

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: P966688

Luminaire Tested: **NAV-SB4C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30704.9 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 200.7
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



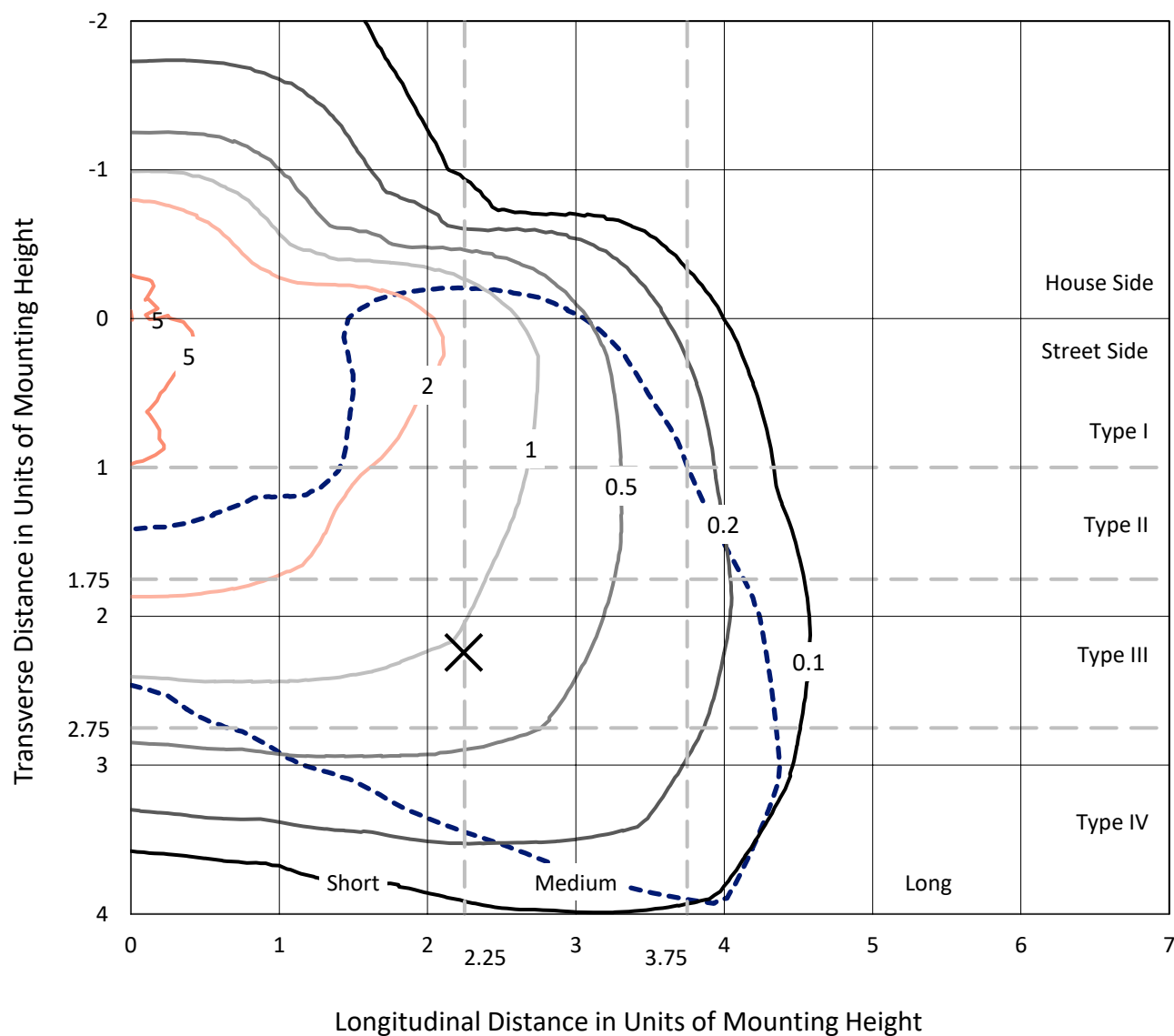
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

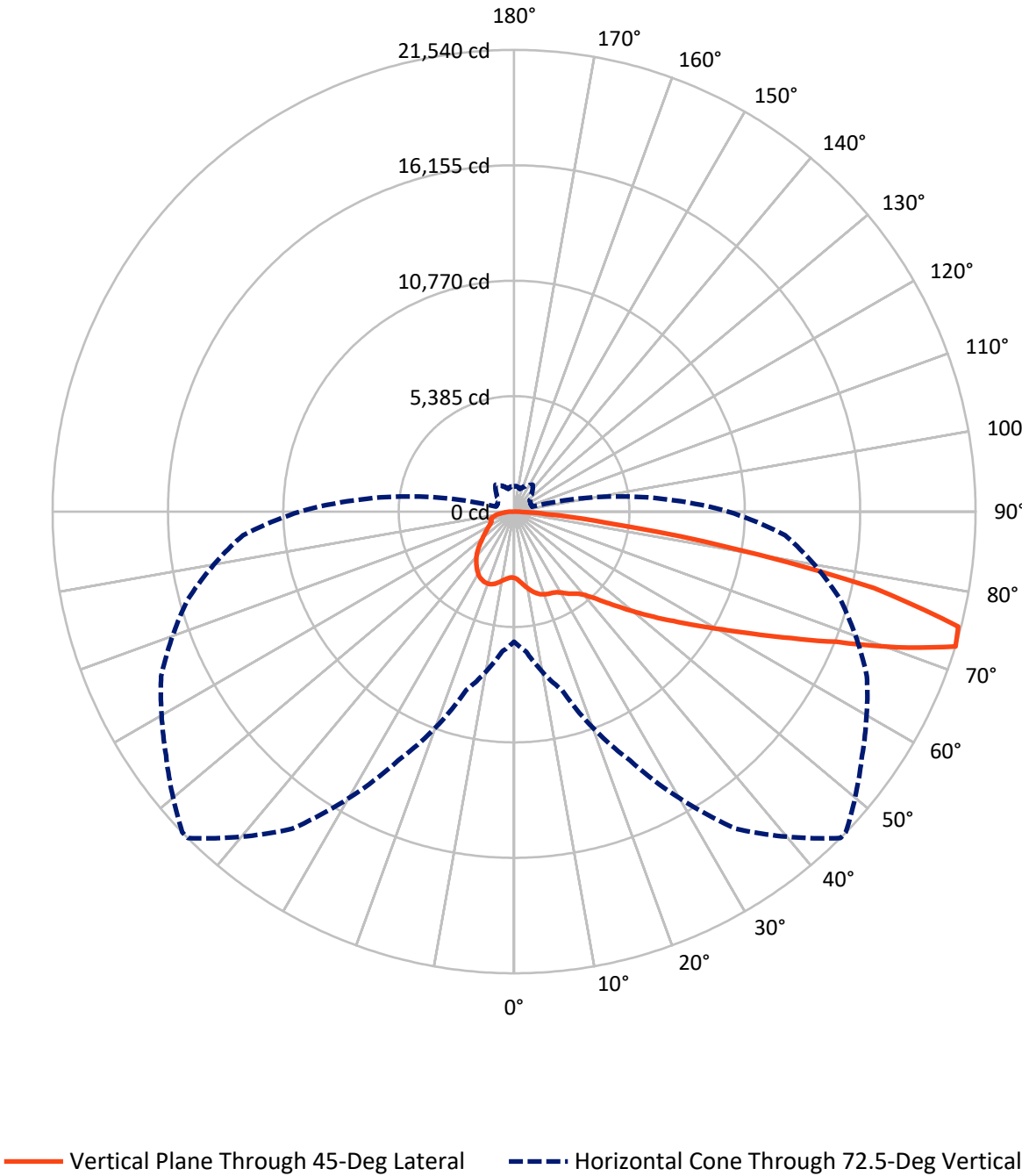


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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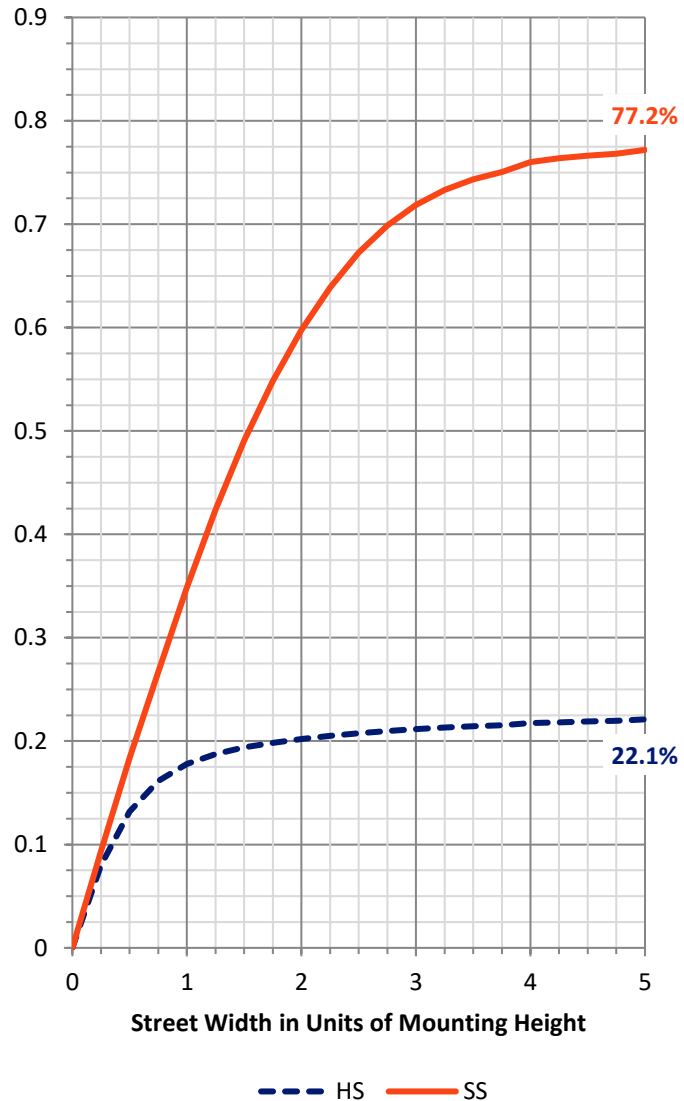
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6941.3	0.0	6941.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23763.6	0.0	23763.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	30704.9	0.0	30704.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.3	1.0
10°-20°	1051.1	3.4
20°-30°	1828.5	6.0
30°-40°	2621.3	8.5
40°-50°	3690.9	12.0
50°-60°	5653.4	18.4
60°-70°	8189.8	26.7
70°-80°	6540.0	21.3
80°-90°	814.5	2.7
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°	30704.9	100.0
0°-180°	30704.9	100.0

Coefficient of Utilization



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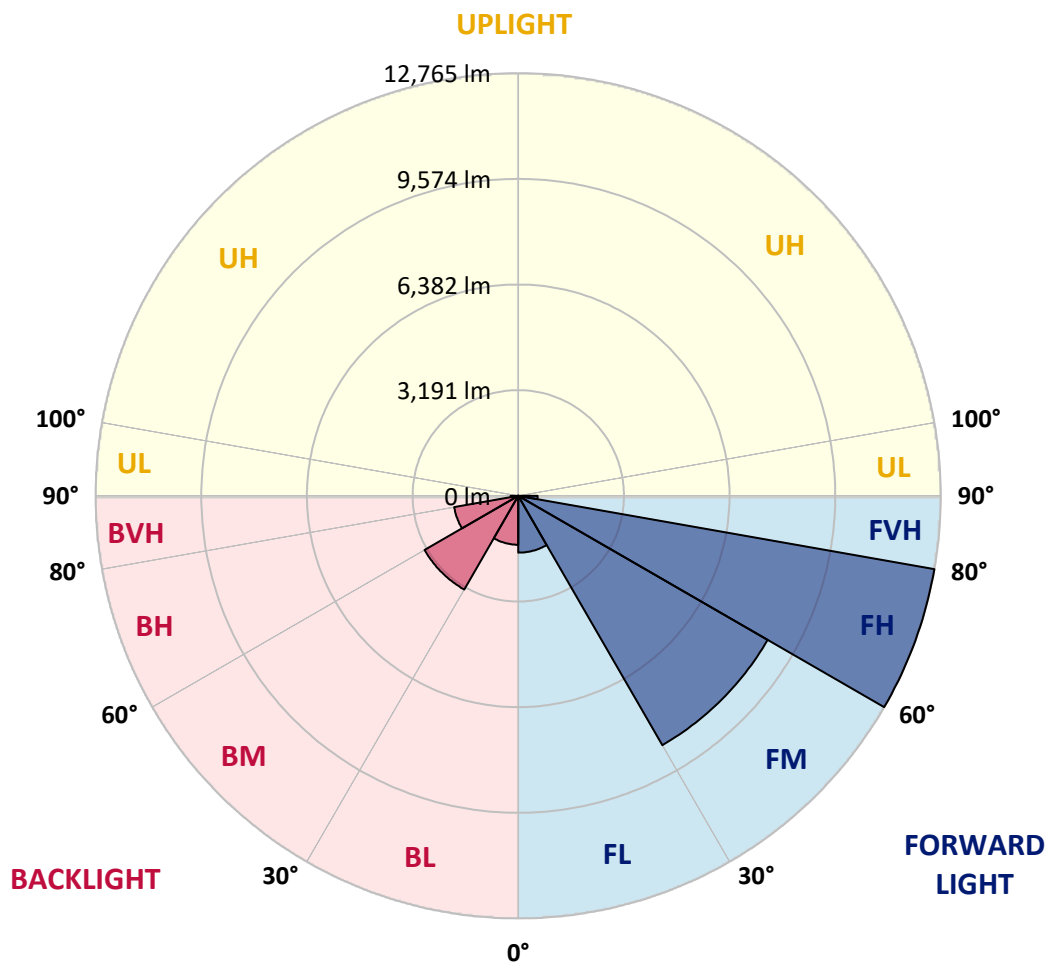
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1717.1	5.6			
FM	(30°-60°)	8697.2	28.3			
FH	(60°-80°)	12764.9	41.6			G5
FVH	(80°-90°)	584.4	1.9			G4/750
BL	(0°-30°)	1477.9	4.8	B3/2500		
BM	(30°-60°)	3268.4	10.6	B3/5000		
BH	(60°-80°)	1964.9	6.4	B3/2500		G3/2500
BVH	(80°-90°)	230.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5
2.5°	3218.8	3239.8	3220.4	3202.7	3194.6	3173.5	3172.0	3158.9	3151.0	3128.3	3121.7
5°	3443.7	3471.2	3438.8	3403.2	3370.9	3319.2	3312.7	3275.5	3233.4	3184.9	3157.4
7.5°	3697.6	3721.9	3684.7	3631.3	3574.7	3489.0	3487.4	3419.4	3353.1	3270.6	3223.7
10°	3919.2	3951.6	3901.5	3828.7	3757.4	3660.4	3649.1	3571.4	3487.4	3380.6	3309.4
12.5°	4115.0	4137.6	4089.0	4000.1	3917.7	3820.6	3806.0	3720.2	3626.4	3505.1	3414.6
15°	4270.3	4299.4	4234.7	4139.2	4051.8	3956.4	3943.5	3865.9	3772.0	3644.3	3527.7
17.5°	4372.1	4396.4	4330.1	4223.3	4139.2	4059.9	4050.3	3985.5	3903.0	3773.6	3649.1
20°	4411.0	4436.8	4367.3	4258.9	4181.3	4119.8	4115.0	4068.0	4011.4	3893.4	3767.2
22.5°	4449.7	4474.0	4383.4	4270.3	4202.3	4163.4	4161.8	4131.2	4108.5	4011.4	3888.4
25°	4606.7	4613.1	4491.9	4328.5	4231.4	4197.5	4195.8	4194.2	4203.9	4127.9	4019.5
27.5°	4742.6	4740.9	4637.4	4483.8	4333.3	4262.2	4260.5	4276.7	4307.5	4244.3	4155.3
30°	4941.5	4923.7	4800.8	4640.6	4503.1	4393.2	4383.4	4368.9	4393.2	4343.0	4291.3
32.5°	5363.6	5307.0	5108.1	4823.4	4643.9	4559.7	4546.8	4456.2	4465.9	4435.2	4409.3
35°	5968.6	5894.2	5628.9	5169.6	4818.5	4698.9	4692.3	4577.5	4558.2	4530.6	4540.3
37.5°	6688.4	6596.2	6287.2	5671.0	5119.4	4860.7	4850.9	4747.4	4668.2	4639.0	4694.0
40°	7411.5	7294.9	7039.4	6282.4	5562.6	5130.7	5100.0	4943.1	4852.6	4804.0	4920.4
42.5°	8113.4	8016.3	7798.0	6968.3	6109.3	5525.4	5457.5	5189.0	5121.0	5075.7	5286.0
45°	8734.5	8647.2	8487.1	7700.9	6749.8	6062.5	5996.1	5557.8	5536.7	5536.7	5840.9
47.5°	9239.2	9219.8	9049.9	8448.3	7505.3	6673.9	6559.0	6070.5	6127.1	6214.5	6628.6
50°	9798.9	9745.5	9564.3	9184.2	8393.2	7374.3	7280.4	6699.7	6911.6	7151.0	7767.2
52.5°	10313.2	10342.4	10140.1	9950.9	9396.1	8155.5	7990.5	7442.1	7899.9	8296.1	9101.7
55°	10842.1	10843.8	10787.2	10761.3	10447.5	9019.2	8838.1	8335.0	9062.8	9554.6	10657.7
57.5°	11338.8	11341.9	11426.1	11654.1	11667.1	10015.6	9810.2	9431.6	10355.3	10856.7	12262.3
60°	11782.0	11804.6	12034.2	12568.0	12739.5	11157.5	10963.5	10727.3	11691.4	12196.0	13949.4
62.5°	11930.7	12013.2	12524.4	13283.0	13799.0	12558.3	12367.4	12226.7	13095.3	13564.4	15359.8
65°	11678.4	11867.7	12856.0	13873.4	14889.1	14222.7	14033.5	13879.8	14554.3	14996.0	16518.0
67.5°	11058.9	11303.2	12836.6	14492.9	16212.3	16225.2	16048.9	15688.2	16118.4	16288.3	16894.9
70°	9426.8	9792.4	11705.9	14724.1	17731.2	18963.6	18793.8	17865.3	17679.4	16857.7	15833.8
72.5°	6073.7	6565.4	8619.7	12820.4	18069.2	21540.4	21530.6	19830.7	18172.7	15751.3	12699.0
75°	2215.9	2516.9	4005.0	8047.1	15167.3	21409.3	21472.4	19494.2	16589.1	12166.9	7911.3
77.5°	807.1	883.1	1307.0	3092.6	9328.1	17178.0	17309.0	15584.7	11807.8	6106.1	3134.8
80°	423.8	465.9	669.6	1200.2	3996.9	10201.6	10407.0	9261.8	5549.7	1839.1	939.8
82.5°	234.5	254.0	375.3	651.9	1800.3	4362.4	4485.3	3658.8	1952.3	779.6	388.2
85°	126.2	134.3	176.3	355.9	880.0	1512.4	1546.3	1093.5	778.0	457.8	187.7
87.5°	37.2	45.3	58.2	113.3	344.5	339.7	347.8	216.8	307.3	231.3	61.5
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°	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5	3097.5
2.5°	3112.1	3107.2	3089.5	3081.4	3071.6	3070.1	3078.1	3079.7	3081.4	3083.0	3089.5
5°	3141.2	3125.0	3108.8	3099.2	3102.4	3104.0	3120.2	3131.5	3139.6	3146.0	3149.3
7.5°	3197.8	3184.9	3157.4	3155.8	3160.6	3175.1	3196.2	3222.1	3236.6	3247.9	3251.2
10°	3281.9	3257.7	3225.3	3230.2	3239.8	3260.9	3304.6	3325.6	3349.9	3370.9	3366.0
12.5°	3367.6	3346.6	3309.4	3312.7	3328.8	3366.0	3408.1	3434.0	3450.2	3466.3	3472.8
15°	3479.3	3442.1	3401.7	3401.7	3430.8	3471.2	3490.5	3511.6	3521.3	3539.1	3545.6
17.5°	3594.1	3545.6	3492.2	3489.0	3524.6	3543.9	3555.3	3558.5	3561.8	3581.1	3587.6
20°	3709.0	3655.6	3579.5	3573.0	3581.1	3578.0	3576.3	3573.0	3578.0	3602.2	3611.9
22.5°	3822.1	3760.7	3655.6	3626.4	3603.8	3573.0	3571.4	3569.9	3573.0	3597.3	3613.5
25°	3954.8	3880.4	3739.7	3652.4	3576.3	3534.3	3539.1	3540.8	3543.9	3563.4	3589.2
27.5°	4098.8	4016.3	3817.3	3644.3	3506.7	3477.6	3469.5	3474.4	3485.7	3516.5	3547.2
30°	4242.7	4145.7	3888.4	3611.9	3419.4	3379.0	3353.1	3364.5	3400.0	3430.8	3464.7
32.5°	4373.8	4276.7	3945.1	3540.8	3307.8	3244.7	3210.7	3225.3	3260.9	3272.2	3312.7
35°	4527.4	4417.4	3969.3	3427.5	3186.5	3089.5	3044.1	3023.1	3040.9	3029.6	3065.2
37.5°	4698.9	4584.0	3966.1	3278.7	3044.1	2932.5	2869.5	2790.2	2753.0	2714.2	2738.4
40°	4952.8	4787.8	3927.3	3099.2	2867.8	2766.0	2652.7	2518.4	2434.4	2358.3	2363.1
42.5°	5298.9	5070.9	3856.2	2901.8	2668.9	2573.5	2419.8	2262.9	2130.3	2004.1	1992.8
45°	5814.9	5441.3	3767.2	2691.5	2453.7	2360.0	2193.3	2017.0	1866.6	1704.9	1685.4
47.5°	6559.0	5939.5	3683.0	2452.1	2227.3	2141.5	1991.2	1827.8	1649.8	1492.9	1475.2
50°	7581.2	6654.4	3605.4	2219.2	2004.1	1939.4	1819.7	1653.1	1473.5	1347.4	1339.3
52.5°	8881.7	7626.5	3573.0	1994.3	1795.4	1771.2	1675.8	1520.5	1350.6	1243.8	1235.7
55°	10374.7	8789.6	3573.0	1779.3	1612.6	1620.7	1554.4	1410.5	1263.3	1167.9	1158.1
57.5°	11898.4	9967.1	3508.4	1580.3	1457.3	1491.4	1449.2	1323.1	1190.4	1091.8	1075.6
60°	13302.3	10953.8	3246.4	1399.1	1319.9	1373.3	1345.7	1237.4	1075.6	993.1	980.2
62.5°	14381.3	11510.1	2741.7	1255.2	1206.6	1268.1	1253.6	1124.1	1054.6	1020.7	1009.3
65°	14921.5	11419.6	2096.3	1127.4	1111.2	1206.6	1175.9	1171.1	1116.1	1077.3	1064.4
67.5°	14590.0	10640.0	1520.5	1033.6	1056.3	1150.0	1268.1	1287.5	1185.6	1109.6	1096.6
70°	13135.8	9229.5	1132.2	944.6	986.7	1151.7	1446.1	1347.4	1163.0	1074.0	1059.4
72.5°	9992.9	6882.5	878.3	850.9	896.1	1159.8	1525.3	1319.9	1098.3	1187.3	1177.5
75°	5714.7	3778.5	705.2	735.9	782.9	1083.7	1484.9	1248.8	1048.2	1090.2	1090.2
77.5°	2178.7	1452.5	582.3	622.8	629.2	946.3	1420.1	1243.8	998.0	973.7	888.1
80°	755.4	567.7	482.1	495.0	486.9	841.1	1361.9	1082.1	816.8	731.1	706.8
82.5°	308.9	283.1	381.7	365.5	346.1	653.4	1099.9	884.8	668.0	590.4	583.9
85°	134.3	179.6	252.4	221.6	200.6	452.9	881.5	748.9	564.5	486.9	485.2
87.5°	27.5	68.0	106.8	100.2	103.5	302.5	626.0	532.2	399.5	299.2	234.5
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)