

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: P969953

Luminaire Tested: **NAV-SB6A-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969953
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-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 23696 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

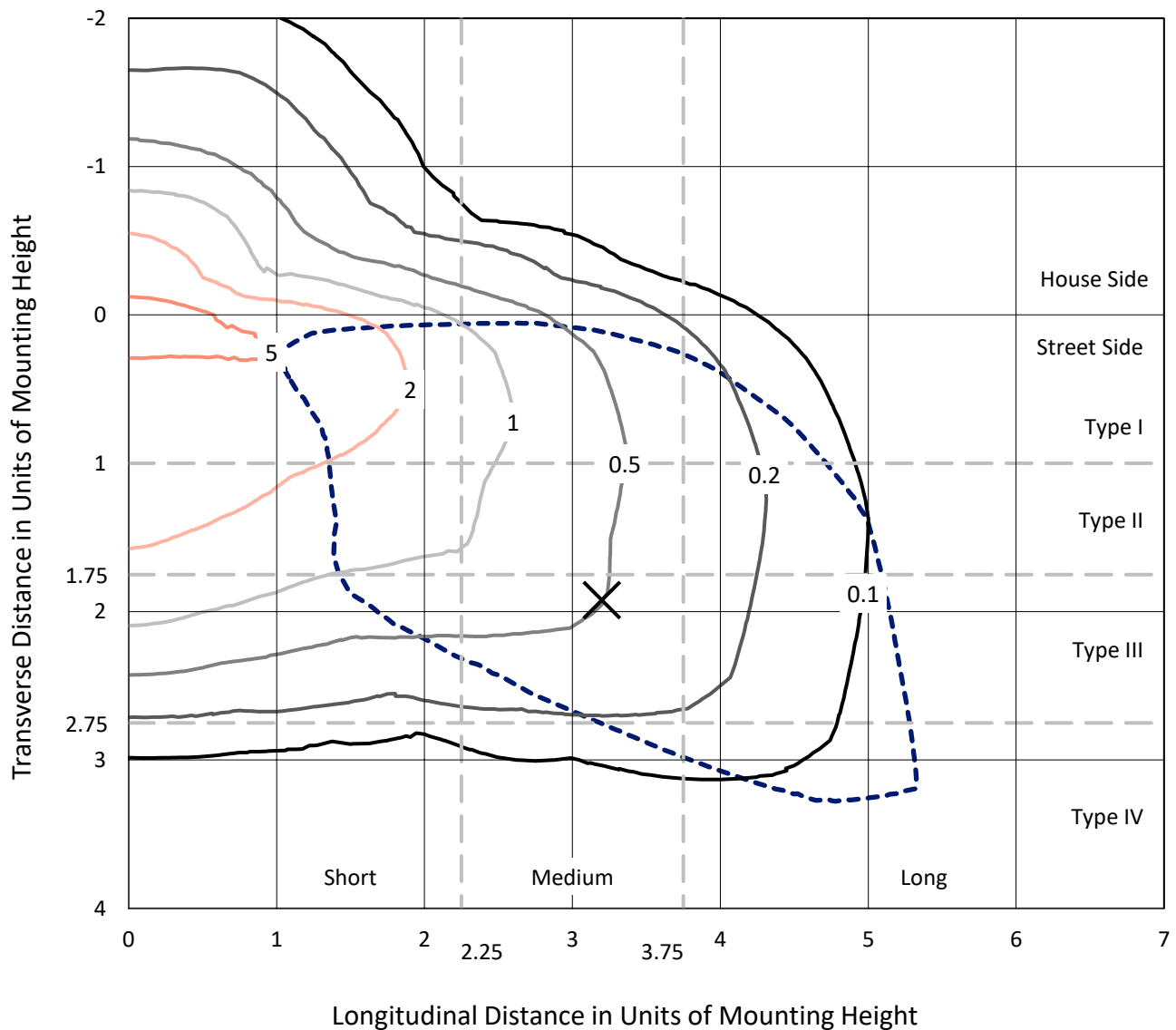
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

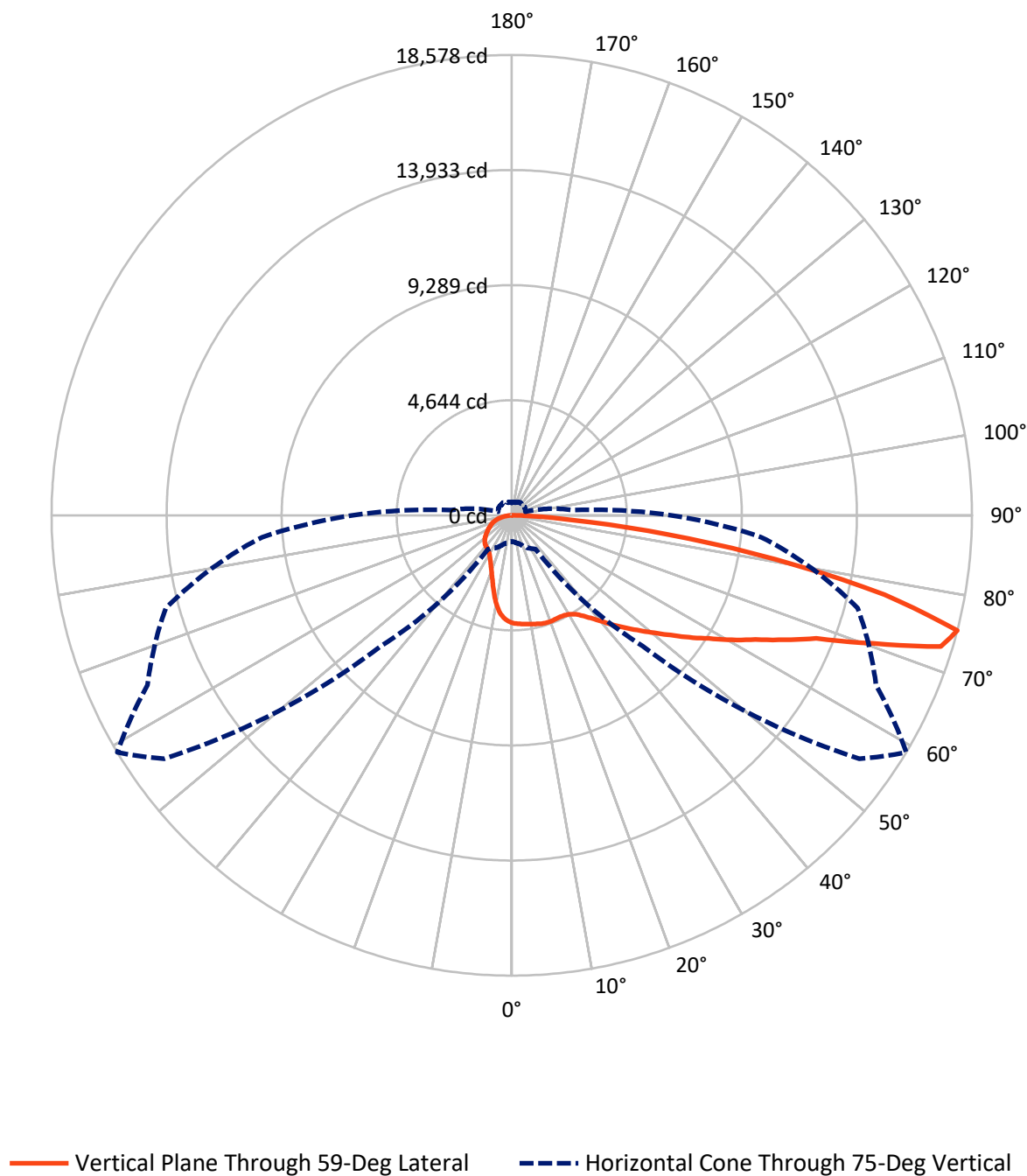
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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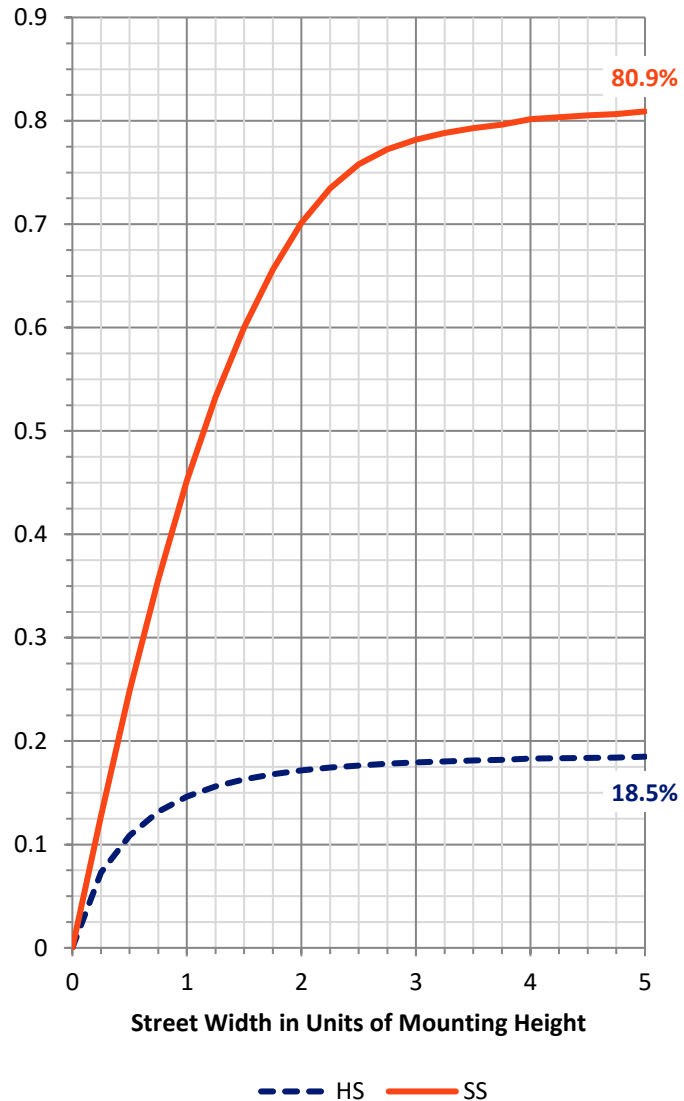
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4444.3	0.0	4444.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19251.6	0.0	19251.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	23696.0	0.0	23696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.0	1.6
10°-20°	996.8	4.2
20°-30°	1514.1	6.4
30°-40°	2250.7	9.5
40°-50°	3347.2	14.1
50°-60°	4543.4	19.2
60°-70°	5546.7	23.4
70°-80°	4353.0	18.4
80°-90°	754.1	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°	23696.0	100.0
0°-180°	23696.0	100.0

Coefficient of Utilization



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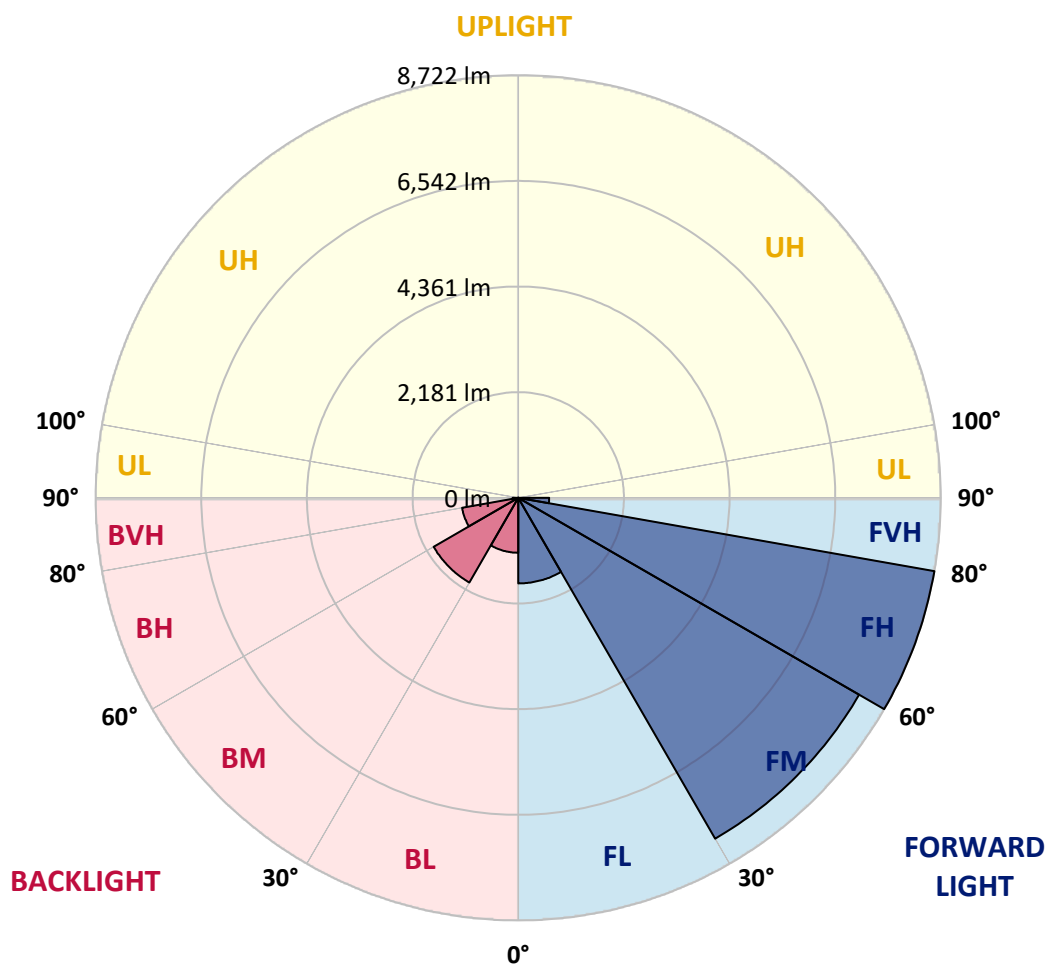
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1766.8	7.5			
FM	(30°-60°)	8124.0	34.3			
FH	(60°-80°)	8722.2	36.8			G4/12000
FVH	(80°-90°)	638.6	2.7			G4/750
BL	(0°-30°)	1134.1	4.8	B3/2500		
BM	(30°-60°)	2017.3	8.5	B2/2500		
BH	(60°-80°)	1177.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	115.4	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°	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4
2.5°	4386.3	4371.0	4386.3	4379.9	4377.4	4372.2	4373.6	4382.5	4377.4	4383.7	4362.1
5°	4357.0	4348.0	4363.3	4359.5	4376.1	4378.7	4395.2	4405.4	4411.8	4413.0	4396.5
7.5°	4308.6	4299.7	4321.3	4339.1	4374.8	4385.1	4419.5	4436.0	4444.9	4460.3	4436.0
10°	4131.4	4127.6	4181.1	4248.6	4332.8	4385.1	4437.3	4465.3	4479.4	4520.1	4492.1
12.5°	3817.8	3822.8	3893.0	4023.0	4191.2	4359.5	4457.7	4498.5	4520.1	4571.1	4558.4
15°	3518.2	3517.0	3593.4	3732.3	3968.2	4247.4	4467.9	4538.0	4575.0	4650.2	4640.0
17.5°	3344.9	3339.8	3393.3	3499.1	3718.4	4075.3	4442.3	4559.7	4638.7	4733.0	4724.1
20°	3313.0	3302.8	3330.8	3383.1	3538.6	3886.6	4376.1	4559.7	4689.7	4812.1	4806.9
22.5°	3429.0	3412.4	3401.0	3394.6	3463.4	3731.1	4300.9	4544.3	4764.9	4925.5	4916.6
25°	3662.2	3636.8	3578.2	3520.8	3500.4	3661.0	4234.6	4540.5	4877.1	5078.5	5045.4
27.5°	4039.6	4007.7	3889.2	3751.5	3627.9	3696.7	4205.3	4563.5	5000.8	5240.4	5174.1
30°	4507.4	4473.0	4323.9	4112.2	3890.5	3829.3	4242.3	4631.1	5158.8	5455.8	5325.8
32.5°	4926.8	4888.5	4761.0	4545.7	4246.1	4058.7	4359.5	4759.8	5407.4	5755.4	5554.0
35°	5299.0	5254.4	5139.7	4940.8	4682.0	4381.2	4571.1	4988.0	5760.5	6242.2	5863.7
37.5°	5663.5	5611.3	5486.4	5276.1	5095.1	4810.8	4863.0	5281.1	6229.5	6833.8	6274.1
40°	6071.5	5996.2	5844.5	5636.8	5460.9	5314.3	5246.8	5640.7	6706.3	7494.1	6786.6
42.5°	6466.6	6395.3	6214.3	6037.0	5816.6	5774.4	5691.6	6061.2	7227.7	8219.4	7306.7
45°	6892.4	6807.0	6587.8	6363.4	6224.4	6080.4	6122.4	6481.9	7738.9	8958.7	7852.2
47.5°	7291.3	7195.8	6937.0	6687.2	6610.7	6337.9	6517.7	6944.7	8270.4	9708.3	8392.7
50°	7506.8	7412.5	7197.0	6971.4	6911.5	6655.3	6945.9	7453.3	8827.4	10455.2	8911.6
52.5°	7686.6	7584.6	7302.8	7178.0	7160.1	7000.7	7473.7	8034.6	9384.5	11115.5	9412.5
55°	7877.7	7764.3	7404.8	7292.7	7374.3	7388.3	8099.6	8693.5	9973.4	11759.3	9885.4
57.5°	8098.3	7954.2	7503.0	7389.5	7583.3	7842.1	8818.5	9376.8	10552.1	12355.9	10306.1
60°	8306.1	8160.7	7691.6	7543.8	7809.0	8368.5	9643.2	10204.1	11207.3	12887.4	10703.8
62.5°	8346.9	8227.1	7842.1	7840.8	8114.8	8982.9	10619.7	11039.0	11779.7	13412.5	11060.8
65°	7640.7	7565.4	7337.3	7829.4	8553.3	9867.6	11707.0	12107.3	12507.6	13871.5	11374.3
67.5°	5815.2	5825.5	5808.9	6758.5	8199.0	11138.5	13281.3	13250.7	13406.2	14386.5	11735.0
70°	2659.1	2719.0	3109.0	4665.5	6568.6	11285.0	15884.2	15487.9	14534.3	15053.1	12047.3
72.5°	1436.6	1482.5	1641.8	2260.1	3949.1	10033.3	17829.5	18111.2	16034.7	15501.9	11704.5
75°	1054.2	1079.7	1190.5	1436.6	1658.4	7457.1	17132.3	18577.7	16222.1	14455.3	10107.2
77.5°	789.0	800.5	891.0	1138.4	849.0	3931.2	13689.2	15385.9	13886.8	11876.6	7466.0
80°	572.4	585.1	652.6	854.0	595.3	1437.9	9399.8	10799.4	9510.7	7570.5	3720.9
82.5°	395.1	400.3	429.6	581.3	415.5	558.3	5333.4	6332.8	5309.2	2656.5	1004.5
85°	238.4	244.8	257.5	339.1	235.9	265.2	2302.1	2381.2	1587.0	634.8	312.3
87.5°	98.2	104.6	114.7	142.8	93.1	73.9	379.9	476.7	297.0	186.1	96.9
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°	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4	4349.4
2.5°	4355.7	4346.8	4322.5	4289.4	4258.9	4220.6	4204.0	4190.0	4177.3	4153.0	4141.5
5°	4382.5	4358.3	4293.2	4209.2	4113.5	4009.0	3907.0	3836.9	3777.0	3732.3	3695.4
7.5°	4423.3	4377.4	4258.9	4086.8	3867.5	3643.2	3440.5	3296.4	3188.1	3148.6	3079.7
10°	4465.3	4410.6	4204.0	3900.6	3522.0	3176.6	2907.6	2759.8	2673.1	2645.0	2601.7
12.5°	4515.0	4434.8	4118.7	3641.8	3135.8	2757.2	2522.6	2436.0	2391.3	2376.1	2379.9
15°	4587.7	4455.2	3989.9	3318.1	2767.4	2451.3	2299.6	2239.7	2216.8	2215.4	2220.6
17.5°	4642.5	4459.0	3789.7	2971.4	2484.4	2266.5	2141.5	2118.6	2133.8	2156.8	2165.7
20°	4703.7	4424.5	3527.1	2655.3	2285.5	2104.5	2052.3	2067.6	2104.5	2137.7	2149.2
22.5°	4747.1	4362.1	3209.8	2409.3	2113.4	2011.5	2009.0	2040.8	2061.2	2077.8	2086.7
25°	4785.3	4256.3	2873.2	2202.7	1972.0	1955.4	1983.5	1973.2	1959.3	1973.2	1982.1
27.5°	4813.3	4089.3	2572.3	2021.7	1872.6	1917.2	1900.6	1877.7	1876.4	1884.1	1896.8
30°	4804.4	3866.2	2325.1	1849.6	1802.5	1845.8	1806.3	1802.5	1798.7	1802.5	1816.5
32.5°	4804.4	3612.5	2135.2	1731.0	1757.9	1741.3	1737.5	1728.6	1713.2	1712.0	1728.6
35°	4831.1	3358.9	1972.0	1667.4	1720.9	1681.3	1683.9	1662.2	1630.4	1615.1	1630.4
37.5°	4886.0	3155.0	1810.2	1636.7	1655.9	1654.6	1644.4	1607.4	1551.3	1502.9	1519.5
40°	5018.6	3095.0	1699.2	1622.7	1625.2	1640.5	1613.8	1542.4	1414.9	1335.9	1346.1
42.5°	5226.4	3195.7	1675.0	1588.3	1604.8	1620.2	1567.9	1402.2	1311.7	1264.5	1264.5
45°	5490.2	3371.6	1727.2	1538.6	1556.5	1583.2	1427.7	1348.7	1307.9	1309.1	1315.5
47.5°	5824.2	3556.4	1824.1	1495.3	1486.4	1501.6	1334.7	1286.2	1230.1	1244.1	1279.8
50°	6210.5	3743.8	1915.9	1436.6	1408.6	1358.8	1274.7	1228.9	1157.4	1124.3	1133.2
52.5°	6628.6	3924.8	1952.8	1365.2	1324.4	1267.1	1233.9	1177.8	1091.1	1036.4	1035.0
55°	7024.9	4089.3	1912.0	1279.8	1240.2	1195.7	1190.5	1156.2	1063.1	986.7	986.7
57.5°	7399.8	4227.0	1810.2	1193.1	1154.9	1128.1	1162.6	1145.9	1028.7	930.5	925.5
60°	7717.1	4321.3	1662.2	1105.2	1078.4	1064.4	1116.6	1111.5	980.2	870.6	866.8
62.5°	7969.6	4358.3	1499.1	1021.0	1014.6	989.2	1052.9	1052.9	919.1	812.0	808.2
65°	8167.1	4322.5	1333.3	938.2	950.9	912.7	975.2	967.5	854.0	759.7	754.6
67.5°	8341.8	4205.3	1149.8	856.6	885.9	837.5	893.6	875.8	782.7	707.5	702.3
70°	8419.6	3932.5	940.7	775.0	810.7	763.5	812.0	778.9	702.3	651.4	641.1
72.5°	7794.9	3268.4	740.6	689.6	720.2	681.9	724.1	685.8	615.7	592.8	573.6
75°	6448.8	2452.5	569.8	596.6	619.5	590.2	618.3	590.2	526.4	543.0	495.9
77.5°	4683.3	1655.9	435.9	498.5	508.6	493.3	517.5	485.6	428.3	424.5	405.4
80°	2328.9	970.1	341.6	393.9	390.1	379.9	408.0	392.6	344.2	364.6	360.7
82.5°	674.3	415.5	248.6	276.6	269.0	271.5	291.9	299.6	448.7	444.8	455.1
85°	211.6	163.2	149.1	154.3	146.6	150.4	172.1	341.6	316.1	184.8	200.1
87.5°	54.8	56.1	37.0	39.6	40.8	48.5	54.8	207.8	99.4	65.0	68.9
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)