

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: P964712

Luminaire Tested: **NAV-SB3C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20569.7 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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

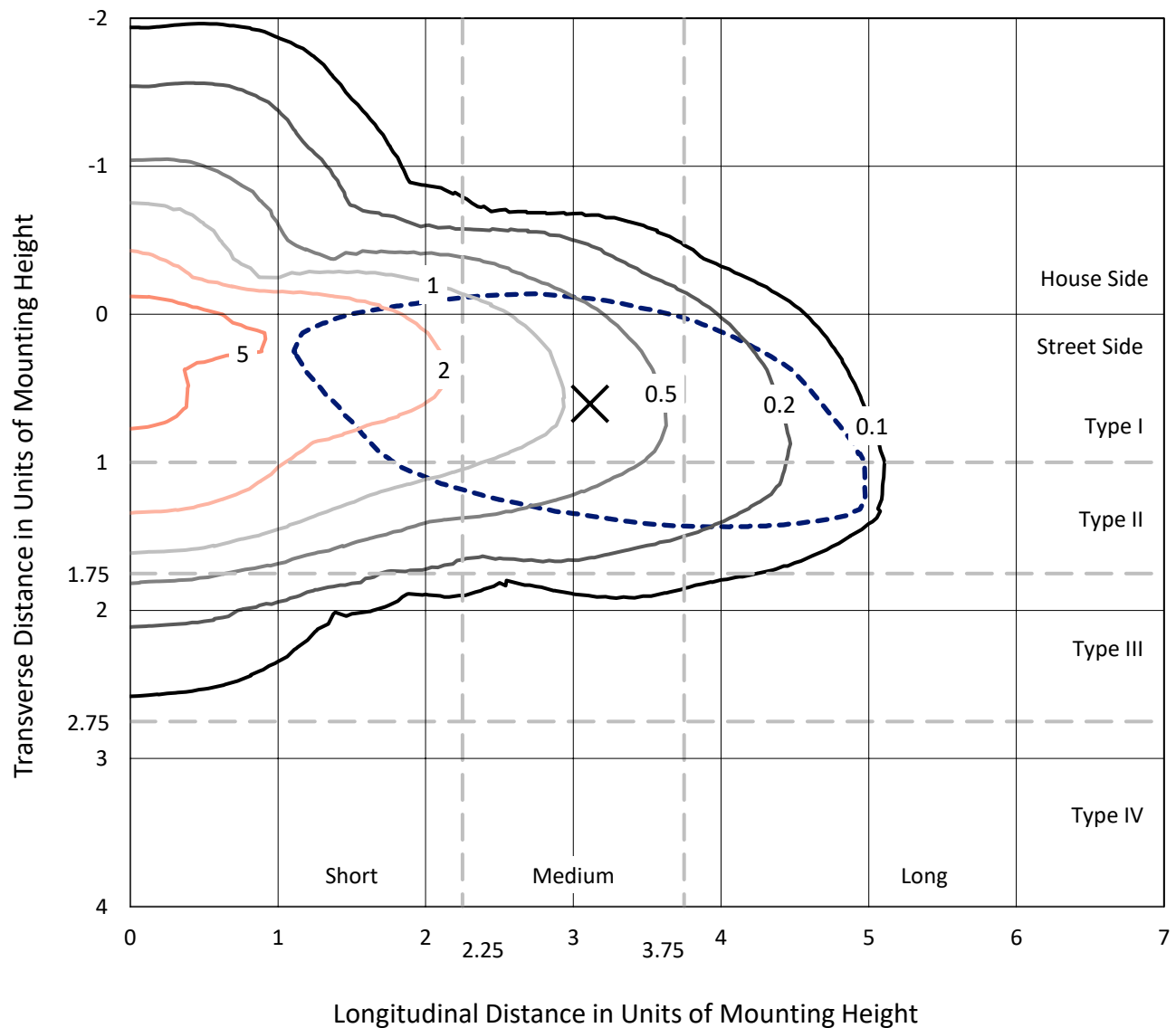


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Iso-Footcandle Lines of Horizontal Illumination

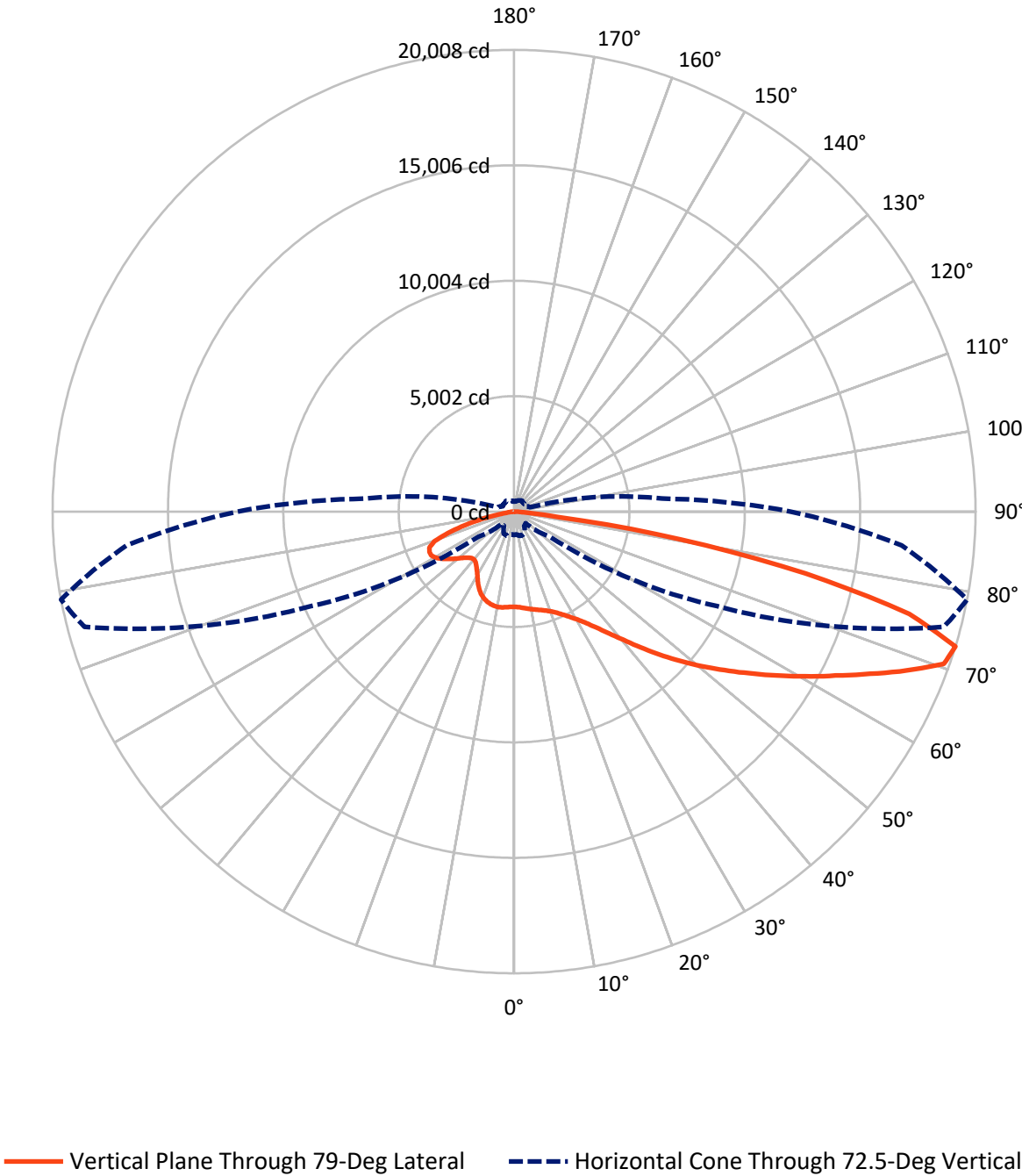
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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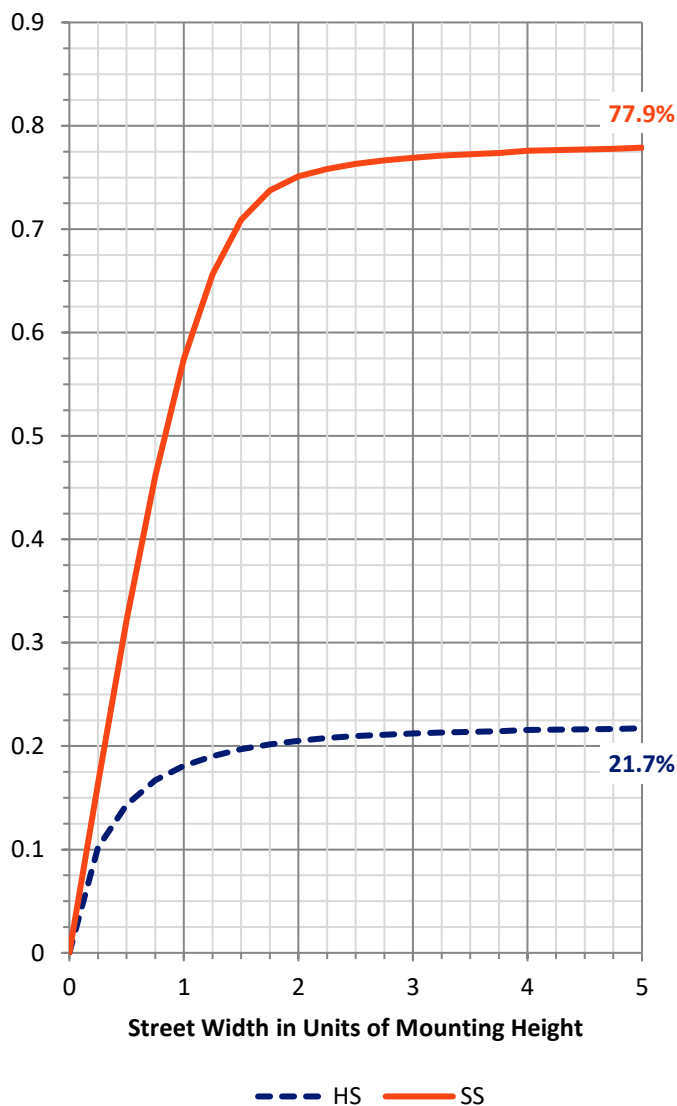
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4526.5	0.0	4526.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16043.2	0.0	16043.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	20569.7	0.0	20569.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	1.8
10°-20°	979.9	4.8
20°-30°	1581.2	7.7
30°-40°	2373.2	11.5
40°-50°	3366.5	16.4
50°-60°	4251.4	20.7
60°-70°	4317.9	21.0
70°-80°	2942.9	14.3
80°-90°	381.8	1.9
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°	20569.7	100.0
0°-180°	20569.7	100.0

Coefficient of Utilization



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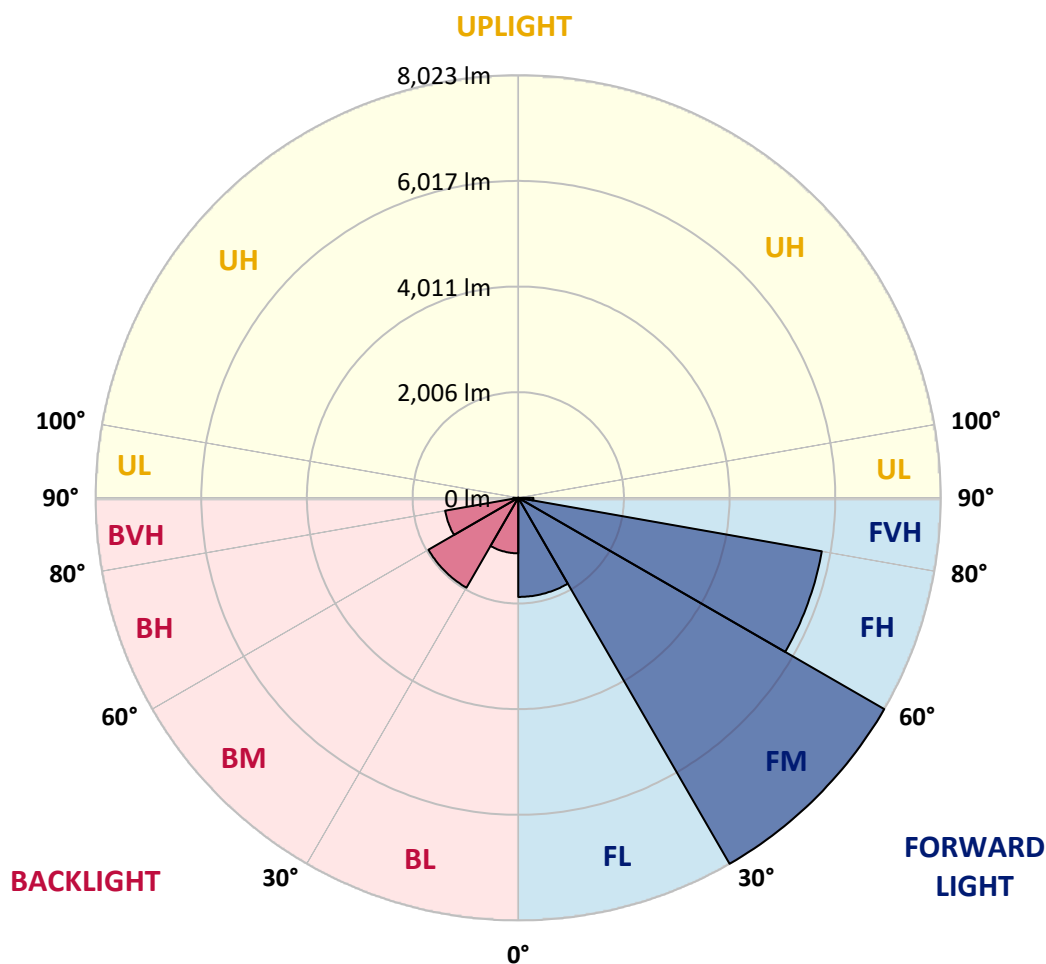
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1881.6	9.1			
FM	(30°-60°)	8022.6	39.0			
FH	(60°-80°)	5851.4	28.4			G3/7500
FVH	(80°-90°)	287.6	1.4			G3/500
BL	(0°-30°)	1054.3	5.1	B3/2500		
BM	(30°-60°)	1968.5	9.6	B2/2500		
BH	(60°-80°)	1409.4	6.9	B3/2500		G3/2500
BVH	(80°-90°)	94.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2
2.5°	4131.4	4111.8	4123.8	4119.4	4124.8	4131.4	4133.5	4136.8	4147.7	4146.5	4145.5
5°	4122.7	4103.1	4119.4	4113.9	4128.1	4143.4	4156.4	4168.4	4185.8	4193.4	4182.5
7.5°	4104.1	4091.1	4107.4	4123.8	4149.8	4172.7	4191.2	4218.4	4243.4	4247.8	4255.4
10°	3996.5	3986.6	4024.8	4067.2	4139.0	4201.0	4241.2	4272.8	4300.0	4304.4	4315.2
12.5°	3884.3	3872.3	3914.8	3972.5	4088.9	4201.0	4285.8	4327.2	4351.1	4365.3	4381.6
15°	3865.9	3856.0	3880.0	3930.1	4026.9	4171.6	4316.3	4392.4	4413.1	4429.4	4436.0
17.5°	3955.1	3936.6	3946.4	3963.8	4020.4	4144.4	4340.3	4466.4	4498.0	4515.4	4515.4
20°	4161.8	4135.7	4120.5	4085.6	4075.8	4148.8	4338.1	4555.7	4597.0	4618.8	4624.3
22.5°	4437.1	4419.7	4387.0	4299.0	4203.1	4202.1	4379.4	4669.9	4747.2	4767.9	4754.8
25°	4770.0	4743.9	4702.6	4582.9	4399.0	4307.6	4449.0	4815.8	4945.2	4950.6	4912.6
27.5°	5153.0	5113.8	5057.2	4899.5	4651.4	4473.0	4555.7	4983.3	5172.7	5170.4	5092.1
30°	5556.7	5517.6	5457.7	5266.1	4953.9	4696.0	4703.6	5164.0	5442.4	5430.4	5296.7
32.5°	5851.5	5822.2	5810.2	5662.2	5302.1	4959.4	4873.4	5364.1	5775.4	5764.5	5577.3
35°	6077.8	6039.8	6054.0	5978.8	5681.8	5254.3	5081.2	5602.4	6180.1	6179.1	5946.2
37.5°	6302.0	6268.3	6280.3	6230.3	6033.3	5628.5	5334.7	5894.0	6681.8	6705.7	6392.3
40°	6506.6	6470.6	6518.6	6471.7	6306.4	6026.7	5623.0	6223.7	7262.7	7308.5	6932.0
42.5°	6629.5	6601.2	6680.6	6681.8	6543.6	6363.0	5939.7	6587.1	7935.1	8037.4	7595.8
45°	6671.9	6662.2	6781.8	6806.9	6753.5	6557.7	6224.7	6983.1	8659.8	8842.7	8351.9
47.5°	6626.2	6607.8	6773.1	6865.7	6908.1	6649.1	6460.9	7411.9	9399.8	9667.4	9176.6
50°	6395.6	6359.7	6605.6	6800.4	6951.6	6708.9	6699.2	7907.0	10240.8	10533.5	10005.7
52.5°	5981.1	5953.8	6233.4	6571.9	6855.8	6738.4	6966.8	8447.6	11039.5	11418.1	10855.6
55°	5451.2	5415.3	5723.2	6165.0	6617.6	6728.5	7234.4	9052.6	11981.6	12365.8	11733.6
57.5°	4611.2	4539.4	4928.9	5451.2	6229.1	6716.5	7513.0	9654.3	12939.2	13399.4	12670.4
60°	3386.0	3279.4	3757.0	4376.1	5469.7	6600.2	7858.0	10328.9	14088.1	14502.7	13693.2
62.5°	1971.6	1909.6	2221.8	2799.6	4122.7	5914.7	8051.6	11113.4	15217.6	15652.8	14698.5
65°	1530.9	1513.5	1540.7	1585.3	2294.7	4428.4	7454.3	11878.3	16653.8	16958.4	15746.4
67.5°	1400.4	1387.2	1399.2	1315.5	1164.2	2466.7	5897.2	12071.9	18192.3	18377.2	16663.5
70°	1244.8	1229.5	1268.6	1196.9	916.1	1121.8	3810.3	11369.1	19416.4	19763.4	17361.0
72.5°	1014.0	996.7	1088.0	1055.4	771.4	720.3	1913.9	9699.0	19287.9	20008.3	16861.6
75°	779.0	769.3	878.0	905.3	628.9	566.9	918.3	7209.4	16973.7	17699.4	14532.0
77.5°	605.0	597.4	652.8	751.8	507.1	439.6	564.7	4573.1	12791.2	12918.5	10014.5
80°	453.8	431.9	483.1	582.1	394.9	320.9	383.0	2666.8	8085.3	7329.2	4358.7
82.5°	284.0	273.1	315.5	388.5	278.5	220.9	249.2	1473.2	3240.2	1908.4	841.1
85°	162.2	157.7	171.9	221.9	151.3	127.3	142.6	650.7	591.9	406.9	253.5
87.5°	65.3	63.1	78.3	99.0	55.5	46.7	50.0	156.7	130.6	120.7	83.7
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°	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2	4129.2
2.5°	4141.1	4141.1	4125.9	4101.9	4074.8	4057.4	4029.1	4021.5	3992.1	3983.4	3997.5
5°	4191.2	4182.5	4135.7	4068.2	3975.8	3890.9	3797.3	3738.6	3655.9	3626.4	3648.3
7.5°	4254.3	4230.4	4149.8	4001.9	3808.2	3617.7	3419.8	3269.6	3125.9	3074.8	3081.4
10°	4312.0	4278.2	4141.1	3882.2	3547.0	3217.4	2901.9	2681.0	2513.4	2444.8	2460.1
12.5°	4369.7	4307.6	4083.5	3683.0	3176.1	2728.9	2392.7	2220.8	2117.3	2034.6	2061.9
15°	4424.0	4337.0	3994.2	3416.5	2769.1	2315.4	2067.3	1930.2	1847.6	1793.1	1802.9
17.5°	4487.1	4362.0	3860.5	3078.1	2381.8	2029.2	1826.9	1744.1	1727.8	1721.3	1725.7
20°	4575.3	4384.8	3684.2	2699.4	2096.6	1800.7	1696.3	1688.7	1687.6	1684.3	1695.1
22.5°	4669.9	4412.1	3451.3	2355.7	1854.0	1658.2	1639.7	1624.4	1614.7	1613.6	1625.5
25°	4782.0	4420.7	3159.7	2073.9	1647.3	1590.7	1569.0	1546.1	1539.6	1539.6	1546.1
27.5°	4890.8	4391.4	2820.3	1829.0	1530.9	1528.7	1500.4	1492.8	1491.7	1495.0	1503.7
30°	4999.6	4335.9	2483.0	1602.7	1463.4	1463.4	1453.7	1459.1	1463.4	1474.4	1481.9
32.5°	5146.5	4277.1	2201.2	1435.1	1404.7	1393.8	1403.6	1414.5	1418.8	1432.9	1444.9
35°	5362.0	4235.8	1977.0	1343.8	1343.8	1329.6	1335.1	1332.9	1323.1	1316.5	1331.8
37.5°	5647.0	4233.7	1792.0	1301.3	1292.6	1290.5	1291.5	1277.4	1239.3	1193.6	1194.6
40°	5989.8	4292.4	1649.5	1271.9	1265.4	1278.5	1271.9	1233.9	1129.4	1050.0	1047.8
42.5°	6450.0	4460.0	1558.1	1236.0	1255.6	1271.9	1245.8	1114.2	1043.4	990.1	988.0
45°	6991.8	4731.9	1511.3	1197.9	1237.1	1256.8	1130.5	1072.9	1016.3	952.0	947.7
47.5°	7605.5	5074.7	1500.4	1162.0	1195.8	1207.8	1081.5	1055.4	991.2	921.6	916.1
50°	8273.6	5480.6	1529.8	1119.6	1135.9	1094.6	1065.2	1041.3	974.9	906.3	898.7
52.5°	8964.4	5927.7	1588.5	1061.9	1076.0	1030.4	1058.7	1038.0	965.1	872.6	866.1
55°	9643.4	6378.2	1645.1	994.5	1015.2	972.7	1040.2	1024.9	920.4	816.0	810.6
57.5°	10333.2	6826.5	1700.7	934.6	956.4	917.3	1010.9	990.1	870.4	763.8	761.7
60°	11050.3	7261.7	1726.7	877.0	892.2	866.1	966.2	930.3	813.8	710.5	707.2
62.5°	11721.6	7624.1	1684.3	819.3	829.1	818.3	907.4	859.6	757.3	650.7	649.5
65°	12395.1	7839.4	1553.7	762.7	764.9	759.4	824.7	783.4	691.0	598.4	591.9
67.5°	13005.5	7960.3	1345.9	701.8	696.4	694.1	747.5	700.7	626.7	546.2	539.7
70°	13135.0	7653.4	1028.2	630.0	630.0	624.5	662.7	614.8	556.0	490.7	488.5
72.5°	11996.9	6438.0	730.1	548.4	557.1	546.2	577.8	537.5	484.2	440.6	427.6
75°	9673.9	4721.0	530.9	464.6	479.8	461.4	490.7	462.4	416.8	415.6	374.3
77.5°	6646.9	2919.3	385.2	383.0	393.9	369.9	403.6	388.5	347.1	328.6	307.9
80°	2836.6	1164.2	280.7	295.9	295.9	274.2	313.3	317.8	281.8	273.1	273.1
82.5°	564.7	330.8	196.9	203.5	191.5	185.0	221.9	245.9	339.5	377.5	378.6
85°	169.7	121.9	118.6	111.0	97.9	99.0	130.6	247.0	304.6	174.0	150.2
87.5°	46.7	30.4	31.6	25.0	20.7	27.2	44.6	187.2	102.3	43.6	37.0
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)