

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: P971552

Luminaire Tested: **NAV-SB6D-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41643.7 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

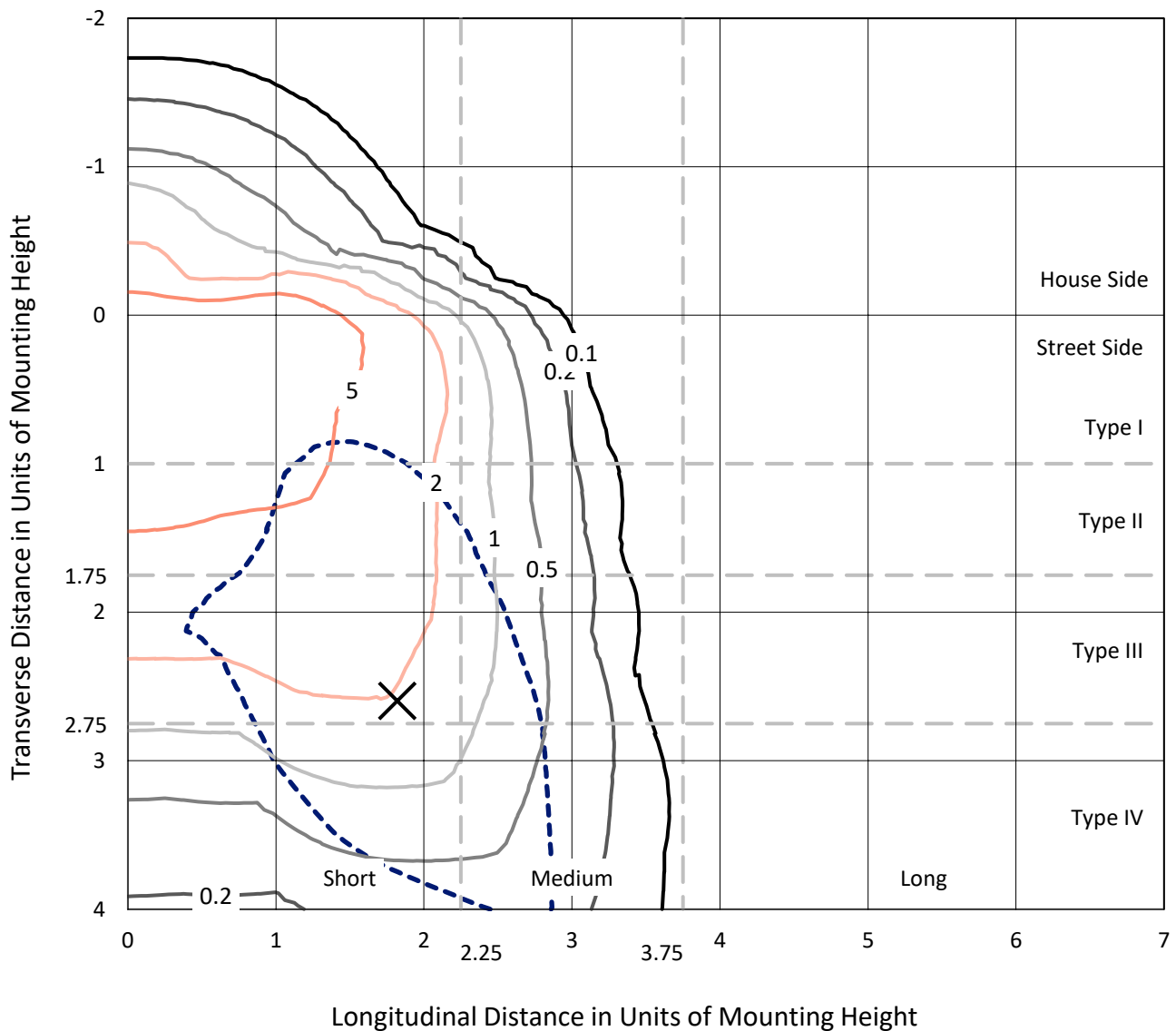
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

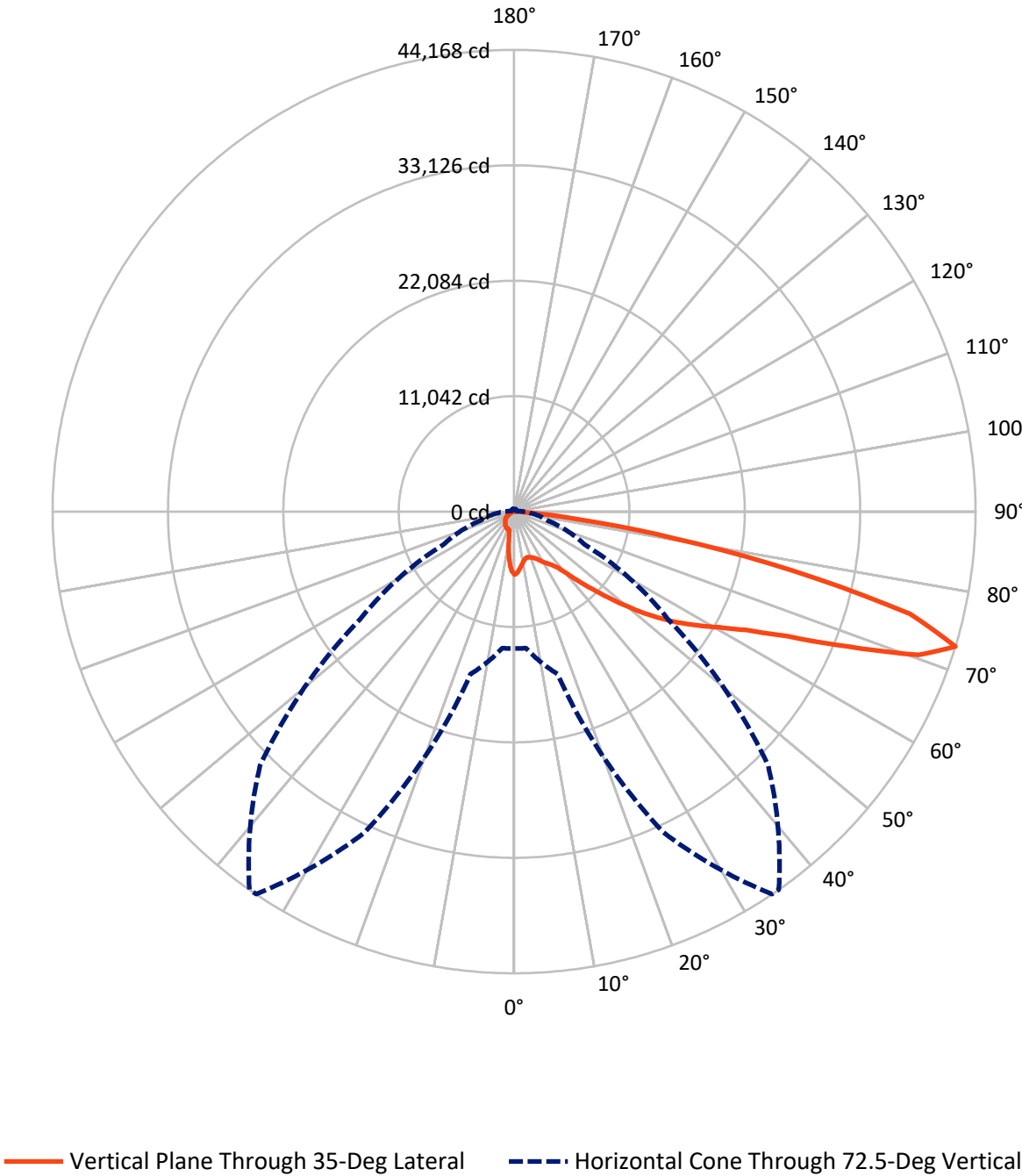
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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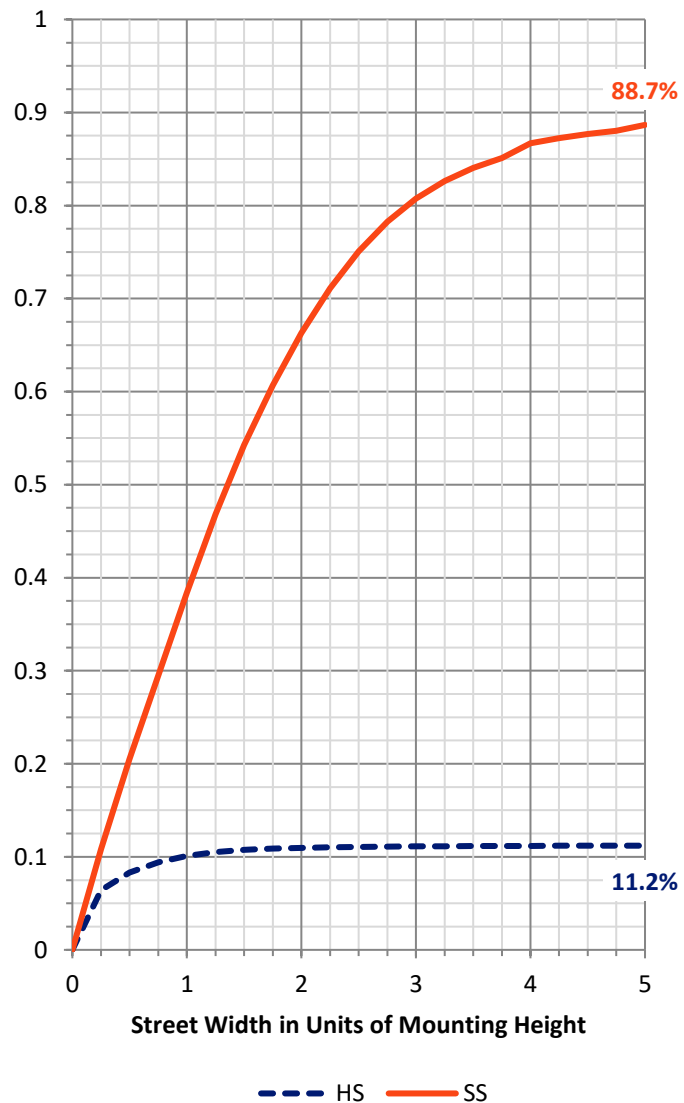
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4686.8	0.0	4686.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	36956.9	0.0	36956.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	41643.7	0.0	41643.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.0	1.2
10°-20°	1160.2	2.8
20°-30°	1884.8	4.5
30°-40°	3144.8	7.6
40°-50°	5950.0	14.3
50°-60°	9454.4	22.7
60°-70°	11695.8	28.1
70°-80°	7270.2	17.5
80°-90°	587.6	1.4
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°	41643.7	100.0
0°-180°	41643.7	100.0

Coefficient of Utilization



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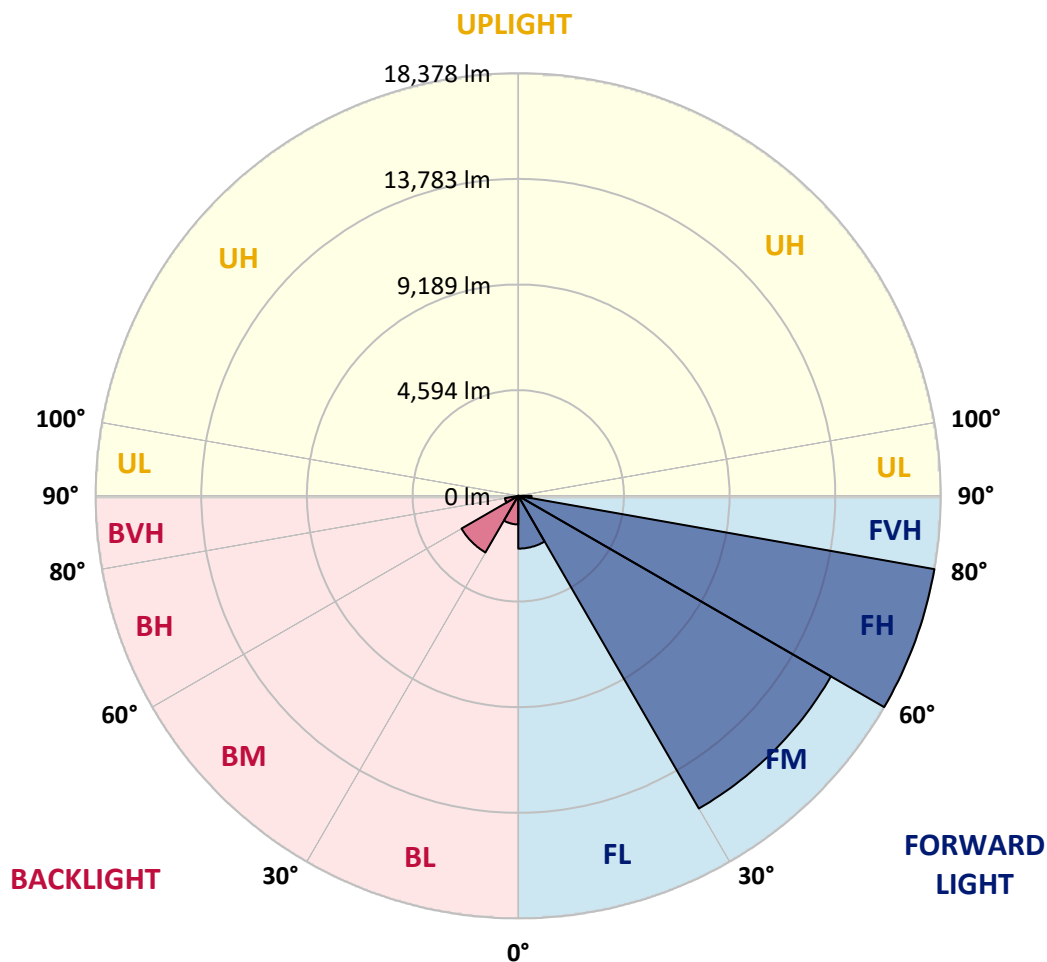
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2295.6	5.5			
FM	(30°-60°)	15703.8	37.7			
FH	(60°-80°)	18377.9	44.1			G5
FVH	(80°-90°)	579.6	1.4			G4/750
BL	(0°-30°)	1245.4	3.0	B3/2500		
BM	(30°-60°)	2845.3	6.8	B3/5000		
BH	(60°-80°)	588.1	1.4	B2/1000		G2/1000
BVH	(80°-90°)	8.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6
2.5°	5767.1	5815.8	5825.1	5840.2	5840.2	5858.6	5889.1	5931.8	6002.0	6038.6	6063.1
5°	5315.4	5352.0	5397.9	5434.4	5504.7	5513.8	5632.8	5748.7	5910.5	6032.5	6117.9
7.5°	4860.8	4903.5	4964.6	5053.0	5144.6	5172.0	5352.0	5547.4	5803.7	6032.5	6175.9
10°	4540.4	4543.4	4598.4	4686.9	4833.4	4866.9	5086.6	5364.2	5684.6	5995.9	6230.9
12.5°	4360.3	4381.8	4406.2	4473.3	4613.6	4635.0	4870.0	5196.4	5565.6	5974.5	6294.9
15°	4360.3	4375.6	4390.9	4424.4	4537.4	4555.7	4763.2	5089.6	5504.7	5983.7	6398.7
17.5°	4406.2	4430.6	4418.4	4458.0	4577.0	4589.2	4772.3	5059.1	5501.6	6041.7	6557.3
20°	4516.0	4534.3	4509.9	4534.3	4653.3	4677.7	4866.9	5117.1	5553.4	6142.4	6755.7
22.5°	4689.9	4699.1	4641.1	4659.4	4781.4	4812.0	5031.7	5281.9	5678.6	6304.1	7021.1
25°	4909.6	4927.9	4839.4	4860.8	4976.8	5013.4	5266.7	5529.1	5876.9	6526.8	7359.8
27.5°	5162.9	5172.0	5095.8	5092.7	5242.3	5294.1	5550.4	5834.2	6142.4	6807.5	7787.0
30°	5452.8	5480.3	5407.0	5394.8	5584.0	5626.7	5879.9	6209.4	6532.9	7228.6	8394.2
32.5°	5681.6	5703.0	5660.3	5690.8	5883.0	5916.6	6279.7	6740.4	7146.3	7826.7	9221.2
35°	6011.1	6023.4	5925.7	5980.7	6200.3	6285.8	6825.9	7485.0	7918.2	8577.3	10301.4
37.5°	7204.2	7204.2	6789.3	6517.7	6728.2	6804.5	7573.4	8421.7	8870.2	9584.3	11662.2
40°	8855.0	8827.5	8220.3	7664.9	7637.5	7787.0	8638.4	9602.6	10099.9	10792.6	13194.0
42.5°	10615.6	10572.9	9746.0	9196.8	9105.2	9157.1	9868.1	11058.1	11564.6	12266.4	14841.8
45°	12177.9	12165.7	11409.0	10670.6	10505.8	10670.6	11402.9	12760.7	13123.9	13862.3	16486.4
47.5°	13487.0	13487.0	12934.7	12452.5	12367.1	12464.7	13480.9	14649.5	14616.0	15561.9	18088.4
50°	14994.3	14982.1	14457.3	14249.8	14338.3	14475.6	15873.1	16639.0	16159.9	17231.0	19519.5
52.5°	16050.1	16123.4	15943.3	15909.7	16361.4	16599.4	18302.0	18585.8	17542.2	18814.6	20590.5
55°	16886.2	16971.6	17179.1	17414.0	18283.6	18594.9	20654.6	20431.8	18698.7	20187.7	21206.8
57.5°	18070.1	17948.1	18268.5	18732.2	20138.9	20514.2	22934.0	22174.1	19629.4	21301.4	21274.0
60°	19507.3	19525.5	19580.5	20166.4	21991.1	22473.2	25179.7	23821.9	20227.4	21985.0	20529.5
62.5°	21234.3	21261.8	21374.7	22274.9	24477.9	24932.6	27572.0	25170.6	20502.0	21792.7	18607.1
65°	21115.3	21231.3	22491.5	25570.3	28258.5	28707.1	30364.0	26116.5	20087.0	20035.2	15149.9
67.5°	19235.7	19424.9	21533.4	29506.6	33958.5	34458.9	33738.8	26302.6	18295.8	15580.2	9883.4
70°	16770.2	16837.4	19373.0	33046.1	40558.5	41065.1	36759.6	24255.2	13883.6	8690.3	4427.5
72.5°	13096.4	13111.7	16086.8	33866.9	44140.8	44168.3	34388.8	18006.0	7466.6	3338.2	1537.9
75°	9355.5	9263.8	10774.3	27465.2	38834.5	39145.8	25780.8	8446.1	2853.0	1577.6	765.9
77.5°	5016.5	5117.1	6096.6	16288.1	26827.4	27358.4	14066.7	2435.0	1452.4	1074.1	506.6
80°	1550.1	1635.5	2499.1	7457.5	15195.7	15516.1	5214.8	1083.2	1013.0	765.9	332.6
82.5°	488.2	506.6	1165.6	3133.7	6307.1	6453.6	1510.4	613.4	692.7	506.6	195.3
85°	140.3	143.4	518.8	1168.7	1559.2	1589.8	424.1	238.0	396.7	314.3	100.7
87.5°	15.3	48.8	195.3	195.3	137.4	134.3	45.8	51.9	112.9	39.7	18.3
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°	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6	6035.6
2.5°	6047.8	6050.8	6011.1	5944.1	5870.8	5809.8	5733.4	5672.5	5629.7	5617.5	5638.9
5°	6090.4	6069.1	5956.3	5751.8	5507.7	5297.1	5062.2	4876.0	4754.1	4702.1	4720.4
7.5°	6154.6	6093.5	5846.4	5443.6	4976.8	4561.8	4140.7	3814.2	3606.7	3502.9	3518.2
10°	6209.4	6087.5	5663.3	4998.1	4284.1	3655.6	3087.9	2694.3	2474.7	2370.9	2373.9
12.5°	6261.4	6084.4	5425.3	4470.2	3502.9	2734.0	2206.1	2010.8	1949.9	1928.4	1922.4
15°	6359.0	6093.5	5126.2	3866.1	2724.9	2065.8	1873.5	1870.5	1882.7	1876.6	1873.5
17.5°	6493.3	6102.7	4787.6	3225.3	2102.4	1821.6	1812.5	1840.0	1858.2	1849.1	1846.0
20°	6667.2	6139.3	4427.5	2590.6	1806.4	1760.6	1782.0	1806.4	1821.6	1806.4	1803.4
22.5°	6911.3	6203.4	4033.9	2081.1	1711.9	1724.0	1742.3	1769.8	1785.0	1763.7	1760.6
25°	7210.4	6304.1	3646.3	1809.4	1666.0	1681.3	1708.8	1739.2	1757.6	1736.2	1733.2
27.5°	7597.8	6465.8	3289.3	1748.4	1620.2	1629.4	1669.1	1714.8	1739.2	1711.9	1711.9
30°	8159.3	6731.3	2981.2	1775.9	1592.8	1571.4	1626.4	1690.4	1717.9	1693.5	1690.4
32.5°	8903.9	7106.6	2792.0	1818.6	1580.6	1504.3	1556.2	1638.6	1684.4	1669.1	1669.1
35°	9880.3	7677.1	2718.7	1867.4	1571.4	1434.2	1470.8	1559.2	1638.6	1653.8	1653.8
37.5°	11064.2	8470.5	2740.1	1888.8	1544.0	1376.2	1394.5	1470.8	1574.5	1623.3	1635.5
40°	12409.9	9395.2	2862.2	1867.4	1513.5	1327.4	1330.3	1388.4	1479.9	1553.2	1577.6
42.5°	13798.2	10475.3	3087.9	1788.1	1486.0	1284.6	1275.5	1315.2	1376.2	1428.0	1449.4
45°	15119.5	11586.0	3310.7	1678.2	1452.4	1241.9	1220.6	1235.8	1248.0	1269.4	1281.6
47.5°	16272.8	12367.1	3246.6	1577.6	1406.7	1193.1	1156.5	1150.4	1113.8	1110.7	1107.6
50°	17069.2	12538.0	2883.5	1476.8	1339.6	1138.2	1080.1	1043.6	979.5	948.9	952.0
52.5°	17322.5	11863.7	2355.7	1376.2	1229.7	1064.9	982.6	924.6	845.2	817.7	814.7
55°	16986.8	10542.4	1882.7	1254.1	1077.2	967.3	875.8	799.5	735.3	701.8	701.8
57.5°	16166.1	8861.1	1489.0	1110.7	915.4	857.4	765.9	689.6	634.7	601.2	595.0
60°	14805.1	7036.4	1177.8	939.8	781.2	738.4	643.8	595.0	546.2	506.6	497.3
62.5°	12739.4	5022.5	924.6	744.6	653.0	604.1	549.2	512.6	454.7	399.7	390.5
65°	9941.3	3072.7	714.0	546.2	524.8	500.4	466.9	433.3	363.2	308.2	299.0
67.5°	6270.5	1455.5	509.5	411.9	415.0	402.8	387.6	360.1	308.2	259.3	253.3
70°	2761.5	704.9	335.7	314.3	308.2	308.2	320.4	311.2	262.4	216.7	207.5
72.5°	939.8	378.3	250.2	238.0	222.7	219.7	268.5	259.3	210.5	167.8	158.7
75°	491.3	253.3	183.1	170.9	134.3	161.7	213.6	201.4	149.5	109.9	100.7
77.5°	320.4	180.0	125.2	109.9	76.3	106.8	158.7	140.3	88.5	54.9	48.8
80°	201.4	119.0	73.2	51.9	36.6	58.0	85.5	61.0	33.5	12.2	9.1
82.5°	106.8	61.0	27.5	18.3	15.3	18.3	21.3	15.3	6.1	0.0	0.0
85°	42.7	21.3	9.1	6.1	3.1	0.0	6.1	3.1	0.0	0.0	0.0
87.5°	15.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)