

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: P969893

Luminaire Tested: **NAV-SB6A-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969893
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-750-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 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: 29240.2 lumens
Efficiency: N/A
Efficacy: 171.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

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



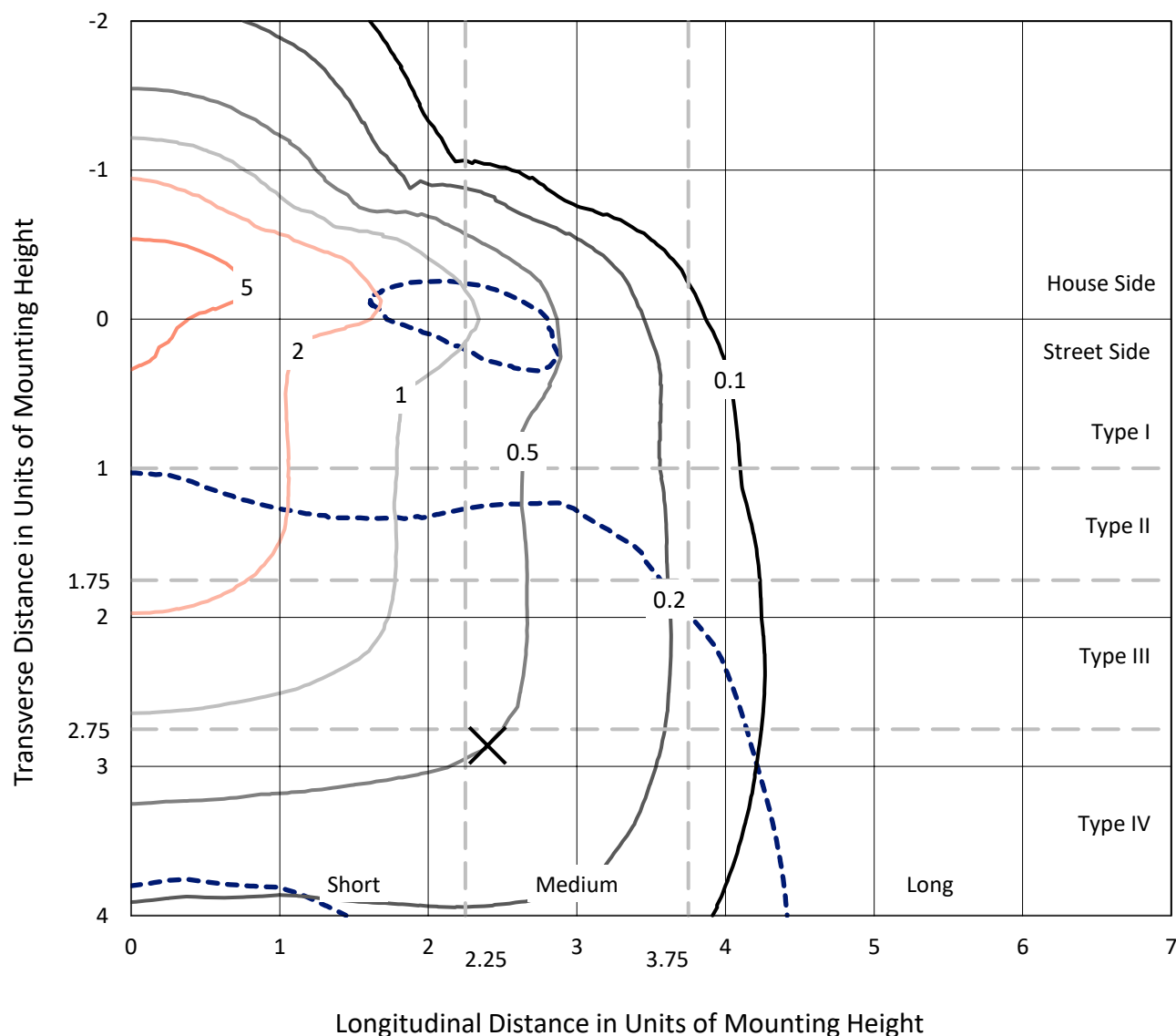
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

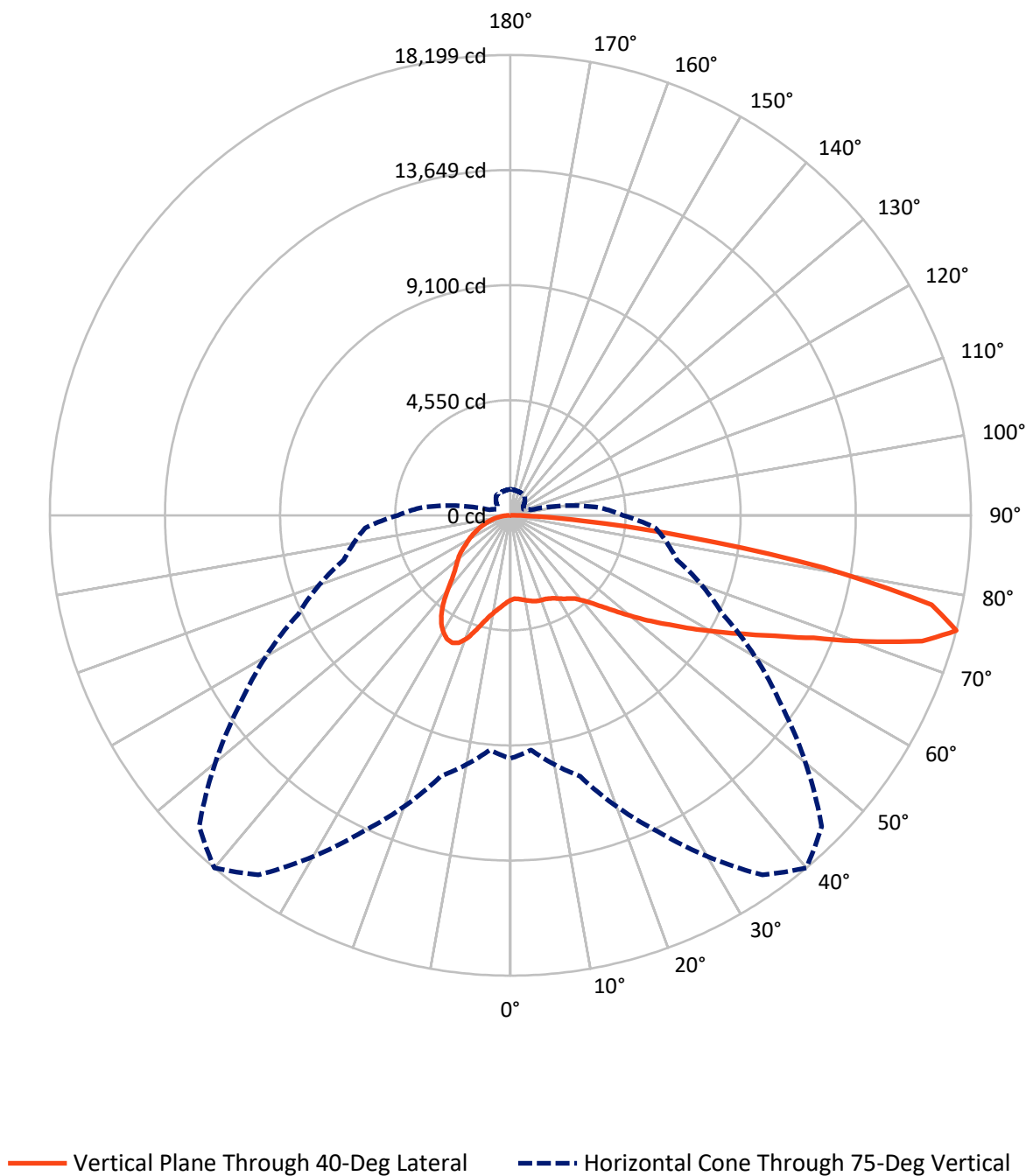
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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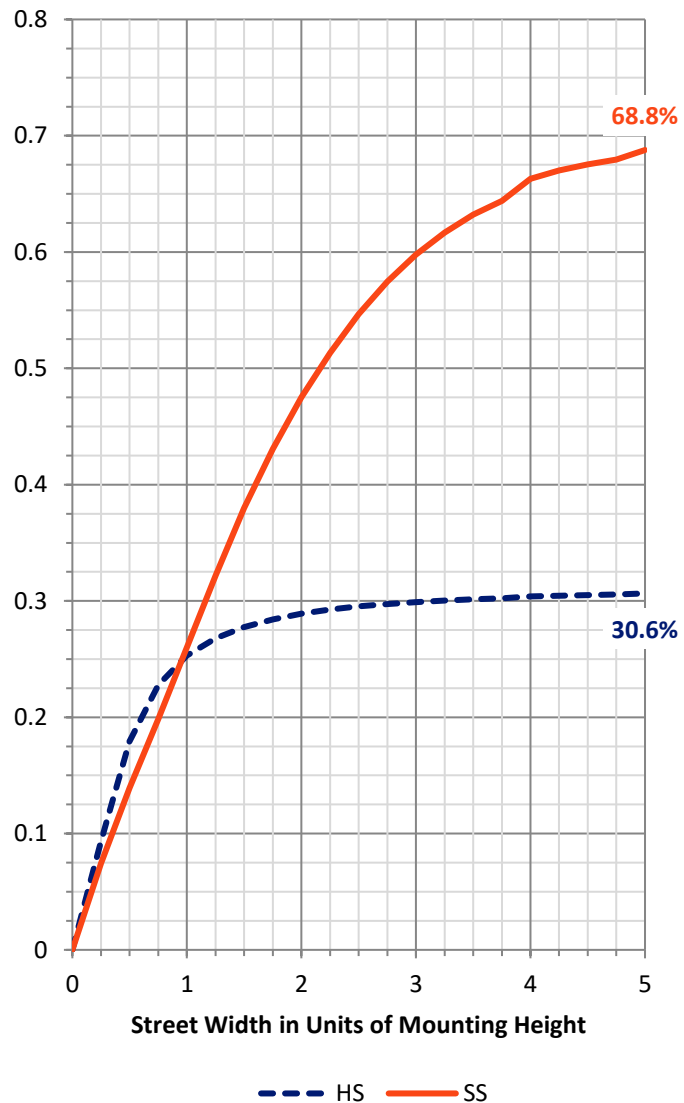
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9059.6	0.0	9059.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20180.6	0.0	20180.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	29240.2	0.0	29240.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	1.1
10°-20°	1120.6	3.8
20°-30°	2046.1	7.0
30°-40°	2901.9	9.9
40°-50°	3918.5	13.4
50°-60°	5271.4	18.0
60°-70°	6690.6	22.9
70°-80°	6072.1	20.8
80°-90°	885.1	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°	29240.2	100.0
0°-180°	29240.2	100.0

Coefficient of Utilization



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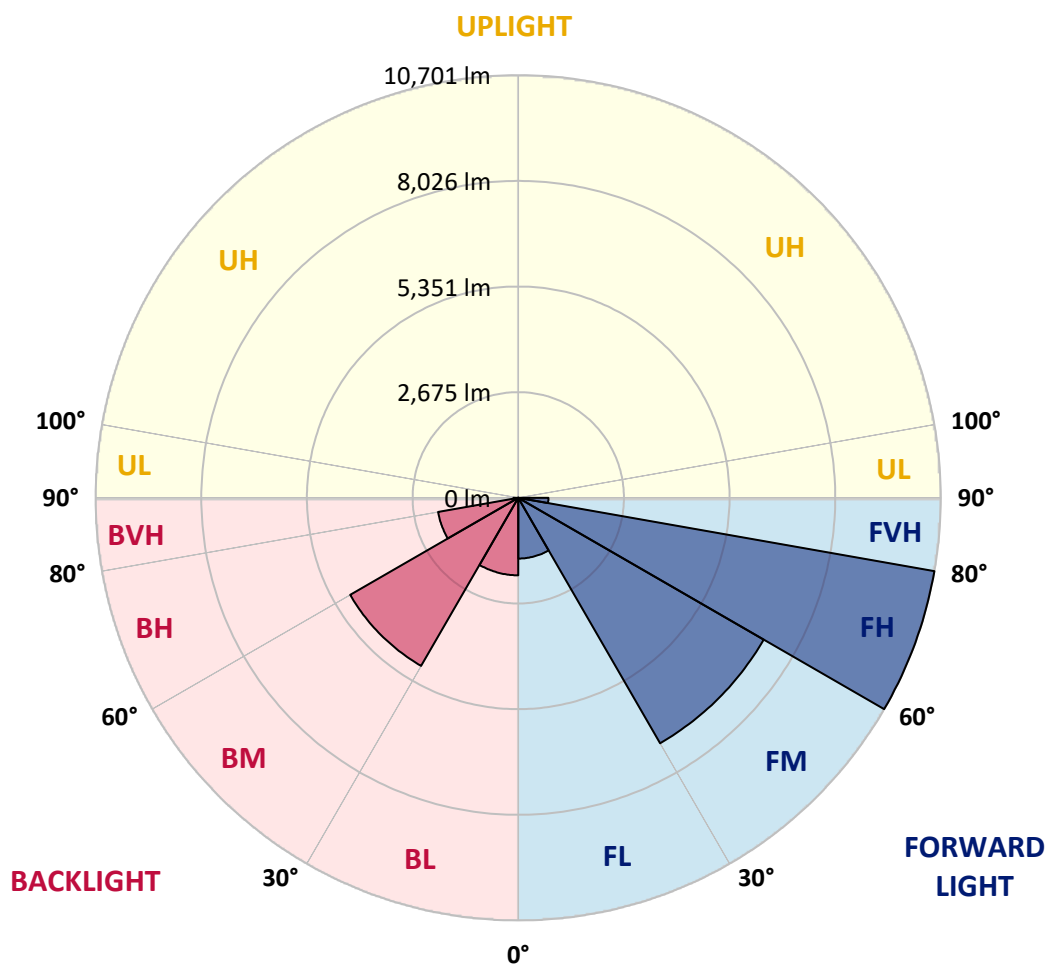
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1538.1	5.3			
FM	(30°-60°)	7177.8	24.5			
FH	(60°-80°)	10701.5	36.6			G4/12000
FVH	(80°-90°)	763.3	2.6			G5
BL	(0°-30°)	1962.4	6.7	B3/2500		
BM	(30°-60°)	4914.0	16.8	B3/5000		
BH	(60°-80°)	2061.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	121.9	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7
2.5°	3292.5	3311.1	3306.4	3300.2	3300.2	3301.7	3300.2	3311.1	3321.9	3332.8	3349.9
5°	3326.6	3345.2	3335.9	3328.2	3321.9	3320.4	3315.8	3314.2	3320.4	3334.3	3357.6
7.5°	3393.3	3411.9	3398.0	3383.9	3371.5	3365.4	3359.1	3349.9	3345.2	3353.0	3385.6
10°	3467.7	3486.3	3469.3	3444.4	3424.3	3416.5	3410.4	3401.1	3394.8	3399.5	3435.2
12.5°	3542.2	3560.7	3537.5	3503.3	3477.0	3472.4	3464.6	3461.5	3460.0	3458.5	3494.1
15°	3612.0	3627.5	3598.0	3557.7	3529.8	3522.0	3514.2	3518.9	3526.6	3535.9	3576.3
17.5°	3666.2	3681.7	3638.3	3585.6	3559.2	3556.1	3551.4	3567.0	3588.7	3612.0	3661.6
20°	3715.8	3731.4	3675.5	3604.2	3573.2	3573.2	3574.7	3607.3	3638.3	3672.5	3740.6
22.5°	3785.6	3798.0	3729.8	3632.1	3587.1	3590.3	3602.7	3635.3	3674.0	3720.5	3815.2
25°	3889.6	3898.9	3815.2	3684.9	3633.6	3643.0	3653.8	3669.3	3706.6	3760.8	3888.0
27.5°	4057.1	4064.8	3954.7	3777.8	3700.4	3715.8	3731.4	3720.5	3737.6	3784.1	3947.0
30°	4292.8	4297.4	4157.8	3923.7	3813.5	3821.3	3824.4	3779.5	3746.9	3784.1	3988.8
32.5°	4571.9	4570.4	4404.4	4100.5	3942.3	3934.6	3908.1	3819.8	3743.8	3776.3	4026.0
35°	5004.7	4987.5	4773.5	4348.6	4088.1	4040.0	3977.9	3864.8	3759.3	3768.6	4058.6
37.5°	5721.1	5668.4	5372.1	4755.0	4305.2	4182.7	4091.2	3937.6	3793.4	3765.4	4097.3
40°	6529.1	6462.4	6136.8	5311.7	4630.8	4433.9	4286.5	4041.6	3849.2	3779.5	4154.7
42.5°	7487.5	7392.9	7042.5	5967.8	5043.4	4758.0	4536.2	4173.4	3931.4	3824.4	4232.3
45°	8664.6	8539.1	8042.8	6707.5	5563.0	5183.0	4886.8	4373.5	4057.1	3911.3	4348.6
47.5°	9854.1	9885.2	9179.5	7554.2	6186.4	5707.2	5325.7	4674.3	4240.0	4050.8	4536.2
50°	11118.1	11139.8	10310.1	8492.5	6893.5	6299.5	5818.8	5010.8	4494.4	4249.3	4817.0
52.5°	12104.4	12107.6	11336.8	9474.2	7630.2	6950.9	6350.8	5395.4	4789.0	4513.0	5190.7
55°	12721.7	12713.9	12056.4	10403.1	8477.0	7634.9	6940.1	5832.8	5148.9	4823.1	5660.7
57.5°	13169.9	13146.6	12552.7	11201.8	9379.6	8442.9	7606.9	6329.1	5573.7	5192.2	6279.5
60°	13340.5	13326.5	12889.2	11891.9	10328.7	9336.2	8376.2	6884.3	6056.1	5628.1	7075.1
62.5°	13405.7	13432.0	13219.5	12560.5	11344.5	10325.6	9221.4	7548.0	6599.0	6121.2	7914.0
65°	13635.2	13683.2	13639.8	13435.1	12492.2	11484.1	10342.7	8337.5	7191.3	6650.1	8790.3
67.5°	14089.5	14137.6	14156.3	14481.9	13894.2	12927.9	11741.6	9320.6	7884.6	7199.1	9449.4
70°	14078.7	14064.7	14393.6	15314.7	15649.7	14927.0	13627.4	10530.3	8711.2	7655.0	9533.1
72.5°	12814.8	12703.1	13480.1	15305.4	17110.6	17014.5	15930.4	12090.5	9424.6	7710.9	8272.3
75°	9613.8	9316.0	10688.5	13793.3	17354.1	18199.3	17394.5	13058.2	9255.5	6813.0	5756.8
77.5°	4111.4	3812.0	5429.5	10210.8	15531.8	17012.9	16051.4	11392.6	7388.3	4505.3	2827.3
80°	1076.2	1074.7	1640.8	4629.3	10562.9	12563.5	11021.9	7357.2	4221.5	1609.8	780.1
82.5°	445.1	434.2	603.3	1800.5	5161.3	7050.3	5753.7	3281.6	1524.5	435.8	259.0
85°	165.9	164.4	293.2	621.9	1820.7	2907.8	2104.5	839.1	380.0	212.5	116.3
87.5°	46.5	45.0	63.6	215.6	443.5	673.1	359.8	138.1	107.0	83.7	34.1
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°	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7	3343.7
2.5°	3354.5	3362.3	3376.2	3387.1	3401.1	3416.5	3438.3	3452.2	3466.1	3475.5	3469.3
5°	3368.5	3385.6	3421.2	3456.9	3498.7	3537.5	3582.5	3615.1	3641.4	3649.2	3652.3
7.5°	3399.5	3427.4	3487.9	3548.3	3615.1	3678.6	3743.8	3799.6	3844.6	3861.7	3863.2
10°	3453.7	3490.9	3576.3	3661.6	3750.0	3847.6	3931.4	4012.1	4075.7	4102.0	4103.6
12.5°	3522.0	3568.5	3680.2	3798.0	3920.5	4055.5	4164.1	4263.3	4342.4	4378.1	4378.1
15°	3610.4	3670.9	3813.5	3971.8	4151.7	4339.3	4477.3	4587.5	4675.8	4719.3	4716.1
17.5°	3706.6	3787.2	3967.1	4205.9	4463.4	4710.0	4871.2	4951.9	5043.4	5085.2	5083.7
20°	3799.6	3898.9	4156.3	4503.6	4846.4	5108.5	5238.8	5260.5	5266.8	5271.4	5283.8
22.5°	3895.7	4029.2	4393.6	4879.0	5246.6	5428.0	5446.6	5353.6	5223.3	5162.8	5179.8
25°	4001.2	4178.0	4703.7	5293.1	5590.9	5612.6	5469.9	5243.5	4996.9	4883.6	4900.7
27.5°	4103.6	4350.2	5076.0	5688.5	5839.0	5648.3	5341.2	5020.1	4722.4	4603.0	4616.9
30°	4205.9	4547.1	5486.9	6034.4	5952.2	5559.8	5138.0	4779.8	4480.5	4354.8	4368.8
32.5°	4309.8	4776.6	5960.0	6284.1	5932.1	5372.1	4885.3	4509.9	4246.3	4114.5	4131.5
35°	4427.7	5058.9	6408.2	6420.6	5797.1	5096.1	4551.8	4187.3	3957.8	3852.4	3875.6
37.5°	4581.2	5417.1	6803.6	6454.6	5561.3	4691.3	4137.7	3805.8	3616.6	3568.5	3602.7
40°	4772.0	5848.2	7106.0	6400.4	5212.4	4199.7	3684.9	3419.6	3312.6	3323.5	3360.7
42.5°	5020.1	6330.6	7318.5	6260.8	4727.0	3692.6	3287.8	3169.9	3221.2	3264.5	3304.9
45°	5342.7	6831.5	7450.3	6023.5	4178.0	3263.0	3053.7	3081.6	3120.3	3125.0	3156.0
47.5°	5755.3	7338.7	7537.1	5665.3	3618.1	2960.6	2904.7	2911.0	2903.2	2870.6	2895.4
50°	6270.1	7831.8	7614.7	5190.7	3142.0	2771.4	2697.0	2675.2	2568.2	2462.8	2476.7
52.5°	6856.3	8284.7	7647.3	4601.4	2771.4	2613.2	2492.2	2355.8	2155.7	2123.1	2133.9
55°	7507.7	8703.4	7563.6	3877.2	2459.7	2410.1	2227.0	2062.6	2041.0	2013.0	2017.7
57.5°	8286.2	9154.7	7392.9	3069.2	2140.2	2172.8	1994.4	2013.0	1974.3	1930.8	1923.1
60°	9137.7	9621.6	7093.6	2332.5	1809.8	1876.6	1934.0	1932.3	1921.5	1885.8	1873.4
62.5°	9903.8	9928.6	6504.3	1786.6	1519.9	1647.0	1803.7	1802.1	1792.8	1772.6	1764.8
65°	10359.8	9882.1	5521.1	1406.6	1281.0	1457.9	1626.9	1639.3	1640.8	1639.3	1639.3
67.5°	10279.1	9337.8	4171.9	1119.7	1084.0	1265.5	1451.6	1468.6	1481.0	1484.2	1487.3
70°	9367.2	8142.0	2720.2	893.3	908.8	1096.4	1285.7	1302.7	1313.5	1325.9	1332.2
72.5°	7301.5	5986.3	1557.1	722.7	755.2	950.7	1121.2	1141.4	1147.6	1170.9	1180.2
75°	4449.4	3520.5	840.6	569.2	620.3	812.6	958.5	981.7	992.5	1020.5	1023.6
77.5°	2115.4	1524.5	479.2	443.5	499.4	663.8	809.5	835.9	806.5	821.9	809.5
80°	714.9	566.1	302.4	338.0	381.5	518.0	648.2	674.7	612.5	609.5	603.3
82.5°	249.7	229.5	192.3	224.9	246.6	370.6	490.1	524.2	455.9	454.4	432.7
85°	97.7	93.1	107.0	122.5	147.3	228.0	322.6	339.7	280.7	226.4	223.3
87.5°	20.2	21.7	26.3	27.9	45.0	79.1	116.3	142.7	113.3	96.1	88.4
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)