

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: P970470

Luminaire Tested: **NAV-SB6B-760-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-760-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36957.4 lumens
Efficiency: N/A
Efficacy: 167.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

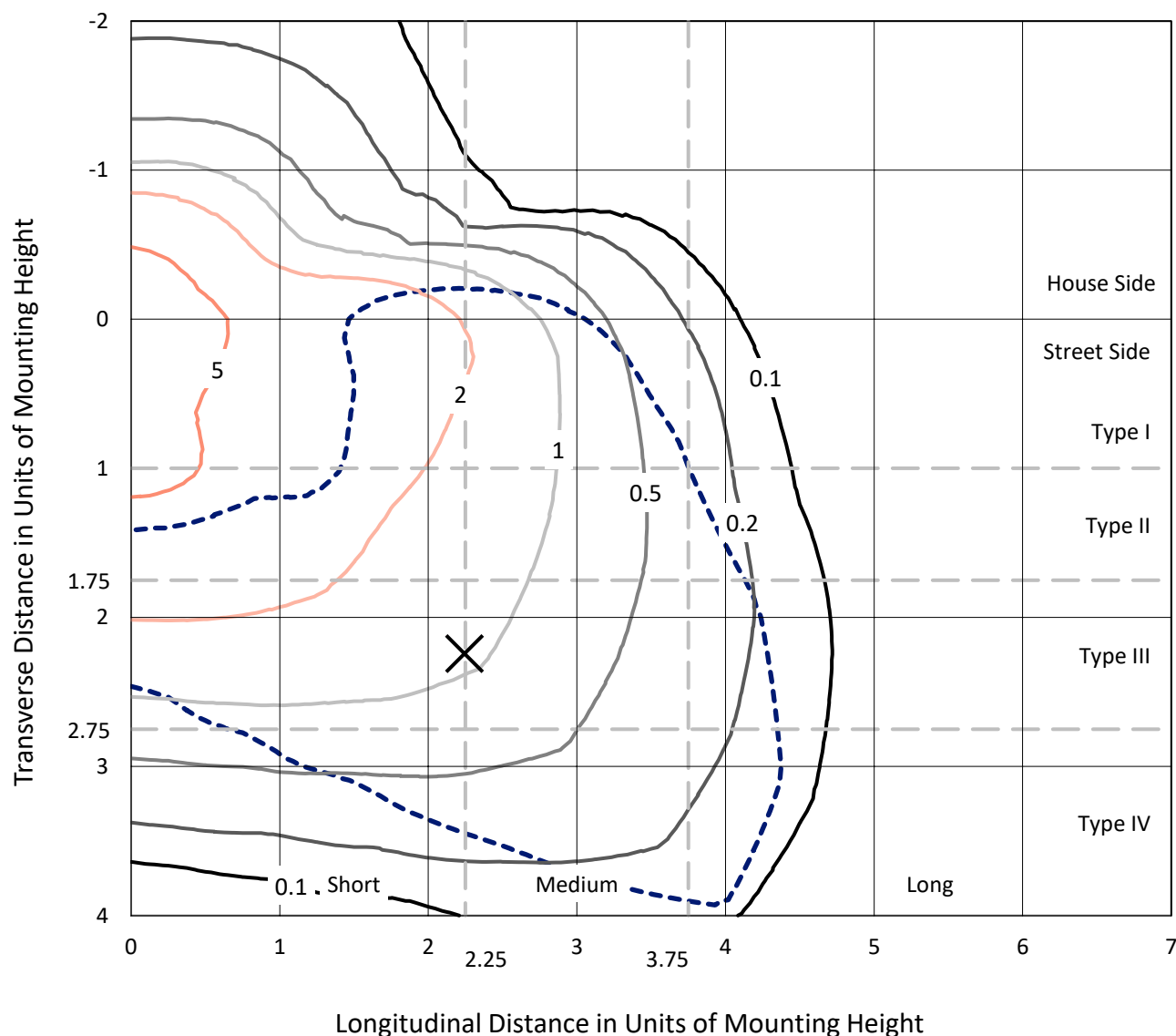


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Iso-Footcandle Lines of Horizontal Illumination

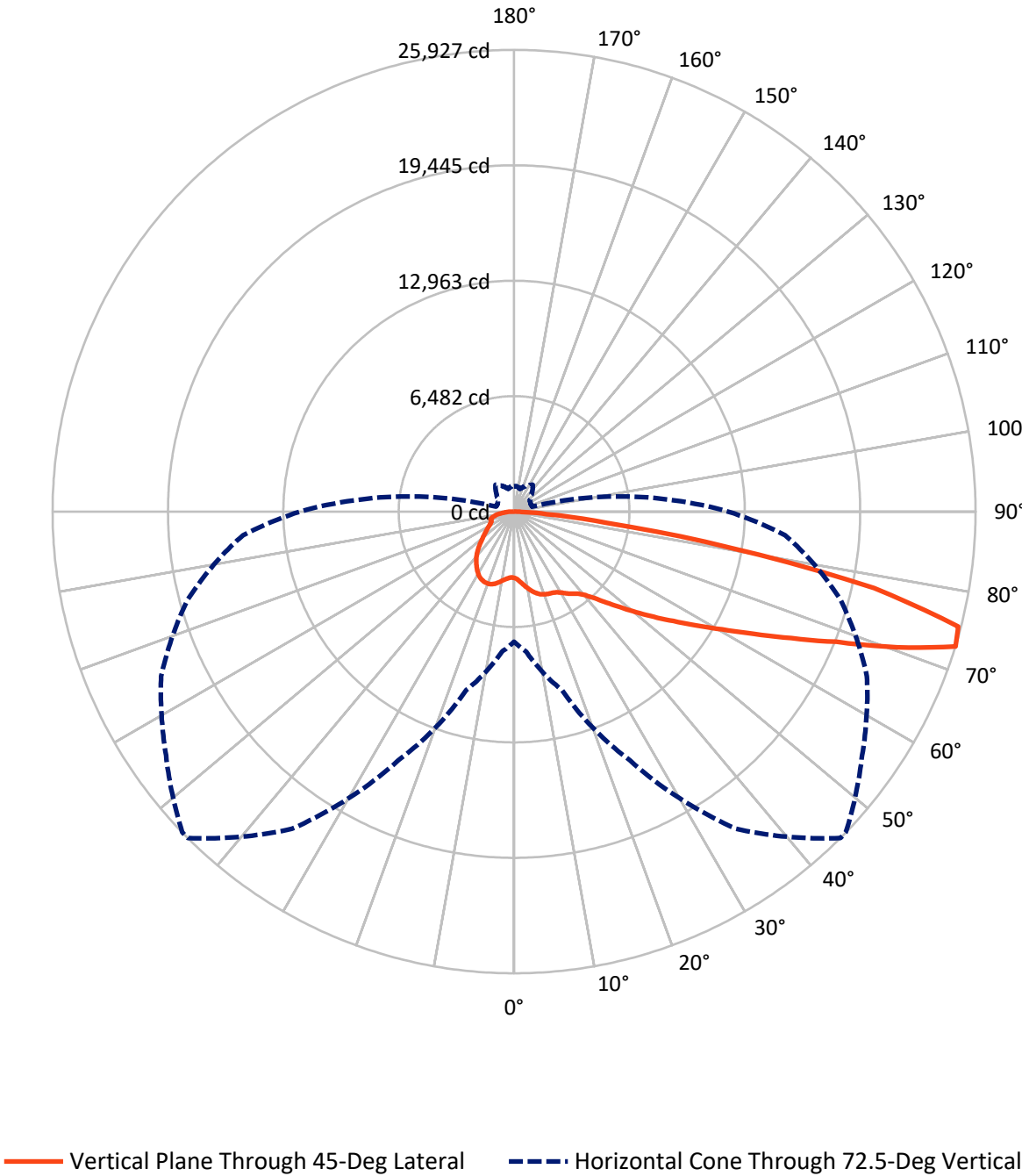
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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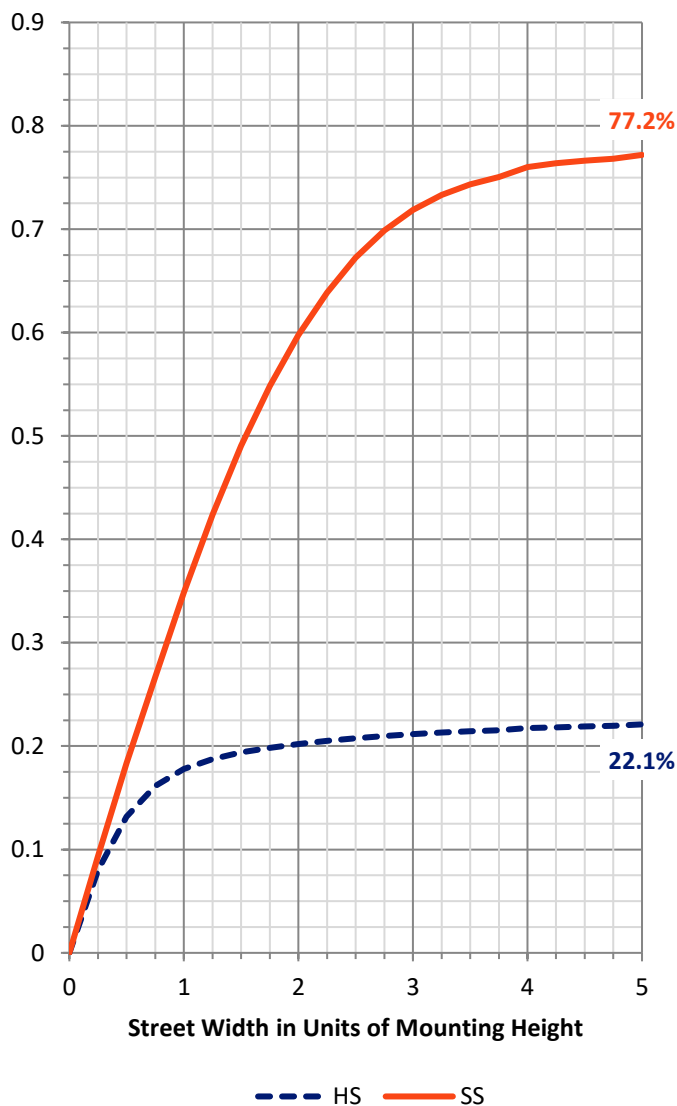
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8354.8	0.0	8354.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28602.6	0.0	28602.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	36957.4	0.0	36957.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	1.0
10°-20°	1265.2	3.4
20°-30°	2200.9	6.0
30°-40°	3155.1	8.5
40°-50°	4442.5	12.0
50°-60°	6804.6	18.4
60°-70°	9857.5	26.7
70°-80°	7871.8	21.3
80°-90°	980.4	2.7
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°	36957.4	100.0
0°-180°	36957.4	100.0

Coefficient of Utilization



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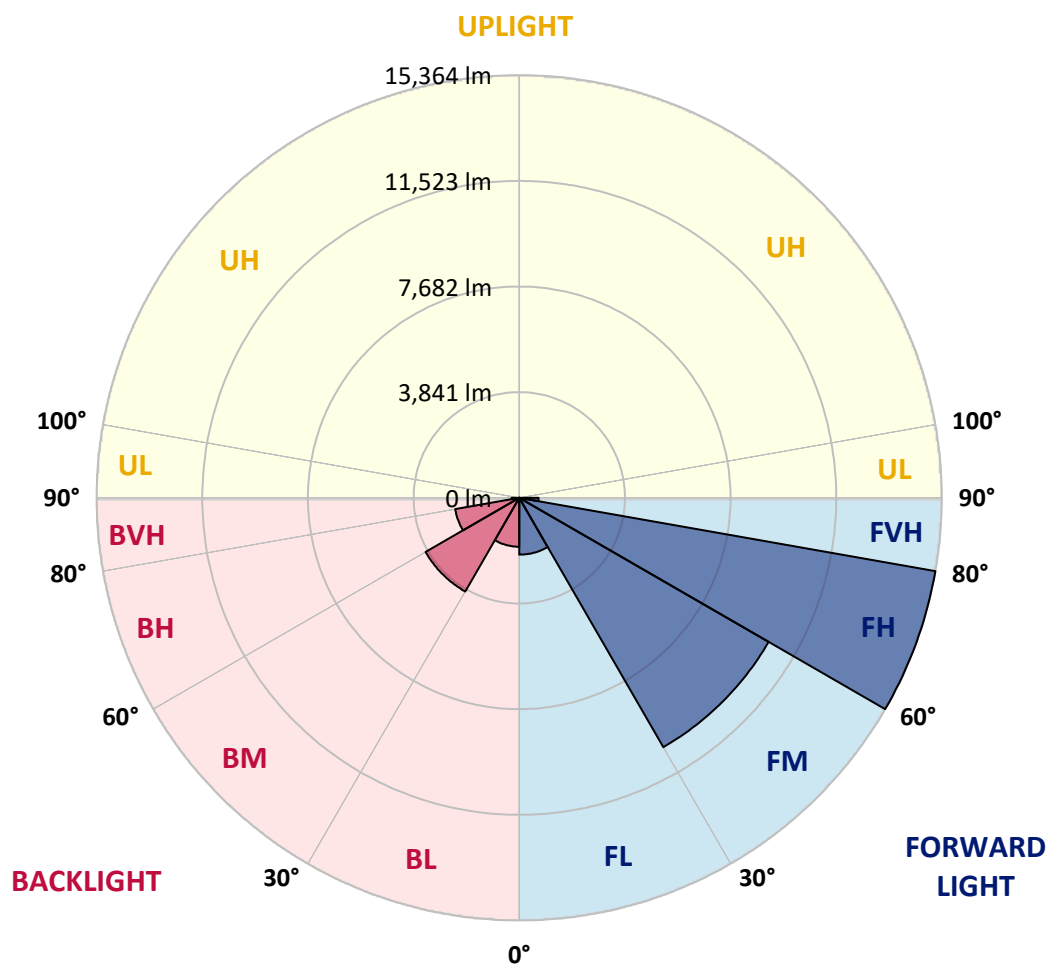
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2066.7	5.6			
FM	(30°-60°)	10468.3	28.3			
FH	(60°-80°)	15364.3	41.6			G5
FVH	(80°-90°)	703.4	1.9			G4/750
BL	(0°-30°)	1778.8	4.8	B3/2500		
BM	(30°-60°)	3933.9	10.6	B3/5000		
BH	(60°-80°)	2365.0	6.4	B3/2500		G3/2500
BVH	(80°-90°)	277.1	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2
2.5°	3874.3	3899.6	3876.2	3854.8	3845.1	3819.8	3817.8	3802.2	3792.5	3765.2	3757.4
5°	4144.9	4178.0	4139.1	4096.2	4057.3	3995.0	3987.2	3942.5	3891.8	3833.4	3800.3
7.5°	4450.5	4479.8	4435.0	4370.8	4302.6	4199.4	4197.5	4115.7	4035.9	3936.6	3880.1
10°	4717.3	4756.2	4695.8	4608.3	4522.6	4405.8	4392.1	4298.7	4197.5	4068.9	3983.4
12.5°	4952.9	4980.2	4921.7	4814.6	4715.3	4598.6	4581.0	4477.8	4365.0	4218.9	4109.8
15°	5139.8	5174.8	5096.9	4982.1	4877.0	4762.0	4746.5	4653.1	4540.1	4386.3	4246.2
17.5°	5262.5	5291.7	5211.8	5083.3	4982.1	4886.7	4875.0	4797.1	4697.8	4542.1	4392.1
20°	5309.2	5340.4	5256.6	5126.1	5032.6	4958.7	4952.9	4896.4	4828.3	4686.2	4534.3
22.5°	5355.8	5385.0	5276.1	5139.8	5058.0	5011.3	5009.4	4972.4	4945.1	4828.3	4680.4
25°	5544.7	5552.5	5406.5	5209.9	5093.0	5052.1	5050.2	5048.2	5059.9	4968.5	4838.0
27.5°	5708.2	5706.3	5581.7	5396.7	5215.7	5130.0	5128.1	5147.5	5184.6	5108.6	5001.6
30°	5947.8	5926.3	5778.3	5585.6	5420.1	5287.8	5276.1	5258.6	5287.8	5227.4	5165.1
32.5°	6455.9	6387.7	6148.3	5805.6	5589.5	5488.3	5472.7	5363.6	5375.3	5338.4	5307.2
35°	7184.0	7094.4	6775.1	6222.3	5799.8	5655.7	5648.0	5509.7	5486.3	5453.2	5464.9
37.5°	8050.4	7939.3	7567.6	6825.8	6161.9	5850.4	5838.7	5714.1	5618.7	5583.7	5649.9
40°	8920.6	8780.5	8472.9	7561.7	6695.3	6175.5	6138.5	5949.7	5840.7	5782.2	5922.4
42.5°	9765.6	9648.7	9385.9	8387.2	7353.4	6650.5	6568.8	6245.6	6163.8	6109.3	6362.4
45°	10513.2	10408.1	10215.3	9269.1	8124.4	7296.9	7217.1	6689.5	6664.1	6664.1	7030.2
47.5°	11120.6	11097.3	10892.8	10168.6	9033.5	8032.8	7894.7	7306.6	7374.8	7479.9	7978.3
50°	11794.3	11730.0	11511.9	11054.4	10102.4	8875.9	8762.9	8064.0	8319.0	8607.1	9348.9
52.5°	12413.4	12448.4	12205.0	11977.2	11309.4	9816.2	9617.6	8957.6	9508.6	9985.6	10955.1
55°	13050.0	13051.9	12983.8	12952.6	12574.9	10855.8	10637.8	10032.3	10908.4	11500.2	12828.0
57.5°	13647.7	13651.6	13752.8	14027.3	14042.9	12055.1	11807.9	11352.3	12464.0	13067.5	14759.3
60°	14181.1	14208.3	14484.8	15127.3	15333.7	13429.7	13196.0	12911.7	14072.1	14679.5	16789.9
62.5°	14360.2	14459.5	15074.7	15987.8	16608.9	15115.6	14885.9	14716.5	15761.9	16326.6	18487.6
65°	14056.5	14284.3	15473.8	16698.4	17921.1	17118.9	16891.2	16706.2	17518.1	18049.5	19881.6
67.5°	13310.9	13604.8	15450.4	17444.1	19513.6	19529.2	19316.9	18882.9	19400.7	19605.1	20335.2
70°	11346.4	11786.5	14089.5	17722.5	21341.7	22825.3	22620.8	21503.4	21279.4	20290.4	19058.0
72.5°	7310.5	7902.4	10374.9	15431.0	21748.7	25926.7	25915.0	23868.8	21873.2	18958.7	15285.0
75°	2667.3	3029.4	4820.5	9685.7	18256.0	25768.9	25844.9	23463.9	19967.2	14644.5	9522.2
77.5°	971.5	1063.0	1573.1	3722.5	11227.6	20675.9	20833.6	18758.2	14212.2	7349.5	3773.0
80°	510.0	560.7	806.1	1444.6	4810.7	12279.0	12526.2	11147.9	6679.7	2213.6	1131.2
82.5°	282.3	305.7	451.7	784.6	2166.8	5250.8	5398.7	4403.8	2349.9	938.4	467.3
85°	151.9	161.6	212.2	428.3	1059.1	1820.3	1861.2	1316.1	936.4	550.9	225.8
87.5°	44.8	54.5	70.1	136.3	414.7	408.9	418.6	260.9	369.9	278.4	74.0
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°	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2	3728.2
2.5°	3745.8	3739.9	3718.6	3708.9	3697.2	3695.2	3705.0	3706.9	3708.9	3710.8	3718.6
5°	3780.8	3761.3	3741.9	3730.2	3734.1	3736.0	3755.5	3769.1	3778.9	3786.7	3790.6
7.5°	3849.0	3833.4	3800.3	3798.3	3804.2	3821.7	3847.0	3878.2	3895.7	3909.3	3913.2
10°	3950.2	3921.0	3882.1	3887.9	3899.6	3924.9	3977.5	4002.8	4032.0	4057.3	4051.4
12.5°	4053.4	4028.1	3983.4	3987.2	4006.7	4051.4	4102.0	4133.2	4152.7	4172.2	4180.0
15°	4187.7	4142.9	4094.3	4094.3	4129.3	4178.0	4201.4	4226.7	4238.4	4259.8	4267.6
17.5°	4326.0	4267.6	4203.3	4199.4	4242.3	4265.6	4279.3	4283.2	4287.1	4310.4	4318.2
20°	4464.2	4399.9	4308.5	4300.7	4310.4	4306.5	4304.6	4300.7	4306.5	4335.8	4347.4
22.5°	4600.5	4526.5	4399.9	4365.0	4337.7	4300.7	4298.7	4296.8	4300.7	4329.9	4349.4
25°	4760.1	4670.6	4501.2	4396.0	4304.6	4254.0	4259.8	4261.7	4265.6	4289.0	4320.2
27.5°	4933.4	4834.1	4594.7	4386.3	4220.8	4185.8	4176.1	4181.9	4195.5	4232.5	4269.5
30°	5106.7	4989.9	4680.4	4347.4	4115.7	4067.0	4035.9	4049.5	4092.3	4129.3	4170.2
32.5°	5264.4	5147.5	4748.4	4261.7	3981.4	3905.5	3864.6	3882.1	3924.9	3938.6	3987.2
35°	5449.3	5317.0	4777.6	4125.4	3835.3	3718.6	3664.1	3638.7	3660.2	3646.5	3689.4
37.5°	5655.7	5517.5	4773.7	3946.4	3664.1	3529.7	3453.7	3358.4	3313.6	3266.9	3296.1
40°	5961.4	5762.8	4727.0	3730.2	3451.8	3329.2	3192.9	3031.3	2930.1	2838.5	2844.4
42.5°	6378.0	6103.5	4641.4	3492.7	3212.4	3097.4	2912.5	2723.7	2564.0	2412.2	2398.6
45°	6999.0	6549.3	4534.3	3239.6	2953.4	2840.5	2640.0	2427.8	2246.7	2052.0	2028.7
47.5°	7894.7	7149.0	4433.0	2951.5	2680.9	2577.7	2396.7	2200.0	1985.8	1796.9	1775.6
50°	9125.1	8009.5	4339.6	2671.1	2412.2	2334.3	2190.2	1989.7	1773.7	1621.8	1612.0
52.5°	10690.3	9179.6	4300.7	2400.5	2161.0	2131.8	2017.0	1830.0	1625.6	1497.1	1487.4
55°	12487.3	10579.3	4300.7	2141.5	1941.0	1950.8	1870.9	1697.7	1520.5	1405.7	1394.0
57.5°	14321.3	11996.7	4222.8	1902.1	1754.2	1795.0	1744.4	1592.5	1432.9	1314.2	1294.7
60°	16011.2	13184.3	3907.4	1684.1	1588.6	1652.9	1619.8	1489.3	1294.7	1195.4	1179.8
62.5°	17309.8	13854.0	3300.0	1510.7	1452.4	1526.3	1508.8	1353.1	1269.4	1228.5	1214.8
65°	17960.0	13745.0	2523.1	1357.0	1337.5	1452.4	1415.4	1409.6	1343.4	1296.6	1281.0
67.5°	17560.9	12806.6	1830.0	1244.0	1271.3	1384.3	1526.3	1549.7	1427.1	1335.6	1320.0
70°	15810.6	11108.9	1362.8	1136.9	1187.6	1386.2	1740.6	1621.8	1399.8	1292.7	1275.2
72.5°	12027.9	8283.9	1057.2	1024.1	1078.6	1395.9	1835.9	1588.6	1321.9	1429.1	1417.4
75°	6878.4	4547.9	848.8	885.8	942.3	1304.4	1787.2	1503.0	1261.6	1312.2	1312.2
77.5°	2622.5	1748.3	700.9	749.6	757.4	1138.9	1709.4	1497.1	1201.2	1172.0	1068.9
80°	909.2	683.4	580.2	595.7	586.0	1012.4	1639.3	1302.5	983.2	880.0	850.7
82.5°	371.9	340.7	459.5	440.0	416.7	786.6	1323.9	1065.0	804.1	710.6	702.8
85°	161.6	216.1	303.7	266.7	241.4	545.1	1061.1	901.4	679.5	586.0	584.0
87.5°	33.1	81.8	128.5	120.7	124.6	364.1	753.5	640.5	480.9	360.2	282.3
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)