

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: P965274

Luminaire Tested: **NAV-SB3D-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965274
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-SB3D-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28773.8 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 218.1
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



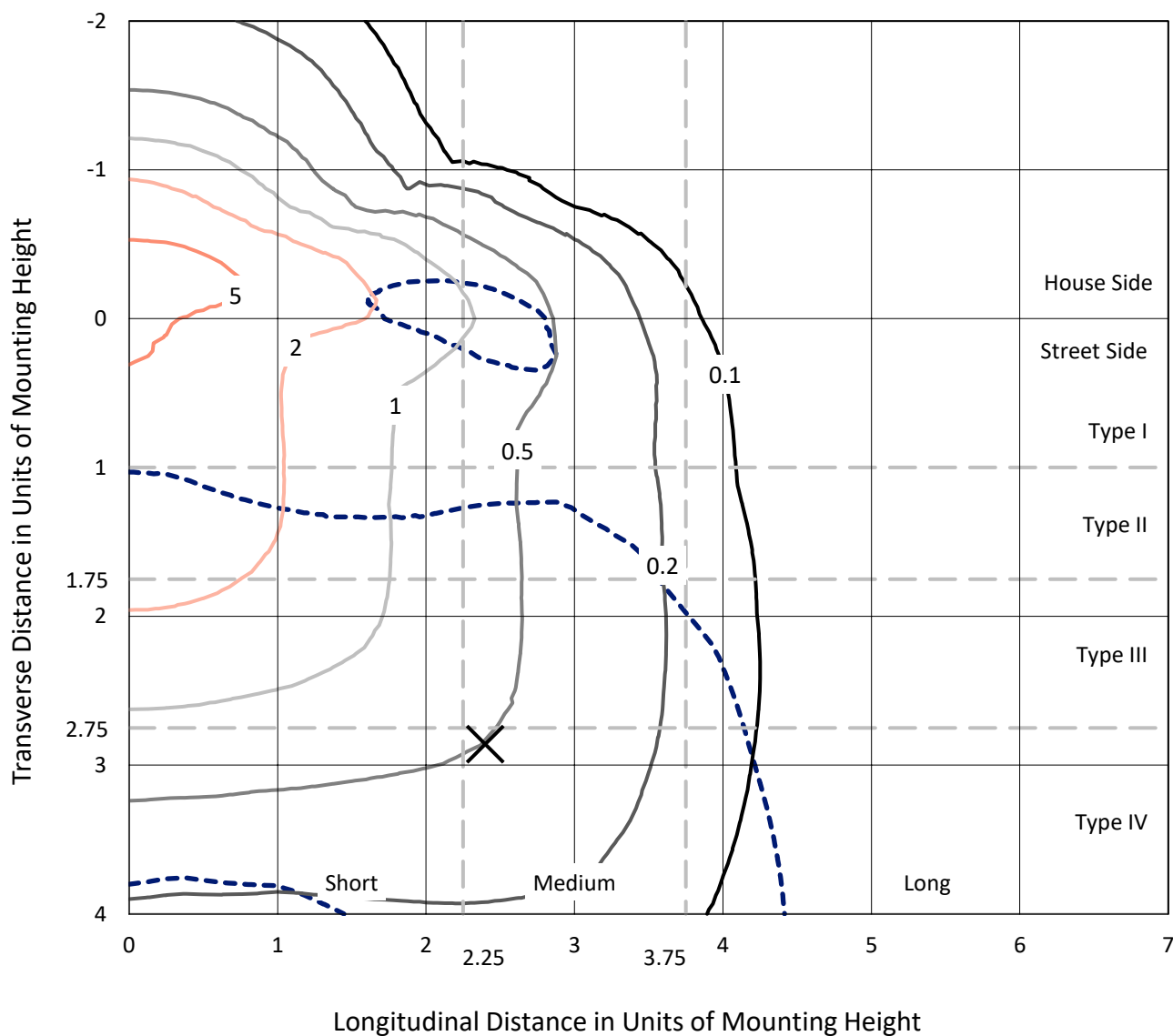
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

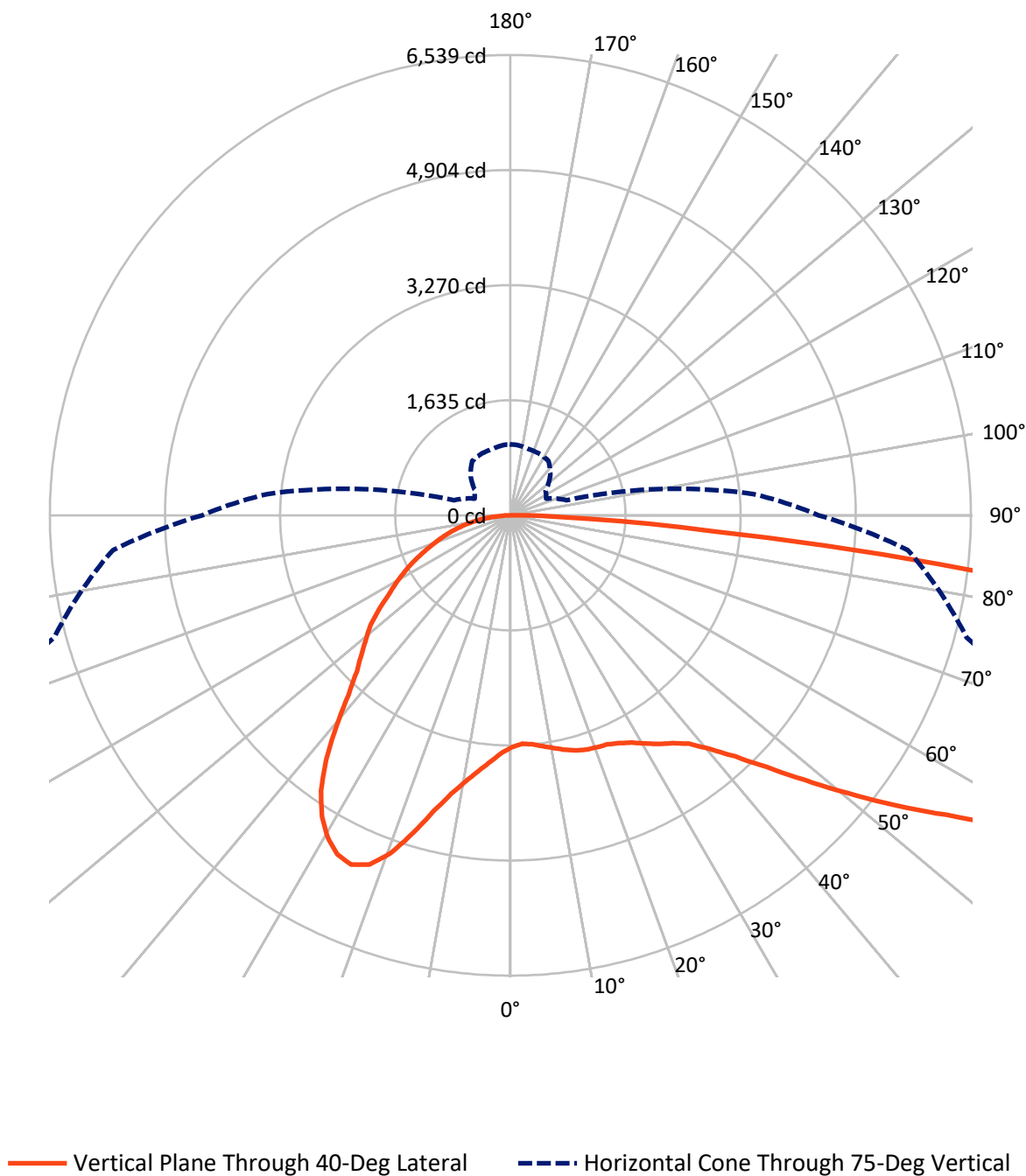


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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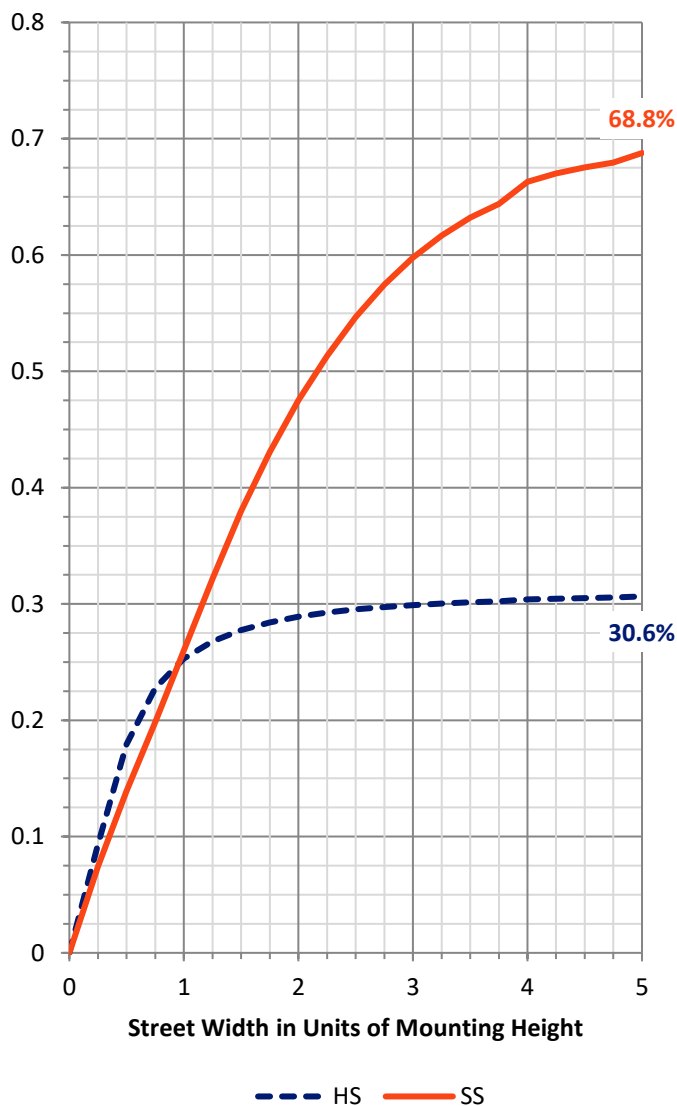
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8915.1	0.0	8915.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19858.7	0.0	19858.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	28773.8	0.0	28773.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.4	1.1
10°-20°	1102.7	3.8
20°-30°	2013.5	7.0
30°-40°	2855.6	9.9
40°-50°	3856.0	13.4
50°-60°	5187.3	18.0
60°-70°	6583.9	22.9
70°-80°	5975.3	20.8
80°-90°	871.0	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°	28773.8	100.0
0°-180°	28773.8	100.0

Coefficient of Utilization



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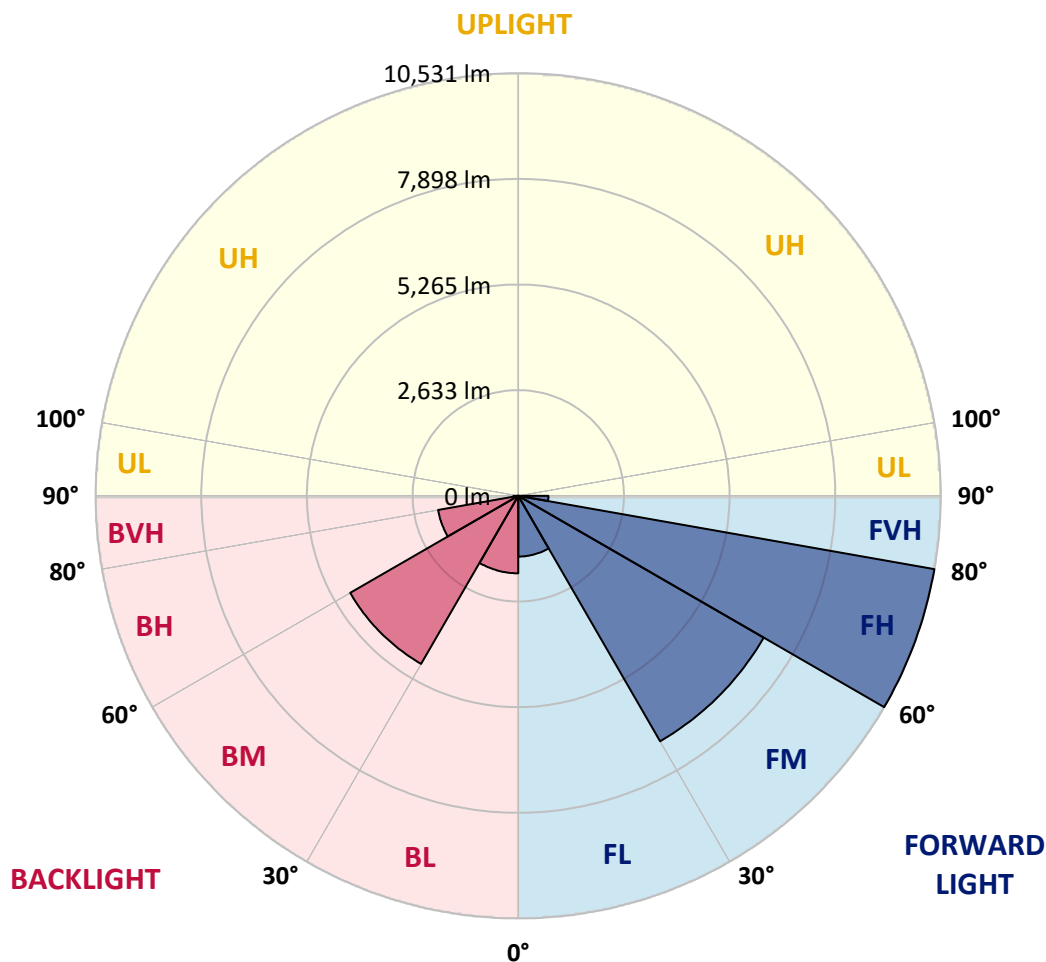
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1513.5	5.3			
FM	(30°-60°)	7063.3	24.5			
FH	(60°-80°)	10530.8	36.6			G4/12000
FVH	(80°-90°)	751.1	2.6			G5
BL	(0°-30°)	1931.1	6.7	B3/2500		
BM	(30°-60°)	4835.6	16.8	B3/5000		
BH	(60°-80°)	2028.4	7.0	B3/2500		G3/2500
BVH	(80°-90°)	119.9	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°	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4
2.5°	3239.9	3258.3	3253.7	3247.6	3247.6	3249.1	3247.6	3258.3	3268.9	3279.6	3296.4
5°	3273.5	3291.9	3282.7	3275.1	3268.9	3267.4	3262.9	3261.3	3267.4	3281.1	3304.1
7.5°	3339.1	3357.5	3343.8	3330.0	3317.8	3311.7	3305.6	3296.4	3291.9	3299.5	3331.6
10°	3412.4	3430.7	3414.0	3389.5	3369.7	3362.0	3356.0	3346.8	3340.7	3345.3	3380.3
12.5°	3485.6	3504.0	3481.1	3447.5	3421.6	3416.9	3409.4	3406.3	3404.7	3403.2	3438.4
15°	3554.4	3569.6	3540.7	3500.9	3473.4	3465.8	3458.1	3462.8	3470.4	3479.6	3519.2
17.5°	3607.8	3623.1	3580.3	3528.4	3502.4	3499.5	3494.8	3510.1	3531.4	3554.4	3603.2
20°	3656.6	3671.9	3616.9	3546.7	3516.2	3516.2	3517.7	3549.8	3580.3	3613.8	3681.0
22.5°	3725.3	3737.5	3670.3	3574.2	3529.9	3533.0	3545.2	3577.2	3615.4	3661.2	3754.3
25°	3827.6	3836.7	3754.3	3626.0	3575.7	3584.8	3595.6	3610.8	3647.5	3700.9	3826.0
27.5°	3992.4	4000.0	3891.6	3717.7	3641.3	3656.6	3671.9	3661.2	3678.0	3723.7	3884.0
30°	4224.3	4228.8	4091.5	3861.1	3752.7	3760.4	3763.4	3719.2	3687.1	3723.7	3925.2
32.5°	4499.0	4497.5	4334.2	4035.1	3879.4	3871.7	3845.8	3758.9	3684.1	3716.1	3961.8
35°	4924.8	4908.0	4697.4	4279.3	4022.8	3975.6	3914.5	3803.1	3699.3	3708.4	3993.9
37.5°	5629.9	5577.9	5286.5	4679.1	4236.5	4116.0	4025.9	3874.8	3732.9	3705.5	4032.0
40°	6425.0	6359.4	6038.9	5227.0	4557.0	4363.2	4218.2	3977.1	3787.9	3719.2	4088.5
42.5°	7368.1	7275.0	6930.1	5872.5	4962.9	4682.1	4463.9	4106.8	3868.8	3763.4	4164.8
45°	8526.5	8402.8	7914.4	6600.5	5474.2	5100.3	4808.8	4303.7	3992.4	3848.9	4279.3
47.5°	9697.0	9727.6	9033.1	7433.7	6087.7	5616.2	5240.7	4599.7	4172.5	3986.2	4463.9
50°	10940.7	10962.2	10145.7	8357.0	6783.7	6199.1	5726.1	4930.9	4422.7	4181.6	4740.1
52.5°	11911.4	11914.5	11156.0	9323.1	7508.5	6840.1	6249.4	5309.4	4712.6	4441.0	5108.0
55°	12518.8	12511.2	11864.1	10237.2	8341.8	7513.1	6829.4	5739.8	5066.8	4746.3	5570.4
57.5°	12959.8	12936.9	12352.5	11023.2	9230.0	8308.2	7485.7	6228.1	5484.9	5109.4	6179.3
60°	13127.7	13114.0	12683.7	11702.3	10164.0	9187.3	8242.6	6774.4	5959.6	5538.3	6962.2
62.5°	13191.9	13217.8	13008.7	12360.1	11163.6	10160.9	9074.3	7427.7	6493.7	6023.6	7787.8
65°	13417.7	13465.0	13422.3	13220.8	12292.9	11300.9	10177.7	8204.4	7076.6	6544.0	8650.1
67.5°	13864.9	13912.1	13930.5	14251.0	13672.6	12721.8	11554.3	9172.0	7758.8	7084.3	9298.7
70°	13854.1	13840.4	14164.0	15070.5	15400.1	14689.0	13410.1	10362.3	8572.3	7532.9	9381.1
72.5°	12610.4	12500.5	13265.0	15061.4	16837.7	16743.1	15676.4	11897.7	9274.3	7587.9	8140.3
75°	9460.4	9167.4	10518.0	13573.4	17077.3	17909.1	17117.0	12849.9	9107.9	6704.2	5665.0
77.5°	4045.8	3751.2	5342.9	10048.0	15284.1	16741.5	15795.4	11210.9	7270.4	4433.4	2782.2
80°	1059.1	1057.6	1614.7	4555.5	10394.4	12363.1	10846.1	7239.9	4154.1	1584.1	767.6
82.5°	438.0	427.3	593.7	1771.8	5079.0	6937.7	5661.9	3229.3	1500.2	428.9	254.8
85°	163.3	161.7	288.4	611.9	1791.7	2861.5	2070.9	825.6	373.9	209.1	114.5
87.5°	45.8	44.3	62.5	212.2	436.4	662.4	354.0	135.8	105.3	82.4	33.6
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°	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4	3290.4
2.5°	3301.0	3308.6	3322.3	3333.1	3346.8	3362.0	3383.4	3397.2	3410.9	3420.0	3414.0
5°	3314.7	3331.6	3366.6	3401.8	3443.0	3481.1	3525.4	3557.4	3583.3	3591.0	3594.1
7.5°	3345.3	3372.8	3432.2	3491.8	3557.4	3620.0	3684.1	3739.0	3783.3	3800.1	3801.6
10°	3398.7	3435.3	3519.2	3603.2	3690.2	3786.3	3868.8	3948.1	4010.6	4036.6	4038.1
12.5°	3465.8	3511.6	3621.5	3737.5	3858.0	3990.8	4097.6	4195.3	4273.1	4308.3	4308.3
15°	3552.9	3612.3	3752.7	3908.4	4085.4	4270.0	4406.0	4514.3	4601.2	4644.0	4640.9
17.5°	3647.5	3726.8	3903.8	4138.8	4392.2	4634.8	4793.5	4873.0	4962.9	5004.2	5002.6
20°	3739.0	3836.7	4090.1	4431.9	4769.1	5027.0	5155.2	5176.7	5182.7	5187.3	5199.5
22.5°	3833.6	3964.9	4323.6	4801.2	5162.9	5341.5	5359.7	5268.2	5140.0	5080.5	5097.2
25°	3937.4	4111.4	4628.7	5208.6	5501.7	5523.0	5382.7	5159.8	4917.1	4805.7	4822.5
27.5°	4038.1	4280.8	4995.0	5597.8	5745.8	5558.2	5256.0	4940.1	4647.0	4529.6	4543.3
30°	4138.8	4474.6	5399.4	5938.1	5857.3	5471.1	5056.0	4703.5	4408.9	4285.3	4299.1
32.5°	4241.1	4700.4	5864.8	6183.8	5837.4	5286.5	4807.2	4437.9	4178.5	4048.9	4065.6
35°	4357.1	4978.2	6305.9	6318.2	5704.6	5014.8	4479.1	4120.5	3894.7	3790.9	3813.8
37.5°	4508.2	5330.7	6695.1	6351.7	5472.7	4616.5	4071.7	3745.1	3558.9	3511.6	3545.2
40°	4695.8	5755.0	6992.7	6298.3	5129.3	4132.7	3626.0	3365.1	3259.8	3270.5	3307.1
42.5°	4940.1	6229.6	7201.8	6161.0	4651.7	3633.7	3235.4	3119.4	3169.7	3212.5	3252.1
45°	5257.5	6722.6	7331.5	5927.5	4111.4	3210.9	3004.9	3032.4	3070.6	3075.1	3105.6
47.5°	5663.4	7221.6	7417.0	5575.0	3560.4	2913.4	2858.4	2864.6	2856.9	2824.9	2849.3
50°	6170.1	7707.0	7493.3	5108.0	3091.9	2727.2	2653.9	2632.6	2527.2	2423.5	2437.2
52.5°	6747.0	8152.5	7525.3	4528.0	2727.2	2571.5	2452.5	2318.1	2121.3	2089.3	2099.9
55°	7388.0	8564.6	7442.9	3815.4	2420.4	2371.6	2191.6	2029.7	2008.4	1980.9	1985.5
57.5°	8154.1	9008.7	7275.0	3020.2	2106.1	2138.1	1962.6	1980.9	1942.8	1900.0	1892.4
60°	8991.9	9468.0	6980.5	2295.3	1780.9	1846.6	1903.1	1901.6	1890.8	1855.8	1843.6
62.5°	9745.8	9770.2	6400.6	1758.1	1495.6	1620.7	1774.9	1773.4	1764.2	1744.3	1736.8
65°	10194.5	9724.5	5433.0	1384.2	1260.5	1434.6	1600.9	1613.1	1614.7	1613.1	1613.1
67.5°	10115.1	9188.8	4105.2	1101.9	1066.7	1245.3	1428.4	1445.2	1457.4	1460.5	1463.6
70°	9217.8	8012.1	2676.8	879.0	894.3	1079.0	1265.2	1282.0	1292.6	1304.8	1311.0
72.5°	7184.9	5890.9	1532.3	711.1	743.2	935.5	1103.4	1123.2	1129.3	1152.2	1161.4
75°	4378.5	3464.3	827.2	560.1	610.5	799.7	943.1	966.1	976.7	1004.2	1007.3
77.5°	2081.7	1500.2	471.6	436.4	491.4	653.1	796.6	822.6	793.6	808.8	796.6
80°	703.6	557.0	297.6	332.7	375.5	509.7	638.0	663.9	602.8	599.7	593.7
82.5°	245.7	225.9	189.2	221.3	242.6	364.7	482.3	515.8	448.6	447.1	425.8
85°	96.1	91.5	105.3	120.5	144.9	224.4	317.4	334.3	276.2	222.8	219.8
87.5°	19.9	21.3	25.9	27.5	44.3	77.8	114.5	140.4	111.4	94.6	87.0
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)