

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: P971606

Luminaire Tested: **NAV-SB6D-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971606
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-SB6D-835-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59755.5 lumens
Efficiency: N/A
Efficacy: 135.8 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): 440.1
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

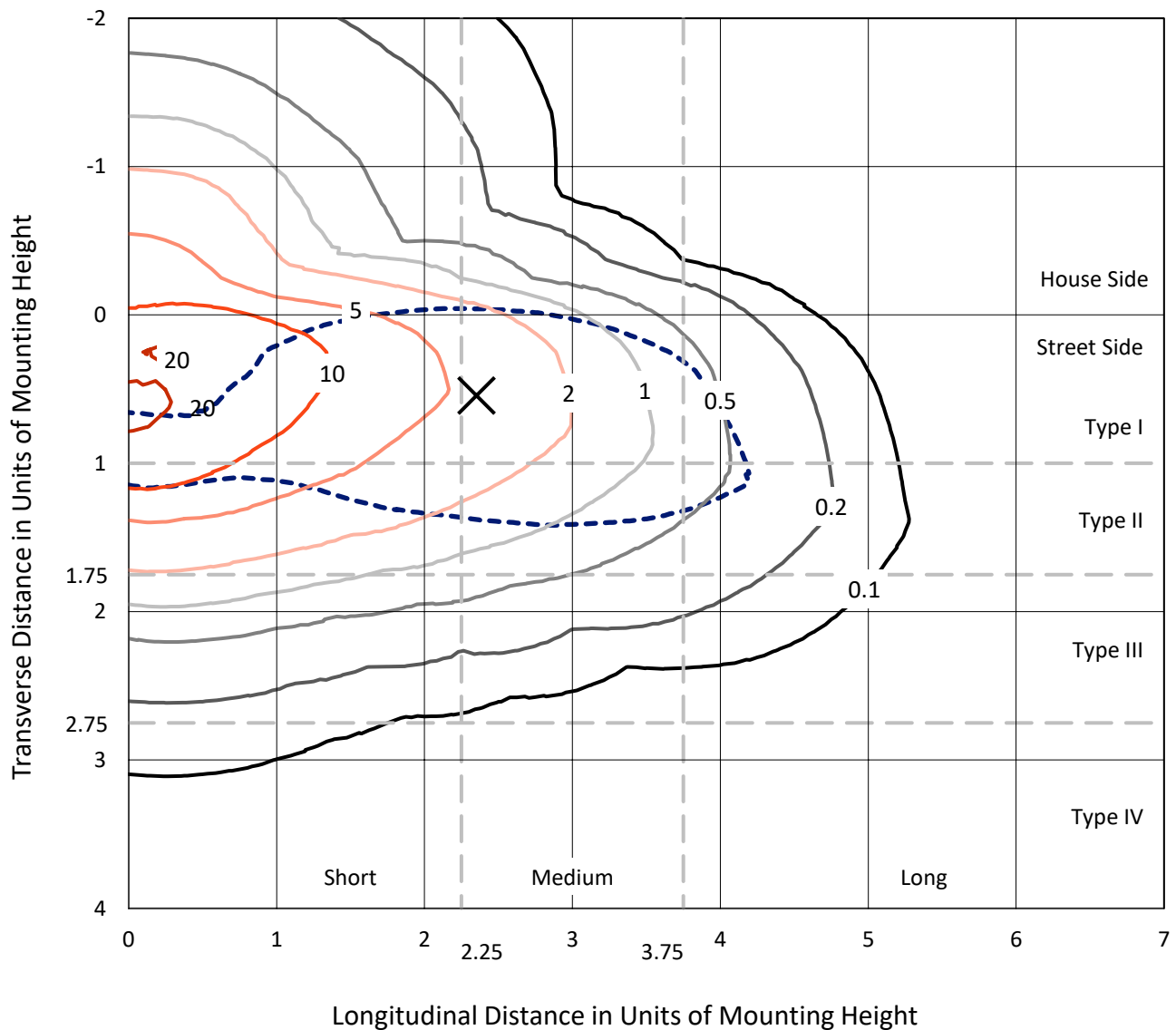


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

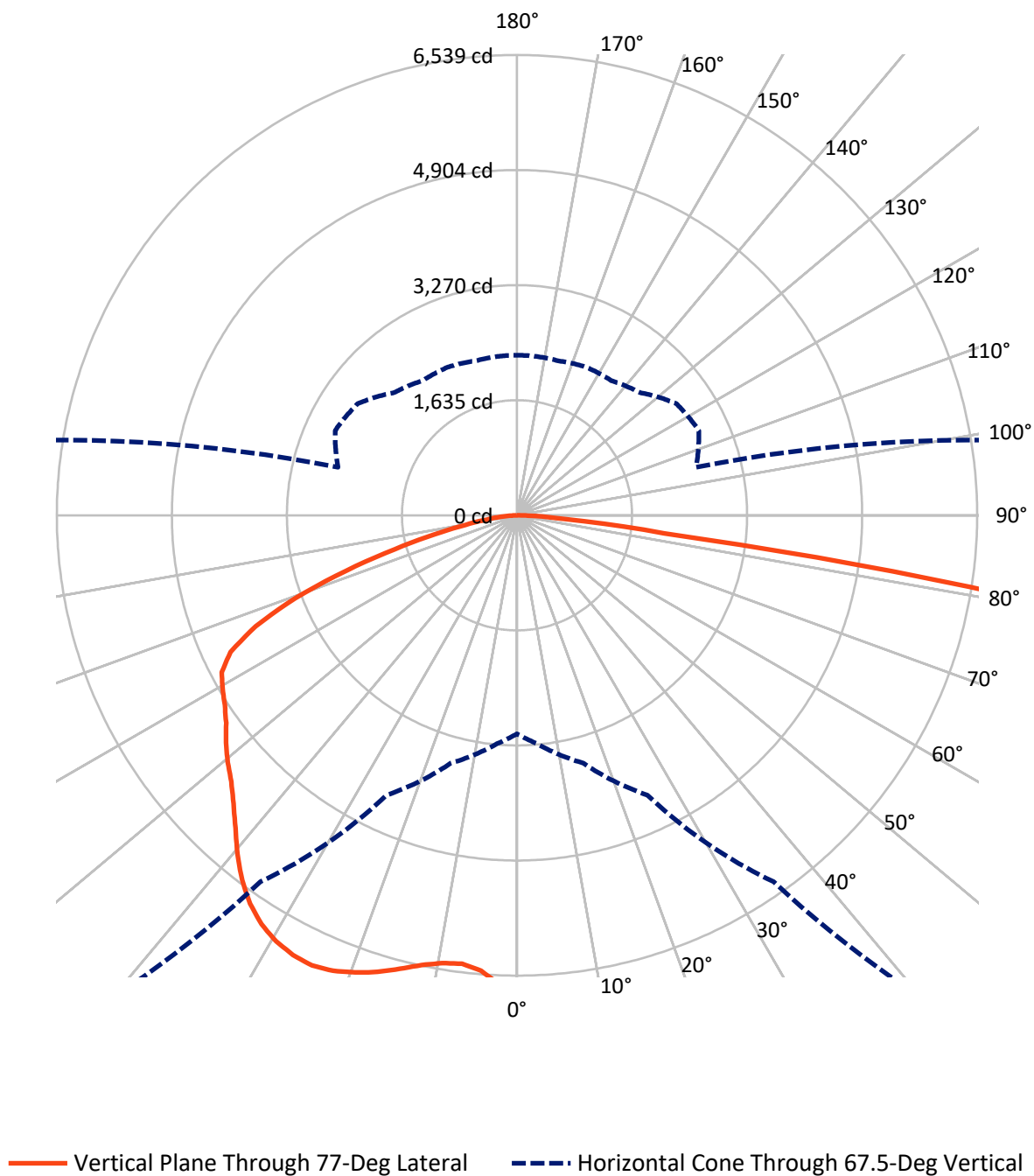


Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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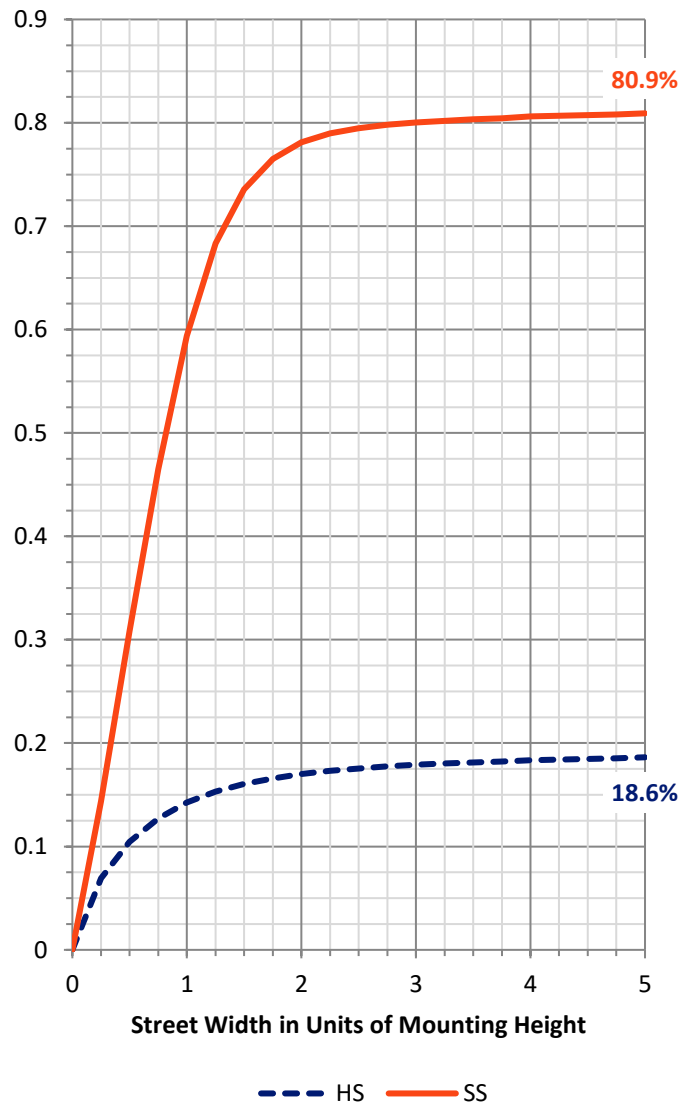
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11303.3	0.0	11303.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	48452.1	0.0	48452.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	59755.5	0.0	59755.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.5	1.3
10°-20°	2699.9	4.5
20°-30°	5097.6	8.5
30°-40°	8212.1	13.7
40°-50°	11232.7	18.8
50°-60°	12670.5	21.2
60°-70°	11826.4	19.8
70°-80°	6482.8	10.8
80°-90°	782.0	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°	59755.5	100.0
0°-180°	59755.5	100.0

Coefficient of Utilization



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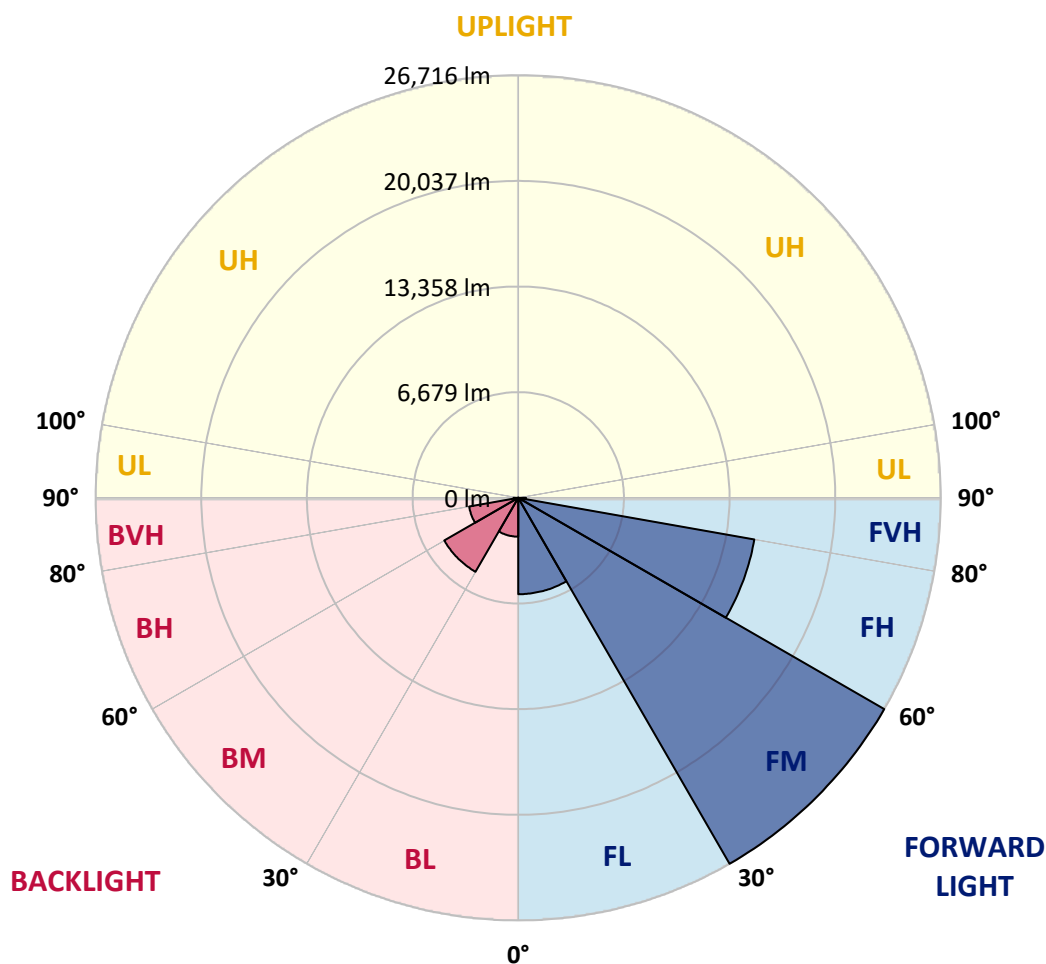
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6091.3	10.2			
FM	(30°-60°)	26716.0	44.7			
FH	(60°-80°)	15155.7	25.4			G5
FVH	(80°-90°)	489.0	0.8			G3/500
BL	(0°-30°)	2457.6	4.1	B3/2500		
BM	(30°-60°)	5399.3	9.0	B4/8500		
BH	(60°-80°)	3153.5	5.3	B4/5000		G4/5000
BVH	(80°-90°)	293.0	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°	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2
2.5°	8778.6	8840.3	8763.2	8763.2	8504.1	8368.4	8109.3	7911.9	7557.1	7495.4	7261.0
5°	10376.4	10453.6	10345.5	10299.3	9994.0	9713.2	9278.3	8849.5	8217.2	8152.4	7600.3
7.5°	11613.4	11712.1	11616.4	11567.0	11295.6	10981.0	10472.0	9873.6	8982.2	8855.7	8056.8
10°	12622.0	12637.4	12606.6	12625.0	12412.2	12153.1	11631.8	10934.7	9821.1	9648.4	8609.0
12.5°	13192.6	13263.5	13325.2	13436.3	13399.3	13238.9	12770.1	11937.2	10709.5	10487.5	9210.4
15°	13460.9	13584.3	13723.1	13979.2	14185.8	14225.9	13868.1	13013.7	11613.4	11345.0	9818.1
17.5°	13556.5	13673.8	13892.7	14263.0	14707.1	15006.3	14845.9	14059.3	12507.9	12199.3	10456.6
20°	14040.9	14074.8	14207.4	14559.1	15040.2	15536.8	15657.2	15064.9	13393.1	13044.6	11116.7
22.5°	15077.2	15009.4	15046.4	15206.8	15552.3	16033.5	16308.0	15953.3	14303.1	13902.1	11783.0
25°	16789.2	16591.8	16394.4	16209.2	16385.1	16656.6	16968.1	16841.6	15256.2	14747.2	12455.4
27.5°	18951.4	18710.9	18276.0	17668.2	17455.4	17551.1	17689.9	17665.2	16138.3	15623.3	13149.4
30°	21079.7	20799.1	20280.9	19401.8	18840.4	18587.5	18482.6	18411.7	17097.6	16548.6	13849.6
32.5°	22779.4	22557.3	22048.4	21064.4	20250.0	19818.2	19469.7	19216.7	18100.1	17551.1	14589.8
35°	24266.2	24059.4	23476.5	22403.0	21517.8	21058.2	20601.7	20061.9	19142.7	18587.5	15385.7
37.5°	25623.4	25416.6	24617.7	23501.1	22609.8	22292.0	21884.9	20968.7	20188.3	19664.0	16227.8
40°	26480.8	26434.5	25688.1	24423.4	23498.0	23340.8	23205.1	22020.6	21348.1	20860.8	17153.2
42.5°	26699.8	26801.6	26209.4	25169.9	24287.7	24161.2	24478.9	23211.2	22649.8	22184.1	18201.9
45°	26172.4	26465.4	26076.7	25370.4	24849.1	24781.2	25607.9	24512.9	24090.3	23664.6	19466.6
47.5°	24836.8	25333.4	25173.0	25074.3	25000.3	25293.3	26601.1	25894.8	25722.1	25351.8	20910.1
50°	22140.8	23081.7	23362.3	23985.4	24701.1	25691.2	27504.8	27403.1	27628.3	27255.1	22668.3
52.5°	17480.1	18775.6	20404.3	21965.0	23781.8	25558.6	28498.1	29568.5	30518.5	30314.9	25462.9
55°	14429.5	15012.5	16264.8	19127.2	21999.0	25000.3	28945.4	31317.3	33387.1	33205.1	27582.0
57.5°	12085.3	12606.6	13377.7	15768.2	19303.1	23732.4	29223.0	32384.7	35351.9	35333.5	29673.3
60°	9571.3	10123.5	10913.1	12606.6	16153.8	21542.4	29161.2	33599.9	37859.7	38014.0	32224.3
62.5°	6733.5	7341.3	8217.2	9796.5	12936.6	18704.7	27902.8	34479.1	40811.6	41231.1	35293.3
65°	4426.4	4827.3	5487.4	6850.8	9639.2	15055.7	25499.9	34593.1	43970.1	44679.6	38174.3
67.5°	3103.1	3257.2	3645.9	4386.2	6354.2	11545.5	21672.0	33411.8	46076.9	46875.8	39423.5
70°	2421.4	2498.4	2695.9	2992.0	3991.3	7763.8	16607.2	30339.6	45626.5	46459.5	38118.8
72.5°	2091.3	2165.3	2239.4	2276.4	2677.4	4793.4	11249.4	25367.3	41385.3	41949.8	33143.5
75°	1897.0	1915.5	1977.2	1964.8	2042.0	3109.2	6493.0	18482.6	32653.0	32458.7	24466.6
77.5°	1594.7	1619.4	1721.2	1705.7	1813.7	2125.2	3371.4	11927.9	21169.2	19849.0	13618.3
80°	1351.1	1363.4	1474.5	1455.9	1576.2	1539.1	1721.2	6079.7	8979.1	7606.5	3926.7
82.5°	468.8	579.9	1125.9	1159.8	1202.9	931.5	993.2	2480.0	2742.2	2100.5	823.6
85°	228.3	243.6	573.7	814.4	811.2	468.8	484.3	885.3	863.7	678.6	274.5
87.5°	37.0	46.2	67.9	317.8	253.0	123.4	166.6	172.7	178.9	154.3	61.7
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°	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2	7011.2
2.5°	7088.3	6934.0	6610.2	6311.0	6076.5	5851.4	5724.9	5617.0	5555.3	5542.9	5542.9
5°	7279.6	6961.8	6372.6	5876.0	5552.2	5311.5	5185.2	5104.9	5064.8	5040.1	5037.1
7.5°	7554.0	7088.3	6249.3	5684.9	5345.5	5172.8	5108.0	5095.7	5092.6	5095.7	5104.9
10°	7933.5	7294.9	6236.9	5638.5	5354.8	5259.2	5256.1	5259.2	5271.5	5274.5	5277.6
12.5°	8343.7	7507.8	6286.3	5678.6	5472.0	5419.6	5410.3	5407.2	5416.5	5422.7	5425.7
15°	8790.9	7788.5	6369.6	5765.0	5601.5	5546.0	5536.7	5518.3	5515.2	5512.0	5509.0
17.5°	9250.5	8066.1	6462.1	5857.6	5684.9	5607.7	5573.7	5530.6	5496.7	5487.4	5496.7
20°	9716.3	8340.6	6526.9	5903.8	5691.0	5583.1	5515.2	5441.1	5382.5	5348.6	5361.0
22.5°	10212.9	8627.4	6567.0	5891.5	5635.4	5487.4	5364.0	5277.6	5188.2	5129.6	5132.7
25°	10697.2	8877.3	6563.9	5826.7	5527.5	5339.3	5182.0	5071.0	4947.6	4886.0	4886.0
27.5°	11163.0	9102.5	6486.8	5712.5	5373.3	5163.5	4975.3	4842.7	4722.5	4663.9	4660.8
30°	11644.2	9290.6	6366.5	5546.0	5191.3	4960.0	4753.3	4639.2	4531.2	4475.7	4472.6
32.5°	12122.3	9463.4	6196.8	5339.3	4981.5	4759.5	4555.9	4451.0	4386.2	4386.2	4389.4
35°	12628.1	9583.6	5971.6	5098.8	4759.5	4546.6	4386.2	4324.6	4318.3	4281.3	4272.1
37.5°	13161.7	9660.8	5697.2	4851.9	4540.4	4340.0	4290.6	4216.5	4154.8	4074.7	4062.4
40°	13723.1	9737.9	5367.1	4596.0	4309.1	4198.1	4176.5	4077.8	3902.0	3704.6	3676.8
42.5°	14404.8	9790.4	5024.8	4340.0	4065.5	4028.5	4059.3	3889.6	3608.9	3460.8	3464.0
45°	15194.5	9876.7	4710.1	4087.0	3815.6	3815.6	3945.1	3723.0	3491.7	3399.2	3414.6
47.5°	16218.6	10077.2	4417.0	3809.4	3584.2	3645.9	3692.2	3522.5	3393.0	3278.9	3275.8
50°	17699.1	10558.4	4114.8	3528.8	3408.4	3531.8	3467.1	3368.4	3217.2	3124.6	3115.4
52.5°	19537.5	10842.1	3846.4	3275.8	3257.2	3380.7	3288.1	3195.5	3081.5	2958.0	2933.4
55°	20789.9	10894.6	3621.2	3090.7	3155.5	3143.2	3109.2	3025.9	2964.2	2800.8	2803.9
57.5°	22190.2	10999.5	3436.2	2979.7	3090.7	2955.0	2942.7	2871.7	2791.5	2680.5	2643.5
60°	23865.1	11163.0	3275.8	2936.5	3035.2	2831.6	2770.0	2742.2	2661.9	2606.5	2621.8
62.5°	25691.2	11311.0	3112.3	2942.7	2970.4	2711.3	2618.8	2609.5	2560.1	2541.7	2541.7
65°	26937.3	10906.9	2908.7	2936.5	2868.7	2587.9	2470.8	2467.6	2427.5	2421.4	2418.3
67.5°	26502.4	9626.9	2634.2	2850.1	2763.7	2464.5	2335.0	2322.6	2270.3	2273.3	2273.3
70°	24324.7	7800.9	2254.8	2637.3	2634.2	2353.5	2193.1	2153.0	2082.1	2094.4	2106.8
72.5°	20240.8	5780.5	1745.9	2282.6	2427.5	2251.7	2029.6	1964.8	1875.4	1887.7	1884.7
75°	14617.6	3929.7	1270.8	1736.6	2112.9	2131.4	1869.2	1758.2	1650.2	1668.7	1675.0
77.5°	7480.0	2227.0	934.6	1196.8	1659.5	1937.0	1724.3	1576.2	1551.5	1724.3	1699.6
80°	2439.9	1116.6	647.8	839.0	1088.9	1585.5	1511.5	1341.8	1335.6	1375.8	1181.4
82.5°	728.0	471.9	416.5	552.2	601.5	1215.3	1304.7	1014.9	872.9	919.2	950.1
85°	249.9	228.3	237.5	274.5	286.9	712.6	913.1	672.4	635.4	700.2	691.0
87.5°	58.6	80.2	67.9	61.7	61.7	172.7	354.8	280.6	388.7	259.1	249.9
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)