

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: P969827

Luminaire Tested: **NAV-SB6A-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969827
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-SB6A-735-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27712.9 lumens
Efficiency: N/A
Efficacy: 162.2 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): 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

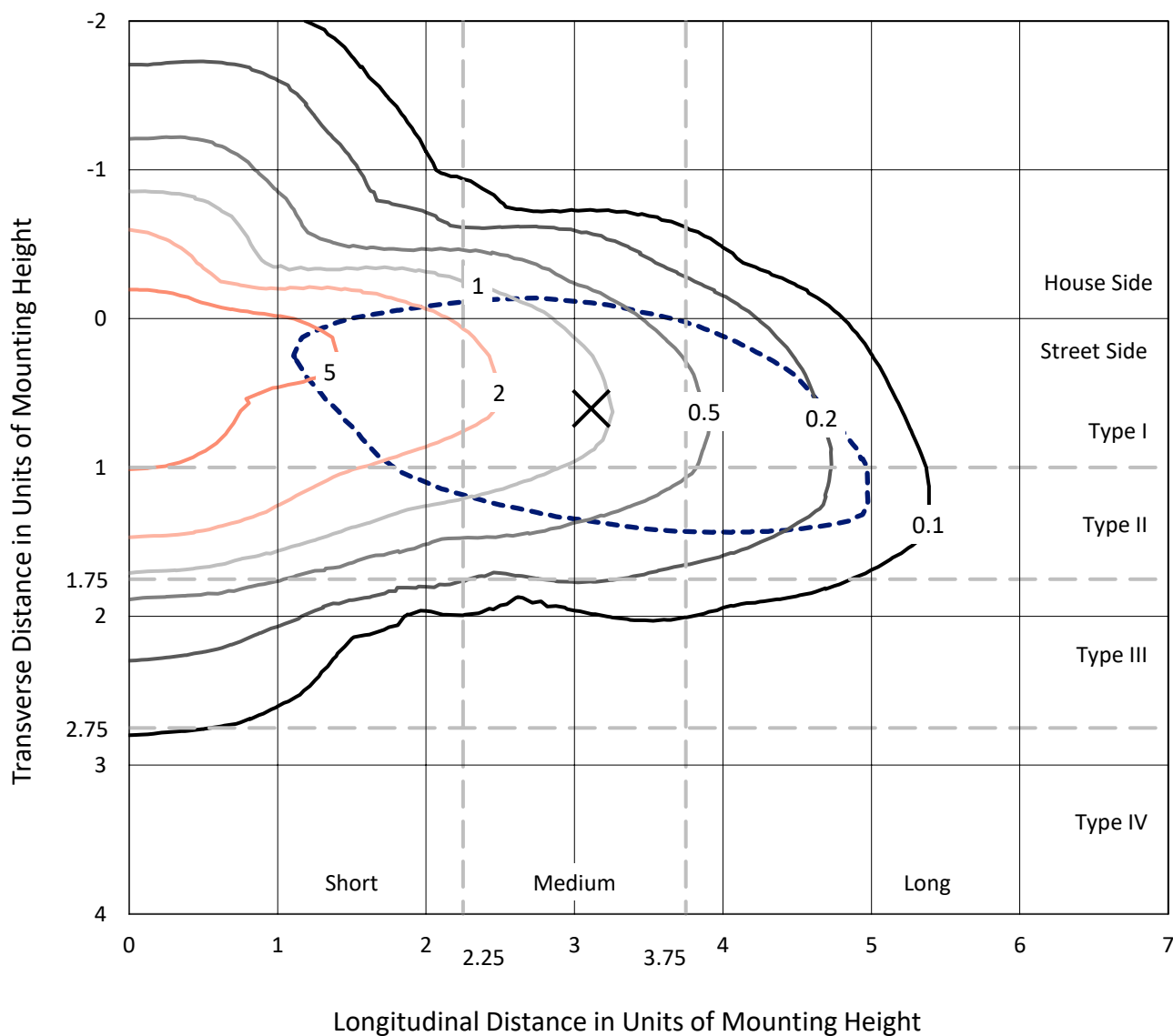


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Iso-Footcandle Lines of Horizontal Illumination

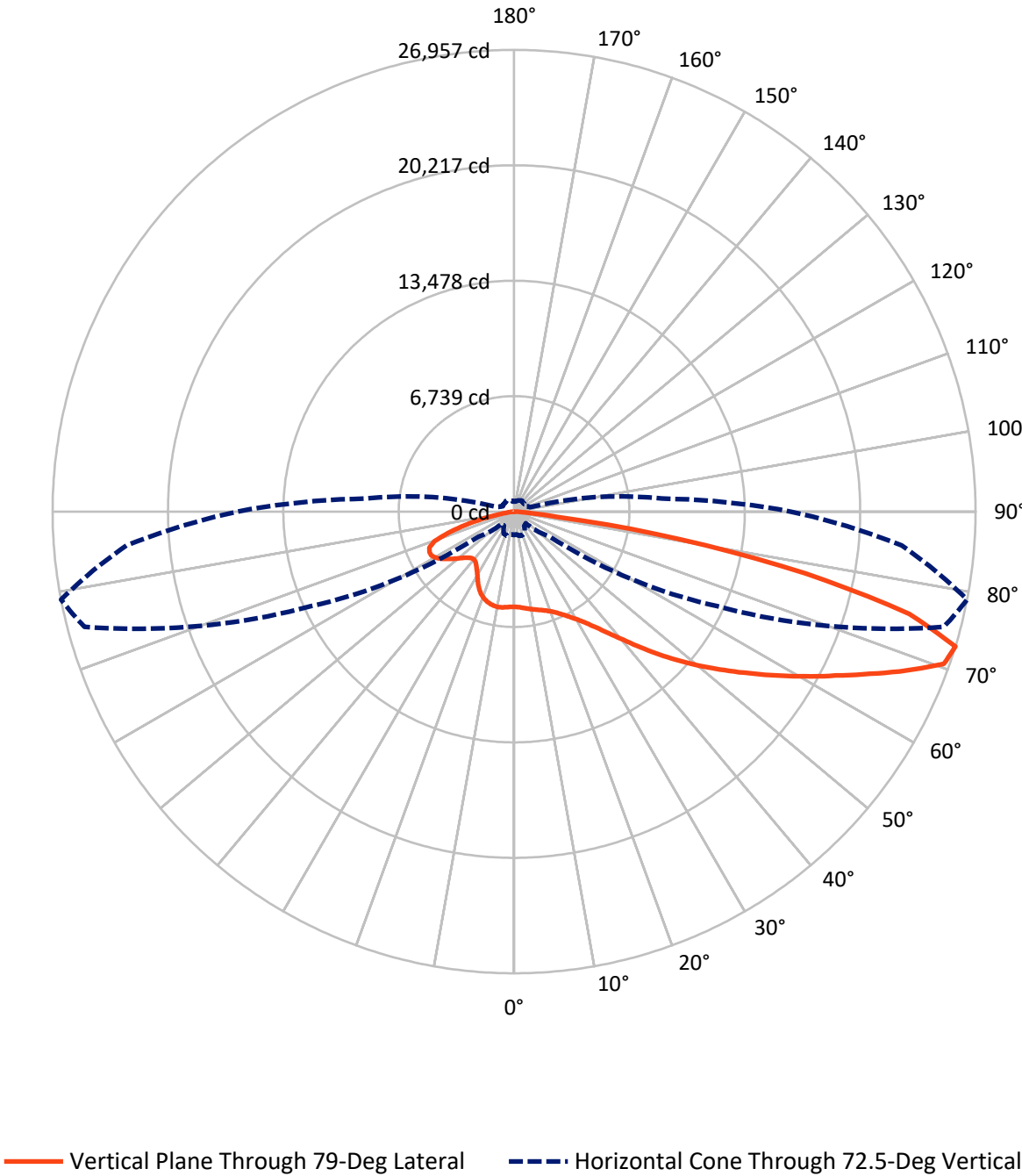
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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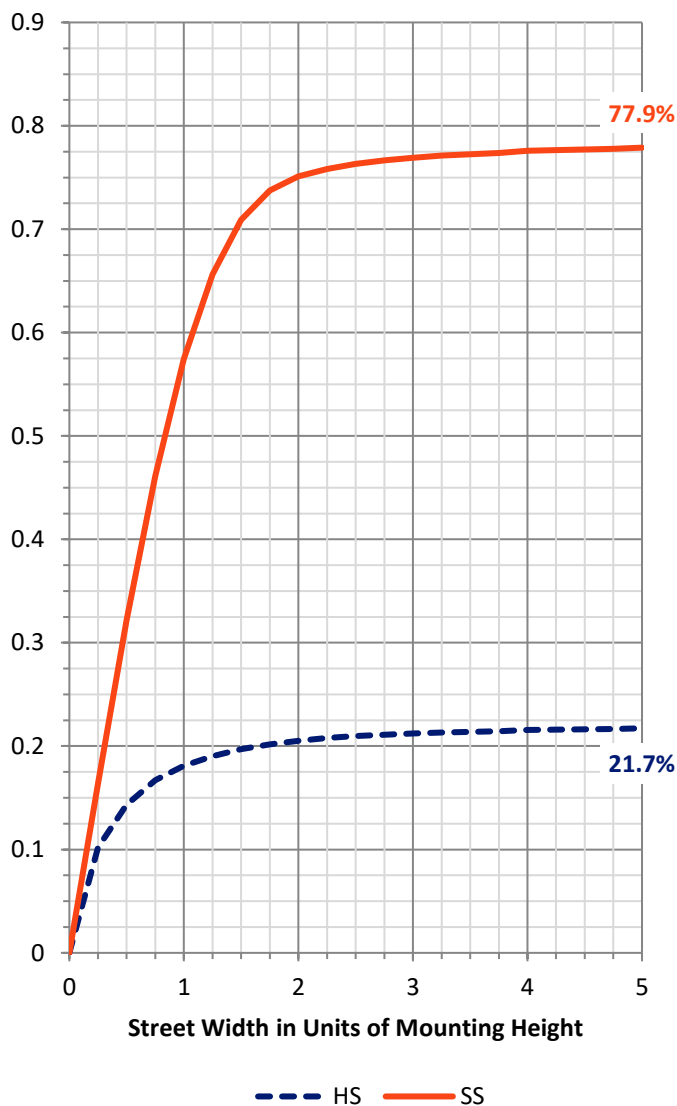
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6098.4	0.0	6098.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21614.6	0.0	21614.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	27712.9	0.0	27712.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.0	1.8
10°-20°	1320.2	4.8
20°-30°	2130.3	7.7
30°-40°	3197.3	11.5
40°-50°	4535.6	16.4
50°-60°	5727.8	20.7
60°-70°	5817.4	21.0
70°-80°	3964.8	14.3
80°-90°	514.4	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°	27712.9	100.0
0°-180°	27712.9	100.0

Coefficient of Utilization



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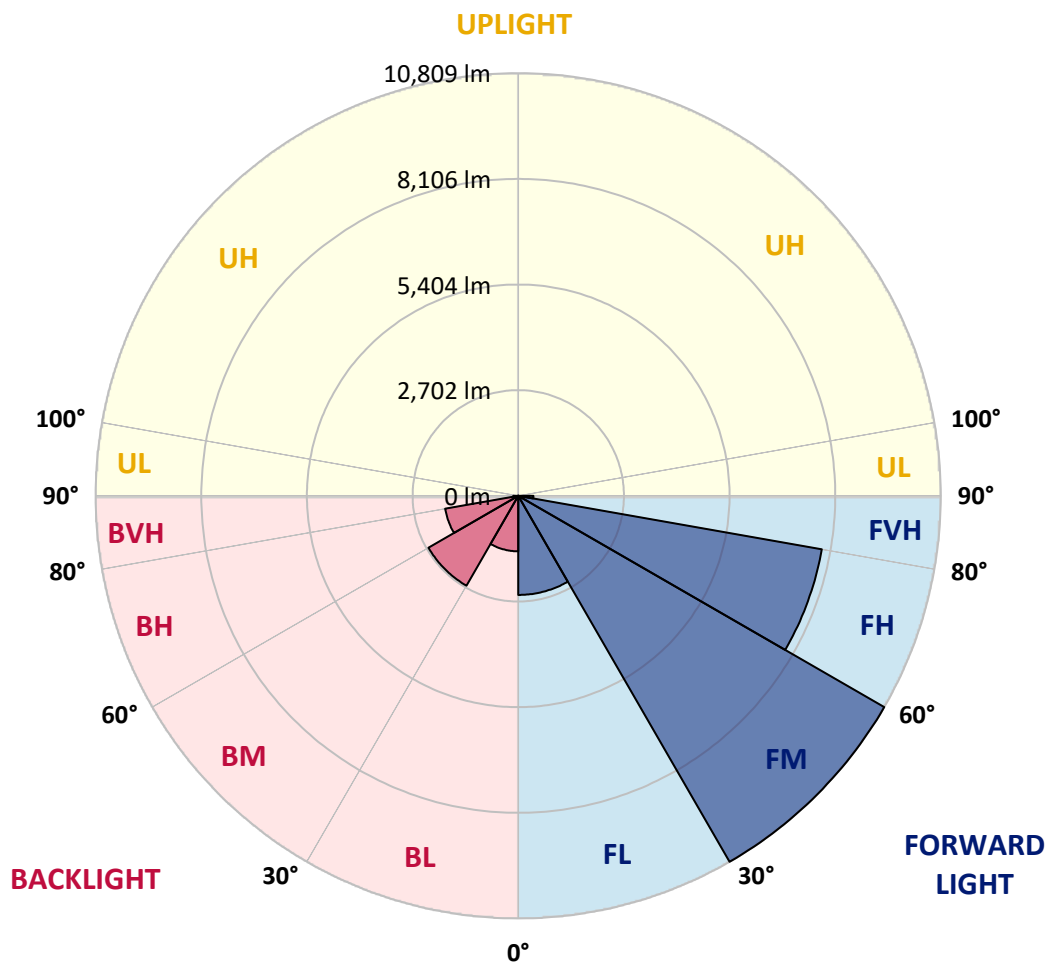
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2535.1	9.1			
FM	(30°-60°)	10808.6	39.0			
FH	(60°-80°)	7883.4	28.4			G4/12000
FVH	(80°-90°)	387.5	1.4			G3/500
BL	(0°-30°)	1420.5	5.1	B3/2500		
BM	(30°-60°)	2652.2	9.6	B3/5000		
BH	(60°-80°)	1898.8	6.9	B3/2500		G3/2500
BVH	(80°-90°)	126.9	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°	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1
2.5°	5566.1	5539.6	5555.8	5549.9	5557.2	5566.1	5568.9	5573.3	5588.0	5586.6	5585.1
5°	5554.3	5527.9	5549.9	5542.6	5561.6	5582.2	5599.8	5615.9	5639.3	5649.6	5634.9
7.5°	5529.4	5511.8	5533.8	5555.8	5591.0	5621.7	5646.6	5683.3	5717.0	5722.9	5733.1
10°	5384.2	5371.1	5422.4	5479.5	5576.3	5659.8	5714.1	5756.6	5793.3	5799.1	5813.8
12.5°	5233.2	5217.1	5274.3	5352.0	5508.9	5659.8	5774.2	5829.9	5862.2	5881.2	5903.2
15°	5208.3	5195.2	5227.4	5294.8	5425.3	5620.3	5815.2	5917.8	5945.7	5967.7	5976.5
17.5°	5328.6	5303.7	5316.9	5340.2	5416.5	5583.6	5847.5	6017.6	6060.0	6083.5	6083.5
20°	5607.1	5571.9	5551.4	5504.5	5491.2	5589.5	5844.5	6137.7	6193.5	6222.8	6230.1
22.5°	5978.0	5954.5	5910.6	5791.8	5662.8	5661.3	5900.3	6291.7	6395.7	6423.6	6406.0
25°	6426.5	6391.4	6335.6	6174.4	5926.7	5803.5	5994.1	6488.0	6662.5	6669.9	6618.5
27.5°	6942.5	6889.7	6813.5	6601.0	6266.7	6026.3	6137.7	6713.9	6968.9	6966.0	6860.4
30°	7486.4	7433.6	7352.9	7094.9	6674.3	6326.8	6337.1	6957.2	7332.4	7316.3	7136.0
32.5°	7883.6	7844.0	7827.9	7628.6	7143.3	6681.6	6565.7	7226.9	7781.0	7766.3	7514.3
35°	8188.5	8137.3	8156.3	8055.2	7654.9	7078.9	6845.8	7547.9	8326.4	8324.8	8011.2
37.5°	8490.5	8445.1	8461.2	8393.7	8128.5	7583.2	7187.3	7940.8	9002.2	9034.3	8612.2
40°	8766.1	8717.7	8782.2	8719.2	8496.4	8119.6	7575.8	8385.0	9785.0	9846.5	9339.3
42.5°	8931.7	8893.6	9000.6	9002.2	8815.9	8572.6	8002.4	8874.6	10690.9	10828.6	10233.5
45°	8988.9	8975.7	9137.0	9170.7	9098.8	8835.0	8386.4	9408.2	11667.2	11913.4	11252.2
47.5°	8927.3	8902.4	9125.3	9249.8	9307.0	8958.1	8704.5	9985.8	12664.0	13024.6	12363.4
50°	8616.6	8568.2	8899.5	9161.9	9365.6	9038.8	9025.5	10652.7	13797.1	14191.4	13480.5
52.5°	8058.0	8021.4	8398.1	8854.1	9236.7	9078.3	9386.2	11381.3	14873.1	15383.2	14625.3
55°	7344.2	7295.8	7710.7	8305.8	8915.7	9065.1	9746.8	12196.4	16142.5	16660.0	15808.3
57.5°	6212.5	6115.8	6640.6	7344.2	8392.3	9049.0	10122.1	13006.9	17432.5	18052.6	17070.5
60°	4561.9	4418.3	5061.8	5895.9	7369.1	8892.2	10586.7	13915.8	18980.5	19539.1	18448.4
62.5°	2656.2	2572.6	2993.4	3771.8	5554.3	7968.7	10847.7	14972.8	20502.2	21088.5	19802.9
65°	2062.5	2039.0	2075.7	2135.8	3091.6	5966.2	10042.9	16003.3	22437.1	22847.6	21214.5
67.5°	1886.6	1869.0	1885.2	1772.3	1568.6	3323.3	7945.2	16264.2	24509.9	24759.1	22450.4
70°	1677.0	1656.5	1709.3	1612.5	1234.3	1511.4	5133.6	15317.2	26159.0	26626.7	23390.0
72.5°	1366.2	1342.7	1466.0	1421.9	1039.4	970.5	2578.5	13067.1	25986.1	26956.5	22717.1
75°	1049.6	1036.4	1183.0	1219.6	847.3	763.7	1237.2	9713.1	22868.1	23845.9	19578.6
77.5°	815.1	804.8	879.6	1012.9	683.2	592.2	760.8	6161.2	17233.1	17404.7	13492.2
80°	611.3	582.0	650.9	784.2	532.1	432.4	516.0	3592.9	10893.1	9874.3	5872.4
82.5°	382.6	368.0	425.1	523.4	375.3	297.6	335.7	1984.8	4365.5	2571.2	1133.1
85°	218.4	212.6	231.6	299.1	203.8	171.5	192.0	876.6	797.4	548.3	341.5
87.5°	87.9	85.0	105.6	133.4	74.7	63.0	67.4	211.0	175.9	162.7	112.9
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°	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1
2.5°	5579.3	5579.3	5558.7	5526.5	5489.8	5466.3	5428.2	5417.9	5378.4	5366.7	5385.8
5°	5646.6	5634.9	5571.9	5481.0	5356.4	5242.1	5116.0	5036.8	4925.4	4885.9	4915.2
7.5°	5731.7	5699.4	5591.0	5391.6	5130.6	4874.2	4607.4	4405.0	4211.5	4142.6	4151.5
10°	5809.4	5764.0	5579.3	5230.4	4778.9	4334.7	3909.6	3612.0	3386.2	3293.8	3314.4
12.5°	5887.1	5803.5	5501.6	4962.1	4279.0	3676.5	3223.5	2991.9	2852.7	2741.3	2777.9
15°	5960.4	5843.1	5381.4	4603.0	3730.7	3119.5	2785.2	2600.5	2489.1	2415.8	2429.0
17.5°	6045.3	5876.8	5201.1	4147.0	3208.9	2733.9	2461.2	2349.8	2327.9	2319.1	2324.9
20°	6164.1	5907.6	4963.6	3636.9	2824.8	2426.1	2285.3	2275.1	2273.7	2269.2	2283.9
22.5°	6291.7	5944.3	4649.8	3173.7	2497.9	2234.0	2209.1	2188.6	2175.4	2173.9	2190.0
25°	6442.6	5956.0	4257.0	2794.0	2219.3	2143.2	2113.9	2083.0	2074.3	2074.3	2083.0
27.5°	6589.2	5916.4	3799.6	2464.2	2062.5	2059.6	2021.5	2011.3	2009.7	2014.1	2025.9
30°	6735.8	5841.6	3345.2	2159.3	1971.7	1971.7	1958.5	1965.7	1971.7	1986.3	1996.6
32.5°	6933.7	5762.4	2965.5	1933.6	1892.5	1877.8	1891.0	1905.7	1911.5	1930.6	1946.7
35°	7224.0	5706.8	2663.6	1810.4	1810.4	1791.3	1798.7	1795.7	1782.6	1773.8	1794.3
37.5°	7608.1	5703.8	2414.4	1753.3	1741.5	1738.6	1740.0	1721.0	1669.6	1608.1	1609.6
40°	8069.8	5782.9	2222.3	1713.6	1704.9	1722.4	1713.6	1662.3	1521.6	1414.6	1411.6
42.5°	8689.8	6008.8	2099.2	1665.3	1691.7	1713.6	1678.4	1501.1	1405.8	1333.9	1331.1
45°	9419.9	6375.2	2036.2	1614.0	1666.8	1693.1	1523.0	1445.4	1369.2	1282.7	1276.8
47.5°	10246.7	6837.0	2021.5	1565.6	1611.0	1627.2	1457.1	1421.9	1335.5	1241.6	1234.3
50°	11146.8	7383.8	2061.1	1508.4	1530.4	1474.7	1435.1	1402.9	1313.4	1221.1	1210.8
52.5°	12077.6	7986.3	2140.2	1430.7	1449.8	1388.3	1426.3	1398.5	1300.2	1175.7	1166.9
55°	12992.3	8593.1	2216.5	1339.9	1367.7	1310.6	1401.4	1380.9	1240.1	1099.4	1092.1
57.5°	13921.7	9197.1	2291.2	1259.2	1288.5	1235.7	1361.8	1333.9	1172.7	1029.1	1026.1
60°	14887.7	9783.4	2326.3	1181.5	1202.0	1166.9	1301.8	1253.4	1096.5	957.2	952.8
62.5°	15792.2	10271.6	2269.2	1103.8	1117.0	1102.4	1222.5	1158.0	1020.3	876.6	875.1
65°	16699.6	10561.8	2093.4	1027.6	1030.5	1023.2	1111.2	1055.4	930.8	806.3	797.4
67.5°	17522.0	10724.6	1813.3	945.5	938.2	935.2	1007.1	944.0	844.4	735.8	727.1
70°	17696.4	10311.2	1385.3	848.8	848.8	841.4	892.8	828.2	749.1	661.1	658.2
72.5°	16163.0	8673.8	983.6	738.8	750.5	735.8	778.4	724.2	652.3	593.7	576.0
75°	13033.4	6360.5	715.3	626.0	646.5	621.6	661.1	623.0	561.4	560.0	504.3
77.5°	8955.2	3933.0	519.0	516.0	530.6	498.5	543.9	523.4	467.6	442.7	414.8
80°	3821.6	1568.6	378.2	398.7	398.7	369.4	422.2	428.0	379.7	368.0	368.0
82.5°	760.8	445.7	265.4	274.1	258.0	249.2	299.1	331.3	457.4	508.7	510.1
85°	228.7	164.2	159.8	149.5	131.9	133.4	175.9	332.7	410.4	234.5	202.3
87.5°	63.0	41.0	42.5	33.7	27.9	36.7	60.1	252.2	137.8	58.6	49.8
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)