

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: P968963

Luminaire Tested: **NAV-SB5C-835-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968963
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-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 35652.6 lumens
Efficiency: N/A
Efficacy: 142.9 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): 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



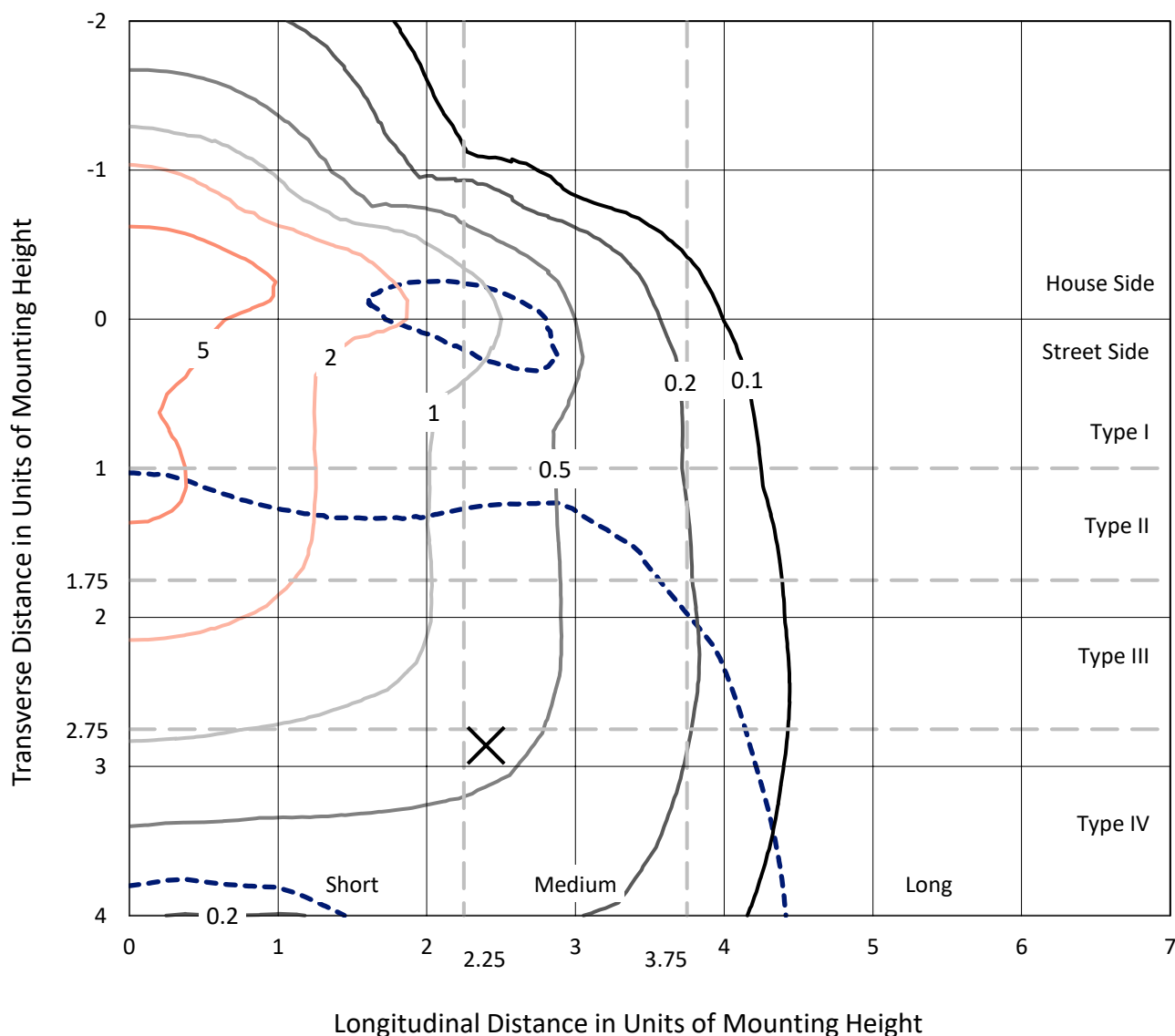
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

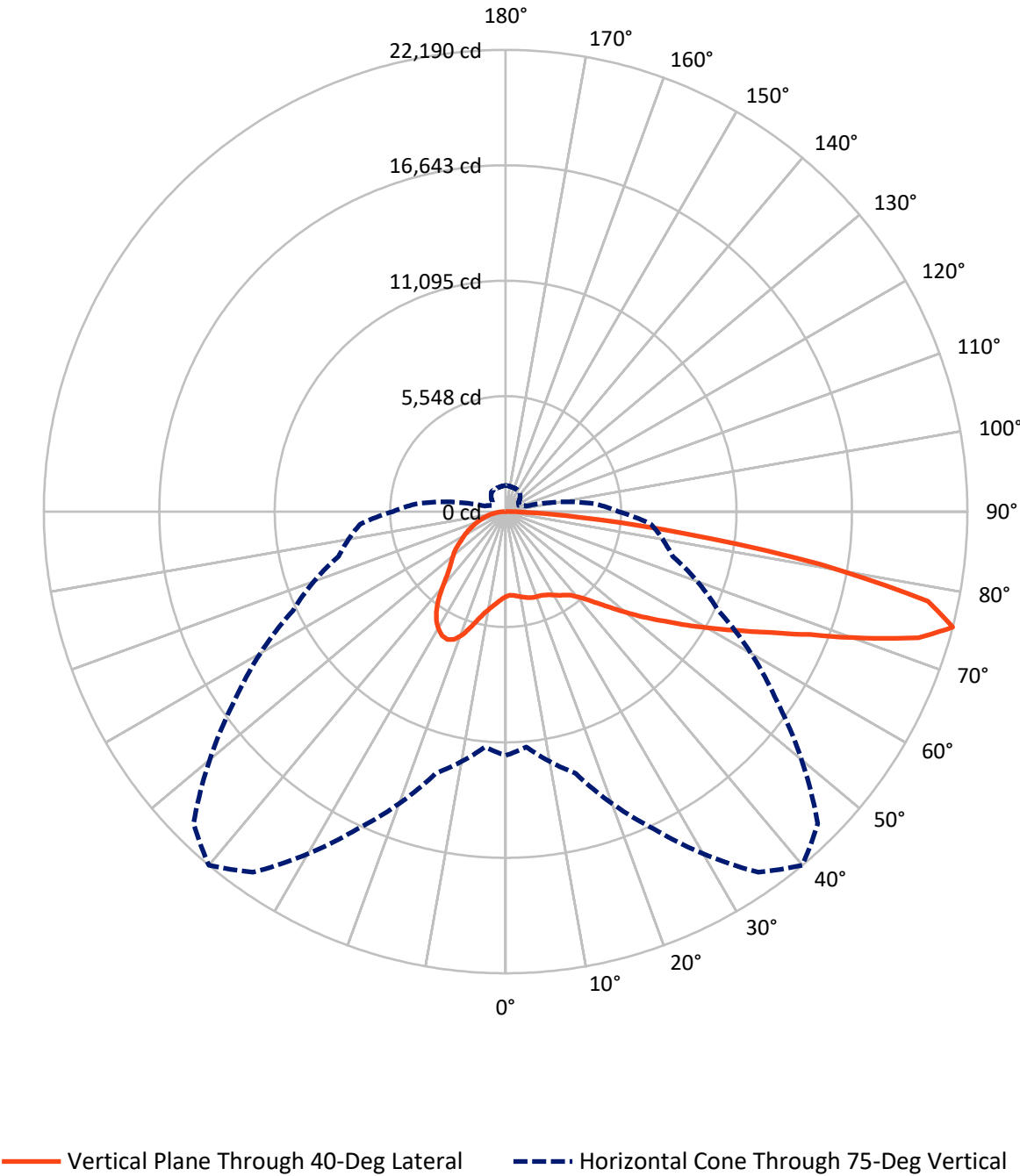
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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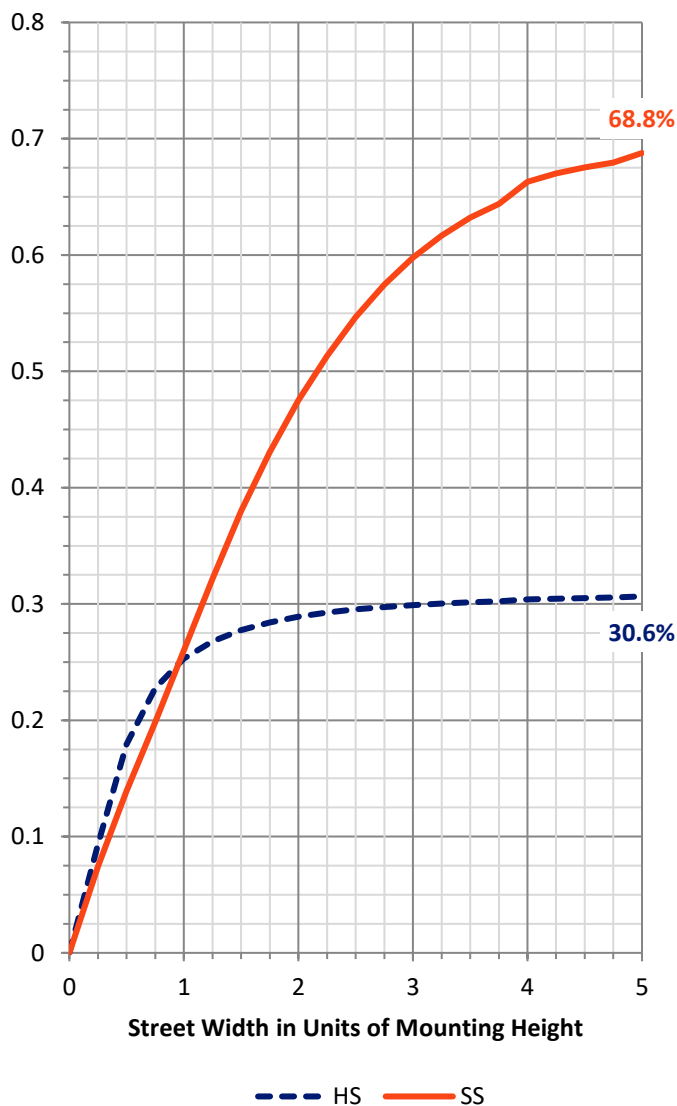
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11046.3	0.0	11046.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	24606.2	0.0	24606.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	35652.6	0.0	35652.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	1.1
10°-20°	1366.3	3.8
20°-30°	2494.8	7.0
30°-40°	3538.3	9.9
40°-50°	4777.8	13.4
50°-60°	6427.4	18.0
60°-70°	8157.9	22.9
70°-80°	7403.8	20.8
80°-90°	1079.2	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°	35652.6	100.0
0°-180°	35652.6	100.0

Coefficient of Utilization



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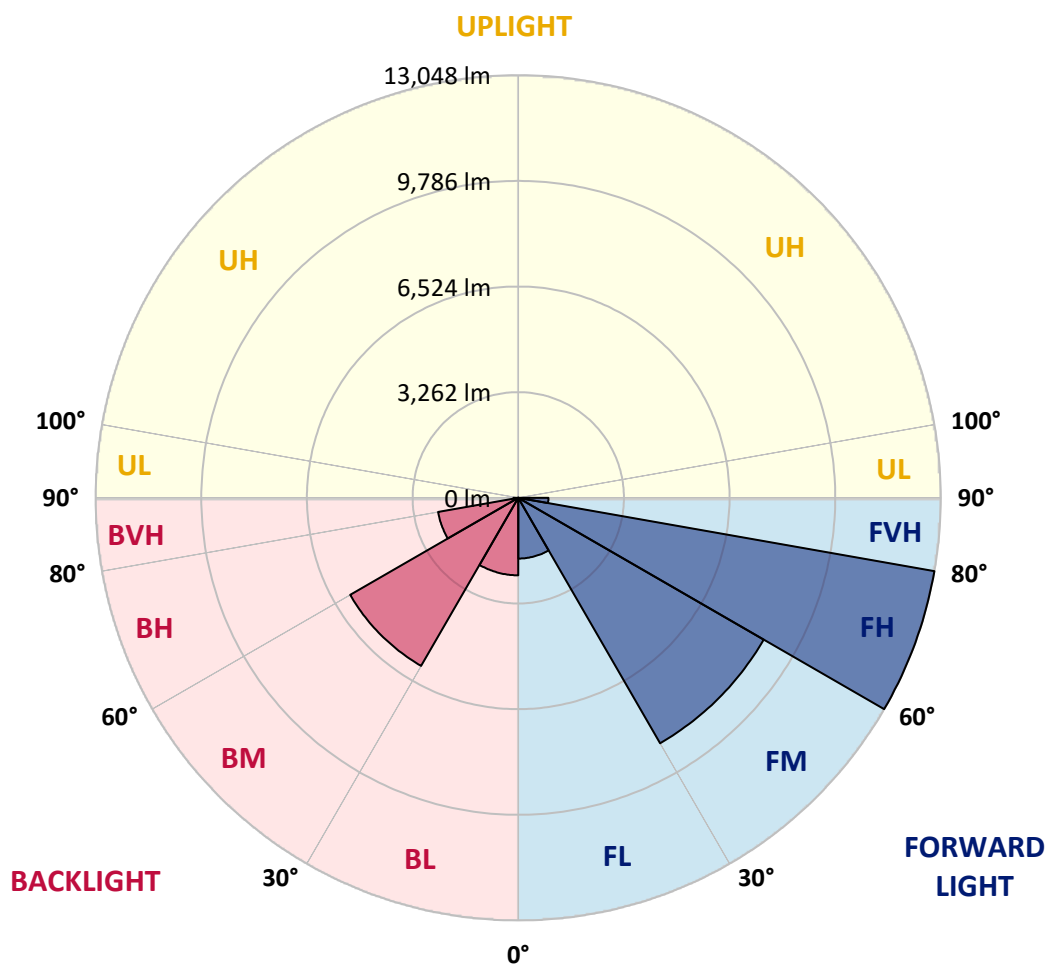
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1875.4	5.3			
FM	(30°-60°)	8751.9	24.5			
FH	(60°-80°)	13048.3	36.6			G5
FVH	(80°-90°)	930.7	2.6			G5
BL	(0°-30°)	2392.7	6.7	B3/2500		
BM	(30°-60°)	5991.7	16.8	B4/8500		
BH	(60°-80°)	2513.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	148.6	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°	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9
2.5°	4014.5	4037.2	4031.5	4023.9	4023.9	4025.9	4023.9	4037.2	4050.5	4063.7	4084.5
5°	4056.1	4078.8	4067.5	4058.0	4050.5	4048.5	4042.9	4041.0	4048.5	4065.6	4094.0
7.5°	4137.4	4160.2	4143.2	4126.0	4111.0	4103.4	4095.8	4084.5	4078.8	4088.3	4128.0
10°	4228.2	4250.9	4230.1	4199.8	4175.2	4165.8	4158.2	4146.8	4139.4	4145.0	4188.5
12.5°	4318.9	4341.7	4313.3	4271.7	4239.5	4233.9	4224.4	4220.6	4218.7	4216.8	4260.3
15°	4404.0	4423.0	4387.0	4337.9	4303.9	4294.3	4284.9	4290.5	4300.1	4311.4	4360.6
17.5°	4470.2	4489.2	4436.2	4371.9	4339.7	4336.0	4330.3	4349.2	4375.7	4404.0	4464.6
20°	4530.7	4549.7	4481.6	4394.6	4356.8	4356.8	4358.7	4398.4	4436.2	4477.8	4561.0
22.5°	4615.9	4631.0	4547.7	4428.6	4373.8	4377.6	4392.7	4432.4	4479.7	4536.4	4651.8
25°	4742.6	4753.8	4651.8	4492.9	4430.6	4441.8	4455.2	4474.0	4519.4	4585.5	4740.6
27.5°	4946.8	4956.2	4822.0	4606.3	4511.8	4530.7	4549.7	4536.4	4557.3	4613.9	4812.5
30°	5234.2	5239.9	5069.6	4784.2	4649.9	4659.3	4663.1	4608.3	4568.5	4613.9	4863.5
32.5°	5574.6	5572.7	5370.4	4999.7	4806.8	4797.4	4765.2	4657.4	4564.8	4604.5	4908.9
35°	6102.1	6081.3	5820.4	5302.2	4984.6	4925.9	4850.3	4712.2	4583.7	4595.1	4948.7
37.5°	6975.7	6911.5	6550.3	5797.7	5249.3	5099.9	4988.4	4801.2	4625.3	4591.3	4996.0
40°	7961.0	7879.7	7482.5	6476.6	5646.4	5406.3	5226.6	4927.9	4693.4	4608.3	5065.9
42.5°	9129.6	9014.3	8586.8	7276.5	6149.4	5801.5	5531.1	5088.6	4793.6	4663.1	5160.5
45°	10564.8	10411.6	9806.6	8178.4	6782.9	6319.6	5958.4	5332.6	4946.8	4769.0	5302.2
47.5°	12015.2	12053.0	11192.6	9210.9	7543.1	6958.7	6493.6	5699.4	5169.9	4939.2	5531.1
50°	13556.3	13582.8	12571.1	10355.0	8405.3	7681.1	7094.9	6109.7	5480.1	5181.3	5873.4
52.5°	14759.0	14762.8	13822.9	11551.9	9303.5	8475.3	7743.5	6578.7	5839.3	5502.7	6329.1
55°	15511.6	15502.1	14700.3	12684.6	10336.0	9309.3	8462.1	7112.0	6278.0	5880.9	6902.0
57.5°	16058.1	16029.7	15305.5	13658.4	11436.5	10294.4	9275.2	7717.0	6796.2	6330.9	7656.5
60°	16266.0	16249.0	15715.8	14500.0	12593.9	11383.6	10213.1	8394.0	7384.2	6862.3	8626.6
62.5°	16345.5	16377.7	16118.5	15314.9	13832.4	12590.1	11243.6	9203.4	8046.0	7463.6	9649.6
65°	16625.4	16684.0	16631.0	16381.4	15231.7	14002.6	12610.9	10165.8	8768.4	8108.5	10718.0
67.5°	17179.4	17238.0	17260.7	17657.8	16941.2	15763.1	14316.5	11364.7	9613.7	8777.9	11521.6
70°	17166.2	17149.2	17550.0	18673.2	19081.7	18200.5	16615.9	12839.7	10621.6	9333.8	11623.8
72.5°	15625.0	15488.9	16436.3	18662.0	20863.1	20745.8	19424.0	14742.0	11491.4	9401.9	10086.4
75°	11722.1	11359.0	13032.6	16818.2	21159.9	22190.4	21209.1	15921.9	11285.2	8307.0	7019.3
77.5°	5013.0	4648.0	6620.3	12450.1	18938.0	20743.8	19571.5	13891.0	9008.5	5493.3	3447.2
80°	1312.3	1310.5	2000.6	5644.6	12879.3	15318.7	13439.1	8970.7	5147.2	1962.8	951.2
82.5°	542.7	529.5	735.5	2195.4	6293.1	8596.4	7015.5	4001.3	1858.8	531.4	315.8
85°	202.3	200.5	357.4	758.3	2219.9	3545.6	2566.1	1023.1	463.3	259.0	141.9
87.5°	56.7	54.8	77.5	262.8	540.8	820.7	438.7	168.3	130.5	102.1	41.6
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°	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9	4076.9
2.5°	4090.2	4099.6	4116.6	4129.8	4146.8	4165.8	4192.2	4209.3	4226.3	4237.7	4230.1
5°	4107.2	4128.0	4171.4	4215.0	4266.0	4313.3	4368.1	4407.8	4440.0	4449.4	4453.2
7.5°	4145.0	4179.0	4252.8	4326.5	4407.8	4485.4	4564.8	4632.9	4687.7	4708.5	4710.4
10°	4211.2	4256.5	4360.6	4464.6	4572.3	4691.5	4793.6	4891.9	4969.4	5001.6	5003.5
12.5°	4294.3	4351.1	4487.2	4631.0	4780.4	4944.9	5077.2	5198.3	5294.7	5338.2	5338.2
15°	4402.2	4475.9	4649.9	4842.7	5062.1	5290.9	5459.3	5593.4	5701.3	5754.2	5750.5
17.5°	4519.4	4617.7	4837.1	5128.3	5442.2	5742.9	5939.6	6037.9	6149.4	6200.4	6198.6
20°	4632.9	4753.8	5067.8	5491.3	5909.2	6228.8	6387.7	6414.1	6421.7	6427.4	6442.5
22.5°	4750.1	4912.7	5357.1	5949.0	6397.1	6618.4	6641.1	6527.6	6368.7	6295.0	6315.8
25°	4878.7	5094.2	5735.3	6453.9	6817.0	6843.4	6669.5	6393.3	6092.7	5954.6	5975.4
27.5°	5003.5	5304.2	6189.2	6936.1	7119.4	6886.9	6512.4	6121.1	5757.9	5612.4	5629.4
30°	5128.3	5544.3	6690.3	7357.8	7257.5	6779.1	6264.8	5827.9	5463.0	5309.8	5326.8
32.5°	5255.0	5824.2	7266.9	7662.2	7232.9	6550.3	5956.6	5498.9	5177.5	5016.8	5037.6
35°	5398.7	6168.3	7813.5	7828.6	7068.4	6213.8	5550.0	5105.6	4825.7	4697.2	4725.6
37.5°	5585.9	6605.1	8295.6	7870.2	6781.0	5720.2	5045.0	4640.4	4409.8	4351.1	4392.7
40°	5818.5	7130.8	8664.4	7804.0	6355.5	5120.7	4492.9	4169.6	4039.1	4052.3	4097.7
42.5°	6121.1	7719.0	8923.4	7633.8	5763.7	4502.4	4008.9	3865.2	3927.5	3980.5	4029.7
45°	6514.4	8329.7	9084.2	7344.5	5094.2	3978.6	3723.3	3757.3	3804.6	3810.3	3848.2
47.5°	7017.4	8948.0	9190.0	6907.7	4411.6	3609.8	3541.8	3549.4	3539.8	3500.2	3530.4
50°	7645.2	9549.4	9284.7	6329.1	3831.1	3379.1	3288.4	3262.0	3131.5	3002.8	3019.9
52.5°	8360.0	10101.6	9324.3	5610.5	3379.1	3186.3	3038.8	2872.4	2628.4	2588.7	2602.0
55°	9154.2	10612.1	9222.2	4727.4	2999.0	2938.6	2715.4	2514.9	2488.5	2454.5	2460.1
57.5°	10103.4	11162.4	9014.3	3742.2	2609.5	2649.2	2431.8	2454.5	2407.2	2354.2	2344.8
60°	11141.5	11731.5	8649.3	2844.0	2206.7	2288.1	2358.0	2356.2	2342.9	2299.4	2284.3
62.5°	12075.7	12106.0	7930.7	2178.4	1853.1	2008.2	2199.2	2197.3	2185.9	2161.4	2151.9
65°	12631.7	12049.2	6731.8	1715.1	1561.9	1777.6	1983.6	1998.7	2000.6	1998.7	1998.7
67.5°	12533.3	11385.5	5086.7	1365.3	1321.7	1543.0	1770.0	1790.8	1805.8	1809.6	1813.4
70°	11421.5	9927.5	3316.8	1089.2	1108.1	1336.9	1567.6	1588.4	1601.7	1616.7	1624.3
72.5°	8902.6	7299.1	1898.5	881.2	920.9	1159.2	1367.1	1391.7	1399.3	1427.7	1439.0
75°	5425.2	4292.5	1024.9	694.0	756.3	990.9	1168.6	1197.0	1210.2	1244.2	1248.0
77.5°	2579.3	1858.8	584.4	540.8	608.8	809.3	987.1	1019.3	983.3	1002.2	987.1
80°	871.8	690.2	368.7	412.3	465.1	631.6	790.4	822.6	746.9	743.1	735.5
82.5°	304.4	279.8	234.5	274.2	300.6	451.9	597.6	639.2	556.0	554.0	527.6
85°	119.1	113.5	130.5	149.3	179.7	278.0	393.3	414.1	342.2	276.0	272.3
87.5°	24.6	26.4	32.2	34.0	54.8	96.5	141.9	173.9	138.1	117.3	107.8
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)