

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: P969831

Luminaire Tested: **NAV-SB6A-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

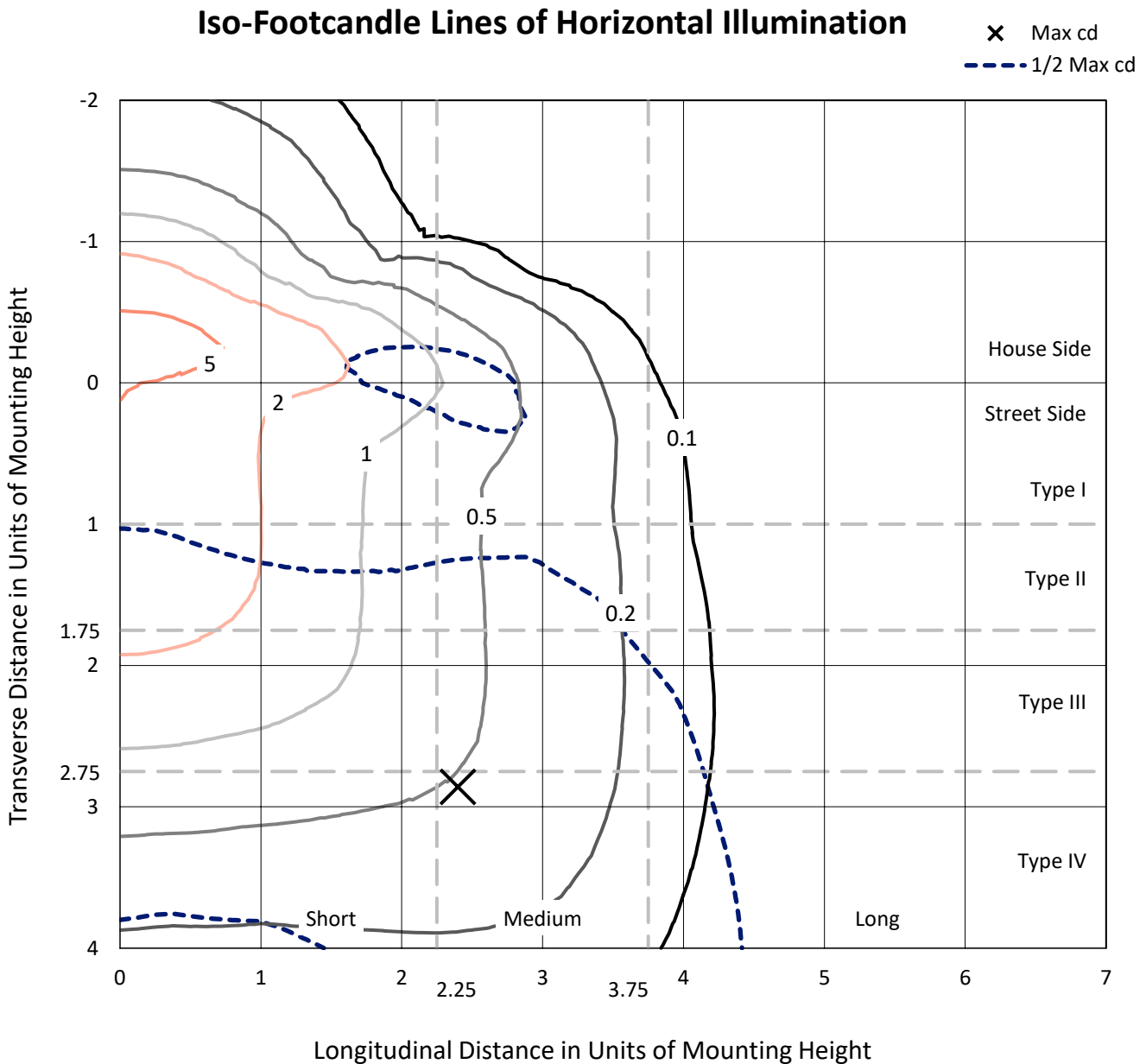
Lumens per Lamp: N/A
Luminaire Lumens: 27638.1 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

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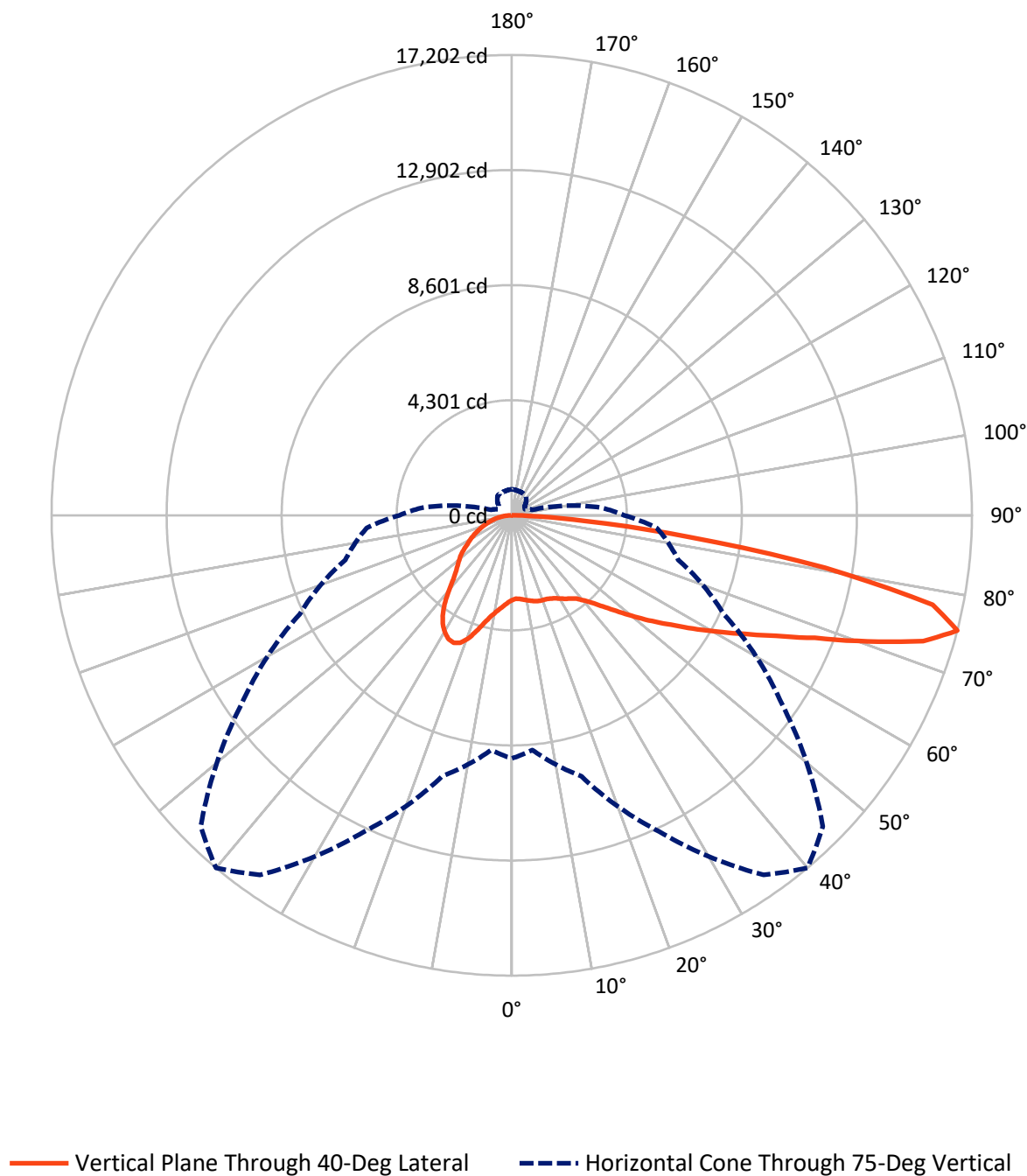
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Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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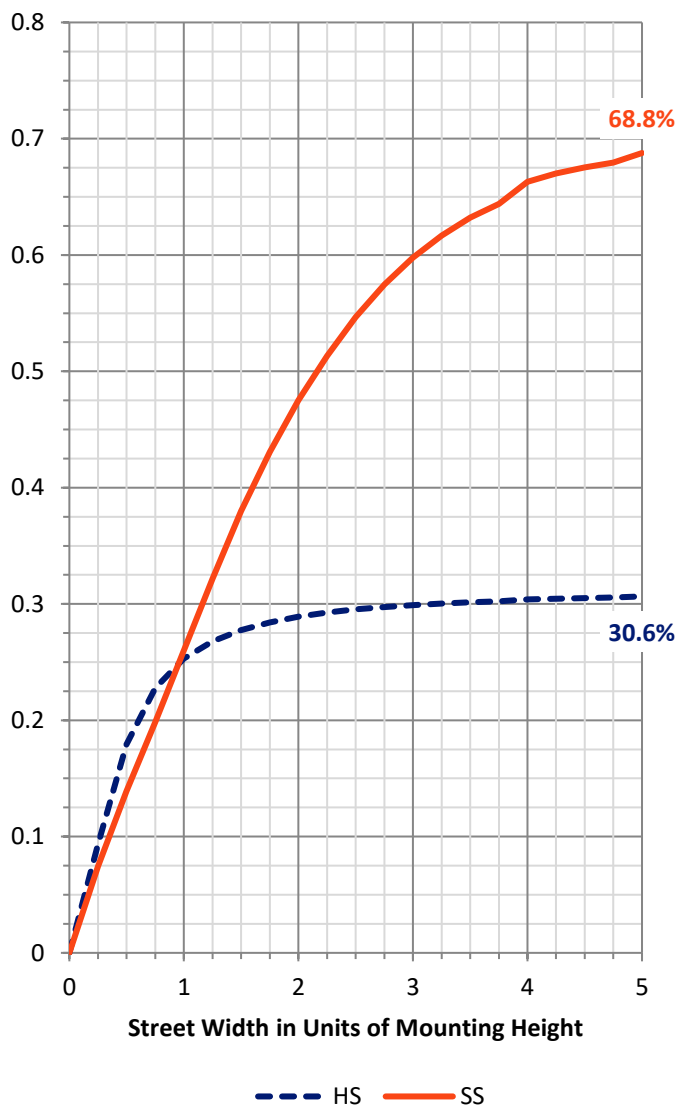
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8563.2	0.0	8563.2
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19074.9	0.0	19074.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	27638.1	0.0	27638.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	1.1
10°-20°	1059.2	3.8
20°-30°	1934.0	7.0
30°-40°	2742.9	9.9
40°-50°	3703.8	13.4
50°-60°	4982.6	18.0
60°-70°	6324.0	22.9
70°-80°	5739.5	20.8
80°-90°	836.6	3.0
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°	27638.1	100.0
0°-180°	27638.1	100.0

Coefficient of Utilization



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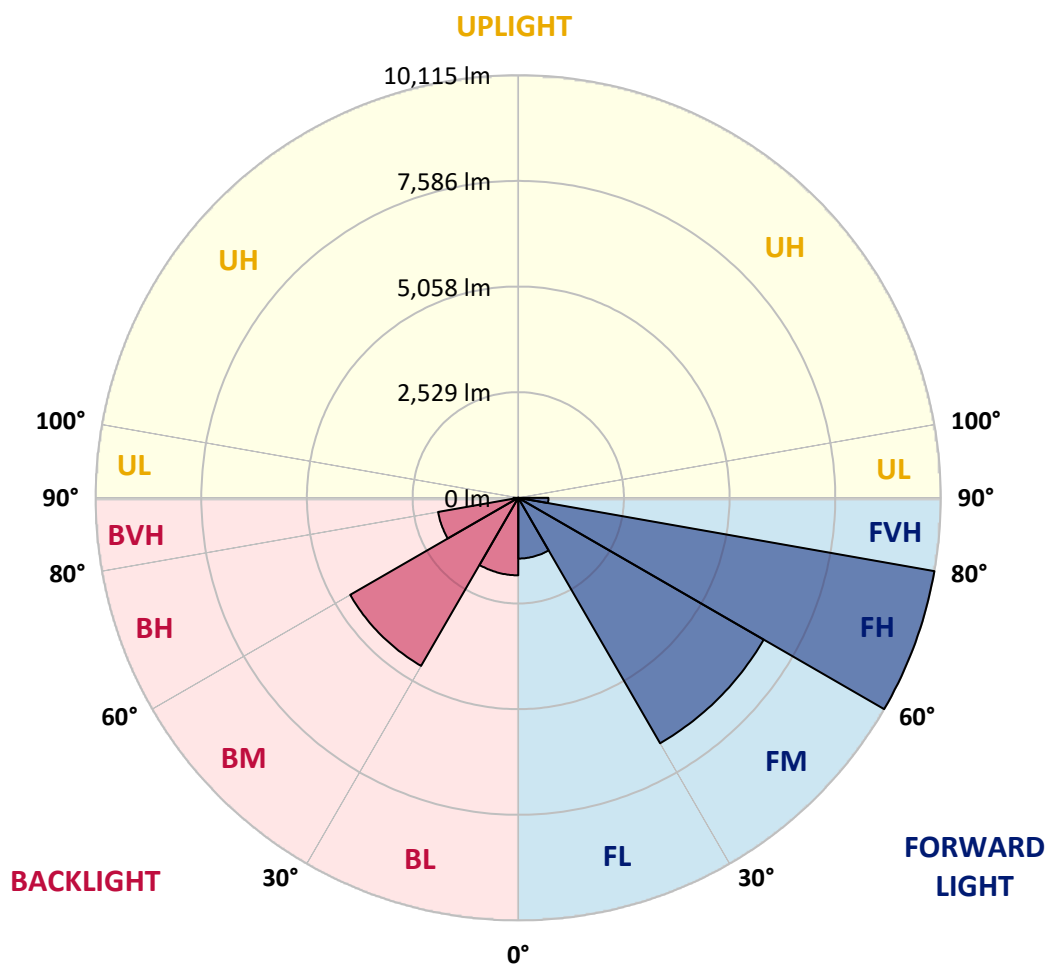
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1453.8	5.3			
FM	(30°-60°)	6784.5	24.5			
FH	(60°-80°)	10115.1	36.6			G4/12000
FVH	(80°-90°)	721.4	2.6			G4/750
BL	(0°-30°)	1854.9	6.7	B3/2500		
BM	(30°-60°)	4644.8	16.8	B3/5000		
BH	(60°-80°)	1948.4	7.0	B3/2500		G3/2500
BVH	(80°-90°)	115.2	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5
2.5°	3112.1	3129.6	3125.2	3119.4	3119.4	3120.9	3119.4	3129.6	3139.9	3150.2	3166.3
5°	3144.3	3161.9	3153.1	3145.8	3139.9	3138.4	3134.0	3132.6	3138.4	3151.7	3173.6
7.5°	3207.3	3225.0	3211.7	3198.6	3186.8	3181.0	3175.1	3166.3	3161.9	3169.3	3200.0
10°	3277.7	3295.3	3279.2	3255.7	3236.6	3229.4	3223.5	3214.7	3208.9	3213.3	3246.9
12.5°	3348.1	3365.7	3343.7	3311.5	3286.6	3282.2	3274.8	3271.9	3270.4	3268.9	3302.7
15°	3414.1	3428.7	3400.8	3362.7	3336.4	3329.0	3321.7	3326.1	3333.4	3342.2	3380.3
17.5°	3465.3	3480.0	3439.0	3389.2	3364.3	3361.3	3356.9	3371.5	3392.0	3414.1	3460.9
20°	3512.3	3526.9	3474.1	3406.7	3377.4	3377.4	3378.9	3409.7	3439.0	3471.3	3535.7
22.5°	3578.3	3590.0	3525.5	3433.1	3390.6	3393.6	3405.3	3436.0	3472.7	3516.7	3606.1
25°	3676.5	3685.3	3606.1	3483.0	3434.6	3443.4	3453.6	3468.3	3503.4	3554.8	3674.9
27.5°	3834.7	3842.1	3738.0	3570.9	3497.6	3512.3	3526.9	3516.7	3532.8	3576.7	3730.7
30°	4057.6	4062.0	3930.1	3708.7	3604.6	3612.0	3614.9	3572.3	3541.6	3576.7	3770.3
32.5°	4321.4	4320.0	4163.1	3875.8	3726.3	3719.0	3694.0	3610.5	3538.6	3569.5	3805.4
35°	4730.4	4714.3	4512.0	4110.4	3864.0	3818.6	3760.0	3653.0	3553.3	3562.1	3836.3
37.5°	5407.7	5357.8	5077.8	4494.4	4069.4	3953.5	3867.0	3721.9	3585.6	3559.2	3872.9
40°	6171.4	6108.4	5800.5	5020.7	4377.2	4191.0	4051.7	3820.1	3638.3	3572.3	3927.1
42.5°	7077.3	6987.8	6656.6	5640.8	4767.1	4497.4	4287.7	3944.7	3716.0	3614.9	4000.4
45°	8190.0	8071.2	7602.1	6339.9	5258.1	4899.0	4619.1	4133.8	3834.7	3697.0	4110.4
47.5°	9314.3	9343.6	8676.6	7140.4	5847.4	5394.5	5033.9	4418.2	4007.7	3828.9	4287.7
50°	10508.9	10529.5	9745.2	8027.2	6515.8	5954.4	5500.0	4736.3	4248.1	4016.6	4553.0
52.5°	11441.3	11444.2	10715.7	8955.1	7212.2	6570.1	6002.8	5099.8	4526.7	4265.7	4906.4
55°	12024.7	12017.3	11395.8	9833.1	8012.5	7216.6	6559.9	5513.2	4866.7	4558.9	5350.5
57.5°	12448.3	12426.3	11864.9	10588.1	8865.7	7980.3	7190.2	5982.3	5268.4	4907.8	5935.4
60°	12609.6	12596.3	12182.9	11240.5	9762.8	8824.6	7917.3	6507.1	5724.3	5319.7	6687.4
62.5°	12671.2	12696.1	12495.3	11872.3	10722.9	9759.8	8716.2	7134.5	6237.3	5785.8	7480.4
65°	12888.0	12933.6	12892.4	12699.0	11807.7	10854.9	9776.0	7880.6	6797.3	6285.7	8308.6
67.5°	13317.6	13363.0	13380.7	13688.5	13132.9	12219.6	11098.2	8810.0	7452.6	6804.7	8931.6
70°	13307.4	13294.1	13604.9	14475.7	14792.3	14109.1	12880.8	9953.4	8233.9	7235.6	9010.8
72.5°	12112.6	12007.1	12741.5	14466.8	16173.2	16082.2	15057.6	11428.0	8908.2	7288.4	7819.0
75°	9087.0	8805.6	10102.9	13037.6	16403.3	17202.2	16441.4	12342.7	8748.4	6439.7	5441.4
77.5°	3886.1	3603.2	5132.1	9651.4	14680.9	16080.8	15171.9	10768.4	6983.5	4258.4	2672.3
80°	1017.3	1015.9	1550.9	4375.7	9984.1	11875.1	10418.1	6954.2	3990.1	1521.6	737.4
82.5°	420.7	410.4	570.2	1701.9	4878.5	6663.9	5438.4	3101.9	1440.9	411.9	244.8
85°	156.8	155.4	277.1	587.8	1721.0	2748.5	1989.2	793.0	359.2	200.8	110.0
87.5°	44.0	42.5	60.1	203.8	419.2	636.2	340.1	130.5	101.2	79.1	32.3
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°	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5	3160.5
2.5°	3170.7	3178.0	3191.2	3201.5	3214.7	3229.4	3249.9	3263.1	3276.2	3285.0	3279.2
5°	3184.0	3200.0	3233.8	3267.5	3307.1	3343.7	3386.2	3416.9	3442.0	3449.2	3452.2
7.5°	3213.3	3239.6	3296.8	3353.9	3416.9	3477.1	3538.6	3591.4	3633.9	3650.0	3651.6
10°	3264.5	3299.7	3380.3	3460.9	3544.6	3636.9	3716.0	3792.3	3852.4	3877.3	3878.7
12.5°	3329.0	3373.0	3478.5	3590.0	3705.8	3833.3	3935.9	4029.7	4104.5	4138.2	4138.2
15°	3412.6	3469.7	3604.6	3754.2	3924.2	4101.5	4232.0	4336.1	4419.7	4460.7	4457.7
17.5°	3503.4	3579.7	3749.8	3975.5	4218.8	4451.9	4604.4	4680.6	4767.1	4806.6	4805.2
20°	3591.4	3685.3	3928.6	4256.9	4580.9	4828.7	4951.8	4972.3	4978.1	4982.5	4994.3
22.5°	3682.3	3808.4	4152.9	4611.7	4959.1	5130.6	5148.2	5060.2	4937.1	4879.9	4896.0
25°	3781.9	3949.1	4446.0	5003.0	5284.5	5305.1	5170.2	4956.2	4723.1	4616.1	4632.2
27.5°	3878.7	4111.8	4797.8	5376.8	5519.1	5338.7	5048.5	4745.0	4463.7	4350.7	4363.9
30°	3975.5	4298.0	5186.3	5703.8	5626.1	5255.2	4856.4	4517.9	4235.0	4116.2	4129.4
32.5°	4073.7	4514.9	5633.4	5939.8	5607.1	5077.8	4617.5	4262.8	4013.6	3889.0	3905.1
35°	4185.1	4781.7	6057.0	6068.8	5479.4	4816.9	4302.3	3957.9	3740.9	3641.3	3663.2
37.5°	4330.2	5120.4	6430.8	6101.0	5256.7	4434.4	3911.0	3597.2	3418.5	3373.0	3405.3
40°	4510.5	5527.8	6716.7	6049.8	4926.9	3969.6	3483.0	3232.2	3131.2	3141.4	3176.6
42.5°	4745.0	5983.7	6917.5	5917.8	4468.0	3490.2	3107.7	2996.3	3044.7	3085.7	3123.8
45°	5050.0	6457.2	7042.2	5693.5	3949.1	3084.2	2886.3	2912.7	2949.3	2953.7	2983.1
47.5°	5439.9	6936.6	7124.3	5354.9	3419.9	2798.4	2745.6	2751.5	2744.1	2713.4	2736.9
50°	5926.5	7402.8	7197.6	4906.4	2969.9	2619.5	2549.2	2528.7	2427.5	2327.9	2341.0
52.5°	6480.7	7830.8	7228.3	4349.3	2619.5	2470.0	2355.7	2226.7	2037.6	2006.8	2017.1
55°	7096.4	8226.5	7149.2	3664.7	2324.9	2278.0	2105.0	1949.7	1929.2	1902.7	1907.1
57.5°	7832.2	8653.2	6987.8	2901.0	2022.9	2053.7	1885.2	1902.7	1866.1	1825.0	1817.7
60°	8637.1	9094.4	6704.9	2204.7	1710.7	1773.8	1828.0	1826.4	1816.2	1782.5	1770.8
62.5°	9361.1	9384.6	6148.0	1688.7	1436.5	1556.8	1704.8	1703.3	1694.5	1675.5	1668.2
65°	9792.1	9340.6	5218.6	1329.5	1210.8	1377.9	1537.7	1549.5	1550.9	1549.5	1549.5
67.5°	9715.9	8826.1	3943.3	1058.4	1024.7	1196.2	1372.1	1388.2	1399.9	1402.8	1405.8
70°	8853.9	7695.9	2571.2	844.4	859.1	1036.4	1215.2	1231.3	1241.6	1253.4	1259.2
72.5°	6901.4	5658.3	1471.8	683.1	713.9	898.6	1059.8	1078.9	1084.8	1106.8	1115.5
75°	4205.7	3327.6	794.5	538.0	586.4	768.1	905.9	927.9	938.2	964.5	967.5
77.5°	1999.5	1440.9	452.9	419.2	472.0	627.4	765.2	790.1	762.3	776.9	765.2
80°	675.8	535.0	285.9	319.6	360.6	489.6	612.7	637.7	579.0	576.0	570.2
82.5°	236.1	217.0	181.7	212.6	233.1	350.3	463.2	495.5	431.0	429.5	409.0
85°	92.4	87.9	101.2	115.8	139.3	215.5	304.9	321.0	265.4	214.0	211.0
87.5°	19.1	20.5	24.9	26.3	42.5	74.7	110.0	134.9	107.0	90.9	83.5
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)