

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: P968901

Luminaire Tested: **NAV-SB5C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968901
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-SB5C-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33424.2 lumens
Efficiency: N/A
Efficacy: 134.0 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): 249.5
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



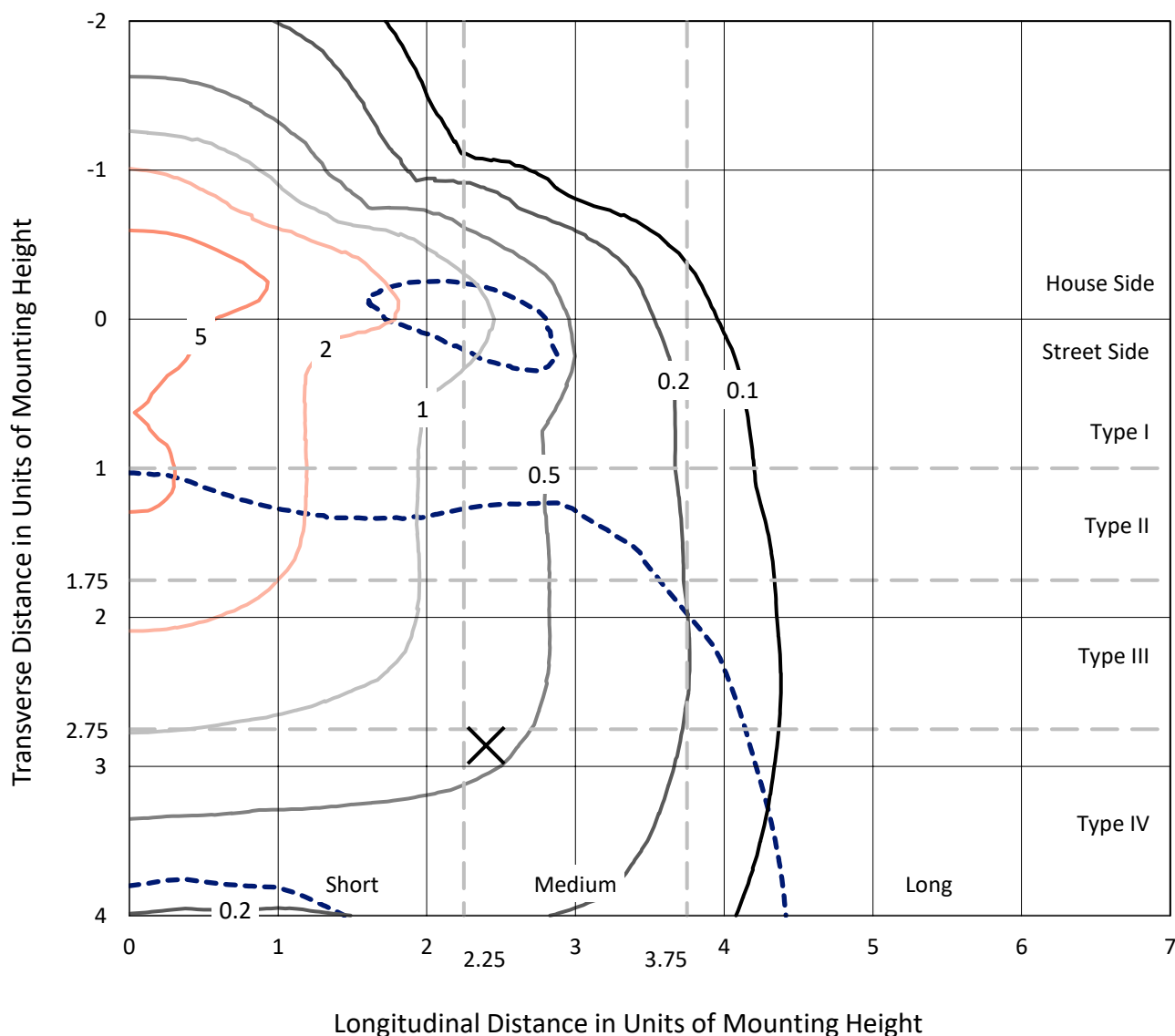
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

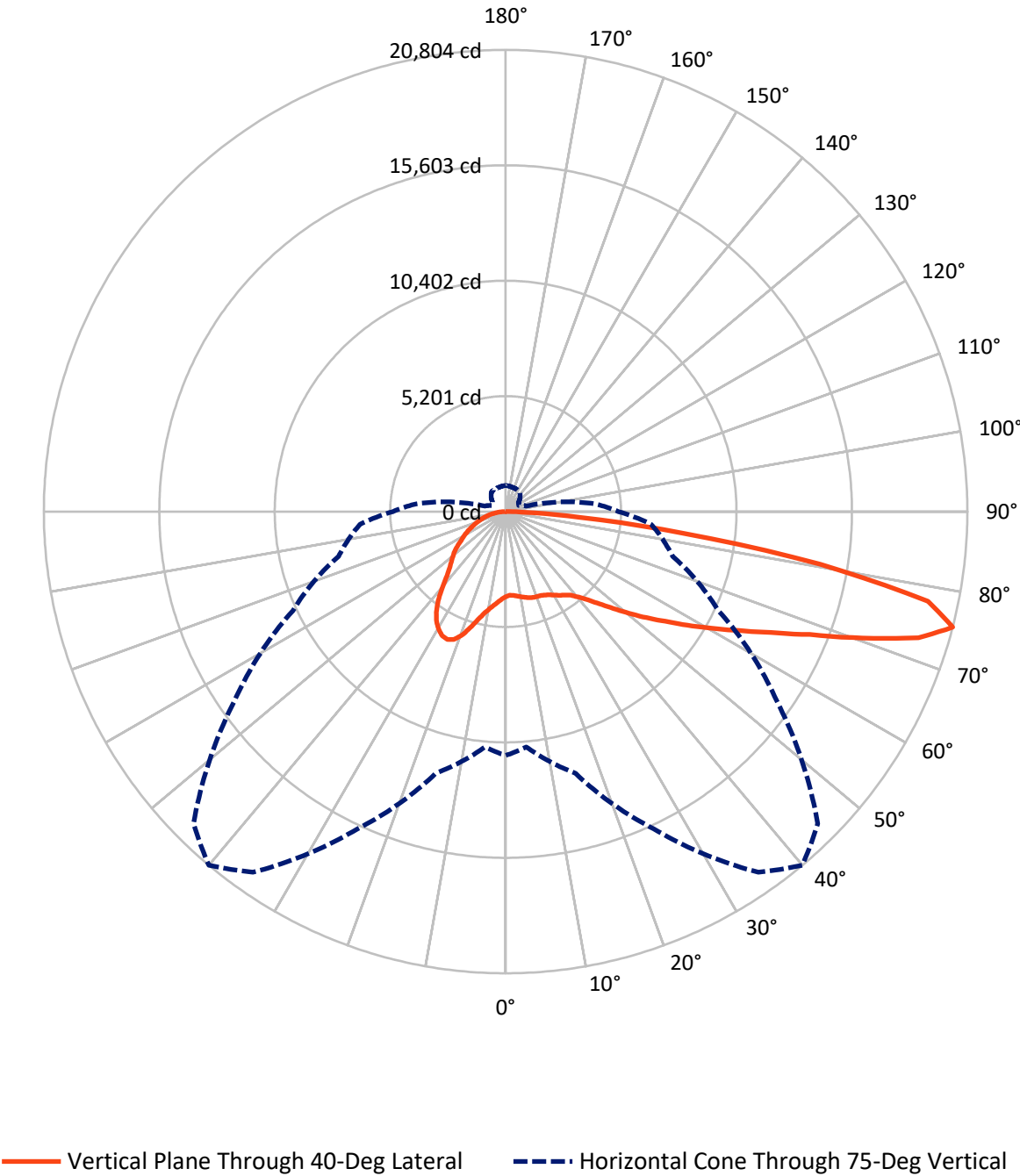
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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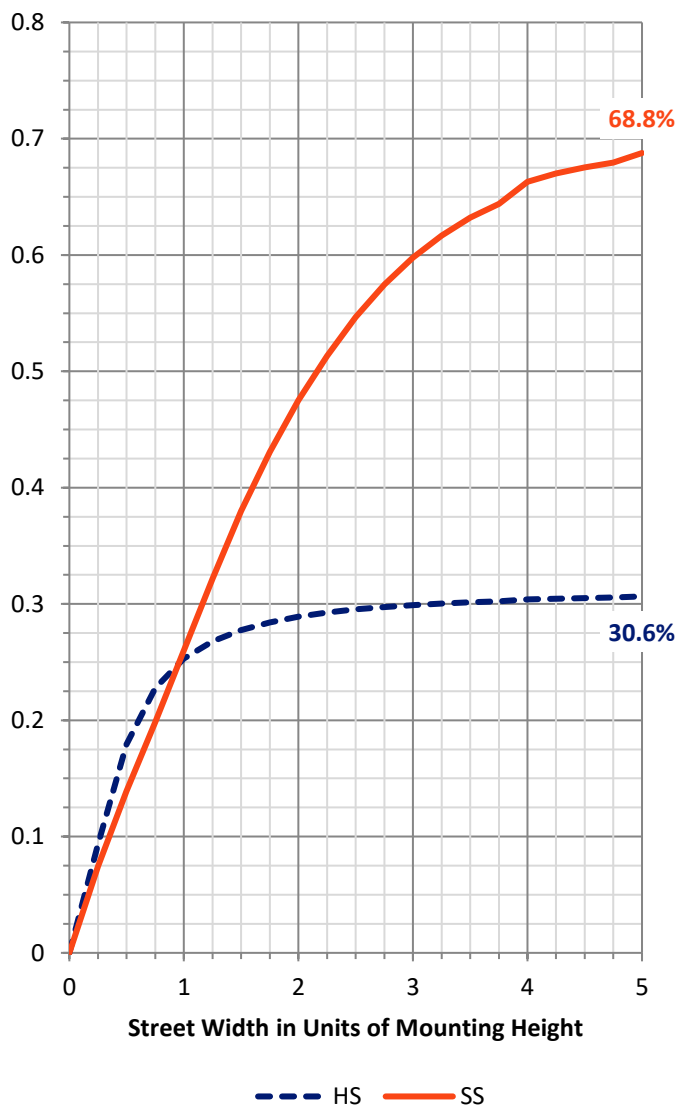
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10355.9	0.0	10355.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	23068.3	0.0	23068.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	33424.2	0.0	33424.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.1
10°-20°	1280.9	3.8
20°-30°	2338.9	7.0
30°-40°	3317.2	9.9
40°-50°	4479.2	13.4
50°-60°	6025.7	18.0
60°-70°	7648.0	22.9
70°-80°	6941.0	20.8
80°-90°	1011.8	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°	33424.2	100.0
0°-180°	33424.2	100.0

Coefficient of Utilization



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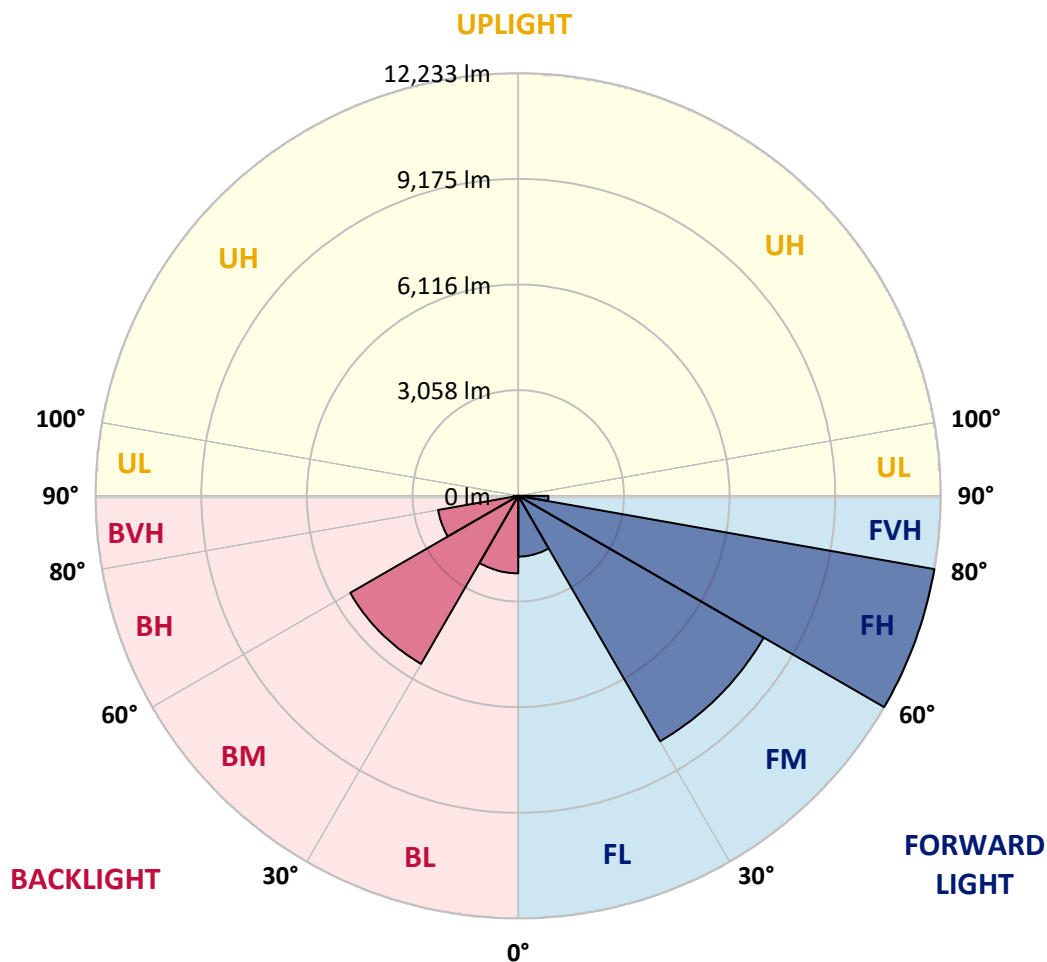
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1758.1	5.3			
FM	(30°-60°)	8204.9	24.5			
FH	(60°-80°)	12232.8	36.6			G5
FVH	(80°-90°)	872.5	2.6			G5
BL	(0°-30°)	2243.2	6.7	B3/2500		
BM	(30°-60°)	5617.2	16.8	B4/8500		
BH	(60°-80°)	2356.3	7.0	B3/2500		G3/2500
BVH	(80°-90°)	139.3	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°	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1
2.5°	3763.6	3784.9	3779.6	3772.5	3772.5	3774.3	3772.5	3784.9	3797.3	3809.7	3829.2
5°	3802.6	3823.9	3813.2	3804.4	3797.3	3795.5	3790.2	3788.4	3795.5	3811.5	3838.0
7.5°	3878.8	3900.1	3884.1	3868.2	3854.0	3846.9	3839.9	3829.2	3823.9	3832.8	3870.0
10°	3963.9	3985.2	3965.7	3937.3	3914.3	3905.5	3898.4	3887.7	3880.6	3885.9	3926.7
12.5°	4049.1	4070.3	4043.7	4004.7	3974.5	3969.2	3960.4	3956.8	3955.1	3953.3	3994.0
15°	4128.8	4146.5	4112.8	4066.8	4034.8	4026.0	4017.1	4022.4	4031.3	4041.9	4088.0
17.5°	4190.8	4208.5	4158.9	4098.7	4068.5	4064.9	4059.6	4077.3	4102.2	4128.8	4185.5
20°	4247.6	4265.3	4201.5	4119.9	4084.5	4084.5	4086.3	4123.5	4158.9	4197.9	4275.9
22.5°	4327.3	4341.5	4263.5	4151.9	4100.4	4104.0	4118.1	4155.3	4199.7	4252.9	4361.1
25°	4446.1	4456.8	4361.1	4212.1	4153.6	4164.3	4176.7	4194.4	4236.9	4299.0	4444.4
27.5°	4637.6	4646.4	4520.6	4318.5	4229.9	4247.6	4265.3	4252.9	4272.4	4325.6	4511.7
30°	4907.1	4912.3	4752.8	4485.1	4359.2	4368.1	4371.6	4320.3	4283.1	4325.6	4559.6
32.5°	5226.2	5224.3	5034.7	4687.2	4506.4	4497.5	4467.4	4366.4	4279.5	4316.7	4602.1
35°	5720.7	5701.3	5456.6	4970.8	4673.1	4618.0	4547.2	4417.8	4297.2	4307.9	4639.4
37.5°	6539.8	6479.5	6140.9	5435.4	4921.2	4781.2	4676.6	4501.1	4336.2	4304.3	4683.6
40°	7463.4	7387.2	7014.9	6071.8	5293.5	5068.3	4899.9	4619.9	4400.0	4320.3	4749.2
42.5°	8559.0	8450.8	8050.1	6821.7	5765.1	5438.9	5185.4	4770.6	4494.0	4371.6	4837.9
45°	9904.5	9760.9	9193.6	7667.2	6359.0	5924.6	5586.0	4999.2	4637.6	4470.9	4970.8
47.5°	11264.2	11299.7	10493.0	8635.2	7071.6	6523.8	6087.7	5343.1	4846.8	4630.5	5185.4
50°	12709.1	12733.9	11785.4	9707.7	7880.0	7201.0	6651.4	5727.8	5137.5	4857.4	5506.2
52.5°	13836.5	13840.1	12959.0	10829.8	8722.0	7945.6	7259.6	6167.5	5474.3	5158.8	5933.5
55°	14542.1	14533.2	13781.5	11891.7	9690.0	8727.4	7933.2	6667.4	5885.7	5513.4	6470.6
57.5°	15054.4	15027.8	14348.9	12804.7	10721.7	9651.0	8695.5	7234.7	6371.4	5935.3	7178.0
60°	15249.4	15233.4	14733.6	13593.7	11806.7	10672.1	9574.7	7869.3	6922.6	6433.4	8087.4
62.5°	15323.9	15354.0	15111.2	14357.7	12967.9	11803.2	10540.9	8628.1	7543.2	6997.2	9046.4
65°	15586.3	15641.2	15591.6	15357.6	14279.7	13127.4	11822.7	9530.4	8220.4	7601.7	10048.1
67.5°	16105.6	16160.7	16181.9	16554.2	15882.3	14777.8	13421.7	10654.4	9012.8	8229.2	10801.6
70°	16093.2	16077.3	16453.1	17506.2	17889.1	17063.0	15577.3	12037.2	9957.7	8750.4	10897.3
72.5°	14648.5	14520.8	15408.9	17495.5	19559.0	19449.2	18209.9	13820.6	10773.2	8814.3	9456.0
75°	10989.4	10649.0	12218.0	15767.1	19837.3	20803.5	19883.5	14926.8	10579.9	7787.8	6580.5
77.5°	4699.6	4357.5	6206.5	11672.0	17754.3	19447.3	18348.2	13022.8	8445.5	5149.9	3231.7
80°	1230.3	1228.6	1875.6	5291.8	12074.4	14361.3	12599.1	8410.0	4825.5	1840.2	891.7
82.5°	508.8	496.4	689.6	2058.2	5899.8	8059.1	6577.0	3751.2	1742.6	498.2	296.0
85°	189.7	187.9	335.1	710.8	2081.3	3324.0	2405.7	959.1	434.3	242.8	132.9
87.5°	53.2	51.5	72.7	246.4	507.0	769.4	411.3	157.7	122.3	95.7	38.9
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°	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1	3822.1
2.5°	3834.5	3843.3	3859.3	3871.7	3887.7	3905.5	3930.3	3946.2	3962.1	3972.8	3965.7
5°	3850.5	3870.0	3910.8	3951.5	3999.3	4043.7	4095.1	4132.4	4162.5	4171.3	4174.9
7.5°	3885.9	3917.9	3986.9	4056.1	4132.4	4205.1	4279.5	4343.3	4394.7	4414.2	4416.0
10°	3948.0	3990.5	4088.0	4185.5	4286.5	4398.3	4494.0	4586.2	4658.8	4689.0	4690.8
12.5°	4026.0	4079.2	4206.8	4341.5	4481.6	4635.8	4759.9	4873.4	4963.8	5004.6	5004.6
15°	4127.1	4196.1	4359.2	4540.0	4745.8	4960.2	5118.0	5243.9	5345.0	5394.6	5391.0
17.5°	4236.9	4329.1	4534.8	4807.8	5102.0	5383.9	5568.3	5660.5	5765.1	5813.0	5811.1
20°	4343.3	4456.8	4751.1	5148.2	5539.9	5839.5	5988.5	6013.3	6020.3	6025.7	6039.8
22.5°	4453.2	4605.6	5022.3	5577.1	5997.3	6204.7	6226.0	6119.7	5970.7	5901.5	5921.1
25°	4573.8	4775.9	5376.8	6050.5	6390.9	6415.7	6252.6	5993.8	5711.9	5582.5	5601.9
27.5°	4690.8	4972.7	5802.3	6502.5	6674.5	6456.5	6105.4	5738.5	5398.1	5261.6	5277.5
30°	4807.8	5197.8	6272.1	6897.8	6804.0	6355.4	5873.2	5463.7	5121.5	4977.9	4993.9
32.5°	4926.6	5460.2	6812.8	7183.3	6780.9	6140.9	5584.2	5155.2	4853.9	4703.2	4722.7
35°	5061.2	5782.8	7325.1	7339.3	6626.6	5825.4	5203.1	4786.5	4524.1	4403.6	4430.2
37.5°	5236.8	6192.3	7777.2	7378.3	6357.2	5362.7	4729.8	4350.4	4134.1	4079.2	4118.1
40°	5454.8	6685.2	8122.8	7316.2	5958.3	4800.7	4212.1	3908.9	3786.7	3799.1	3841.6
42.5°	5738.5	7236.5	8365.7	7156.7	5403.4	4221.0	3758.3	3623.6	3682.0	3731.7	3777.7
45°	6107.3	7809.1	8516.4	6885.4	4775.9	3729.9	3490.6	3522.5	3566.8	3572.1	3607.6
47.5°	6578.8	8388.8	8615.7	6476.0	4135.9	3384.2	3320.4	3327.5	3318.6	3281.4	3309.7
50°	7167.3	8952.6	8704.3	5933.5	3591.6	3168.0	3082.9	3058.1	2935.7	2815.2	2831.2
52.5°	7837.5	9470.2	8741.5	5259.8	3168.0	2987.2	2848.9	2692.9	2464.2	2426.9	2439.3
55°	8582.0	9948.9	8645.9	4431.9	2811.6	2754.9	2545.7	2357.8	2333.0	2301.0	2306.4
57.5°	9471.9	10464.7	8450.8	3508.4	2446.5	2483.7	2279.8	2301.0	2256.7	2207.1	2198.2
60°	10445.2	10998.2	8108.7	2666.2	2068.9	2145.0	2210.6	2208.9	2196.5	2155.7	2141.5
62.5°	11320.9	11349.3	7435.0	2042.2	1737.3	1882.7	2061.8	2059.9	2049.3	2026.3	2017.4
65°	11842.1	11296.1	6311.1	1607.9	1464.3	1666.4	1859.7	1873.8	1875.6	1873.8	1873.8
67.5°	11750.0	10673.8	4768.8	1279.9	1239.1	1446.6	1659.3	1678.8	1693.0	1696.6	1700.1
70°	10707.6	9307.1	3109.4	1021.1	1038.8	1253.4	1469.6	1489.1	1501.5	1515.8	1522.8
72.5°	8346.3	6842.9	1779.9	826.2	863.4	1086.7	1281.8	1304.7	1311.9	1338.4	1349.1
75°	5086.0	4024.2	960.8	650.6	709.1	929.0	1095.6	1122.2	1134.6	1166.4	1170.0
77.5°	2418.1	1742.6	547.8	507.0	570.8	758.7	925.4	955.5	921.9	939.6	925.4
80°	817.2	647.1	345.7	386.4	436.1	592.1	741.0	771.1	700.3	696.7	689.6
82.5°	285.5	262.4	219.9	257.1	281.9	423.7	560.2	599.2	521.2	519.5	494.6
85°	111.7	106.4	122.3	140.0	168.4	260.6	368.7	388.3	320.8	258.8	255.3
87.5°	23.1	24.8	30.1	31.9	51.5	90.4	132.9	163.1	129.5	109.9	101.1
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)