

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: P970540

Luminaire Tested: **NAV-SB6B-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970540
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-SB6B-835-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32268 lumens
Efficiency: N/A
Efficacy: 146.4 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): 220.4
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



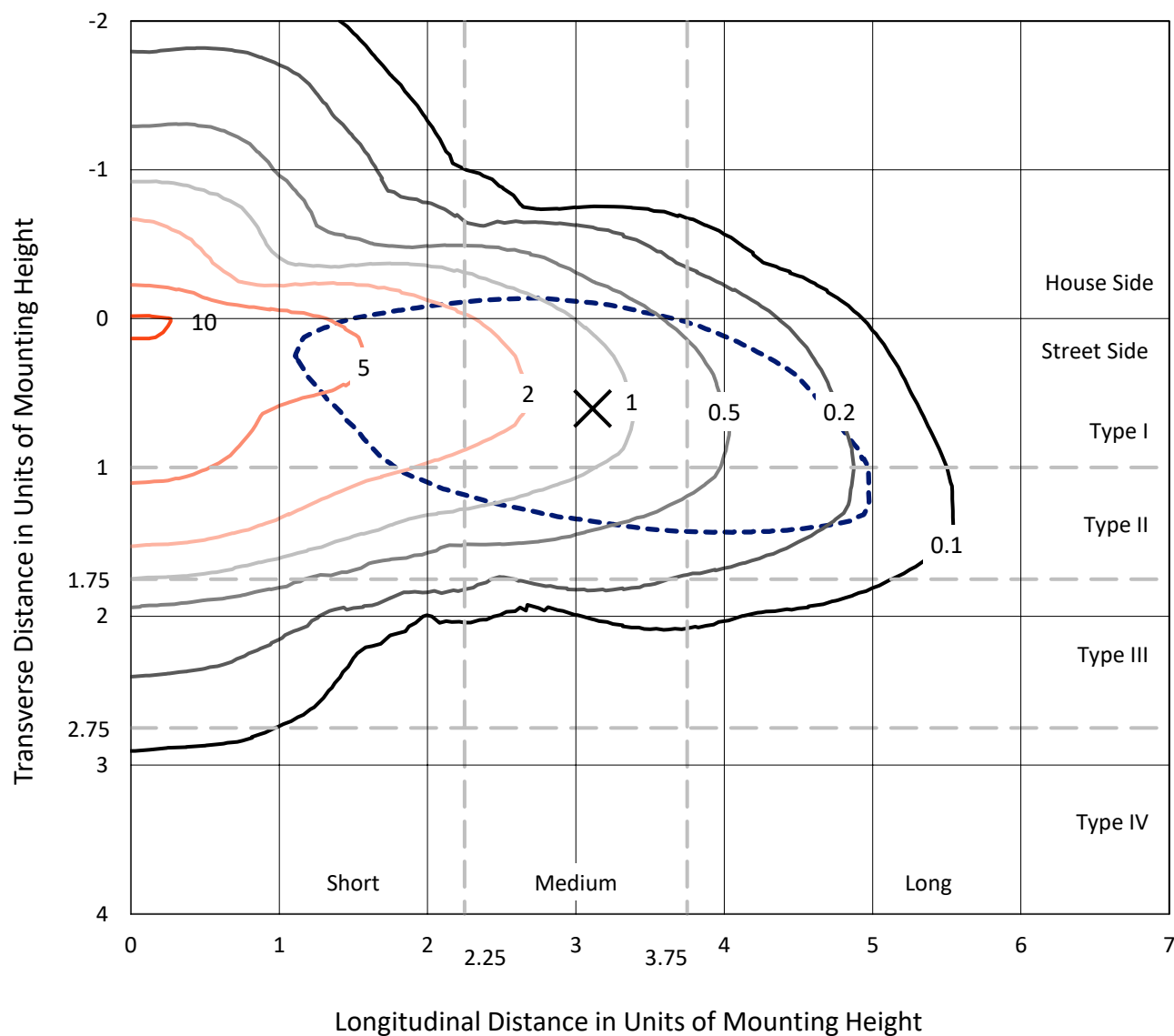
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

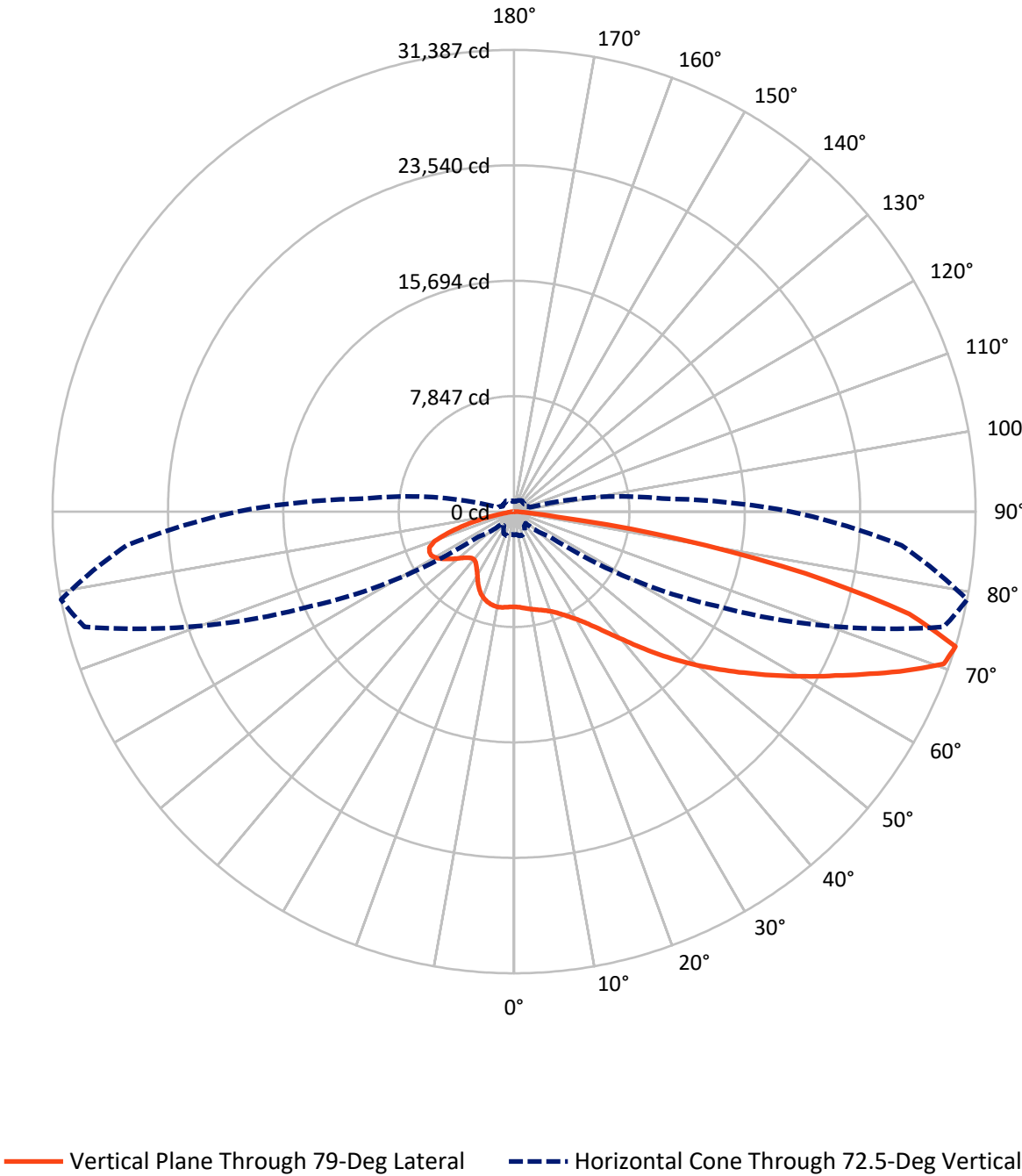
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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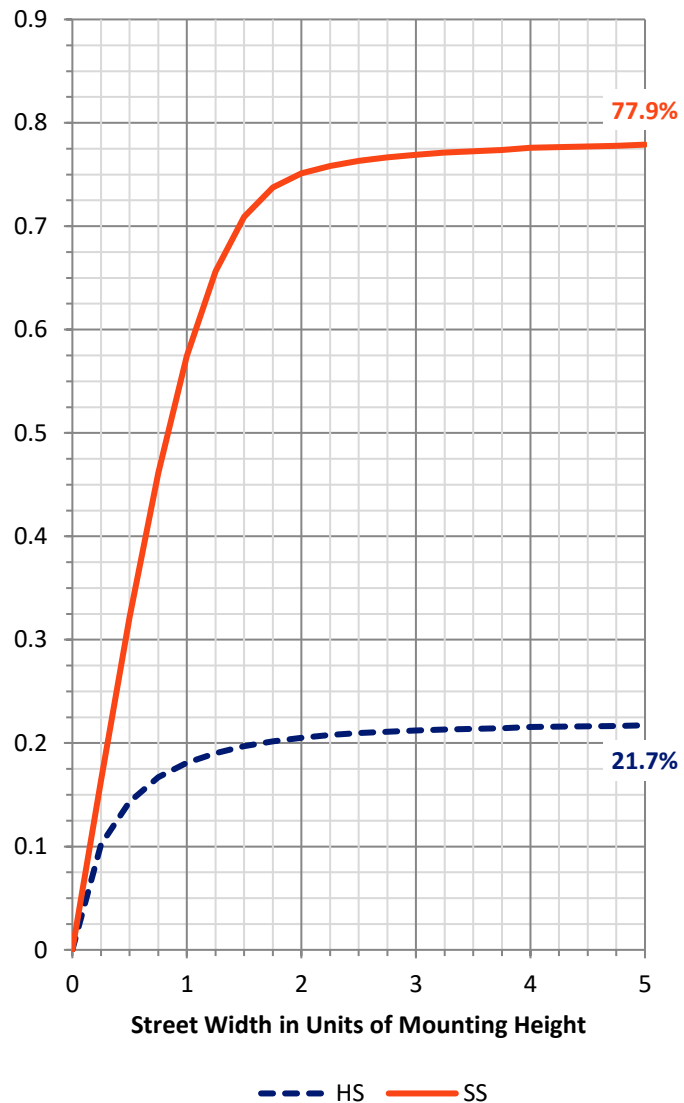
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7100.7	0.0	7100.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	25167.3	0.0	25167.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	32268.0	0.0	32268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.0	1.8
10°-20°	1537.3	4.8
20°-30°	2480.5	7.7
30°-40°	3722.9	11.5
40°-50°	5281.1	16.4
50°-60°	6669.3	20.7
60°-70°	6773.6	21.0
70°-80°	4616.5	14.3
80°-90°	598.9	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°	32268.0	100.0
0°-180°	32268.0	100.0

Coefficient of Utilization



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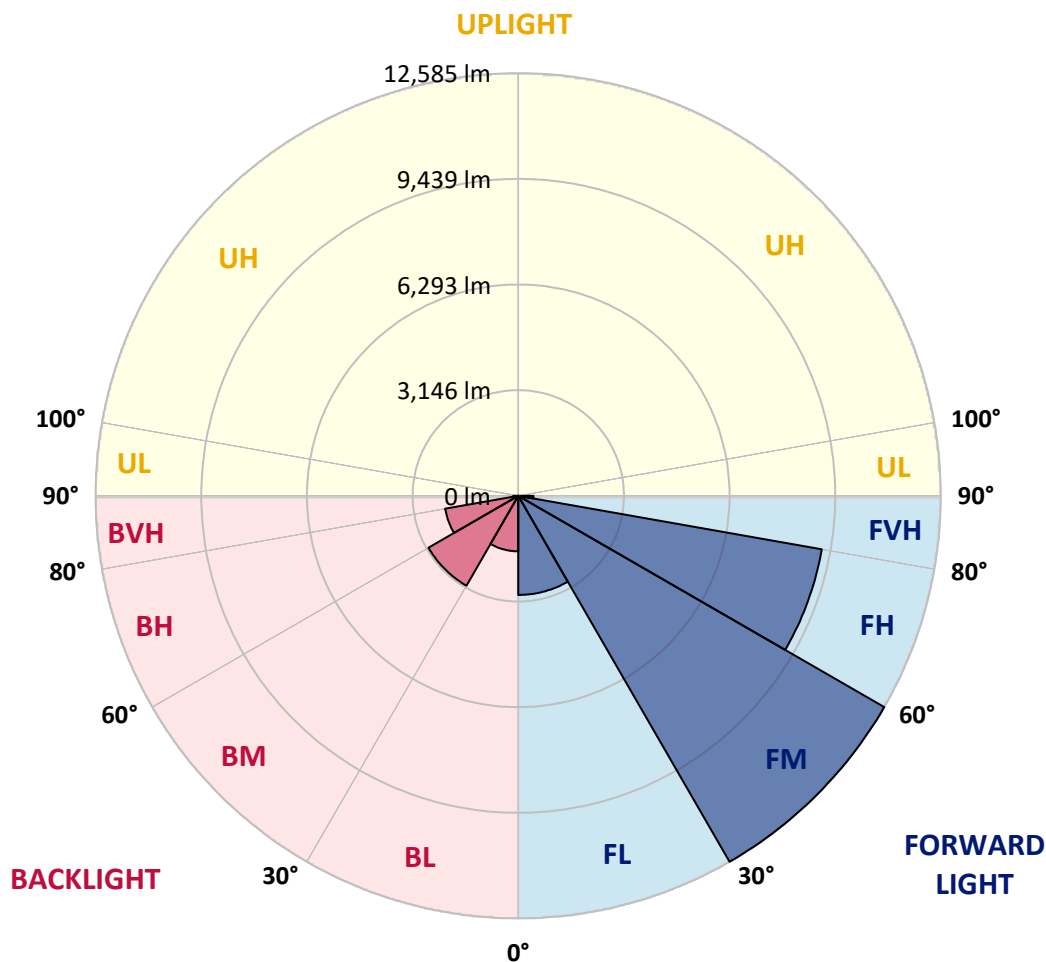
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2951.7	9.1			
FM	(30°-60°)	12585.2	39.0			
FH	(60°-80°)	9179.2	28.4			G4/12000
FVH	(80°-90°)	451.2	1.4			G3/500
BL	(0°-30°)	1654.0	5.1	B3/2500		
BM	(30°-60°)	3088.1	9.6	B3/5000		
BH	(60°-80°)	2210.9	6.9	B3/2500		G3/2500
BVH	(80°-90°)	147.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5
2.5°	6480.9	6450.2	6469.0	6462.1	6470.7	6480.9	6484.4	6489.5	6506.5	6504.9	6503.1
5°	6467.2	6436.5	6462.1	6453.6	6475.7	6499.7	6520.1	6539.0	6566.3	6578.2	6561.1
7.5°	6438.2	6417.7	6443.4	6469.0	6510.0	6545.8	6574.8	6617.5	6656.8	6663.5	6675.5
10°	6269.3	6253.9	6313.7	6380.2	6492.9	6590.1	6653.3	6702.8	6745.5	6752.3	6769.4
12.5°	6093.4	6074.7	6141.3	6231.7	6414.3	6590.1	6723.3	6788.2	6825.7	6847.9	6873.4
15°	6064.4	6049.0	6086.7	6165.2	6317.1	6544.1	6771.0	6890.6	6923.0	6948.6	6958.8
17.5°	6204.4	6175.4	6190.8	6218.1	6306.8	6501.4	6808.7	7006.6	7056.1	7083.5	7083.5
20°	6528.7	6487.7	6463.9	6409.2	6393.8	6508.2	6805.2	7146.6	7211.5	7245.6	7254.1
22.5°	6960.6	6933.2	6882.1	6743.8	6593.5	6591.9	6870.1	7325.8	7447.0	7479.4	7458.9
25°	7482.8	7441.9	7377.0	7189.2	6900.8	6757.4	6979.3	7554.6	7757.6	7766.2	7706.5
27.5°	8083.7	8022.2	7933.4	7686.0	7296.8	7016.8	7146.6	7817.4	8114.4	8110.9	7988.0
30°	8716.9	8655.4	8561.5	8261.2	7771.2	7366.8	7378.7	8100.7	8537.6	8518.9	8309.0
32.5°	9179.5	9133.4	9114.6	8882.4	8317.5	7779.9	7645.0	8414.7	9060.0	9042.9	8749.3
35°	9534.4	9474.7	9496.9	9379.2	8913.2	8242.3	7971.0	8788.6	9695.0	9693.2	9327.9
37.5°	9886.1	9833.1	9852.0	9773.5	9464.4	8829.6	8368.7	9246.0	10481.8	10519.4	10027.8
40°	10206.9	10150.7	10225.7	10152.3	9892.9	9454.3	8821.0	9763.2	11393.2	11464.9	10874.3
42.5°	10399.9	10355.5	10480.1	10481.8	10265.0	9981.7	9317.7	10333.2	12448.1	12608.5	11915.5
45°	10466.4	10451.0	10638.8	10678.0	10594.4	10287.2	9764.9	10954.6	13584.8	13871.5	13101.8
47.5°	10394.7	10365.7	10625.2	10770.2	10836.8	10430.6	10135.3	11627.1	14745.4	15165.4	14395.6
50°	10032.9	9976.5	10362.3	10667.8	10905.1	10524.4	10509.1	12403.7	16064.9	16524.0	15696.2
52.5°	9382.5	9339.9	9778.5	10309.3	10754.9	10570.5	10929.0	13252.0	17317.7	17911.7	17029.2
55°	8551.4	8495.0	8978.1	9671.0	10381.1	10555.1	11348.9	14201.0	18795.8	19398.3	18406.6
57.5°	7233.6	7121.0	7732.0	8551.4	9771.7	10536.4	11785.8	15144.9	20297.9	21019.9	19876.3
60°	5311.8	5144.5	5893.7	6864.9	8580.4	10353.7	12326.9	16203.1	22100.3	22750.6	21480.7
62.5°	3092.8	2995.6	3485.4	4391.7	6467.2	9278.4	12630.7	17433.8	23872.0	24554.8	23057.9
65°	2401.6	2374.2	2417.0	2486.9	3599.7	6946.8	11693.6	18633.7	26125.1	26603.0	24701.6
67.5°	2196.7	2176.3	2195.0	2063.6	1826.3	3869.5	9251.1	18937.5	28538.6	28828.7	26140.5
70°	1952.6	1928.7	1990.1	1877.5	1437.2	1759.7	5977.4	17834.9	30458.8	31003.3	27234.6
72.5°	1590.8	1563.4	1706.8	1655.7	1210.1	1130.0	3002.3	15214.9	30257.4	31387.2	26451.0
75°	1222.1	1206.7	1377.4	1420.1	986.6	889.3	1440.5	11309.6	26626.8	27765.3	22796.7
77.5°	949.0	937.1	1024.1	1179.5	795.4	689.5	885.8	7173.9	20065.7	20265.5	15709.9
80°	711.8	677.6	757.9	913.2	619.6	503.5	600.9	4183.5	12683.7	11497.3	6837.7
82.5°	445.5	428.4	495.0	609.4	437.0	346.4	390.8	2311.1	5083.0	2993.8	1319.4
85°	254.3	247.5	269.7	348.2	237.3	199.7	223.6	1020.7	928.5	638.4	397.7
87.5°	102.4	99.0	122.9	155.3	87.0	73.4	78.5	245.8	204.8	189.4	131.4
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°	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5	6477.5
2.5°	6496.2	6496.2	6472.4	6434.8	6392.2	6364.8	6320.5	6308.6	6262.4	6248.8	6271.0
5°	6574.8	6561.1	6487.7	6382.0	6236.8	6103.7	5956.9	5864.7	5735.0	5689.0	5723.1
7.5°	6673.8	6636.3	6510.0	6277.8	5974.0	5675.3	5364.6	5129.1	4903.8	4823.5	4833.8
10°	6764.3	6711.3	6496.2	6090.0	5564.3	5047.2	4552.1	4205.7	3942.9	3835.3	3859.2
12.5°	6854.7	6757.4	6405.8	5777.7	4982.3	4280.8	3753.3	3483.7	3321.5	3191.8	3234.5
15°	6940.1	6803.5	6265.8	5359.5	4344.0	3632.2	3243.0	3028.0	2898.2	2812.9	2828.3
17.5°	7039.1	6842.8	6055.9	4828.7	3736.3	3183.2	2865.8	2736.0	2710.5	2700.3	2707.0
20°	7177.4	6878.6	5779.4	4234.7	3289.1	2824.8	2661.0	2649.0	2647.4	2642.2	2659.3
22.5°	7325.8	6921.3	5414.2	3695.3	2908.4	2601.2	2572.2	2548.4	2533.0	2531.2	2550.0
25°	7501.6	6934.9	4956.7	3253.2	2584.1	2495.5	2461.2	2425.5	2415.2	2415.2	2425.5
27.5°	7672.3	6888.8	4424.2	2869.2	2401.6	2398.1	2353.7	2341.8	2340.1	2345.2	2358.8
30°	7843.0	6801.8	3895.0	2514.2	2295.7	2295.7	2280.3	2288.9	2295.7	2312.8	2324.7
32.5°	8073.4	6709.6	3452.9	2251.3	2203.5	2186.4	2201.8	2218.9	2225.7	2247.9	2266.7
35°	8411.4	6644.8	3101.3	2107.9	2107.9	2085.8	2094.3	2090.9	2075.5	2065.3	2089.2
37.5°	8858.6	6641.4	2811.2	2041.4	2027.8	2024.4	2026.0	2003.9	1944.1	1872.4	1874.1
40°	9396.2	6733.5	2587.6	1995.3	1985.1	2005.5	1995.3	1935.6	1771.7	1647.1	1643.7
42.5°	10118.2	6996.3	2444.2	1939.0	1969.7	1995.3	1954.4	1747.8	1636.8	1553.3	1549.8
45°	10968.2	7423.0	2370.8	1879.2	1940.7	1971.4	1773.5	1682.9	1594.2	1493.5	1486.7
47.5°	11930.9	7960.8	2353.7	1823.0	1875.9	1894.6	1696.6	1655.7	1554.9	1445.7	1437.2
50°	12978.9	8597.4	2399.8	1756.3	1782.0	1717.1	1671.1	1633.4	1529.3	1421.8	1409.9
52.5°	14062.8	9298.9	2492.0	1665.9	1688.1	1616.4	1660.8	1628.3	1514.0	1368.9	1358.6
55°	15127.8	10005.5	2580.7	1560.0	1592.5	1525.9	1631.8	1607.8	1444.0	1280.1	1271.6
57.5°	16210.0	10708.8	2667.8	1466.2	1500.3	1438.9	1585.7	1553.3	1365.5	1198.2	1194.8
60°	17334.8	11391.5	2708.8	1375.8	1399.6	1358.6	1515.7	1459.4	1276.7	1114.6	1109.5
62.5°	18387.9	11959.9	2642.2	1285.2	1300.6	1283.5	1423.5	1348.4	1188.0	1020.7	1019.0
65°	19444.5	12297.8	2437.3	1196.5	1199.9	1191.4	1293.8	1229.0	1083.8	938.8	928.5
67.5°	20402.0	12487.4	2111.4	1101.0	1092.3	1089.0	1172.6	1099.2	983.2	856.8	846.5
70°	20605.1	12006.0	1612.9	988.3	988.3	979.7	1039.5	964.3	872.2	769.8	766.4
72.5°	18819.7	10099.4	1145.3	860.3	873.9	856.8	906.3	843.2	759.5	691.3	670.8
75°	15175.6	7406.0	832.9	728.8	752.8	723.8	769.8	725.4	653.7	652.0	587.1
77.5°	10427.1	4579.5	604.2	600.9	617.9	580.4	633.2	609.4	544.5	515.5	483.1
80°	4449.7	1826.3	440.3	464.2	464.2	430.1	491.6	498.4	442.1	428.4	428.4
82.5°	885.8	518.9	308.9	319.2	300.4	290.2	348.2	385.7	532.5	592.2	594.0
85°	266.3	191.2	186.0	174.1	153.6	155.3	204.8	387.4	478.0	273.1	235.5
87.5°	73.4	47.8	49.5	39.3	32.4	42.6	70.0	293.6	160.4	68.3	58.0
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)