

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: P969904

Luminaire Tested: **NAV-SB6A-750-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-750-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29227.9 lumens
Efficiency: N/A
Efficacy: 171.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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



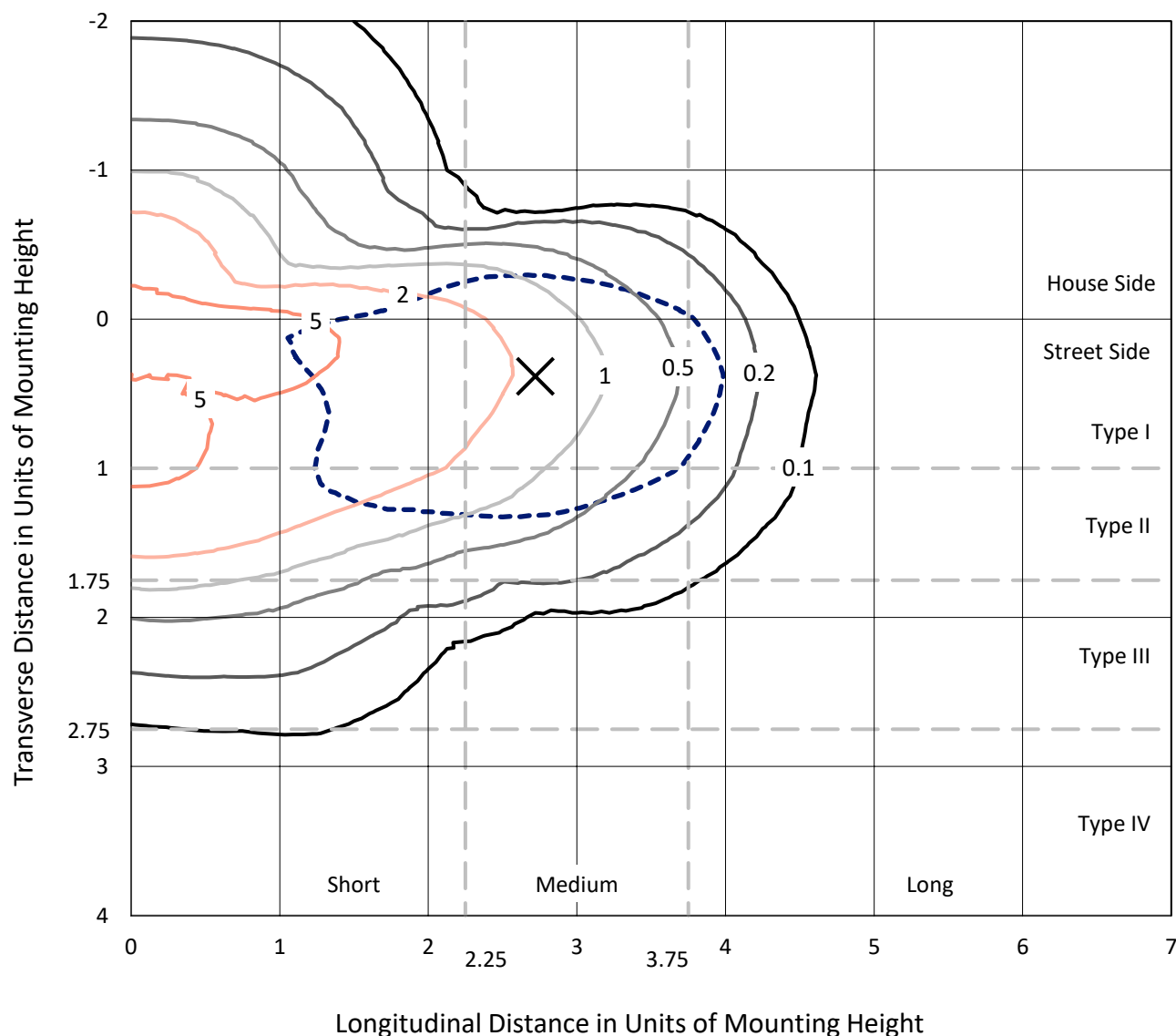
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

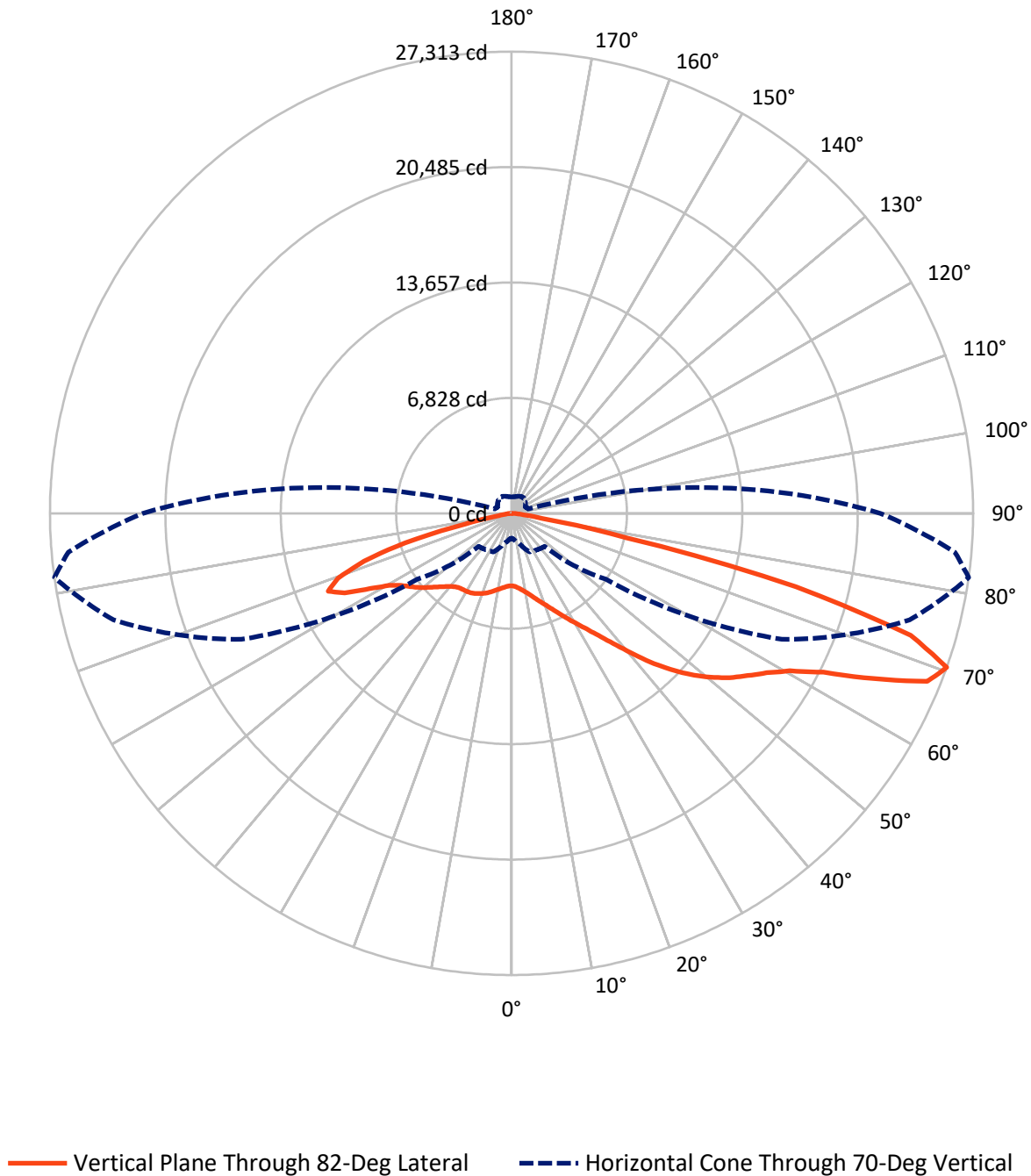
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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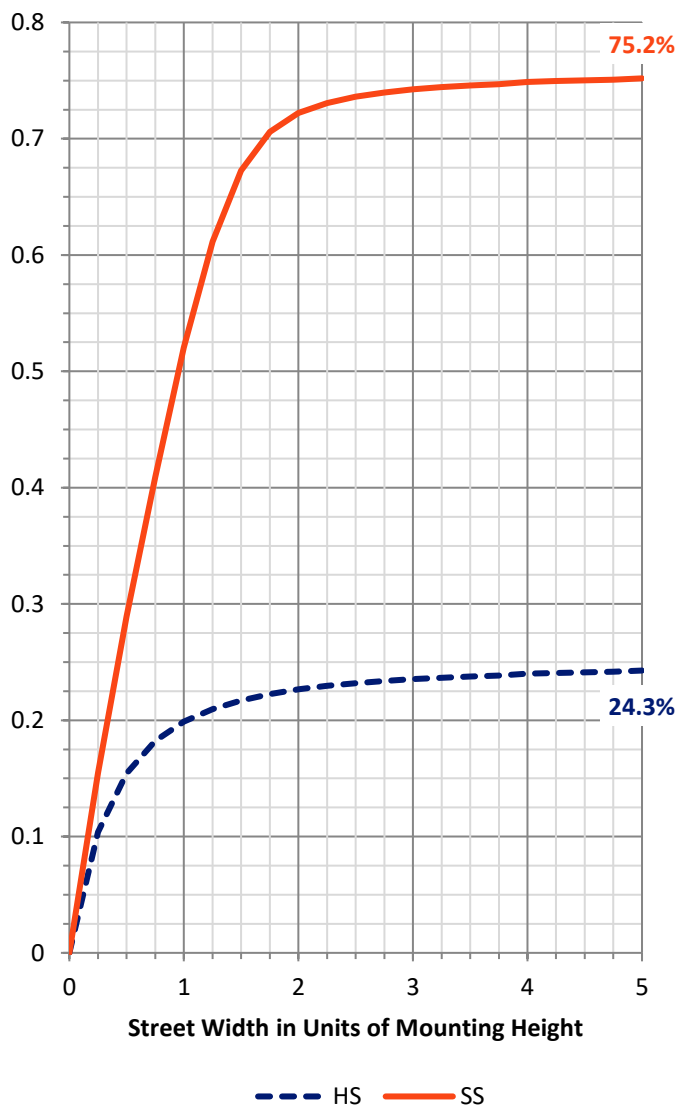
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7205.4	0.0	7205.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22022.5	0.0	22022.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	29227.9	0.0	29227.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.6	1.4
10°-20°	1162.4	4.0
20°-30°	1944.6	6.7
30°-40°	3038.0	10.4
40°-50°	4838.4	16.6
50°-60°	6733.2	23.0
60°-70°	7043.2	24.1
70°-80°	3681.2	12.6
80°-90°	382.3	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°	29227.9	100.0
0°-180°	29227.9	100.0

Coefficient of Utilization



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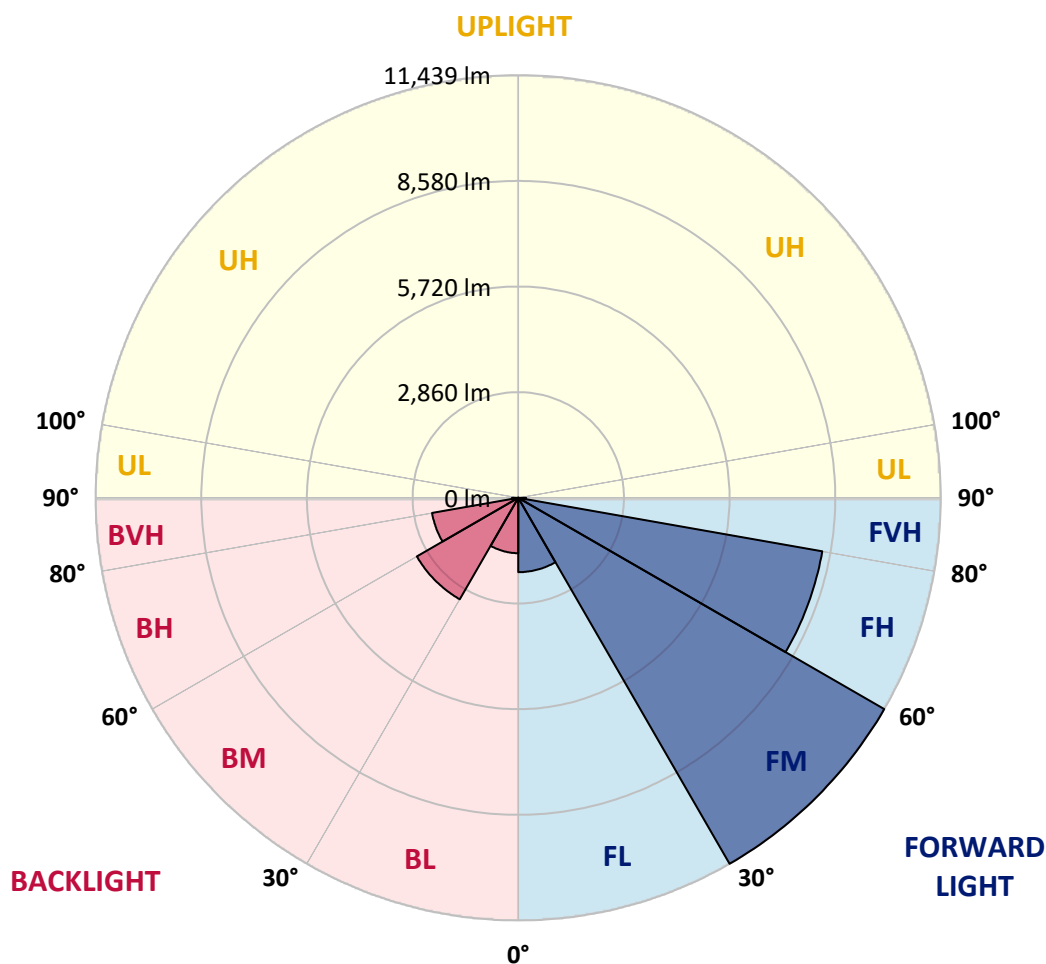
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2012.7	6.9			
FM	(30°-60°)	11439.5	39.1			
FH	(60°-80°)	8356.3	28.6			G4/12000
FVH	(80°-90°)	214.0	0.7			G2/225
BL	(0°-30°)	1499.0	5.1	B3/2500		
BM	(30°-60°)	3170.1	10.8	B3/5000		
BH	(60°-80°)	2368.1	8.1	B3/2500		G3/2500
BVH	(80°-90°)	168.3	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2
2.5°	4387.5	4412.3	4404.6	4396.8	4396.8	4386.0	4384.4	4369.0	4356.6	4336.4	4331.6
5°	4443.4	4469.7	4466.6	4472.8	4493.0	4497.6	4502.3	4493.0	4468.2	4443.4	4432.5
7.5°	4393.8	4423.2	4432.5	4469.7	4531.7	4587.6	4629.5	4646.5	4623.3	4587.6	4570.6
10°	4226.3	4258.8	4291.4	4379.8	4489.9	4621.7	4733.3	4800.1	4795.5	4761.3	4731.8
12.5°	3886.6	3920.7	3990.5	4162.6	4364.2	4596.9	4804.7	4944.3	4992.4	4967.6	4916.4
15°	3615.2	3644.7	3697.4	3874.2	4136.3	4489.9	4831.1	5102.6	5225.0	5211.1	5149.0
17.5°	3607.4	3619.8	3652.4	3736.1	3937.7	4322.4	4803.2	5257.6	5491.7	5490.2	5412.7
20°	3743.9	3748.5	3767.2	3784.2	3899.0	4195.2	4731.8	5386.3	5791.1	5791.1	5707.4
22.5°	3933.1	3930.1	3948.6	3933.1	3989.0	4184.4	4686.8	5499.5	6124.6	6149.4	6043.9
25°	4217.0	4201.4	4196.8	4161.1	4172.0	4285.2	4736.5	5628.3	6520.0	6571.2	6439.4
27.5°	4595.4	4570.6	4553.5	4471.3	4443.4	4493.0	4888.4	5783.4	6960.5	7048.9	6881.4
30°	5088.5	5043.6	5018.7	4876.0	4775.3	4783.1	5118.0	5989.6	7421.1	7563.8	7351.3
32.5°	5761.6	5691.8	5625.2	5391.0	5206.4	5145.9	5414.3	6274.9	7920.5	8148.5	7875.5
35°	6515.4	6459.5	6388.2	6026.9	5743.1	5603.5	5814.4	6673.6	8505.2	8866.6	8511.4
37.5°	7241.2	7193.1	7227.3	6740.3	6374.3	6171.1	6338.6	7208.6	9226.3	9759.8	9308.5
40°	7991.8	7954.6	7959.3	7494.0	7067.5	6839.5	6974.4	7880.2	10053.0	10822.3	10267.0
42.5°	8807.6	8779.7	8686.7	8274.1	7794.9	7582.4	7706.5	8655.6	10940.1	12032.0	11318.6
45°	9721.1	9704.1	9617.2	9144.2	8595.1	8356.3	8523.8	9511.8	11831.9	13170.3	12374.7
47.5°	10510.6	10524.5	10513.6	10115.0	9545.8	9195.4	9395.5	10405.1	12661.6	14240.5	13387.5
50°	10890.5	10963.4	11070.4	10946.4	10592.8	10236.1	10274.8	11267.4	13452.6	15243.9	14358.3
52.5°	10692.0	10830.0	11121.6	11320.1	11456.6	11382.1	11278.3	12123.5	14197.1	16149.7	15276.5
55°	9952.2	10146.1	10630.0	11109.2	11805.5	12346.8	12483.3	13072.6	14922.9	16946.8	16145.0
57.5°	8604.5	8919.3	9353.5	10322.9	11495.4	12813.6	13888.4	14389.4	15692.1	17798.3	17053.8
60°	6293.6	6715.5	7255.2	8697.5	10409.7	12563.9	15084.2	16411.8	16785.5	18901.0	18237.2
62.5°	4027.7	4288.3	4784.6	6143.1	8111.2	11284.4	15450.2	18939.7	18638.9	20709.3	20011.4
65°	2757.6	2925.0	3379.4	4142.5	5243.6	8399.8	14470.0	20835.0	21582.5	23575.4	23045.0
67.5°	2003.8	2131.0	2518.7	3187.1	3416.6	4970.6	11228.6	20748.2	24443.9	26528.3	25703.3
70°	1460.9	1550.9	1876.6	2518.7	2628.8	2765.2	6802.3	17637.0	24381.9	27313.2	26325.2
72.5°	1082.5	1144.6	1363.2	1954.2	2127.9	1867.3	3367.0	12818.3	20951.3	24704.4	23912.0
75°	783.2	829.7	991.1	1495.1	1702.9	1422.2	1679.7	7490.9	14614.2	17378.0	17517.6
77.5°	598.7	634.4	739.7	1094.9	1363.2	1067.0	1042.2	3446.2	6929.5	6963.6	7354.5
80°	480.8	504.1	561.4	770.8	1045.3	798.7	679.3	1391.1	2189.9	1853.3	1944.8
82.5°	353.6	392.4	474.6	541.3	747.5	550.5	414.1	702.5	832.8	716.5	722.7
85°	201.6	228.0	286.9	387.8	477.6	336.5	237.3	311.7	387.8	318.0	283.8
87.5°	71.3	93.1	100.9	152.0	207.9	139.6	91.5	90.0	127.2	94.6	79.1
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°	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2	4285.2
2.5°	4316.2	4308.5	4277.4	4235.5	4192.1	4150.2	4136.3	4106.9	4086.7	4075.8	4088.2
5°	4403.1	4378.2	4305.3	4212.2	4114.6	4009.1	3934.7	3866.4	3816.8	3770.3	3788.9
7.5°	4527.1	4483.7	4358.1	4195.2	4021.5	3846.3	3716.0	3616.7	3550.1	3506.6	3516.0
10°	4671.3	4604.7	4412.3	4168.9	3900.5	3649.3	3495.8	3410.5	3368.6	3345.3	3351.5
12.5°	4837.3	4742.7	4468.2	4108.4	3716.0	3429.0	3323.6	3298.8	3300.3	3301.9	3305.0
15°	5042.0	4910.2	4513.2	3976.6	3475.6	3260.0	3241.4	3281.7	3323.6	3343.8	3342.2
17.5°	5273.1	5087.0	4520.9	3759.4	3239.8	3151.5	3210.4	3297.2	3360.9	3388.8	3394.9
20°	5521.3	5266.9	4465.1	3452.3	3046.0	3063.0	3168.5	3280.2	3350.0	3385.7	3394.9
22.5°	5805.1	5459.3	4331.6	3129.7	2887.8	2966.9	3091.0	3199.5	3272.4	3308.1	3317.4
25°	6129.2	5674.8	4122.3	2858.3	2751.3	2858.3	2982.4	3072.3	3131.3	3163.9	3173.2
27.5°	6489.1	5899.7	3843.1	2642.8	2631.9	2746.7	2849.0	2918.8	2949.8	2974.7	2984.0
30°	6850.4	6104.4	3505.1	2479.9	2528.0	2636.5	2709.5	2740.4	2749.8	2754.4	2765.2
32.5°	7241.2	6281.2	3149.9	2345.0	2428.7	2529.5	2573.0	2586.9	2543.5	2514.0	2523.3
35°	7714.3	6470.4	2802.5	2238.0	2331.1	2417.9	2431.8	2419.4	2368.3	2307.8	2310.9
37.5°	8298.9	6706.2	2524.9	2161.9	2239.5	2296.9	2279.8	2276.7	2281.3	2210.0	2214.7
40°	9015.5	7013.3	2321.7	2103.0	2165.1	2177.5	2129.4	2155.8	2179.0	2070.5	2073.6
42.5°	9811.1	7383.9	2193.0	2062.7	2103.0	2073.6	1999.2	2028.6	2025.5	1882.8	1881.3
45°	10622.2	7787.1	2148.0	2033.3	2045.7	1986.8	1904.6	1912.2	1847.2	1718.4	1723.0
47.5°	11428.6	8219.9	2176.0	2008.4	1974.4	1907.6	1844.1	1809.9	1713.8	1617.6	1617.6
50°	12219.6	8674.3	2278.3	1958.8	1876.6	1837.8	1791.3	1730.8	1628.4	1546.2	1540.1
52.5°	12953.2	9131.7	2393.1	1876.6	1754.1	1777.4	1747.8	1678.1	1577.3	1493.5	1495.1
55°	13648.1	9589.3	2438.1	1763.4	1639.3	1724.7	1707.5	1578.8	1457.9	1389.6	1383.4
57.5°	14404.8	10139.9	2388.5	1619.2	1546.2	1664.1	1599.0	1456.3	1386.5	1335.4	1330.7
60°	15453.3	11003.7	2281.3	1440.8	1457.9	1574.2	1462.5	1403.5	1327.6	1270.2	1267.1
62.5°	17195.0	12615.1	2109.2	1264.0	1353.9	1440.8	1397.4	1338.4	1260.9	1205.1	1205.1
65°	19769.5	14854.6	1785.1	1126.0	1237.6	1310.6	1327.6	1268.6	1188.0	1129.0	1132.2
67.5°	21940.7	16259.8	1350.8	1011.2	1118.2	1205.1	1253.2	1195.8	1110.5	1053.1	1054.6
70°	21821.3	15239.3	1031.4	898.0	1012.7	1101.2	1163.2	1118.2	1026.7	972.4	977.0
72.5°	19381.7	12748.5	834.4	783.2	905.7	992.6	1067.0	1032.9	939.8	887.1	887.1
75°	14238.9	9049.6	666.9	666.9	772.3	879.3	961.6	939.8	854.5	817.3	806.5
77.5°	6002.0	3796.6	522.6	553.7	642.1	755.3	857.6	865.4	791.0	837.5	759.9
80°	1595.9	1046.8	398.6	435.8	504.1	623.5	746.0	742.9	662.3	618.8	575.4
82.5°	607.9	412.6	283.8	307.1	364.5	477.6	590.9	609.5	528.9	457.6	457.6
85°	234.2	176.8	175.3	184.6	212.5	316.4	446.7	462.2	398.6	338.1	348.9
87.5°	60.5	52.7	65.1	62.0	97.7	169.0	255.9	265.2	243.5	141.1	201.6
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)