

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: P966762

Luminaire Tested: **NAV-SB4C-760-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966762
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-SB4C-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 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: 32263.9 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

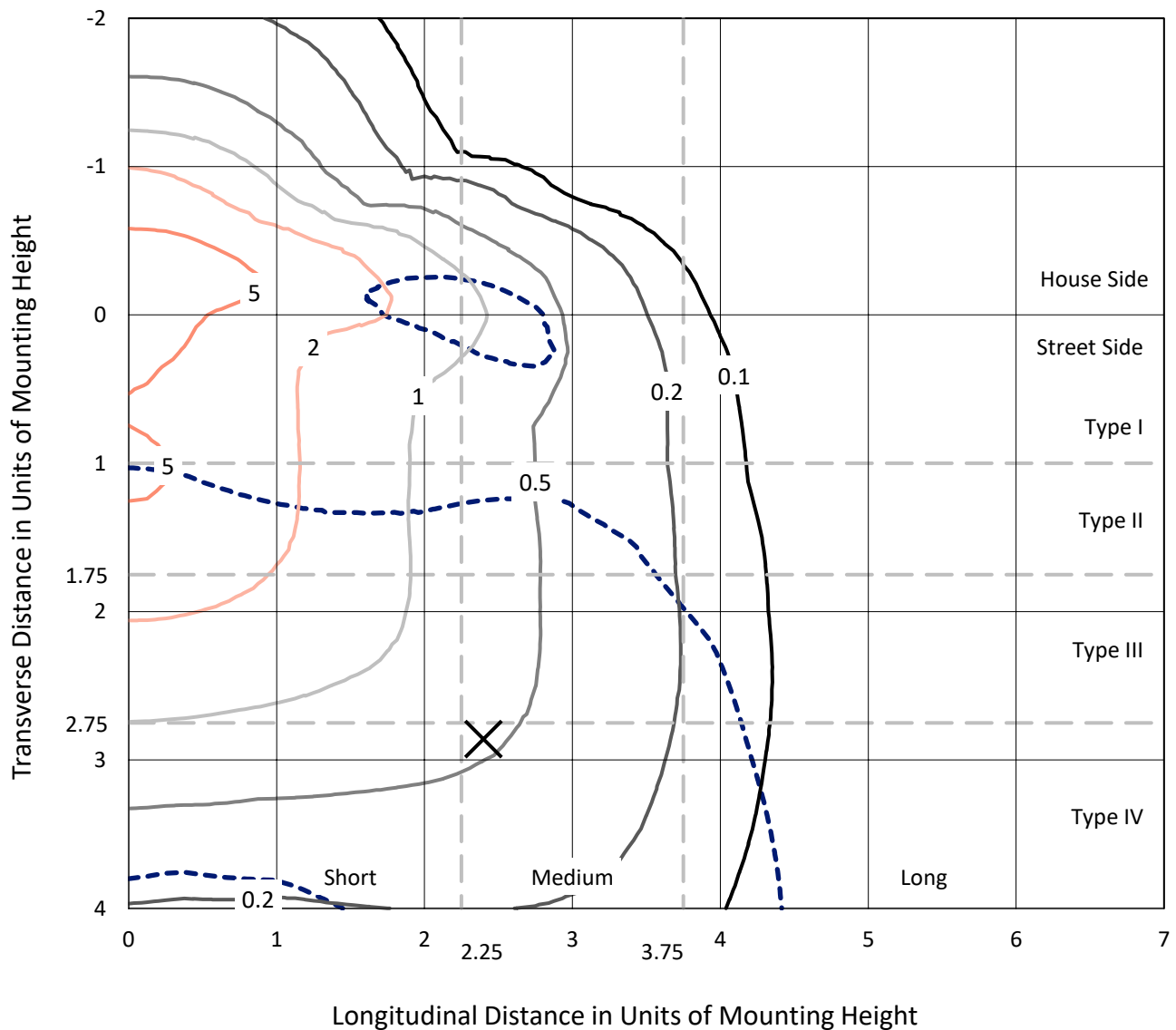
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

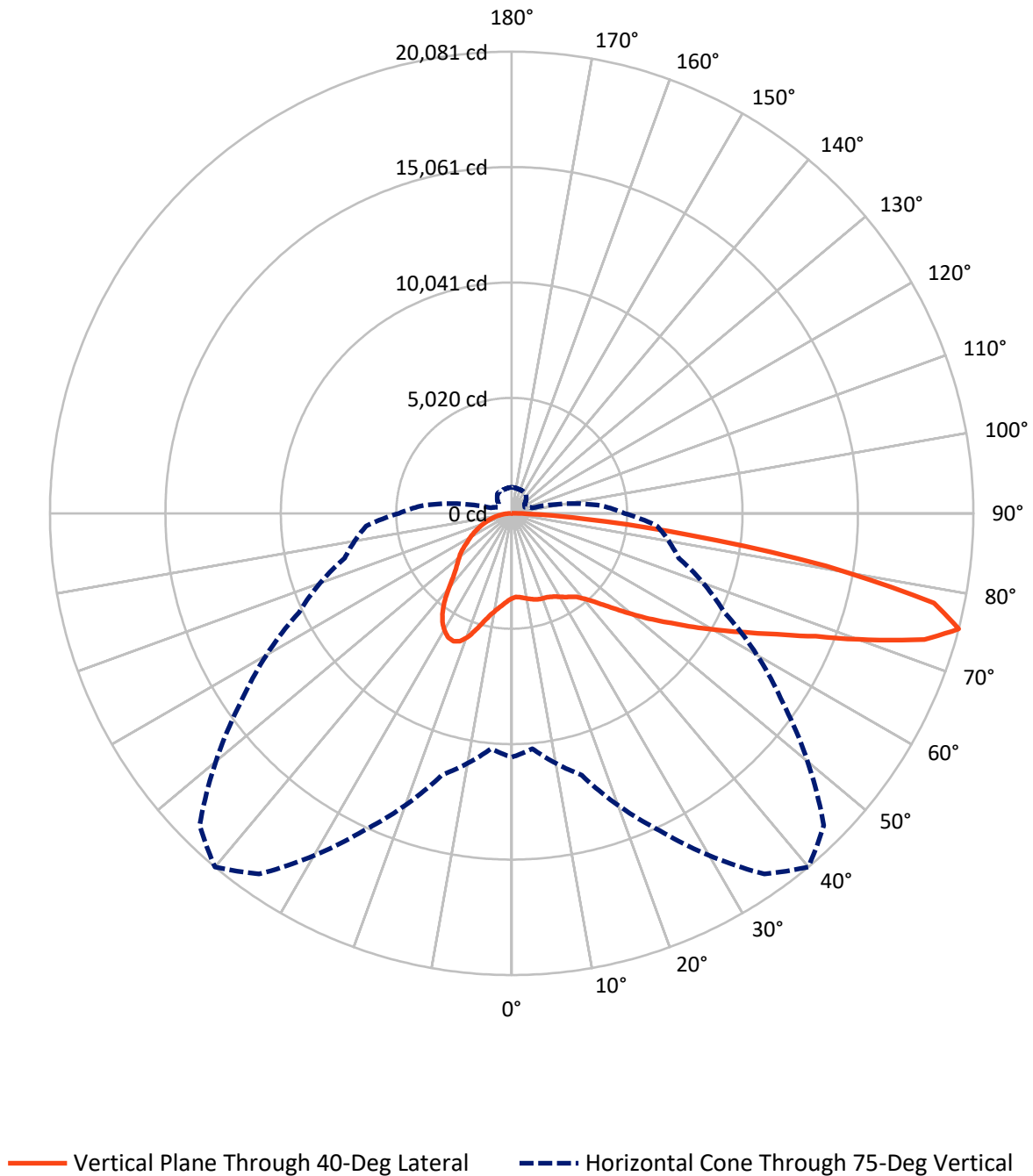
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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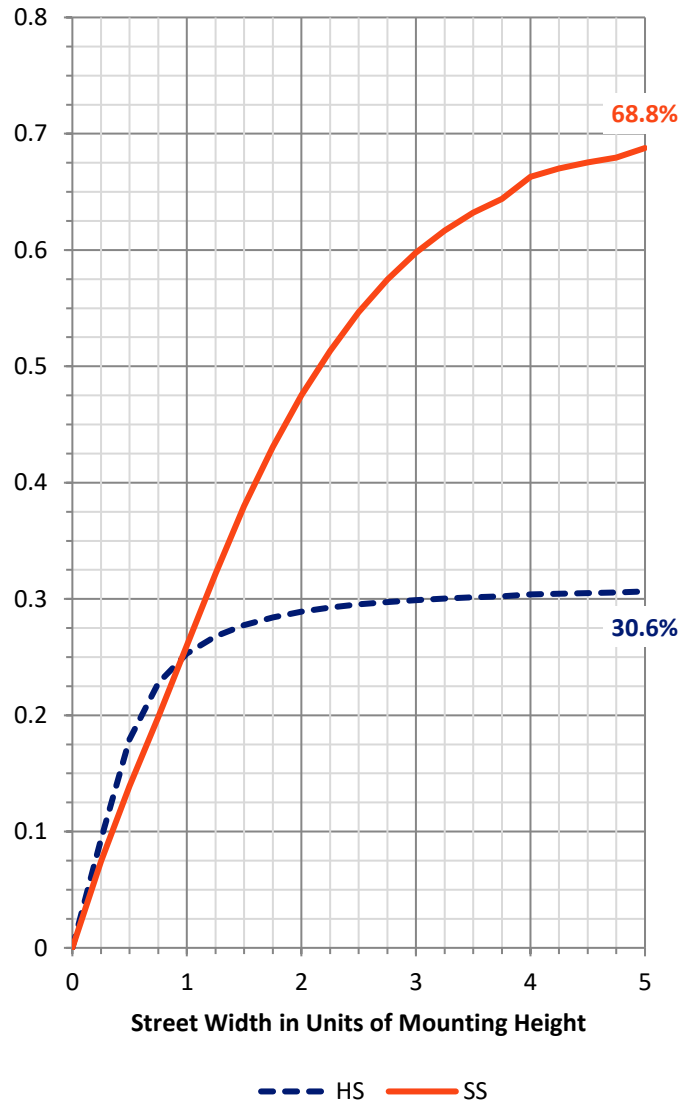
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9996.4	0.0	9996.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	22267.5	0.0	22267.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	32263.9	0.0	32263.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	1.1
10°-20°	1236.5	3.8
20°-30°	2257.7	7.0
30°-40°	3202.0	9.9
40°-50°	4323.7	13.4
50°-60°	5816.5	18.0
60°-70°	7382.5	22.9
70°-80°	6700.1	20.8
80°-90°	976.7	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°	32263.9	100.0
0°-180°	32263.9	100.0

Coefficient of Utilization



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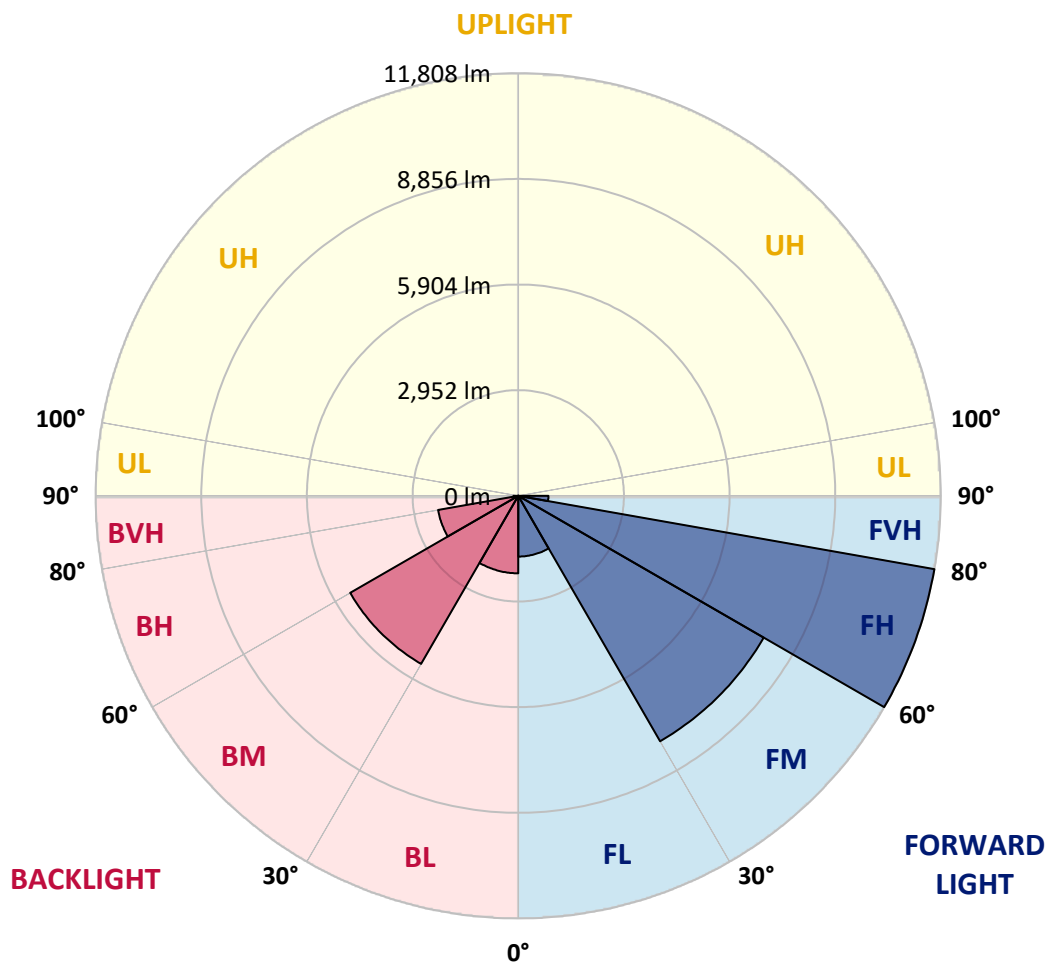
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1697.1	5.3			
FM	(30°-60°)	7920.1	24.5			
FH	(60°-80°)	11808.1	36.6			G4/12000
FVH	(80°-90°)	842.2	2.6			G5
BL	(0°-30°)	2165.3	6.7	B3/2500		
BM	(30°-60°)	5422.2	16.8	B4/8500		
BH	(60°-80°)	2274.5	7.0	B3/2500		G3/2500
BVH	(80°-90°)	134.5	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°	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4
2.5°	3632.9	3653.5	3648.4	3641.5	3641.5	3643.3	3641.5	3653.5	3665.5	3677.5	3696.3
5°	3670.6	3691.1	3680.9	3672.3	3665.5	3663.8	3658.6	3656.9	3663.8	3679.1	3704.9
7.5°	3744.2	3764.7	3749.3	3733.9	3720.2	3713.4	3706.5	3696.3	3691.1	3699.7	3735.6
10°	3826.3	3846.8	3828.1	3800.7	3778.5	3769.8	3763.0	3752.7	3745.9	3751.0	3790.3
12.5°	3908.4	3929.0	3903.3	3865.7	3836.6	3831.4	3822.9	3819.5	3817.7	3816.1	3855.4
15°	3985.5	4002.6	3970.0	3925.5	3894.8	3886.2	3877.7	3882.8	3891.3	3901.7	3946.1
17.5°	4045.4	4062.5	4014.5	3956.4	3927.3	3923.9	3918.7	3935.8	3959.8	3985.5	4040.2
20°	4100.1	4117.2	4055.6	3976.9	3942.7	3942.7	3944.4	3980.4	4014.5	4052.2	4127.5
22.5°	4177.1	4190.8	4115.5	4007.7	3958.0	3961.5	3975.2	4011.1	4053.9	4105.2	4209.7
25°	4291.8	4302.0	4209.7	4065.9	4009.4	4019.6	4031.6	4048.7	4089.9	4149.7	4290.0
27.5°	4476.6	4485.2	4363.6	4168.6	4083.0	4100.1	4117.2	4105.2	4124.1	4175.4	4355.1
30°	4736.7	4741.9	4587.8	4329.4	4207.9	4216.4	4219.9	4170.3	4134.3	4175.4	4401.2
32.5°	5044.7	5043.0	4859.9	4524.6	4350.0	4341.4	4312.3	4214.8	4131.0	4166.8	4442.3
35°	5522.2	5503.3	5267.2	4798.3	4510.8	4457.7	4389.4	4264.4	4148.1	4158.3	4478.3
37.5°	6312.8	6254.5	5927.7	5246.7	4750.4	4615.2	4514.2	4344.9	4185.7	4154.8	4521.1
40°	7204.3	7130.7	6771.4	5861.0	5109.7	4892.4	4729.9	4459.5	4247.3	4170.3	4584.4
42.5°	8261.8	8157.5	7770.7	6584.8	5564.9	5250.0	5005.4	4604.9	4338.0	4219.9	4670.0
45°	9560.7	9422.1	8874.4	7401.1	6138.2	5719.0	5392.1	4825.7	4476.6	4315.8	4798.3
47.5°	10873.2	10907.4	10128.8	8335.4	6826.1	6297.4	5876.4	5157.7	4678.5	4469.7	5005.4
50°	12267.8	12291.8	11376.3	9370.8	7606.4	6951.0	6420.6	5529.0	4959.2	4688.8	5315.1
52.5°	13356.2	13359.6	12509.1	10454.0	8419.2	7669.8	7007.5	5953.4	5284.3	4979.7	5727.5
55°	14037.3	14028.7	13303.2	11479.0	9353.6	8424.4	7657.8	6436.0	5681.3	5321.9	6246.0
57.5°	14531.8	14506.1	13850.7	12360.3	10349.5	9315.9	8393.6	6983.5	6150.2	5729.2	6928.8
60°	14720.0	14704.6	14222.1	13121.7	11396.9	10301.7	9242.4	7596.2	6682.4	6210.1	7806.6
62.5°	14791.9	14821.0	14586.6	13859.3	12517.7	11393.4	10175.0	8328.5	7281.3	6754.2	8732.4
65°	15045.2	15098.2	15050.3	14824.5	13784.0	12671.7	11412.2	9199.6	7935.0	7337.8	9699.3
67.5°	15546.6	15599.6	15620.2	15979.5	15330.9	14264.8	12955.8	10284.5	8699.9	7943.5	10426.5
70°	15534.6	15519.2	15882.0	16898.5	17268.1	16470.6	15036.6	11619.3	9612.0	8446.6	10519.0
72.5°	14140.0	14016.8	14874.1	16888.2	18880.1	18774.0	17577.8	13340.8	10399.1	8508.2	9127.7
75°	10607.9	10279.4	11793.9	15219.7	19148.7	20081.4	19193.2	14408.6	10212.7	7517.5	6352.1
77.5°	4536.4	4206.2	5991.0	11266.8	17138.0	18772.3	17711.3	12570.7	8152.3	4971.1	3119.6
80°	1187.6	1185.9	1810.5	5108.1	11655.2	13862.7	12161.7	8118.1	4658.0	1776.2	860.8
82.5°	491.1	479.2	665.6	1986.8	5695.0	7779.2	6348.6	3621.0	1682.1	480.8	285.8
85°	183.1	181.4	323.4	686.2	2009.0	3208.6	2322.1	925.8	419.2	234.4	128.3
87.5°	51.4	49.6	70.1	237.9	489.4	742.7	397.0	152.3	118.1	92.5	37.6
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°	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4	3689.4
2.5°	3701.4	3710.0	3725.4	3737.4	3752.7	3769.8	3793.8	3809.2	3824.6	3834.8	3828.1
5°	3716.8	3735.6	3775.0	3814.3	3860.6	3903.3	3952.9	3988.9	4018.0	4026.5	4030.0
7.5°	3751.0	3781.8	3848.6	3915.3	3988.9	4059.0	4131.0	4192.6	4242.2	4260.9	4262.7
10°	3811.0	3852.0	3946.1	4040.2	4137.7	4245.5	4338.0	4427.0	4497.1	4526.2	4527.9
12.5°	3886.2	3937.5	4060.7	4190.8	4326.0	4474.8	4594.7	4704.1	4791.5	4830.8	4830.8
15°	3983.8	4050.5	4207.9	4382.5	4580.9	4788.1	4940.3	5061.9	5159.3	5207.3	5203.8
17.5°	4089.9	4178.8	4377.4	4640.9	4924.9	5197.1	5375.0	5464.0	5564.9	5611.2	5609.4
20°	4192.6	4302.0	4586.2	4969.4	5347.6	5636.8	5780.6	5804.5	5811.3	5816.5	5830.2
22.5°	4298.6	4445.8	4847.9	5383.5	5789.1	5989.3	6009.9	5907.2	5763.5	5696.7	5715.5
25°	4415.0	4610.0	5190.2	5840.4	6169.0	6192.9	6035.5	5785.7	5513.6	5388.6	5407.5
27.5°	4527.9	4800.0	5600.9	6276.8	6442.8	6232.3	5893.4	5539.3	5210.7	5079.0	5094.4
30°	4640.9	5017.4	6054.4	6658.4	6567.7	6134.7	5669.3	5274.0	4943.8	4805.1	4820.6
32.5°	4755.5	5270.7	6576.3	6933.9	6545.4	5927.7	5390.4	4976.3	4685.4	4539.9	4558.7
35°	4885.6	5582.0	7070.9	7084.5	6396.6	5623.2	5022.5	4620.3	4367.1	4250.7	4276.4
37.5°	5055.0	5977.4	7507.2	7122.1	6136.5	5176.5	4565.6	4199.3	3990.6	3937.5	3975.2
40°	5265.4	6453.1	7840.8	7062.2	5751.5	4634.0	4065.9	3773.2	3655.2	3667.1	3708.2
42.5°	5539.3	6985.3	8075.4	6908.3	5215.8	4074.5	3627.8	3497.8	3554.2	3602.2	3646.6
45°	5895.2	7538.0	8220.8	6646.4	4610.0	3600.4	3369.4	3400.2	3443.0	3448.1	3482.3
47.5°	6350.4	8097.6	8316.6	6251.2	3992.3	3266.8	3205.2	3211.9	3203.4	3167.5	3194.9
50°	6918.5	8641.8	8402.1	5727.5	3467.0	3058.0	2975.9	2951.9	2833.8	2717.5	2732.9
52.5°	7565.3	9141.5	8438.1	5077.2	3058.0	2883.4	2750.0	2599.4	2378.6	2342.6	2354.6
55°	8284.0	9603.4	8345.7	4278.0	2714.0	2659.3	2457.3	2275.9	2252.0	2221.2	2226.3
57.5°	9143.1	10101.4	8157.5	3386.5	2361.5	2397.5	2200.7	2221.2	2178.4	2130.5	2122.0
60°	10082.6	10616.5	7827.2	2573.7	1997.0	2070.6	2133.9	2132.2	2120.2	2080.9	2067.2
62.5°	10927.9	10955.3	7176.9	1971.4	1677.0	1817.3	1990.1	1988.5	1978.1	1955.9	1947.4
65°	11431.0	10903.9	6092.0	1552.1	1413.5	1608.5	1795.1	1808.8	1810.5	1808.8	1808.8
67.5°	11342.0	10303.3	4603.2	1235.5	1196.2	1396.4	1601.7	1620.5	1634.3	1637.6	1641.0
70°	10335.9	8984.0	3001.5	985.6	1002.8	1209.8	1418.6	1437.5	1449.5	1463.1	1470.0
72.5°	8056.5	6605.4	1718.1	797.4	833.3	1049.0	1237.2	1259.5	1266.3	1292.0	1302.3
75°	4909.5	3884.5	927.5	628.0	684.5	896.7	1057.5	1083.2	1095.2	1126.0	1129.4
77.5°	2334.1	1682.1	528.8	489.4	551.0	732.4	893.3	922.4	889.8	906.9	893.3
80°	788.8	624.6	333.7	373.1	421.0	571.5	715.3	744.4	676.0	672.5	665.6
82.5°	275.5	253.3	212.2	248.2	272.1	409.0	540.8	578.4	503.1	501.4	477.4
85°	107.8	102.7	118.1	135.2	162.6	251.5	356.0	374.7	309.8	249.8	246.4
87.5°	22.2	24.0	29.1	30.9	49.6	87.2	128.3	157.4	124.9	106.1	97.6
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)