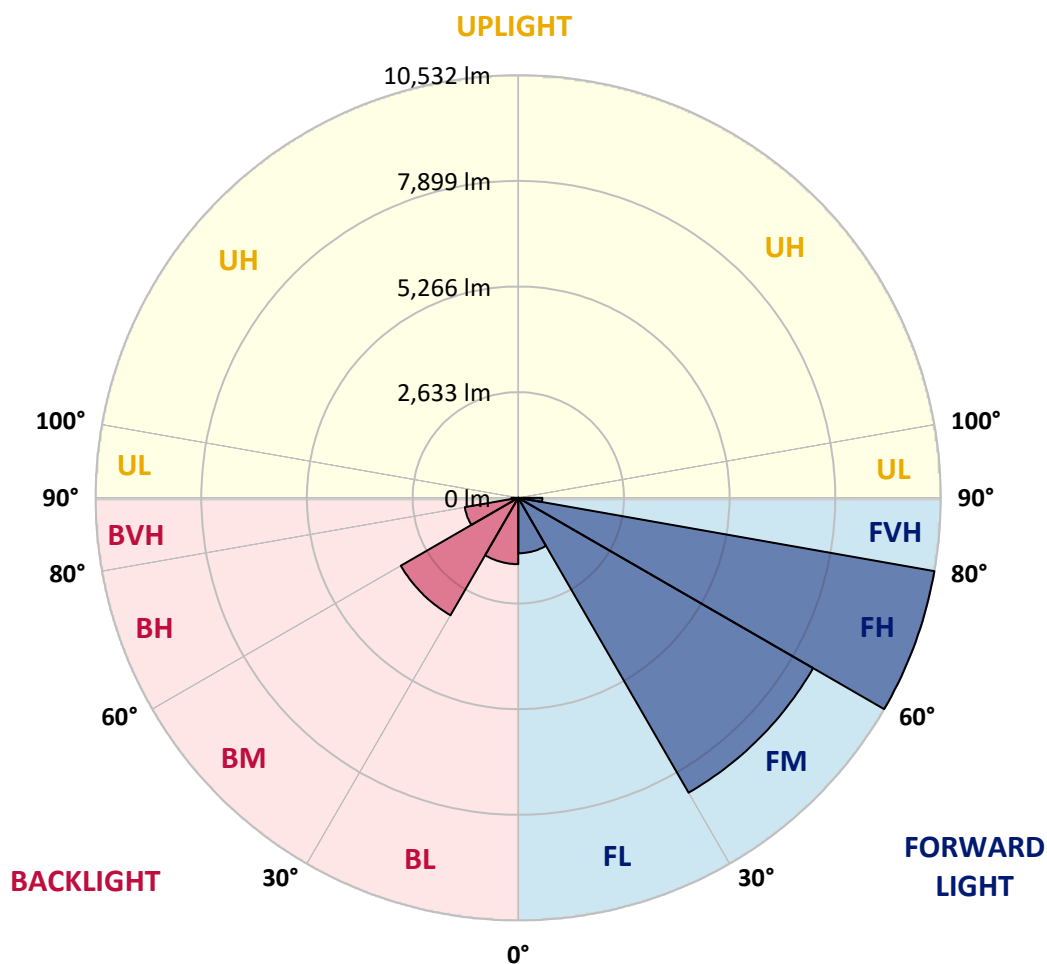
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1382.0	5.0			
FM	(30°-60°)	8486.4	30.8			
FH	(60°-80°)	10532.3	38.2			G4/12000
FVH	(80°-90°)	599.3	2.2			G4/750
BL	(0°-30°)	1652.7	6.0	B3/2500		
BM	(30°-60°)	3379.2	12.3	B3/5000		
BH	(60°-80°)	1352.1	4.9	B3/2500		G3/2500
BVH	(80°-90°)	174.2	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3
2.5°	3386.3	3407.1	3416.0	3411.6	3434.0	3431.0	3462.2	3501.0	3554.6	3606.8	3682.7
5°	3125.5	3147.9	3167.2	3185.2	3228.3	3241.8	3291.0	3365.4	3463.8	3563.5	3688.7
7.5°	2882.7	2902.1	2931.9	2964.7	3037.7	3051.1	3133.0	3249.2	3386.3	3532.3	3705.1
10°	2684.6	2704.0	2735.2	2772.5	2863.3	2879.7	2984.0	3139.0	3317.7	3502.4	3723.0
12.5°	2599.7	2605.7	2623.5	2660.8	2739.7	2750.2	2864.9	3042.1	3250.7	3480.1	3749.8
15°	2595.2	2607.1	2608.6	2628.0	2693.5	2698.0	2803.8	2979.6	3209.0	3475.7	3790.0
17.5°	2639.9	2648.8	2635.4	2647.4	2702.4	2709.9	2793.3	2949.7	3195.5	3495.0	3858.5
20°	2759.1	2766.5	2726.3	2709.9	2750.2	2756.1	2838.0	2969.1	3209.0	3535.2	3952.4
22.5°	3012.4	3016.8	2918.5	2851.4	2854.4	2857.4	2928.9	3048.0	3261.1	3608.2	4071.6
25°	3407.1	3404.1	3247.7	3118.2	3043.6	3027.2	3074.9	3176.2	3349.0	3705.1	4225.0
27.5°	3869.0	3846.6	3690.2	3496.5	3334.1	3310.3	3299.9	3343.0	3474.1	3833.2	4412.7
30°	4390.4	4369.6	4201.2	3947.9	3723.0	3684.3	3585.9	3563.5	3660.4	4007.5	4673.5
32.5°	4962.4	4949.0	4747.9	4441.0	4140.1	4095.4	3930.1	3870.4	3946.5	4271.2	5037.0
35°	5442.1	5430.2	5263.4	4947.6	4579.6	4524.5	4356.1	4289.1	4327.9	4609.4	5512.1
37.5°	5875.7	5869.8	5726.7	5477.9	5098.0	5031.0	4841.8	4819.4	4812.0	5054.8	6088.7
40°	6277.9	6263.1	6114.0	5982.9	5701.4	5640.3	5473.5	5454.1	5397.4	5603.1	6741.2
42.5°	6723.4	6684.6	6468.7	6407.6	6331.5	6280.9	6181.1	6184.0	6059.0	6221.3	7432.5
45°	7086.8	7064.5	6842.6	6806.8	6888.7	6867.9	6954.3	6976.7	6733.8	6869.3	8150.6
47.5°	7477.2	7456.4	7268.7	7243.3	7465.3	7471.2	7776.7	7784.1	7392.3	7542.8	8870.1
50°	7958.4	7928.6	7742.4	7773.7	8022.5	8044.8	8603.4	8552.8	7998.6	8226.5	9583.8
52.5°	8275.7	8293.6	8253.4	8304.0	8643.7	8664.5	9416.9	9287.3	8599.0	8901.4	10283.9
55°	8509.7	8545.4	8670.5	8786.7	9299.2	9320.1	10184.1	9986.0	9096.6	9527.2	10942.5
57.5°	8810.6	8760.0	8993.8	9220.3	9921.9	9977.0	10930.5	10659.4	9537.6	10066.4	11393.8
60°	9242.6	9206.9	9388.6	9723.8	10619.2	10707.0	11720.2	11265.7	9860.9	10494.1	11481.7
62.5°	10118.6	10029.2	10057.5	10353.9	11498.1	11614.4	12611.0	11794.6	10021.7	10660.9	11011.0
65°	11428.1	11274.7	11131.6	11337.2	12736.1	12850.8	13616.6	12210.2	9962.2	10337.6	9761.1
67.5°	13077.3	12925.4	12749.6	12943.2	14559.6	14650.5	14857.6	12444.1	9492.9	9092.2	7551.7
70°	14437.4	14380.9	14590.9	15387.9	17472.1	17475.1	16448.7	12250.5	8207.2	6446.3	4369.6
72.5°	14257.2	14222.9	15329.8	17793.9	21143.0	21064.1	17954.8	10784.5	5528.5	2908.0	1637.2
75°	11696.3	11918.3	13633.0	17750.7	22461.4	22451.0	17032.6	6856.0	2286.8	1205.2	846.2
77.5°	6272.0	6623.6	8850.8	13105.6	17534.7	17798.4	11974.9	2398.5	981.7	771.7	585.5
80°	2045.5	2352.4	3527.8	6672.7	11393.8	11344.7	5132.3	941.6	671.9	546.7	405.2
82.5°	868.6	904.3	1576.1	3150.8	5847.4	5756.5	1634.3	540.8	472.2	373.9	250.3
85°	339.7	379.9	695.8	1457.0	2532.7	2477.5	590.0	268.1	302.4	244.4	148.9
87.5°	111.7	135.6	248.8	499.1	788.1	759.8	144.5	92.4	131.1	111.7	53.6
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°	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3	3672.3
2.5°	3703.6	3727.4	3755.7	3797.4	3833.2	3863.0	3894.3	3913.7	3921.1	3943.5	3941.9
5°	3730.4	3782.6	3852.6	3921.1	3988.2	4028.4	4064.1	4082.0	4098.4	4110.4	4113.3
7.5°	3775.1	3842.1	3952.4	4041.8	4098.4	4131.2	4155.0	4149.0	4155.0	4158.0	4162.4
10°	3813.8	3907.7	4038.8	4123.7	4166.9	4168.4	4162.4	4141.6	4131.2	4132.7	4135.7
12.5°	3860.0	3964.3	4105.8	4177.4	4189.3	4156.5	4131.2	4095.4	4082.0	4076.0	4073.0
15°	3922.6	4041.8	4178.8	4205.7	4175.8	4134.1	4091.0	4032.9	4003.0	3979.3	3986.6
17.5°	3998.5	4129.6	4235.4	4216.0	4152.1	4083.5	4013.5	3925.5	3864.5	3839.1	3840.7
20°	4104.3	4222.1	4278.7	4193.7	4096.9	3992.6	3873.5	3766.2	3709.6	3684.3	3681.3
22.5°	4232.4	4345.7	4320.4	4155.0	4017.9	3851.1	3702.1	3623.2	3594.9	3576.9	3579.9
25°	4385.9	4482.7	4350.2	4098.4	3888.3	3663.4	3548.7	3523.3	3509.9	3496.5	3496.5
27.5°	4585.5	4637.7	4372.5	4014.9	3685.7	3463.8	3422.1	3426.5	3422.1	3399.7	3404.1
30°	4849.3	4838.8	4393.4	3879.4	3453.3	3283.5	3286.5	3305.8	3308.8	3293.9	3301.3
32.5°	5196.3	5090.6	4403.8	3703.6	3231.3	3125.5	3128.5	3149.4	3164.3	3139.0	3150.8
35°	5616.5	5384.0	4387.4	3483.2	3060.0	2975.1	2952.7	2958.7	2963.2	2939.3	2955.7
37.5°	6106.6	5713.3	4314.4	3238.8	2918.5	2827.6	2779.9	2739.7	2715.8	2693.5	2708.5
40°	6644.5	6072.3	4180.4	3000.4	2760.5	2671.1	2599.7	2523.7	2443.2	2413.5	2426.9
42.5°	7207.6	6441.8	4017.9	2772.5	2578.8	2505.8	2429.9	2319.6	2198.9	2137.8	2145.3
45°	7791.5	6820.2	3858.5	2547.5	2392.6	2361.3	2273.4	2140.8	2009.7	1932.2	1926.3
47.5°	8363.6	7177.8	3624.6	2321.1	2218.3	2252.5	2184.1	2061.9	1915.8	1793.6	1780.3
50°	8910.4	7512.9	3241.8	2091.6	2076.8	2219.7	2154.2	1978.5	1811.6	1655.2	1641.7
52.5°	9452.7	7784.1	2751.6	1883.1	2000.8	2210.8	2115.5	1921.8	1717.7	1553.8	1536.0
55°	9913.0	7924.2	2279.4	1704.3	1890.5	2134.9	2069.3	1854.7	1585.2	1410.8	1395.9
57.5°	10175.2	7810.9	1886.1	1528.5	1738.6	2009.7	1990.3	1711.7	1427.2	1293.1	1275.2
60°	10062.0	7352.0	1564.3	1375.0	1594.1	1874.1	1853.3	1570.2	1306.6	1179.9	1162.0
62.5°	9437.8	6477.6	1309.5	1241.0	1463.0	1735.6	1716.3	1461.4	1214.2	1092.0	1072.7
65°	8180.4	5269.3	1111.4	1129.2	1330.3	1568.8	1597.1	1370.6	1141.1	1022.0	1002.7
67.5°	6239.2	3816.8	956.4	1032.4	1200.8	1404.9	1486.8	1305.0	1080.0	966.9	948.9
70°	3556.1	2167.7	825.3	938.6	1086.1	1252.9	1401.9	1252.9	1014.5	920.7	908.8
72.5°	1348.3	995.2	713.6	844.7	975.8	1124.8	1308.0	1171.0	938.6	868.6	856.6
75°	719.6	606.4	600.3	734.4	849.2	999.7	1190.3	1090.5	881.9	917.7	947.5
77.5°	490.2	429.1	502.0	628.7	710.6	861.1	1065.2	968.3	764.2	761.3	701.7
80°	339.7	303.9	408.2	506.6	549.7	724.1	929.6	831.3	622.7	581.0	555.7
82.5°	204.1	198.1	305.4	378.4	388.8	558.6	770.2	697.2	509.5	443.9	446.9
85°	111.7	117.7	195.2	222.0	226.4	390.3	603.3	539.3	391.9	329.2	332.2
87.5°	31.3	40.2	71.5	87.9	108.8	202.6	359.1	320.3	196.7	137.0	137.0
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)