

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: P970924

Luminaire Tested: **NAV-SB6C-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50161.4 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 300.9
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

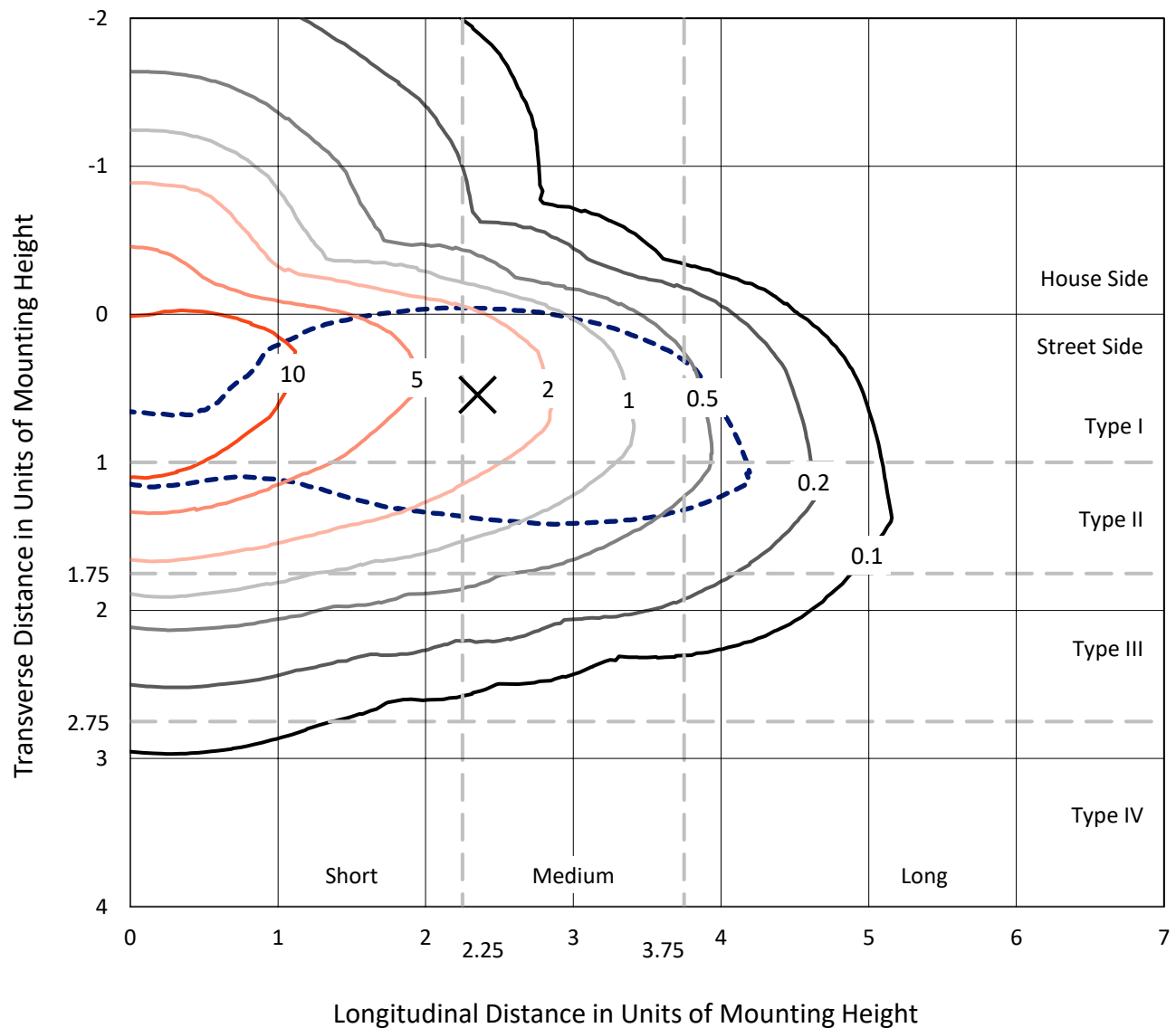


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Iso-Footcandle Lines of Horizontal Illumination

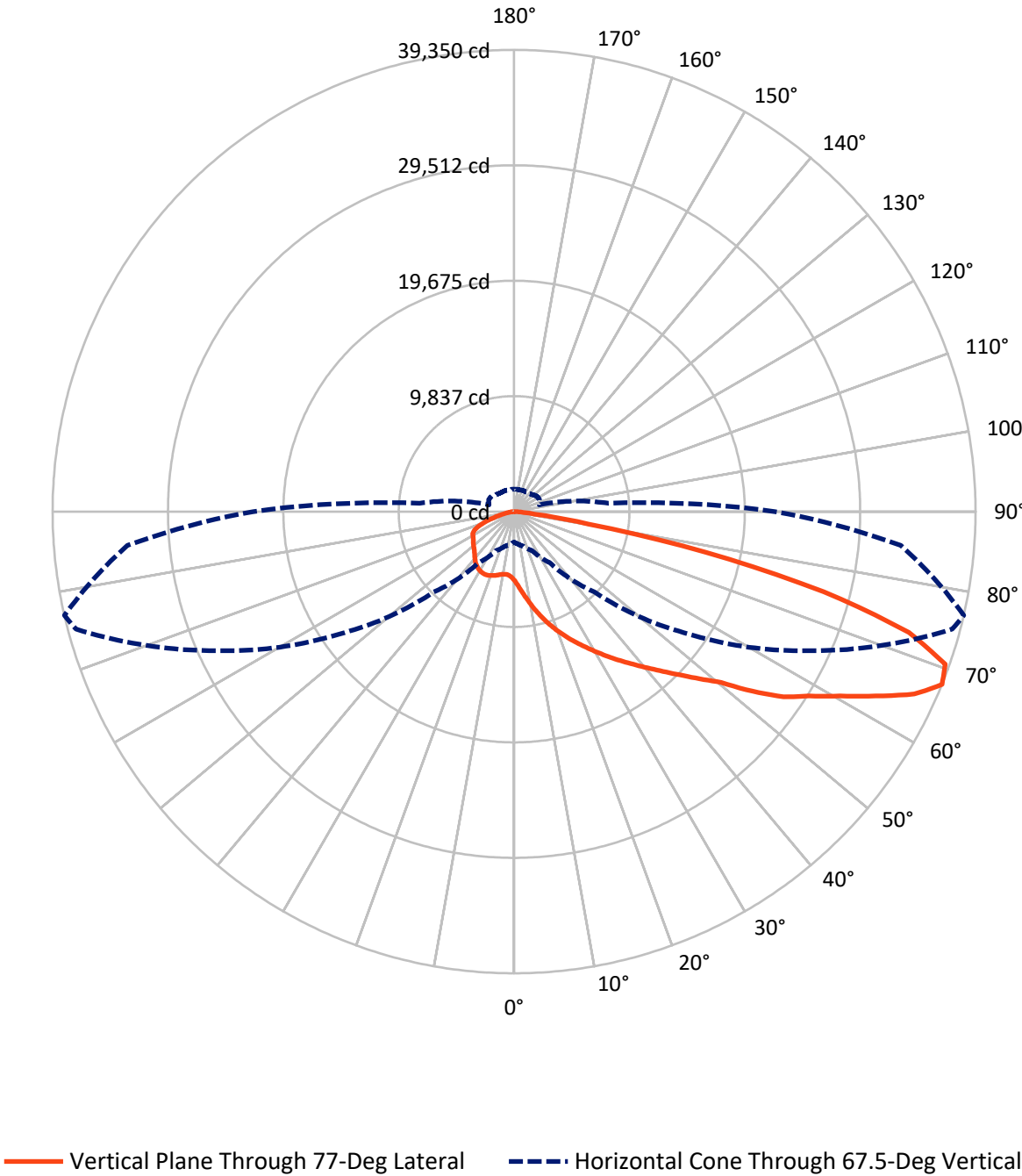
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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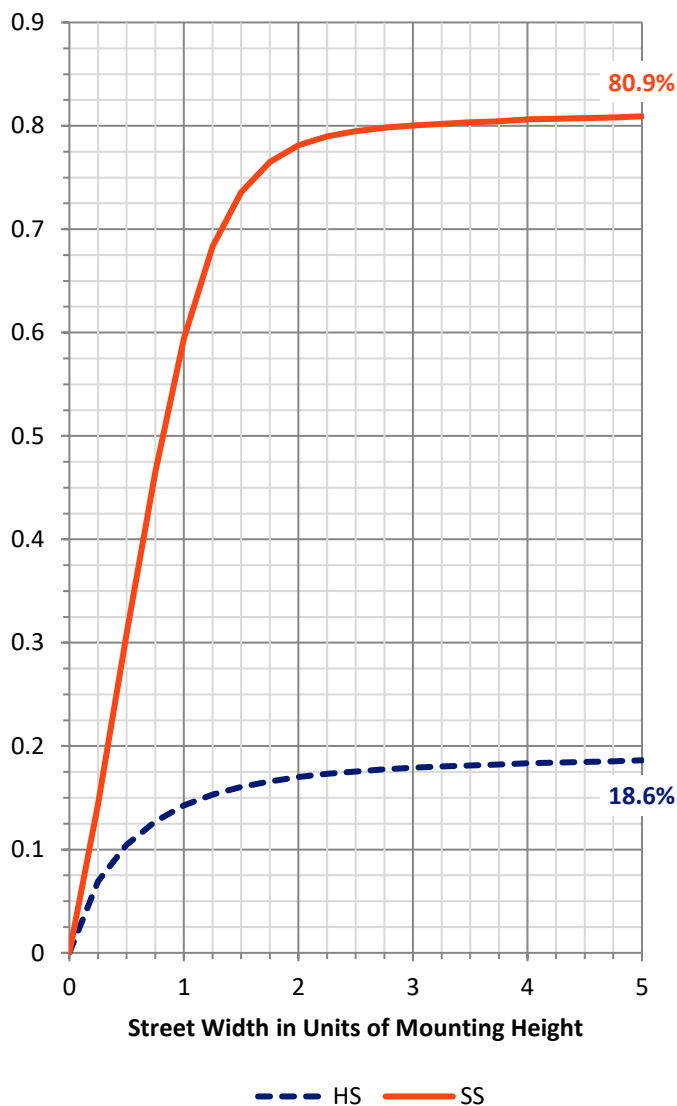
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9488.5	0.0	9488.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	40672.9	0.0	40672.9
	% Fixture	81.1	0.0	81.1
Total	Lumens	50161.4	0.0	50161.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.8	1.3
10°-20°	2266.4	4.5
20°-30°	4279.1	8.5
30°-40°	6893.6	13.7
40°-50°	9429.2	18.8
50°-60°	10636.2	21.2
60°-70°	9927.6	19.8
70°-80°	5442.0	10.8
80°-90°	656.4	1.3
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°	50161.4	100.0
0°-180°	50161.4	100.0

Coefficient of Utilization



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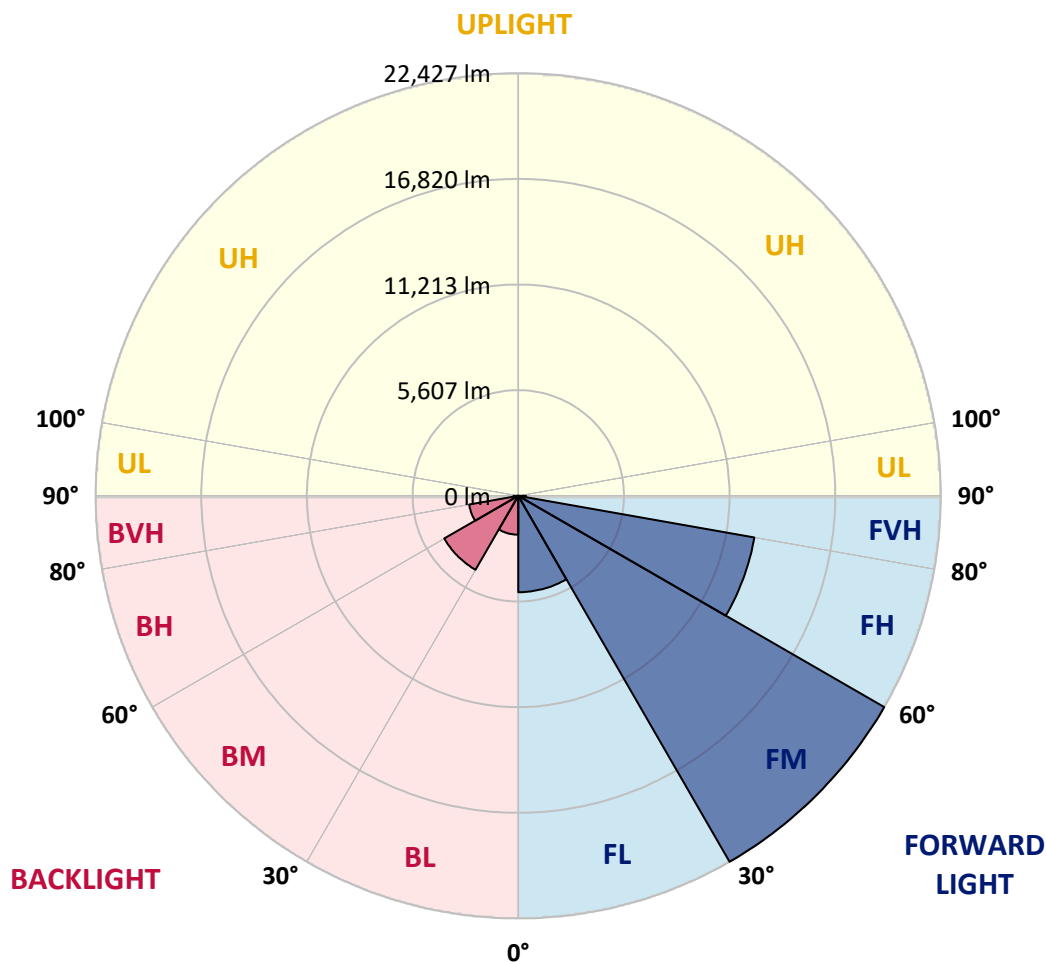
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5113.3	10.2			
FM	(30°-60°)	22426.6	44.7			
FH	(60°-80°)	12722.4	25.4			G5
FVH	(80°-90°)	410.5	0.8			G3/500
BL	(0°-30°)	2063.0	4.1	B3/2500		
BM	(30°-60°)	4532.4	9.0	B3/5000		
BH	(60°-80°)	2647.2	5.3	B4/5000		G4/5000
BVH	(80°-90°)	245.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4
2.5°	7369.1	7421.0	7356.2	7356.2	7138.7	7024.8	6807.3	6641.6	6343.8	6292.1	6095.3
5°	8710.4	8775.1	8684.5	8645.7	8389.3	8153.8	7788.7	7428.7	6897.9	6843.5	6380.0
7.5°	9748.8	9831.6	9751.3	9709.9	9482.1	9217.9	8790.7	8288.4	7540.1	7433.9	6763.3
10°	10595.4	10608.4	10582.5	10598.0	10419.3	10201.8	9764.3	9179.1	8244.4	8099.3	7226.8
12.5°	11074.5	11134.1	11185.8	11279.0	11247.9	11113.4	10719.8	10020.6	8990.1	8803.6	7731.7
15°	11299.7	11403.3	11519.9	11734.7	11908.2	11941.9	11641.5	10924.2	9748.8	9523.5	8241.7
17.5°	11380.0	11478.4	11662.2	11972.9	12345.8	12596.9	12462.4	11802.1	10499.7	10240.7	8777.8
20°	11786.6	11815.0	11926.4	12221.5	12625.4	13042.3	13143.4	12646.1	11242.8	10950.2	9331.9
22.5°	12656.5	12599.6	12630.7	12765.2	13055.3	13459.2	13689.7	13391.9	12006.6	11670.0	9891.1
25°	14093.6	13927.9	13762.2	13606.8	13754.4	13982.2	14243.8	14137.6	12806.8	12379.4	10455.6
27.5°	15908.7	15706.7	15341.7	14831.5	14652.9	14733.1	14849.7	14829.0	13547.2	13114.9	11038.2
30°	17695.3	17459.7	17024.7	16286.7	15815.4	15603.2	15515.1	15455.6	14352.6	13891.6	11626.0
32.5°	19122.0	18935.6	18508.3	17682.4	16998.8	16636.3	16343.7	16131.3	15194.1	14733.1	12247.4
35°	20370.1	20196.6	19707.3	18806.2	18063.0	17677.3	17294.0	16840.9	16069.2	15603.2	12915.5
37.5°	21509.4	21335.9	20665.2	19728.0	18979.6	18712.9	18371.2	17602.1	16947.0	16506.8	13622.4
40°	22229.2	22190.3	21563.7	20502.2	19725.3	19593.3	19479.4	18485.1	17920.6	17511.5	14399.1
42.5°	22413.1	22498.5	22001.3	21128.7	20388.2	20282.1	20548.8	19484.5	19013.2	18622.3	15279.5
45°	21970.3	22216.3	21890.0	21297.0	20859.5	20802.5	21496.4	20577.2	20222.5	19865.2	16341.2
47.5°	20849.1	21266.0	21131.3	21048.5	20986.4	21232.4	22330.2	21737.3	21592.2	21281.6	17552.9
50°	18586.0	19375.8	19611.4	20134.5	20735.1	21566.3	23088.8	23003.5	23192.5	22879.1	19028.8
52.5°	14673.6	15761.1	17128.3	18438.4	19963.5	21455.0	23922.6	24821.1	25618.6	25447.7	21374.7
55°	12112.7	12602.2	13653.4	16056.3	18466.9	20986.4	24298.0	26289.2	28026.7	27873.8	23153.6
57.5°	10144.9	10582.5	11229.8	13236.5	16203.9	19922.1	24531.1	27185.2	29676.0	29660.5	24909.1
60°	8034.7	8498.1	9160.9	10582.5	13560.2	18083.8	24479.4	28205.3	31781.2	31910.6	27050.5
62.5°	5652.5	6162.5	6897.9	8223.7	10859.6	15701.6	23422.9	28943.2	34259.1	34611.3	29626.9
65°	3715.6	4052.2	4606.3	5750.9	8091.6	12638.5	21405.8	29039.1	36910.6	37506.1	32045.3
67.5°	2604.8	2734.3	3060.5	3682.0	5334.0	9691.8	18192.5	28047.4	38679.1	39349.8	33094.0
70°	2032.6	2097.4	2263.1	2511.7	3350.5	6517.3	13940.8	25468.4	38301.1	39000.1	31998.7
72.5°	1755.5	1817.7	1879.8	1910.9	2247.5	4023.7	9443.2	21294.5	34740.7	35214.6	27822.1
75°	1592.4	1607.9	1659.8	1649.4	1714.1	2610.1	5450.5	15515.1	27410.4	27247.3	20538.4
77.5°	1338.6	1359.4	1444.8	1431.9	1522.5	1784.0	2830.1	10012.8	17770.4	16662.2	11431.8
80°	1134.2	1144.5	1237.7	1222.1	1323.2	1292.1	1444.8	5103.5	7537.4	6385.2	3296.2
82.5°	393.6	486.8	945.0	973.5	1009.8	782.0	833.7	2081.8	2301.9	1763.3	691.4
85°	191.6	204.6	481.6	683.6	681.0	393.6	406.5	743.1	725.0	569.7	230.4
87.5°	31.1	38.8	57.0	266.7	212.3	103.5	139.8	145.0	150.2	129.5	51.8
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°	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4	5885.4
2.5°	5950.2	5820.8	5548.8	5297.7	5100.9	4911.9	4805.7	4715.1	4663.3	4653.0	4653.0
5°	6110.7	5844.0	5349.5	4932.6	4660.8	4458.8	4352.7	4285.3	4251.6	4230.9	4228.3
7.5°	6341.3	5950.2	5246.0	4772.1	4487.2	4342.3	4287.9	4277.5	4275.0	4277.5	4285.3
10°	6659.7	6123.8	5235.6	4733.2	4495.0	4414.8	4412.2	4414.8	4425.1	4427.7	4430.3
12.5°	7004.0	6302.4	5277.0	4766.9	4593.4	4549.5	4541.7	4539.0	4546.8	4552.0	4554.6
15°	7379.5	6538.0	5346.9	4839.4	4702.2	4655.5	4647.8	4632.3	4629.7	4627.1	4624.5
17.5°	7765.3	6771.0	5424.6	4917.1	4772.1	4707.3	4678.9	4642.6	4614.1	4606.3	4614.1
20°	8156.3	7001.5	5478.9	4956.0	4777.3	4686.6	4629.7	4567.5	4518.3	4489.9	4500.3
22.5°	8573.2	7242.3	5512.7	4945.6	4730.7	4606.3	4502.8	4430.3	4355.2	4306.0	4308.6
25°	8979.7	7452.1	5510.1	4891.2	4640.1	4482.1	4350.0	4256.8	4153.3	4101.4	4101.4
27.5°	9370.8	7641.1	5445.3	4795.4	4510.6	4334.5	4176.6	4065.3	3964.2	3915.0	3912.4
30°	9774.6	7799.0	5344.3	4655.5	4357.8	4163.7	3990.1	3894.3	3803.7	3757.0	3754.5
32.5°	10176.0	7944.0	5201.9	4482.1	4181.7	3995.3	3824.4	3736.3	3682.0	3682.0	3684.6
35°	10600.7	8045.0	5012.9	4280.1	3995.3	3816.7	3682.0	3630.2	3625.0	3594.0	3586.2
37.5°	11048.6	8109.7	4782.4	4072.9	3811.5	3643.2	3601.7	3539.6	3487.8	3420.4	3410.1
40°	11519.9	8174.5	4505.4	3858.1	3617.2	3524.1	3505.9	3423.1	3275.5	3109.7	3086.5
42.5°	12092.0	8218.4	4218.0	3643.2	3412.7	3381.7	3407.5	3265.1	3029.5	2905.2	2907.8
45°	12754.9	8290.9	3953.8	3430.9	3203.0	3203.0	3311.8	3125.3	2931.1	2853.4	2866.4
47.5°	13614.6	8459.2	3707.9	3197.8	3008.8	3060.5	3099.4	2957.0	2848.3	2752.4	2749.9
50°	14857.5	8863.2	3454.1	2962.1	2861.2	2964.7	2910.4	2827.6	2700.7	2623.0	2615.2
52.5°	16400.7	9101.4	3228.9	2749.9	2734.3	2837.9	2760.2	2682.5	2586.7	2483.2	2462.5
55°	17452.0	9145.5	3039.8	2594.5	2648.9	2638.6	2610.1	2540.2	2488.3	2351.0	2353.7
57.5°	18627.5	9233.5	2884.5	2501.3	2594.5	2480.6	2470.2	2410.6	2343.4	2250.1	2219.0
60°	20033.5	9370.8	2749.9	2465.0	2547.8	2377.0	2325.2	2301.9	2234.6	2188.0	2200.9
62.5°	21566.3	9495.0	2612.6	2470.2	2493.5	2276.0	2198.3	2190.5	2149.1	2133.6	2133.6
65°	22612.4	9155.8	2441.8	2465.0	2408.0	2172.4	2074.0	2071.4	2037.8	2032.6	2030.0
67.5°	22247.3	8081.2	2211.2	2392.6	2320.0	2068.9	1960.1	1949.8	1905.7	1908.3	1908.3
70°	20419.2	6548.3	1892.8	2213.9	2211.2	1975.7	1841.0	1807.4	1747.8	1758.2	1768.5
72.5°	16991.0	4852.3	1465.5	1916.1	2037.8	1890.2	1703.8	1649.4	1574.3	1584.6	1582.1
75°	12270.7	3298.8	1066.8	1457.8	1773.7	1789.2	1569.1	1475.9	1385.3	1400.8	1406.0
77.5°	6279.0	1869.5	784.5	1004.6	1393.1	1626.1	1447.4	1323.2	1302.5	1447.4	1426.7
80°	2048.2	937.4	543.8	704.3	914.0	1330.9	1268.7	1126.4	1121.1	1154.9	991.7
82.5°	611.1	396.2	349.5	463.5	504.9	1020.2	1095.3	851.9	732.8	771.6	797.6
85°	209.7	191.6	199.4	230.4	240.8	598.1	766.4	564.5	533.4	587.7	580.0
87.5°	49.2	67.3	57.0	51.8	51.8	145.0	297.8	235.6	326.3	217.5	209.7
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)