

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: P969984

Luminaire Tested: **NAV-SB6A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24485.2 lumens
Efficiency: N/A
Efficacy: 143.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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



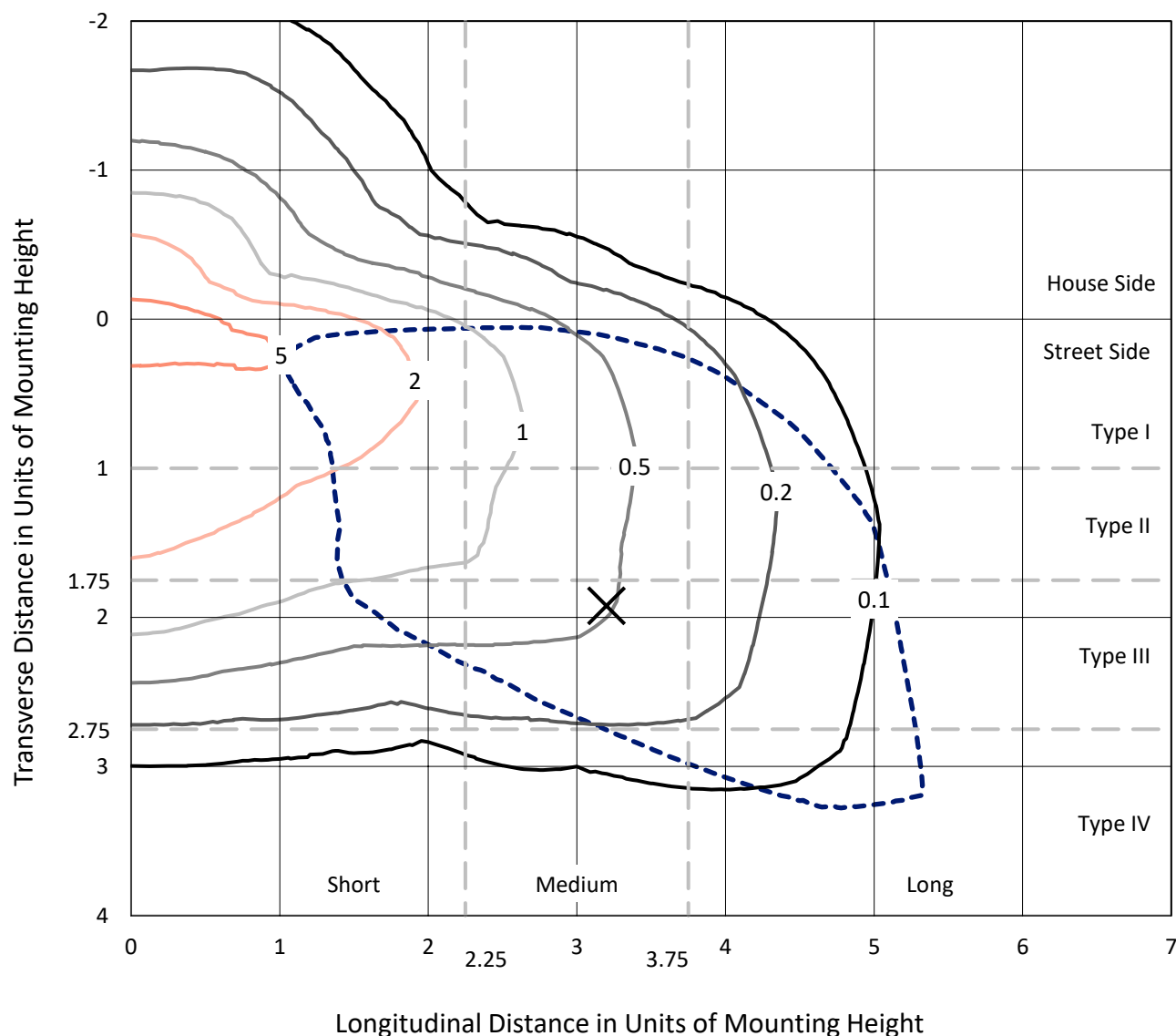
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

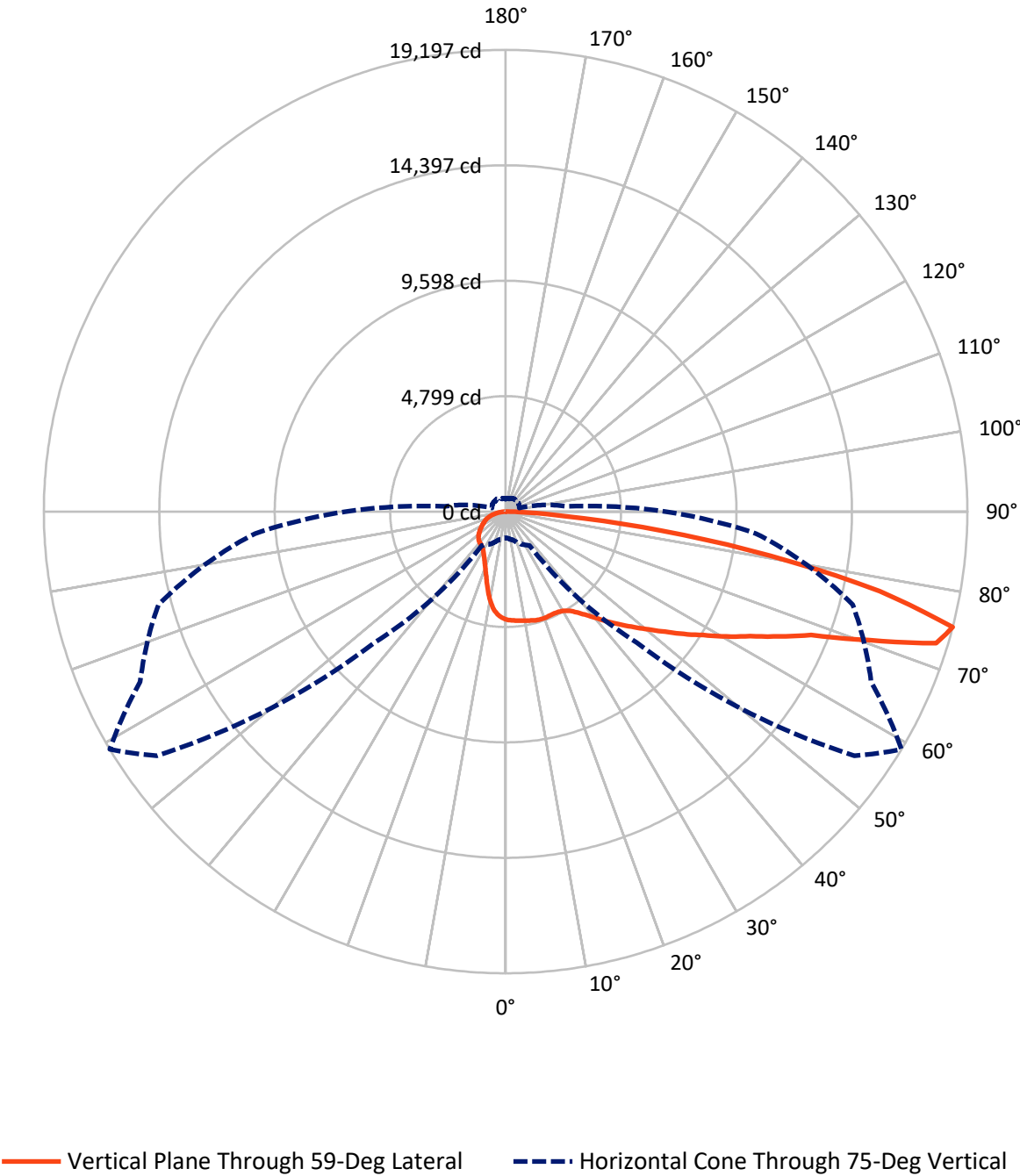
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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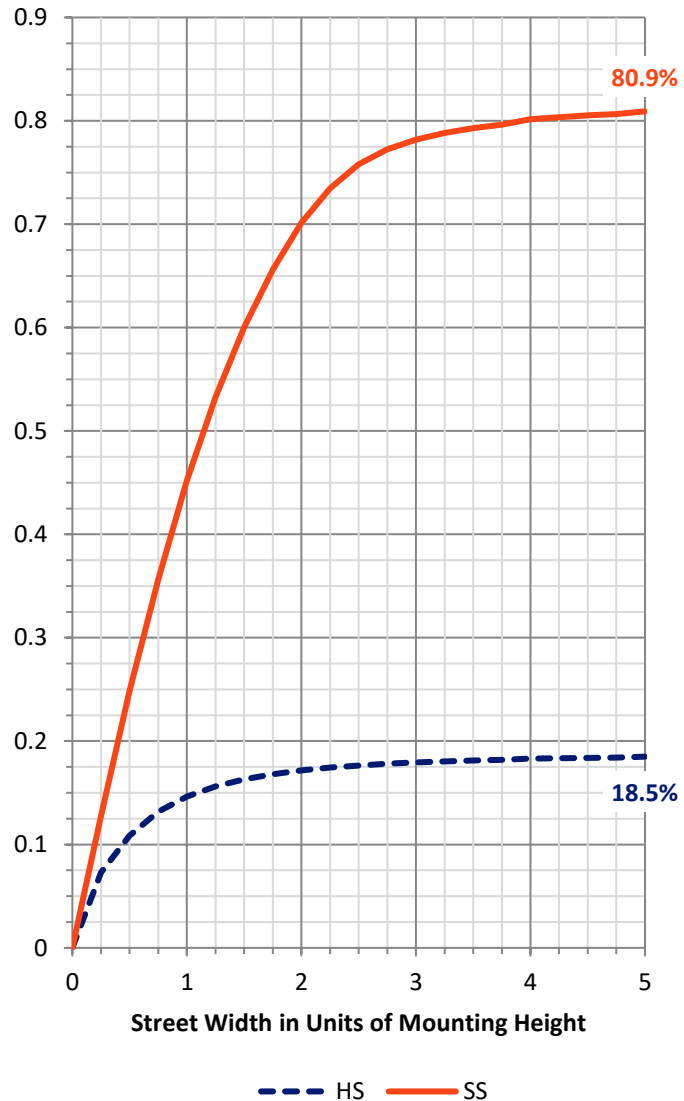
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4592.4	0.0	4592.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19892.8	0.0	19892.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	24485.2	0.0	24485.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.0	1.6
10°-20°	1030.0	4.2
20°-30°	1564.5	6.4
30°-40°	2325.7	9.5
40°-50°	3458.7	14.1
50°-60°	4694.7	19.2
60°-70°	5731.5	23.4
70°-80°	4498.0	18.4
80°-90°	779.2	3.2
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°	24485.2	100.0
0°-180°	24485.2	100.0

Coefficient of Utilization



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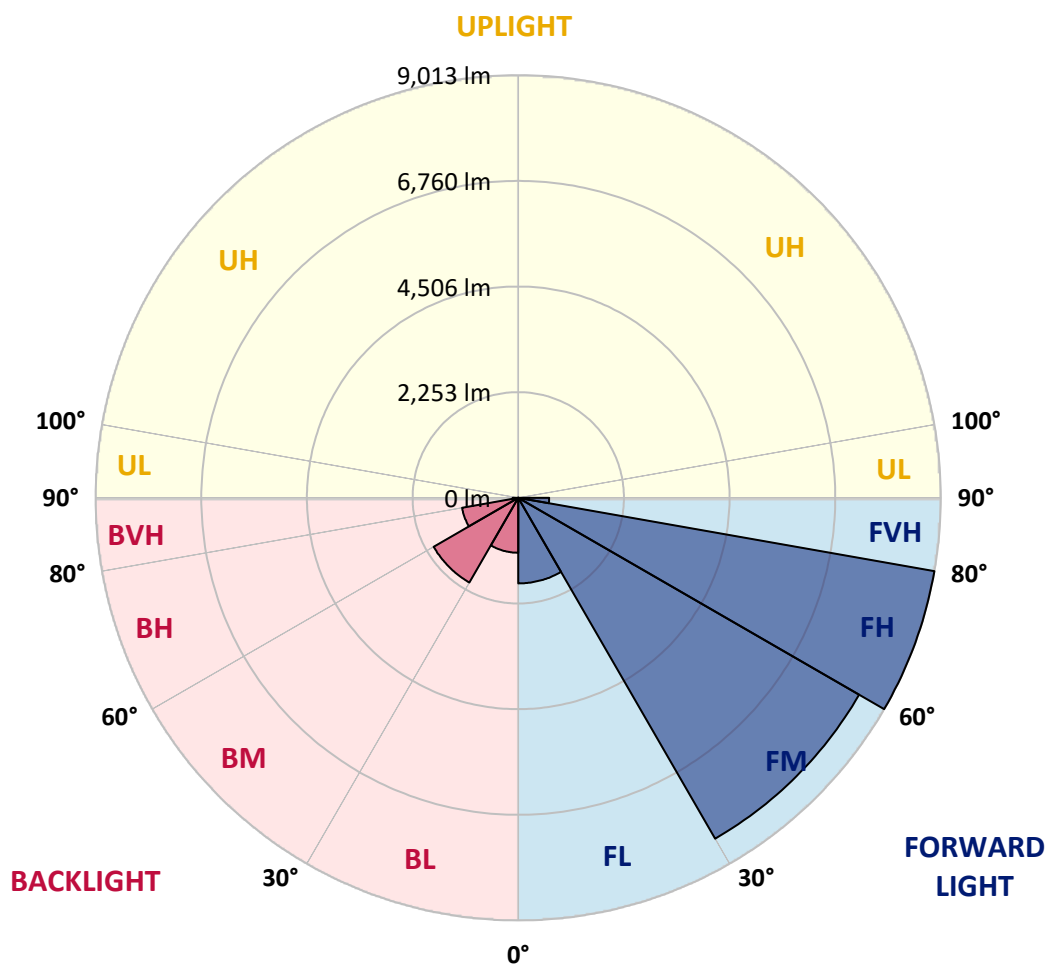
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.6	7.5			
FM	(30°-60°)	8394.5	34.3			
FH	(60°-80°)	9012.8	36.8			G4/12000
FVH	(80°-90°)	659.9	2.7			G4/750
BL	(0°-30°)	1171.9	4.8	B3/2500		
BM	(30°-60°)	2084.5	8.5	B2/2500		
BH	(60°-80°)	1216.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	119.3	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2
2.5°	4532.4	4516.6	4532.4	4525.8	4523.2	4517.9	4519.2	4528.4	4523.2	4529.8	4507.3
5°	4502.1	4492.9	4508.7	4504.8	4521.9	4524.5	4541.7	4552.1	4558.8	4560.0	4542.9
7.5°	4452.1	4442.9	4465.2	4483.7	4520.6	4531.1	4566.7	4583.8	4593.0	4608.8	4583.8
10°	4268.9	4265.0	4320.4	4390.2	4477.1	4531.1	4585.1	4614.0	4628.6	4670.7	4641.7
12.5°	3944.9	3950.2	4022.6	4157.0	4330.8	4504.8	4606.1	4648.3	4670.7	4723.4	4710.2
15°	3635.4	3634.1	3713.2	3856.7	4100.4	4388.8	4616.7	4689.2	4727.3	4805.1	4794.5
17.5°	3456.3	3451.0	3506.3	3615.7	3842.2	4211.0	4590.4	4711.5	4793.2	4890.7	4881.5
20°	3423.3	3412.8	3441.7	3495.8	3656.5	4016.1	4521.9	4711.5	4845.9	4972.4	4967.0
22.5°	3543.2	3526.1	3514.2	3507.7	3578.8	3855.3	4444.2	4695.7	4923.6	5089.5	5080.3
25°	3784.2	3757.9	3697.3	3638.0	3616.9	3783.0	4375.6	4691.7	5039.5	5247.6	5213.4
27.5°	4174.1	4141.2	4018.7	3876.4	3748.7	3819.8	4345.4	4715.5	5167.2	5414.9	5346.4
30°	4657.5	4621.9	4467.9	4249.2	4020.0	3956.8	4383.5	4785.3	5330.6	5637.5	5503.1
32.5°	5090.9	5051.4	4919.7	4697.1	4387.5	4193.9	4504.8	4918.4	5587.5	5947.0	5739.0
35°	5475.5	5429.4	5310.8	5105.4	4838.0	4527.1	4723.4	5154.1	5952.3	6450.2	6059.0
37.5°	5852.2	5798.2	5669.2	5451.8	5264.7	4971.0	5025.1	5457.1	6437.0	7061.4	6483.1
40°	6273.7	6196.0	6039.3	5824.6	5642.8	5491.3	5421.5	5828.5	6929.6	7743.7	7012.6
42.5°	6682.1	6608.3	6421.2	6238.2	6010.3	5966.8	5881.1	6263.2	7468.4	8493.2	7550.0
45°	7122.0	7033.8	6807.1	6575.4	6431.8	6282.9	6326.4	6697.9	7996.5	9257.1	8113.8
47.5°	7534.3	7435.5	7168.0	6909.9	6830.9	6549.0	6734.8	7176.0	8545.8	10031.6	8672.3
50°	7756.9	7659.4	7436.8	7203.6	7141.7	6876.9	7177.3	7701.5	9121.5	10803.5	9208.4
52.5°	7942.5	7837.2	7546.0	7417.0	7398.6	7233.9	7722.6	8302.2	9697.0	11485.7	9726.0
55°	8140.1	8022.9	7651.5	7535.6	7619.8	7634.3	8369.3	8983.1	10305.6	12151.0	10214.7
57.5°	8368.0	8219.2	7752.9	7635.6	7835.9	8103.2	9112.2	9689.1	10903.5	12767.4	10649.3
60°	8582.7	8432.6	7947.8	7795.0	8069.0	8647.3	9964.4	10544.0	11580.7	13316.7	11060.4
62.5°	8624.9	8501.0	8103.2	8101.9	8385.1	9282.1	10973.3	11406.7	12172.0	13859.3	11429.2
65°	7895.2	7817.5	7581.6	8090.1	8838.3	10196.3	12096.9	12510.5	12924.1	14333.5	11753.2
67.5°	6009.0	6019.5	6002.4	6983.6	8472.0	11509.5	13723.6	13692.1	13852.8	14865.7	12126.0
70°	2747.6	2809.5	3212.6	4820.9	6787.4	11660.9	16413.3	16003.7	15018.4	15554.6	12448.6
72.5°	1484.5	1531.9	1696.5	2335.4	4080.6	10367.5	18423.4	18714.4	16568.7	16018.2	12094.3
75°	1089.3	1115.6	1230.2	1484.5	1713.6	7705.4	17702.9	19196.5	16762.3	14936.8	10443.9
77.5°	815.3	827.2	920.7	1176.2	877.2	4062.2	14145.1	15898.3	14349.3	12272.1	7714.7
80°	591.4	604.5	674.3	882.5	615.1	1485.7	9712.9	11159.1	9827.5	7822.7	3844.9
82.5°	408.4	413.6	443.9	600.6	429.4	577.0	5511.0	6543.7	5486.0	2745.0	1037.9
85°	246.3	252.9	266.1	350.3	243.6	274.0	2378.8	2460.5	1639.9	656.0	322.7
87.5°	101.4	108.0	118.6	147.5	96.1	76.4	392.5	492.6	306.9	192.3	100.1
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°	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2	4494.2
2.5°	4500.8	4491.5	4466.5	4432.3	4400.7	4361.2	4344.1	4329.6	4316.4	4291.4	4279.5
5°	4528.4	4503.4	4436.2	4349.3	4250.6	4142.5	4037.2	3964.7	3902.8	3856.7	3818.5
7.5°	4570.6	4523.2	4400.7	4222.9	3996.3	3764.5	3555.0	3406.2	3294.2	3253.5	3182.3
10°	4614.0	4557.5	4344.1	4030.6	3639.4	3282.4	3004.5	2851.7	2762.1	2733.2	2688.4
12.5°	4665.4	4582.5	4255.8	3763.2	3240.2	2849.1	2606.7	2517.1	2471.1	2455.2	2459.2
15°	4740.5	4603.5	4122.8	3428.6	2859.5	2533.0	2376.2	2314.2	2290.6	2289.2	2294.6
17.5°	4797.2	4607.5	3916.0	3070.4	2567.2	2341.9	2212.9	2189.2	2205.0	2228.7	2237.9
20°	4860.3	4571.9	3644.6	2743.7	2361.7	2174.6	2120.6	2136.5	2174.6	2208.9	2220.8
22.5°	4905.1	4507.3	3316.7	2489.4	2183.9	2078.5	2075.8	2108.8	2129.8	2147.0	2156.2
25°	4944.7	4398.1	2968.9	2276.1	2037.7	2020.6	2049.5	2039.0	2024.5	2039.0	2048.3
27.5°	4973.6	4225.5	2658.0	2089.1	1934.9	1981.0	1963.9	1940.2	1938.9	1946.8	1960.0
30°	4964.5	3995.0	2402.5	1911.2	1862.5	1907.3	1866.4	1862.5	1858.5	1862.5	1877.0
32.5°	4964.5	3732.8	2206.3	1788.7	1816.4	1799.3	1795.3	1786.1	1770.3	1768.9	1786.1
35°	4992.1	3470.8	2037.7	1722.8	1778.2	1737.4	1740.0	1717.6	1684.7	1668.9	1684.7
37.5°	5048.7	3260.0	1870.4	1691.2	1711.0	1709.7	1699.1	1660.9	1603.0	1553.0	1570.1
40°	5185.7	3198.1	1755.8	1676.8	1679.4	1695.2	1667.6	1593.8	1462.1	1380.4	1390.9
42.5°	5400.4	3302.1	1730.8	1641.2	1658.3	1674.1	1620.1	1448.9	1355.4	1306.7	1306.7
45°	5673.1	3484.0	1784.7	1589.9	1608.2	1635.9	1475.3	1393.6	1351.5	1352.7	1359.4
47.5°	6018.2	3674.9	1884.9	1545.1	1535.9	1551.6	1379.0	1329.0	1271.1	1285.6	1322.5
50°	6417.3	3868.6	1979.7	1484.5	1455.5	1404.1	1317.1	1269.8	1196.0	1161.7	1171.0
52.5°	6849.4	4055.6	2017.9	1410.7	1368.6	1309.2	1275.0	1217.1	1127.5	1070.8	1069.6
55°	7258.9	4225.5	1975.8	1322.5	1281.7	1235.5	1230.2	1194.6	1098.5	1019.5	1019.5
57.5°	7646.2	4367.7	1870.4	1232.9	1193.4	1165.7	1201.3	1184.2	1062.9	961.6	956.2
60°	7974.2	4465.2	1717.6	1142.0	1114.4	1099.8	1153.8	1148.6	1012.9	899.6	895.6
62.5°	8235.0	4503.4	1549.0	1055.0	1048.5	1022.1	1088.0	1088.0	949.7	839.1	835.1
65°	8439.1	4466.5	1377.8	969.4	982.6	943.1	1007.7	999.8	882.5	785.0	779.7
67.5°	8619.6	4345.4	1188.1	885.2	915.4	865.4	923.3	904.9	808.7	731.0	725.8
70°	8700.0	4063.5	972.1	800.8	837.7	788.9	839.1	804.8	725.8	673.1	662.6
72.5°	8054.6	3377.3	765.3	712.6	744.3	704.7	748.1	708.7	636.2	612.4	592.8
75°	6663.6	2534.2	588.8	616.4	640.1	609.9	638.8	609.9	544.0	561.1	512.4
77.5°	4839.3	1711.0	450.5	515.1	525.5	509.7	534.7	501.8	442.6	438.6	418.8
80°	2406.5	1002.3	353.0	407.0	403.0	392.5	421.5	405.7	355.7	376.7	372.8
82.5°	696.8	429.4	256.9	285.9	277.9	280.5	301.7	309.5	463.6	459.7	470.3
85°	218.6	168.6	154.2	159.4	151.5	155.4	177.8	353.0	326.7	191.0	206.8
87.5°	56.7	57.9	38.2	40.8	42.1	50.0	56.7	214.7	102.7	67.1	71.1
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)