

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: P970482

Luminaire Tested: **NAV-SB6B-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970482
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-SB6B-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30169.8 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

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



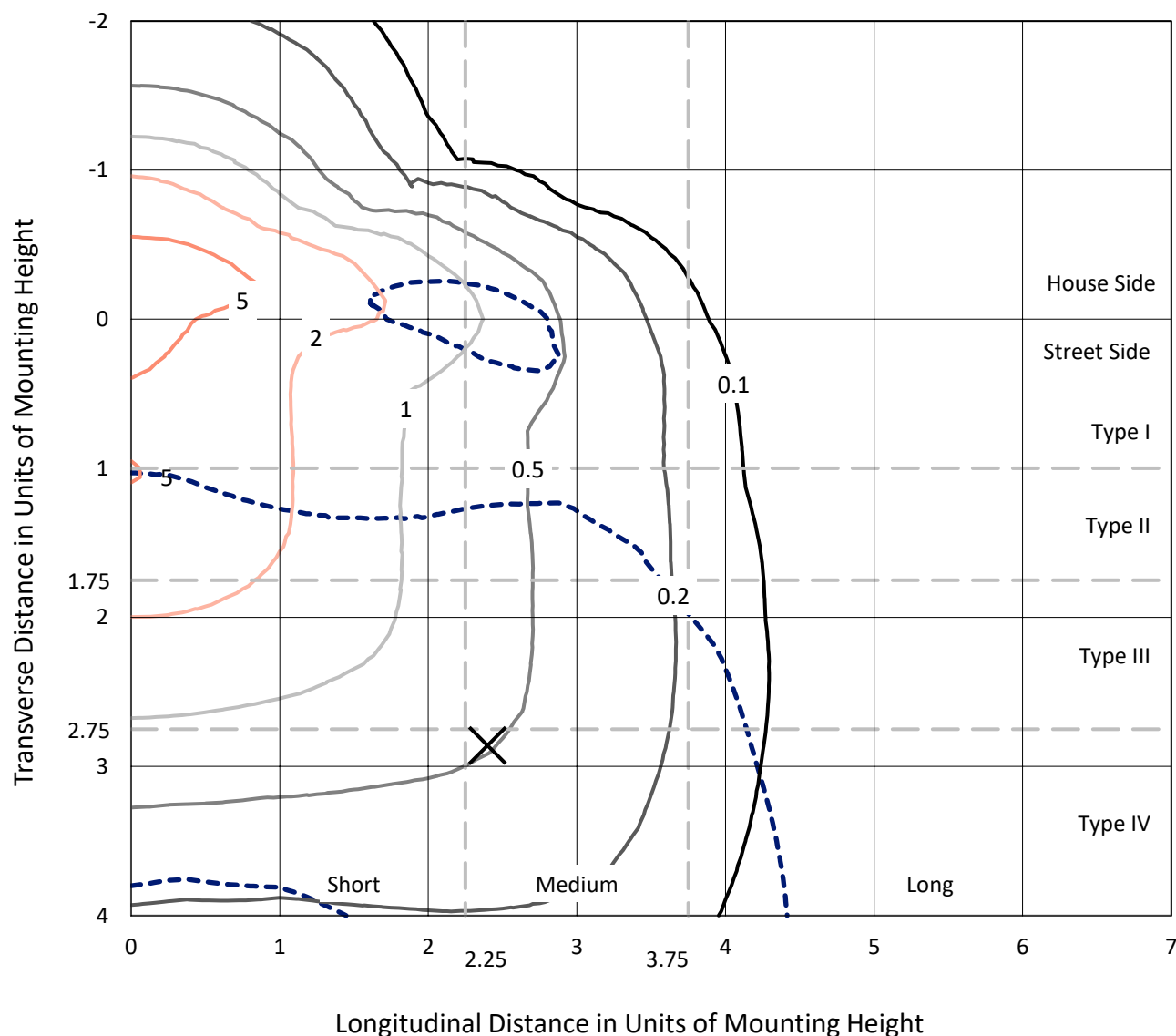
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

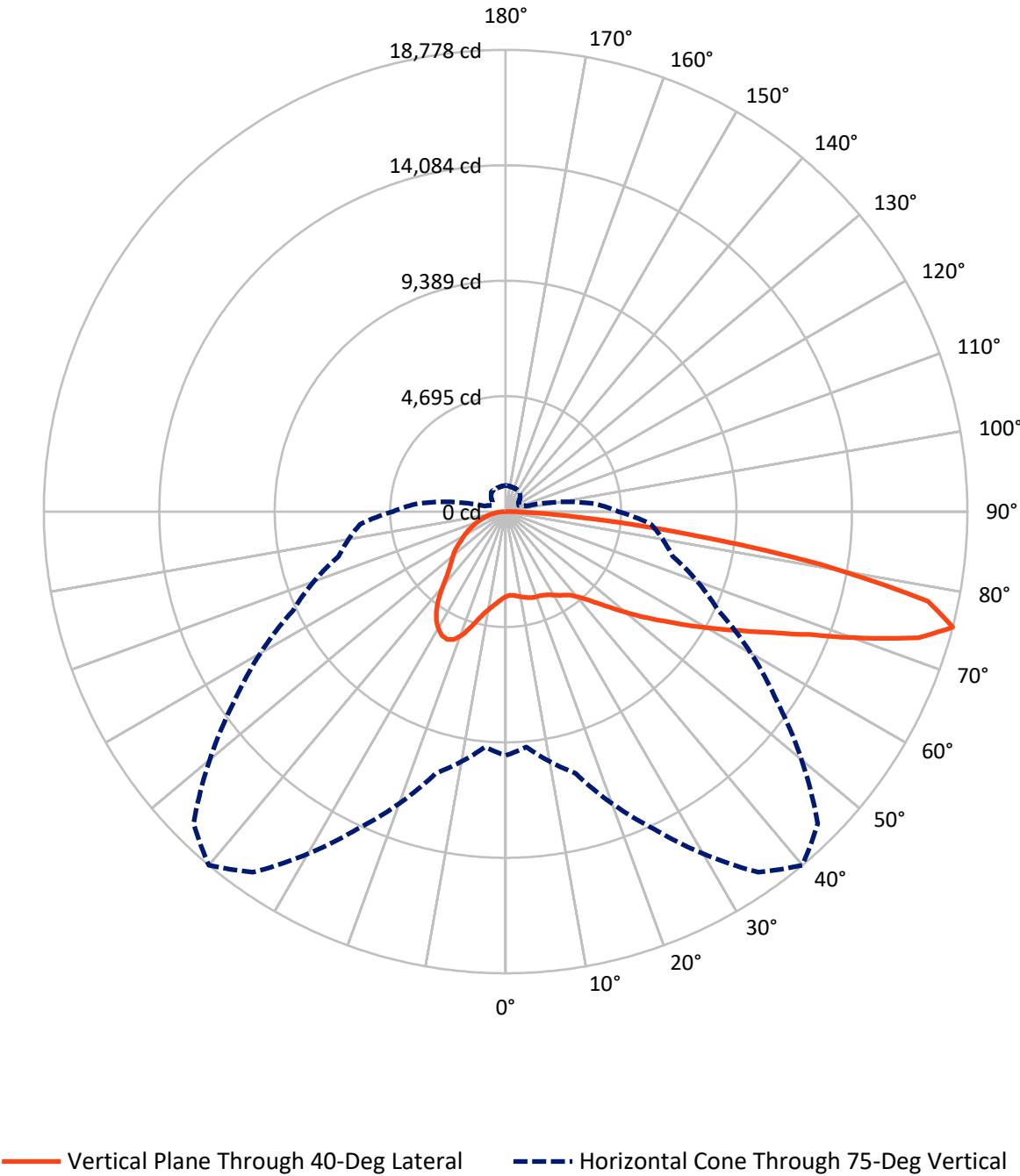
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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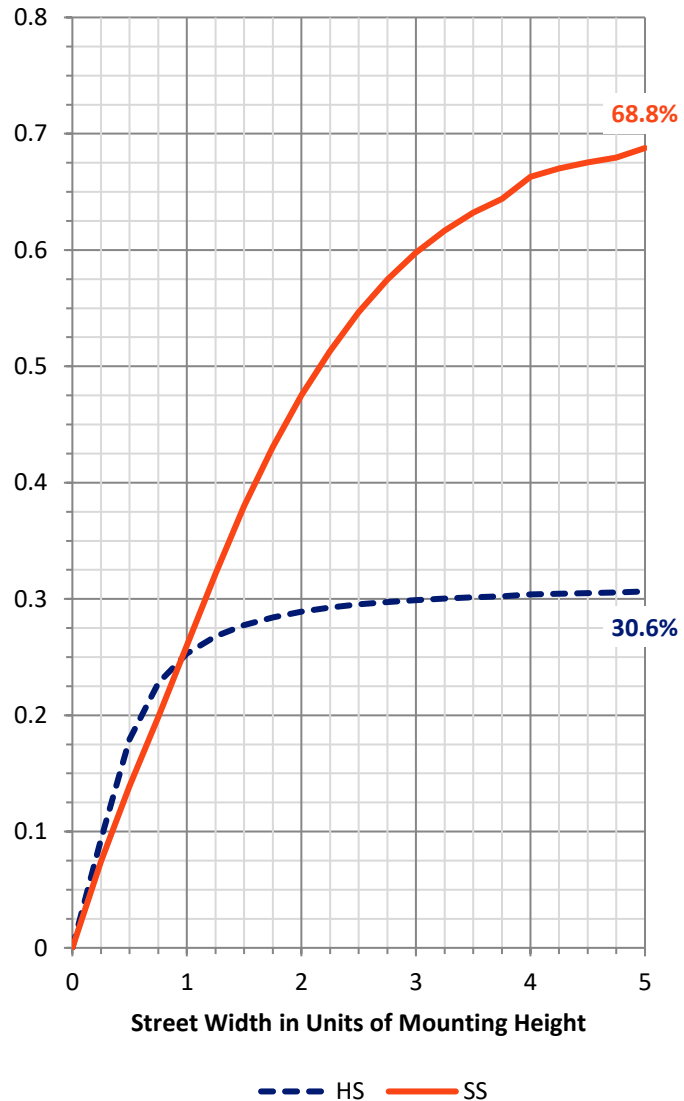
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9347.6	0.0	9347.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	20822.2	0.0	20822.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	30169.8	0.0	30169.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.4	1.1
10°-20°	1156.2	3.8
20°-30°	2111.2	7.0
30°-40°	2994.2	9.9
40°-50°	4043.1	13.4
50°-60°	5439.0	18.0
60°-70°	6903.4	22.9
70°-80°	6265.2	20.8
80°-90°	913.3	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°	30169.8	100.0
0°-180°	30169.8	100.0

Coefficient of Utilization



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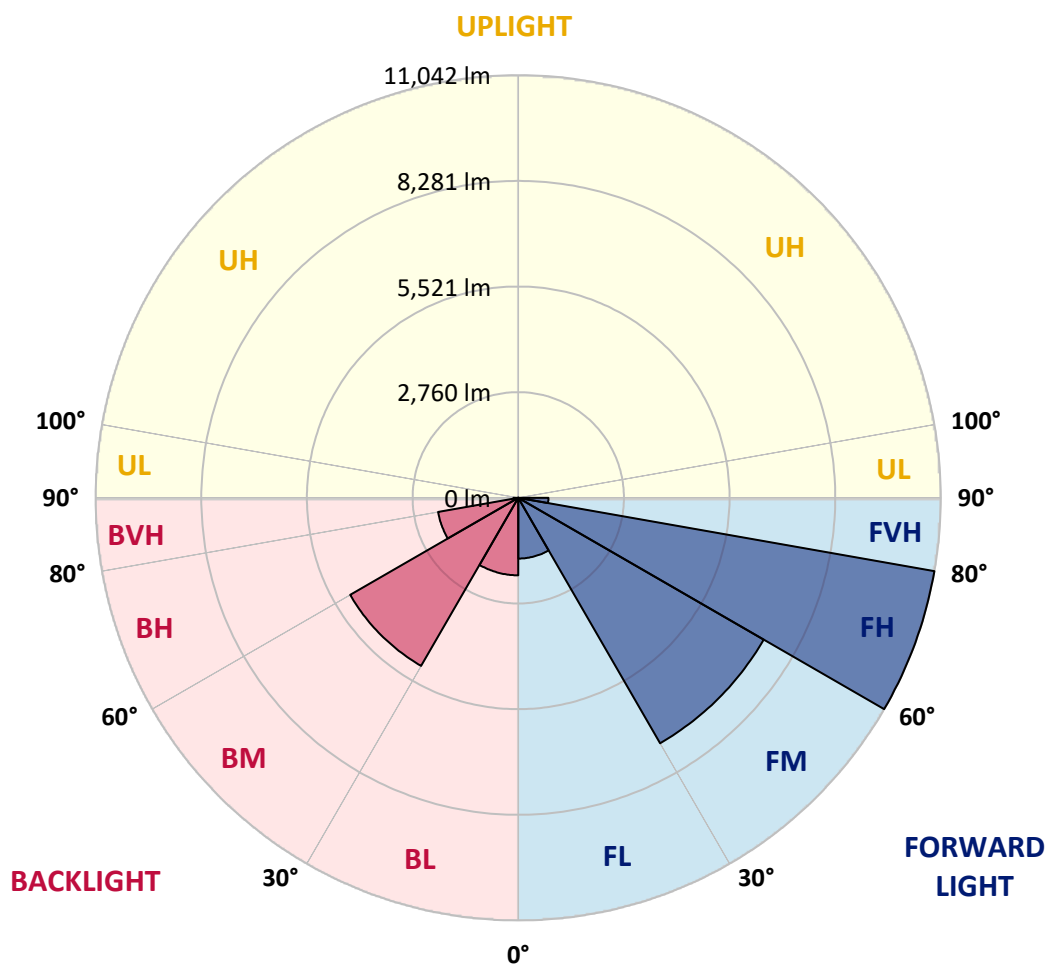
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.0	5.3			
FM	(30°-60°)	7406.0	24.5			
FH	(60°-80°)	11041.7	36.6			G4/12000
FVH	(80°-90°)	787.5	2.6			G5
BL	(0°-30°)	2024.8	6.7	B3/2500		
BM	(30°-60°)	5070.2	16.8	B4/8500		
BH	(60°-80°)	2126.9	7.0	B3/2500		G3/2500
BVH	(80°-90°)	125.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9
2.5°	3397.2	3416.3	3411.5	3405.2	3405.2	3406.8	3405.2	3416.3	3427.6	3438.8	3456.4
5°	3432.3	3451.6	3442.0	3434.0	3427.6	3426.0	3421.1	3419.6	3426.0	3440.4	3464.4
7.5°	3501.2	3520.4	3506.0	3491.6	3478.7	3472.4	3465.9	3456.4	3451.6	3459.6	3493.2
10°	3578.0	3597.1	3579.6	3554.0	3533.2	3525.2	3518.7	3509.2	3502.7	3507.6	3544.3
12.5°	3654.7	3674.0	3650.0	3614.8	3587.6	3582.8	3574.8	3571.6	3570.0	3568.3	3605.1
15°	3726.8	3742.8	3712.3	3670.8	3642.0	3633.9	3625.9	3630.8	3638.7	3648.4	3690.0
17.5°	3782.8	3798.8	3754.0	3699.6	3672.4	3669.2	3664.4	3680.4	3702.8	3726.8	3778.0
20°	3834.0	3850.0	3792.4	3718.8	3686.8	3686.8	3688.4	3722.0	3754.0	3789.2	3859.6
22.5°	3906.0	3918.8	3848.4	3747.6	3701.2	3704.3	3717.2	3750.8	3790.8	3838.8	3936.4
25°	4013.2	4022.8	3936.4	3802.0	3749.2	3758.8	3770.0	3786.0	3824.4	3880.4	4011.6
27.5°	4186.0	4194.0	4080.4	3898.0	3818.0	3834.0	3850.0	3838.8	3856.4	3904.4	4072.4
30°	4429.2	4434.0	4290.0	4048.4	3934.8	3942.8	3946.0	3899.6	3866.0	3904.4	4115.7
32.5°	4717.3	4715.7	4544.4	4230.9	4067.6	4059.6	4032.5	3941.2	3862.8	3896.4	4154.0
35°	5163.7	5146.1	4925.3	4486.8	4218.1	4168.5	4104.4	3987.7	3878.8	3888.4	4187.6
37.5°	5903.0	5848.6	5543.0	4906.2	4442.0	4315.7	4221.3	4062.8	3914.0	3885.2	4227.6
40°	6736.7	6667.9	6331.8	5480.6	4778.1	4574.9	4422.9	4170.0	3971.6	3899.6	4286.9
42.5°	7725.6	7628.0	7266.3	6157.5	5203.7	4909.3	4680.5	4306.0	4056.4	3946.0	4366.9
45°	8940.2	8810.5	8298.5	6920.7	5739.8	5347.7	5042.2	4512.5	4186.0	4035.6	4486.8
47.5°	10167.5	10199.5	9471.4	7794.4	6383.1	5888.6	5495.0	4822.9	4374.9	4179.6	4680.5
50°	11471.6	11494.0	10638.0	8762.5	7112.8	6499.8	6003.8	5170.1	4637.3	4384.4	4970.1
52.5°	12489.3	12492.5	11697.2	9775.4	7872.8	7171.9	6552.7	5567.0	4941.3	4656.5	5355.7
55°	13126.2	13118.2	12439.7	10733.9	8746.5	7877.6	7160.8	6018.2	5312.6	4976.5	5840.7
57.5°	13588.6	13564.6	12951.8	11558.0	9677.8	8711.3	7848.8	6530.3	5751.0	5357.4	6479.1
60°	13764.6	13750.3	13299.0	12270.1	10657.1	9633.1	8642.5	7103.1	6248.7	5807.0	7299.9
62.5°	13831.9	13859.0	13639.9	12959.8	11705.2	10654.0	9514.6	7788.1	6808.7	6315.8	8165.7
65°	14068.6	14118.2	14073.5	13862.3	12889.4	11849.2	10671.5	8602.5	7420.0	6861.6	9069.7
67.5°	14537.6	14587.1	14606.4	14942.3	14336.0	13339.0	12114.9	9617.0	8135.2	7428.0	9749.8
70°	14526.3	14512.0	14851.1	15801.7	16147.3	15401.6	14060.6	10865.1	8988.1	7898.4	9836.2
72.5°	13222.2	13107.0	13908.6	15792.1	17654.7	17555.5	16436.9	12474.9	9724.2	7956.0	8535.3
75°	9919.4	9612.2	11028.4	14231.9	17905.9	18778.0	17947.4	13473.4	9549.8	7029.6	5939.9
77.5°	4242.1	3933.2	5602.1	10535.5	16025.7	17553.8	16561.7	11754.8	7623.2	4648.5	2917.1
80°	1110.5	1108.9	1693.0	4776.5	10898.7	12963.0	11372.4	7591.2	4355.6	1661.0	804.9
82.5°	459.2	448.0	622.5	1857.8	5325.4	7274.3	5936.6	3386.0	1573.0	449.7	267.2
85°	171.2	169.6	302.5	641.6	1878.6	3000.3	2171.5	865.7	392.1	219.2	120.0
87.5°	48.0	46.4	65.6	222.4	457.7	694.4	371.3	142.4	110.4	86.4	35.2
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°	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9	3449.9
2.5°	3461.1	3469.2	3483.6	3494.7	3509.2	3525.2	3547.5	3562.0	3576.3	3586.0	3579.6
5°	3475.6	3493.2	3530.0	3566.8	3609.9	3650.0	3696.4	3730.0	3757.2	3765.2	3768.4
7.5°	3507.6	3536.4	3598.8	3661.2	3730.0	3795.6	3862.8	3920.4	3966.9	3984.4	3986.0
10°	3563.6	3602.0	3690.0	3778.0	3869.2	3970.0	4056.4	4139.7	4205.3	4232.4	4234.1
12.5°	3633.9	3682.0	3797.2	3918.8	4045.3	4184.5	4296.5	4398.9	4480.5	4517.3	4517.3
15°	3725.2	3787.6	3934.8	4098.1	4283.7	4477.3	4619.7	4733.3	4824.5	4869.3	4866.1
17.5°	3824.4	3907.6	4093.2	4339.6	4605.3	4859.7	5026.1	5109.3	5203.7	5247.0	5245.3
20°	3920.4	4022.8	4288.5	4646.8	5000.6	5271.0	5405.3	5427.8	5434.1	5439.0	5451.8
22.5°	4019.6	4157.2	4533.3	5034.1	5413.3	5600.6	5619.8	5523.8	5389.3	5326.9	5344.6
25°	4128.4	4310.8	4853.3	5461.4	5768.6	5791.0	5643.8	5410.2	5155.8	5038.9	5056.5
27.5°	4234.1	4488.5	5237.3	5869.5	6024.6	5827.8	5511.0	5179.7	4872.5	4749.3	4763.7
30°	4339.6	4691.7	5661.4	6226.3	6141.5	5736.6	5301.4	4931.7	4622.9	4493.3	4507.6
32.5°	4446.9	4928.5	6149.5	6483.8	6120.7	5543.0	5040.5	4653.3	4381.3	4245.2	4262.9
35°	4568.5	5219.7	6611.9	6624.7	5981.4	5258.1	4696.4	4320.5	4083.6	3974.8	3998.8
37.5°	4726.9	5589.4	7019.9	6659.9	5738.2	4840.5	4269.2	3926.8	3731.6	3682.0	3717.2
40°	4923.7	6034.3	7331.9	6603.9	5378.2	4333.3	3802.0	3528.4	3418.0	3429.1	3467.6
42.5°	5179.7	6531.9	7551.2	6459.9	4877.4	3810.0	3392.3	3270.8	3323.6	3368.4	3410.0
45°	5512.6	7048.7	7687.2	6215.1	4310.8	3366.7	3150.7	3179.5	3219.5	3224.3	3256.3
47.5°	5938.2	7572.0	7776.8	5845.4	3733.2	3054.7	2997.1	3003.6	2995.6	2961.9	2987.5
50°	6469.5	8080.9	7856.8	5355.7	3242.0	2859.5	2782.7	2760.3	2649.8	2541.1	2555.4
52.5°	7074.3	8548.1	7890.4	4747.7	2859.5	2696.3	2571.5	2430.7	2224.2	2190.6	2201.8
55°	7746.4	8980.1	7804.0	4000.4	2537.9	2486.6	2297.8	2128.2	2105.9	2077.1	2081.8
57.5°	8549.7	9445.8	7628.0	3166.7	2208.3	2241.9	2057.8	2077.1	2037.0	1992.2	1984.2
60°	9428.2	9927.4	7319.2	2406.7	1867.3	1936.2	1995.4	1993.8	1982.7	1945.8	1933.0
62.5°	10218.6	10244.3	6711.1	1843.4	1568.1	1699.3	1861.0	1859.4	1849.8	1829.0	1821.0
65°	10689.1	10196.3	5696.6	1451.4	1321.7	1504.2	1678.5	1691.4	1693.0	1691.4	1691.4
67.5°	10605.9	9634.6	4304.5	1155.3	1118.5	1305.7	1497.7	1515.4	1528.2	1531.4	1534.5
70°	9665.0	8400.9	2806.7	921.7	937.7	1131.3	1326.6	1344.2	1355.4	1368.2	1374.5
72.5°	7533.5	6176.6	1606.6	745.7	779.3	980.9	1156.9	1177.7	1184.1	1208.2	1217.7
75°	4590.9	3632.4	867.3	587.2	640.1	838.4	988.9	1012.9	1024.1	1052.9	1056.2
77.5°	2182.6	1573.0	494.5	457.7	515.3	684.9	835.3	862.5	832.1	848.1	835.3
80°	737.7	584.0	312.0	348.8	393.6	534.4	668.9	696.1	632.1	628.8	622.5
82.5°	257.6	236.8	198.4	232.1	254.4	382.4	505.6	540.9	470.5	468.8	446.5
85°	100.9	96.0	110.4	126.4	152.0	235.2	332.8	350.4	289.7	233.6	230.4
87.5°	20.8	22.4	27.2	28.8	46.4	81.6	120.0	147.2	116.8	99.2	91.2
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)