

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: P962606

Luminaire Tested: **NAV-SB2C-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962606
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-SB2C-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13480.8 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 100.9
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



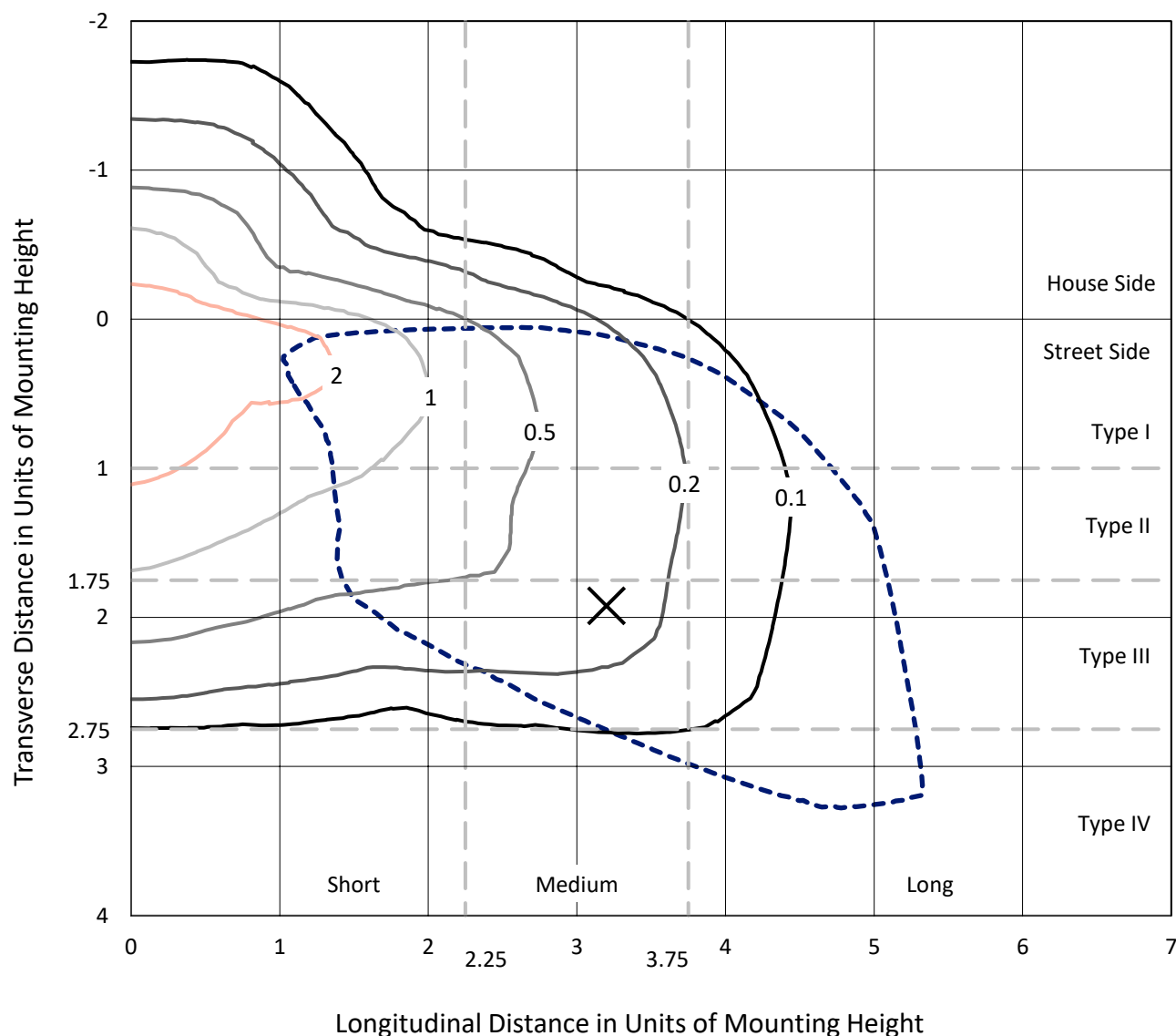
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

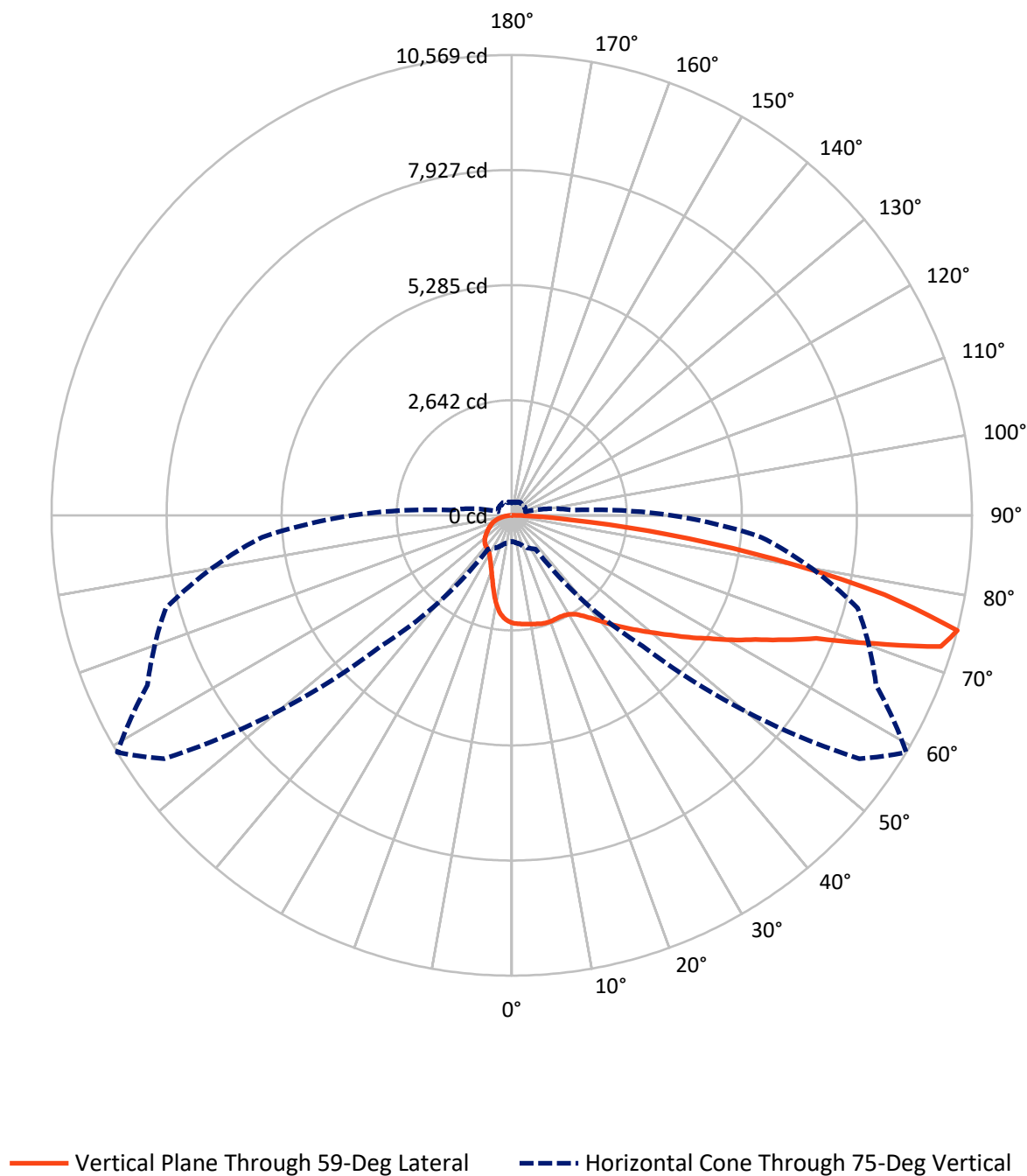
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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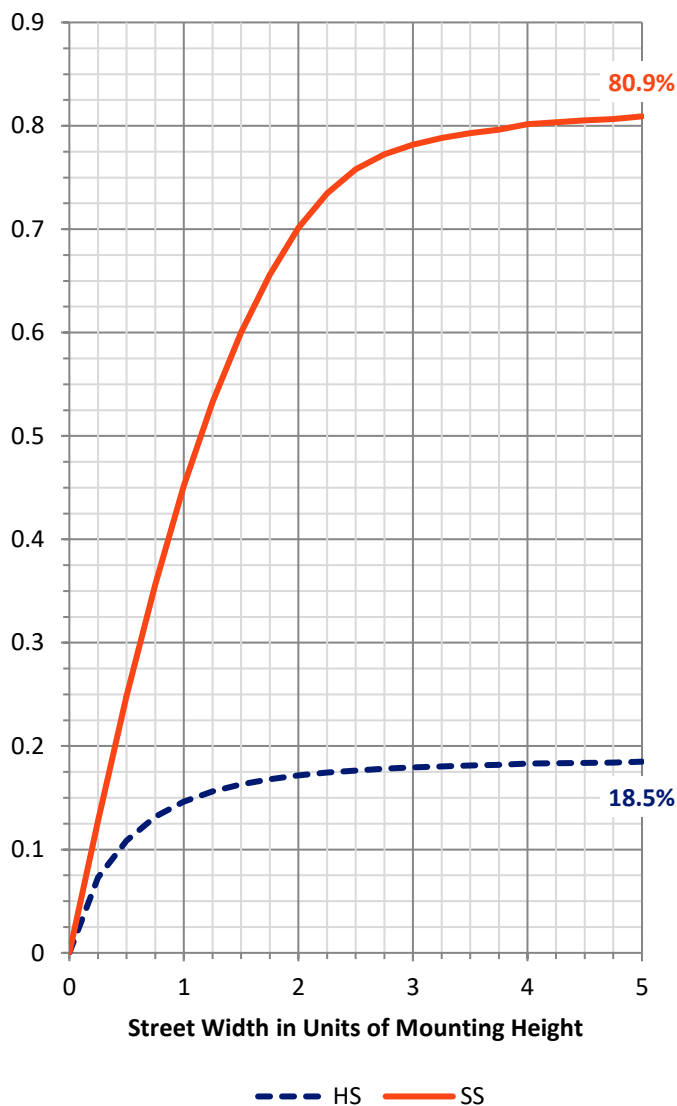
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2528.4	0.0	2528.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10952.4	0.0	10952.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	13480.8	0.0	13480.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	1.6
10°-20°	567.1	4.2
20°-30°	861.4	6.4
30°-40°	1280.4	9.5
40°-50°	1904.2	14.1
50°-60°	2584.8	19.2
60°-70°	3155.6	23.4
70°-80°	2476.5	18.4
80°-90°	429.0	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°	13480.8	100.0
0°-180°	13480.8	100.0

Coefficient of Utilization



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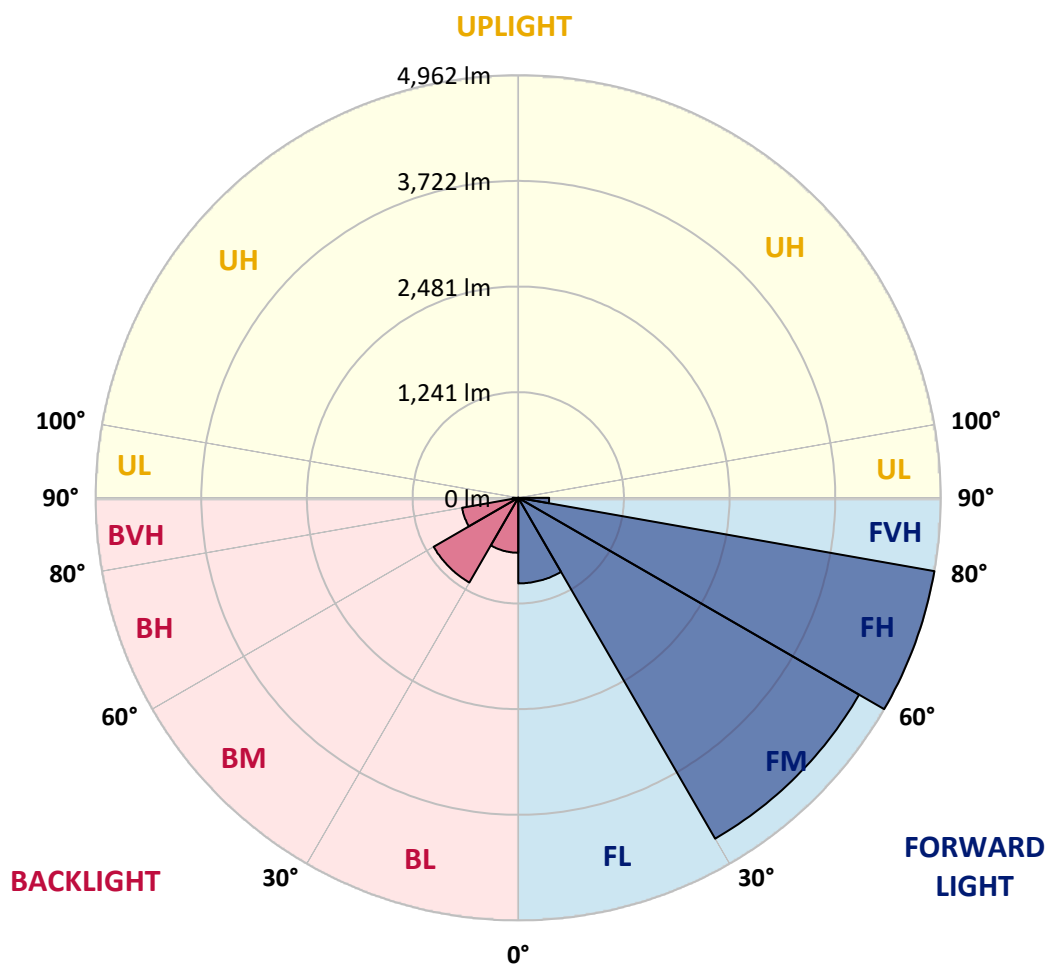
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1005.1	7.5			
FM	(30°-60°)	4621.8	34.3			
FH	(60°-80°)	4962.1	36.8			G2/5000
FVH	(80°-90°)	363.3	2.7			G3/500
BL	(0°-30°)	645.2	4.8	B2/1000		
BM	(30°-60°)	1147.7	8.5	B2/2500		
BH	(60°-80°)	669.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	65.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4
2.5°	2495.4	2486.6	2495.4	2491.8	2490.3	2487.5	2488.2	2493.2	2490.3	2493.9	2481.6
5°	2478.8	2473.6	2482.3	2480.2	2489.6	2491.1	2500.5	2506.3	2509.9	2510.6	2501.2
7.5°	2451.2	2446.1	2458.5	2468.6	2488.9	2494.6	2514.2	2523.7	2528.8	2537.5	2523.7
10°	2350.3	2348.2	2378.6	2417.1	2464.9	2494.6	2524.4	2540.4	2548.4	2571.5	2555.6
12.5°	2172.0	2174.8	2214.7	2288.7	2384.5	2480.2	2536.1	2559.2	2571.5	2600.5	2593.4
15°	2001.5	2000.8	2044.4	2123.4	2257.6	2416.3	2541.8	2581.7	2602.7	2645.5	2639.7
17.5°	1902.9	1900.0	1930.5	1990.7	2115.4	2318.4	2527.3	2594.1	2639.0	2692.7	2687.5
20°	1884.8	1879.0	1894.9	1924.6	2013.1	2211.1	2489.6	2594.1	2668.0	2737.6	2734.7
22.5°	1950.8	1941.4	1934.8	1931.2	1970.4	2122.7	2446.8	2585.4	2710.8	2802.1	2797.1
25°	2083.5	2069.0	2035.6	2003.0	1991.4	2082.8	2409.1	2583.1	2774.6	2889.2	2870.3
27.5°	2298.2	2280.0	2212.6	2134.3	2063.9	2103.1	2392.5	2596.2	2845.0	2981.3	2943.6
30°	2564.3	2544.7	2459.9	2339.5	2213.3	2178.5	2413.5	2634.7	2934.9	3103.8	3029.9
32.5°	2802.9	2781.1	2708.6	2586.1	2415.6	2309.0	2480.2	2707.8	3076.3	3274.3	3159.7
35°	3014.6	2989.3	2924.0	2810.9	2663.7	2492.5	2600.5	2837.7	3277.1	3551.3	3335.9
37.5°	3222.1	3192.4	3121.2	3001.6	2898.6	2736.9	2766.6	3004.5	3544.0	3887.8	3569.5
40°	3454.1	3411.3	3325.0	3206.8	3106.8	3023.3	2984.9	3209.0	3815.3	4263.4	3861.0
42.5°	3678.9	3638.3	3535.3	3434.6	3309.1	3285.1	3238.0	3448.3	4111.9	4676.0	4156.8
45°	3921.1	3872.6	3747.8	3620.2	3541.2	3459.2	3483.2	3687.6	4402.7	5096.7	4467.3
47.5°	4148.2	4093.7	3946.6	3804.4	3760.8	3605.6	3707.9	3950.9	4705.1	5523.1	4774.7
50°	4270.7	4217.1	4094.5	3966.1	3932.0	3786.2	3951.6	4240.2	5022.0	5948.1	5069.9
52.5°	4373.0	4314.9	4154.6	4083.6	4073.5	3982.7	4251.8	4570.9	5338.9	6323.7	5354.8
55°	4481.7	4417.1	4212.6	4148.9	4195.2	4203.2	4607.9	4945.8	5673.9	6690.0	5623.9
57.5°	4607.2	4525.3	4268.5	4203.9	4314.2	4461.4	5016.9	5334.5	6003.2	7029.3	5863.2
60°	4725.4	4642.7	4375.8	4291.7	4442.6	4760.9	5486.1	5805.2	6375.9	7331.7	6089.5
62.5°	4748.6	4680.5	4461.4	4460.7	4616.6	5110.4	6041.7	6280.2	6701.6	7630.5	6292.6
65°	4346.8	4304.1	4174.2	4454.1	4866.1	5613.7	6660.2	6887.9	7115.7	7891.6	6470.9
67.5°	3308.4	3314.1	3304.7	3845.0	4664.5	6336.8	7555.8	7538.5	7626.9	8184.5	6676.1
70°	1512.8	1546.8	1768.7	2654.2	3736.9	6420.2	9036.7	8811.1	8268.7	8563.9	6853.9
72.5°	817.3	843.4	934.1	1285.8	2246.7	5708.0	10143.3	10303.6	9122.3	8819.1	6658.7
75°	599.7	614.3	677.3	817.3	943.5	4242.4	9746.6	10569.0	9228.9	8223.8	5750.0
77.5°	448.8	455.4	506.9	647.6	483.0	2236.5	7787.8	8753.1	7900.3	6756.7	4247.5
80°	325.6	332.8	371.3	485.8	338.7	818.1	5347.6	6143.8	5410.7	4306.9	2116.8
82.5°	224.8	227.8	244.4	330.7	236.4	317.6	3034.2	3602.8	3020.5	1511.3	571.4
85°	135.6	139.2	146.5	192.9	134.2	150.9	1309.7	1354.6	902.8	361.1	177.6
87.5°	55.9	59.4	65.3	81.2	52.9	42.0	216.1	271.2	168.9	105.9	55.1
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°	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4
2.5°	2478.0	2472.9	2459.2	2440.3	2422.9	2401.2	2391.7	2383.7	2376.5	2362.7	2356.2
5°	2493.2	2479.5	2442.5	2394.6	2340.2	2280.7	2222.7	2182.8	2148.7	2123.4	2102.4
7.5°	2516.5	2490.3	2422.9	2325.0	2200.3	2072.7	1957.3	1875.3	1813.7	1791.2	1752.0
10°	2540.4	2509.2	2391.7	2219.1	2003.7	1807.2	1654.1	1570.1	1520.7	1504.8	1480.1
12.5°	2568.6	2522.9	2343.1	2071.9	1784.0	1568.6	1435.2	1385.8	1360.5	1351.8	1353.9
15°	2610.0	2534.5	2269.9	1887.6	1574.4	1394.5	1308.2	1274.2	1261.2	1260.4	1263.3
17.5°	2641.1	2536.8	2156.0	1690.4	1413.4	1289.4	1218.3	1205.3	1214.0	1227.0	1232.2
20°	2676.0	2517.2	2006.6	1510.5	1300.3	1197.3	1167.6	1176.3	1197.3	1216.2	1222.7
22.5°	2700.7	2481.6	1826.0	1370.6	1202.3	1144.3	1142.9	1161.0	1172.6	1182.0	1187.2
25°	2722.4	2421.5	1634.6	1253.2	1121.9	1112.4	1128.4	1122.6	1114.6	1122.6	1127.7
27.5°	2738.4	2326.4	1463.5	1150.2	1065.3	1090.7	1081.3	1068.3	1067.5	1071.8	1079.1
30°	2733.3	2199.5	1322.8	1052.3	1025.4	1050.1	1027.6	1025.4	1023.3	1025.4	1033.4
32.5°	2733.3	2055.2	1214.7	984.8	1000.1	990.7	988.4	983.4	974.7	974.0	983.4
35°	2748.5	1910.9	1121.9	948.5	979.0	956.5	958.0	945.7	927.5	918.8	927.5
37.5°	2779.7	1794.9	1029.8	931.1	942.1	941.3	935.5	914.5	882.5	855.1	864.5
40°	2855.1	1760.7	966.7	923.2	924.7	933.4	918.1	877.5	804.9	760.0	765.8
42.5°	2973.3	1818.0	952.9	903.6	913.1	921.7	892.0	797.8	746.2	719.3	719.3
45°	3123.4	1918.2	982.7	875.4	885.5	900.7	812.2	767.2	744.0	744.8	748.4
47.5°	3313.4	2023.2	1037.7	850.6	845.6	854.2	759.3	731.7	699.8	707.8	728.1
50°	3533.2	2130.0	1090.0	817.3	801.3	773.1	725.2	699.0	658.5	639.6	644.7
52.5°	3771.0	2232.9	1111.0	776.6	753.5	720.9	702.0	670.0	620.7	589.6	588.9
55°	3996.6	2326.4	1087.8	728.1	705.6	680.2	677.3	657.7	604.9	561.3	561.3
57.5°	4209.8	2404.8	1029.8	678.8	657.0	641.8	661.3	652.0	585.3	529.4	526.5
60°	4390.4	2458.5	945.7	628.7	613.6	605.6	635.3	632.3	557.7	495.3	493.1
62.5°	4533.9	2479.5	852.8	580.9	577.3	562.7	599.0	599.0	522.9	462.0	459.8
65°	4646.3	2459.2	758.6	533.7	541.0	519.3	554.7	550.4	485.8	432.2	429.3
67.5°	4745.6	2392.5	654.2	487.3	504.0	476.4	508.4	498.3	445.3	402.5	399.5
70°	4789.9	2237.3	535.2	441.0	461.2	434.4	462.0	443.1	399.5	370.5	364.8
72.5°	4434.6	1859.5	421.4	392.4	409.7	388.0	411.9	390.1	350.2	337.2	326.4
75°	3668.8	1395.2	324.2	339.4	352.4	335.8	351.7	335.8	299.5	308.9	282.1
77.5°	2664.4	942.1	248.0	283.5	289.4	280.6	294.4	276.3	243.6	241.5	230.6
80°	1324.9	551.9	194.3	224.1	221.9	216.1	232.1	223.3	195.8	207.4	205.2
82.5°	383.7	236.4	141.4	157.3	153.0	154.5	166.0	170.5	255.2	253.1	258.9
85°	120.3	92.9	84.9	87.7	83.4	85.6	97.9	194.3	179.9	105.2	113.9
87.5°	31.2	31.9	21.0	22.4	23.2	27.6	31.2	118.2	56.6	37.0	39.2
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)