

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: P968827

Luminaire Tested: **NAV-SB5C-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40944.7 lumens
Efficiency: N/A
Efficacy: 164.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 249.5
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

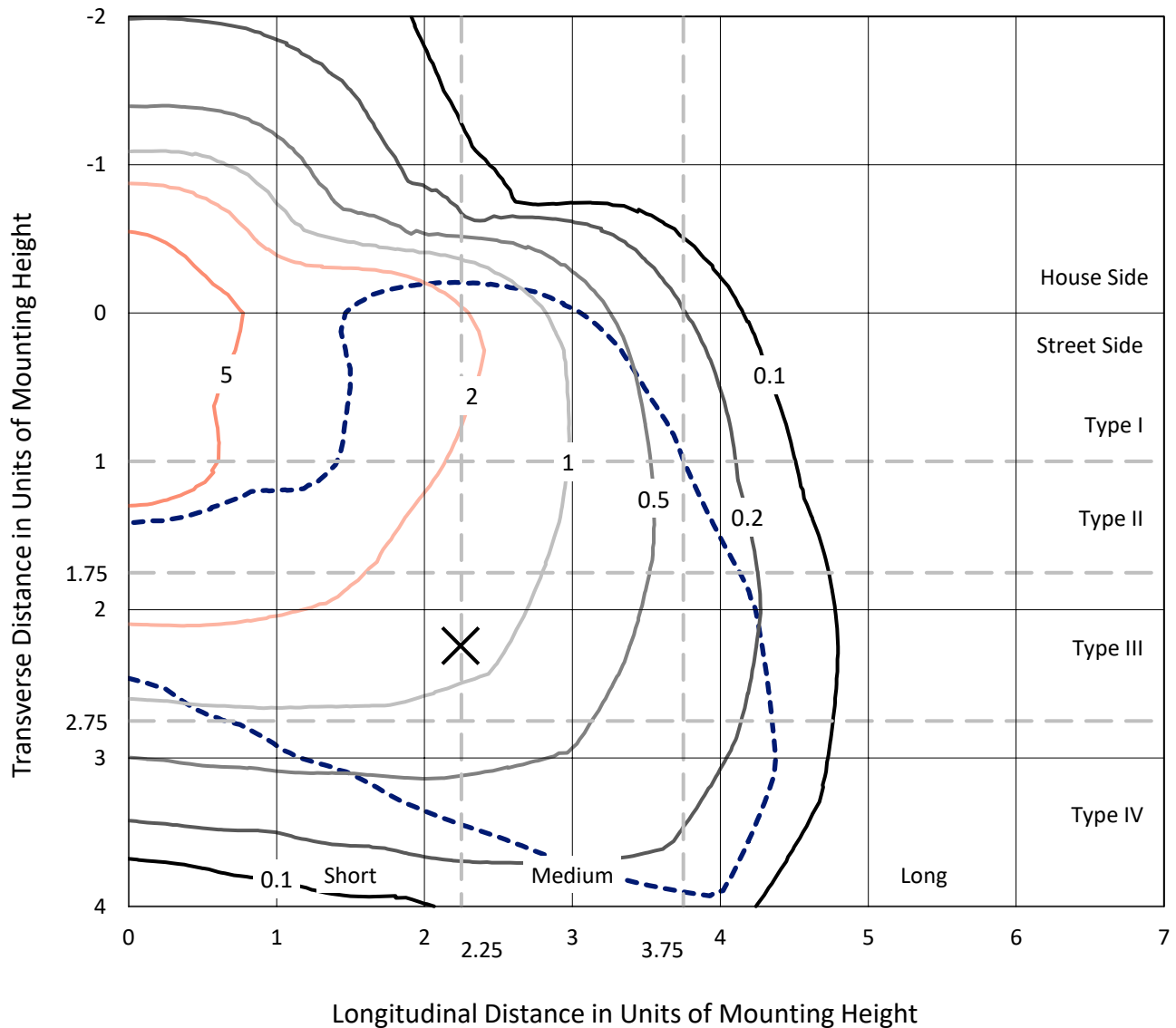


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Iso-Footcandle Lines of Horizontal Illumination

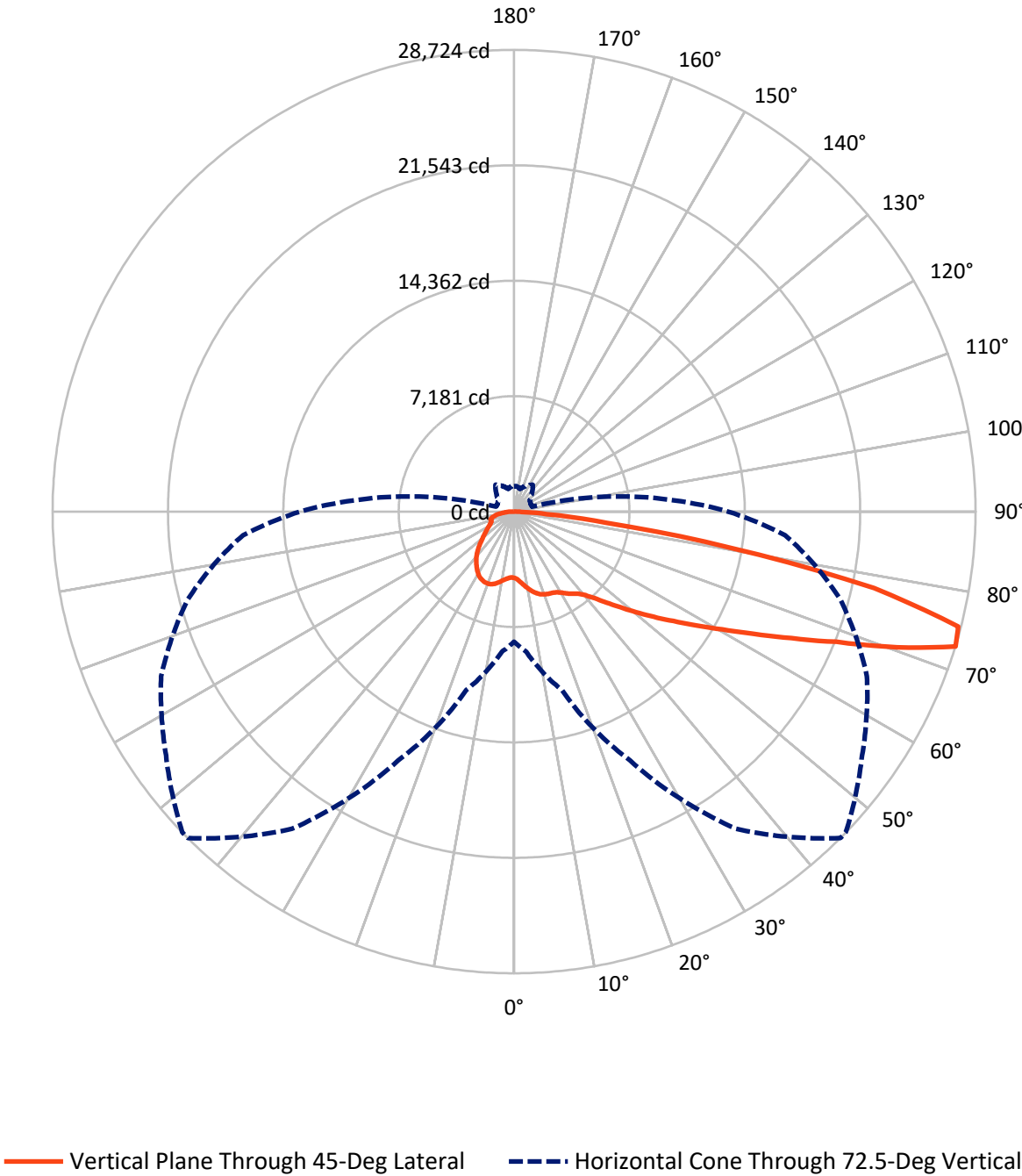
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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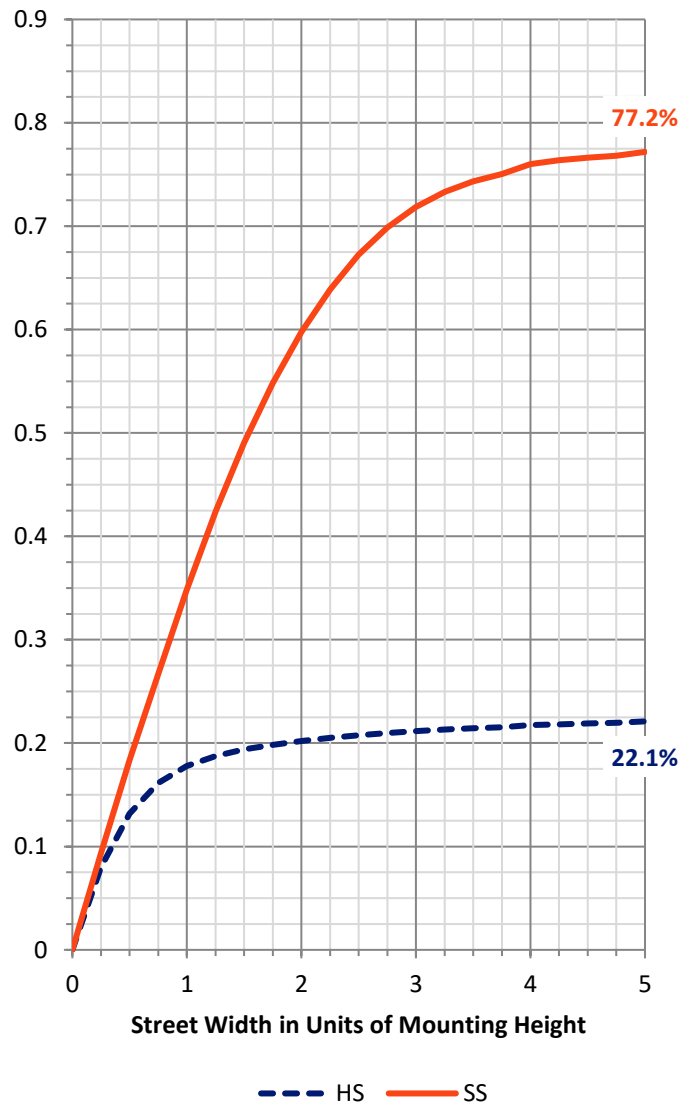
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9256.2	0.0	9256.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	31688.5	0.0	31688.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	40944.7	0.0	40944.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.4	1.0
10°-20°	1401.7	3.4
20°-30°	2438.3	6.0
30°-40°	3495.4	8.5
40°-50°	4921.8	12.0
50°-60°	7538.8	18.4
60°-70°	10921.0	26.7
70°-80°	8721.1	21.3
80°-90°	1086.2	2.7
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°	40944.7	100.0
0°-180°	40944.7	100.0

Coefficient of Utilization



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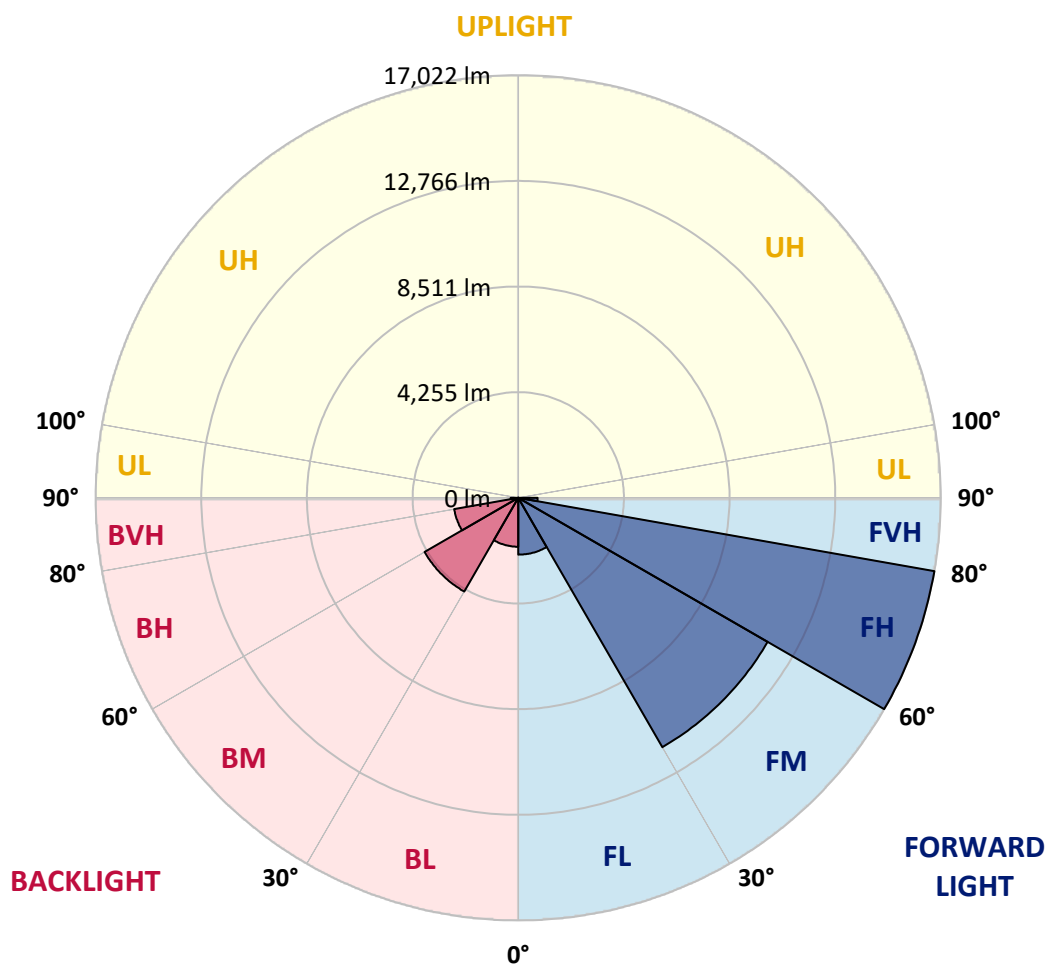
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2289.7	5.6			
FM	(30°-60°)	11597.7	28.3			
FH	(60°-80°)	17021.9	41.6			G5
FVH	(80°-90°)	779.2	1.9			G5
BL	(0°-30°)	1970.7	4.8	B3/2500		
BM	(30°-60°)	4358.4	10.6	B3/5000		
BH	(60°-80°)	2620.2	6.4	B4/5000		G4/5000
BVH	(80°-90°)	306.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
2.5°	4292.3	4320.4	4294.4	4270.8	4259.9	4231.9	4229.8	4212.4	4201.7	4171.5	4162.8
5°	4592.1	4628.8	4585.6	4538.2	4495.0	4426.1	4417.3	4367.7	4311.7	4247.0	4210.3
7.5°	4930.8	4963.0	4913.4	4842.3	4766.8	4652.5	4650.3	4559.7	4471.4	4361.3	4298.7
10°	5226.3	5269.4	5202.5	5105.4	5010.5	4881.2	4866.0	4762.5	4650.3	4508.0	4413.0
12.5°	5487.2	5517.5	5452.7	5334.1	5224.1	5094.7	5075.3	4960.9	4835.8	4674.1	4553.3
15°	5694.3	5733.1	5646.8	5519.6	5403.1	5275.9	5258.6	5155.0	5030.0	4859.5	4704.2
17.5°	5830.2	5862.5	5774.1	5631.8	5519.6	5413.8	5400.9	5314.6	5204.6	5032.1	4866.0
20°	5882.0	5916.5	5823.7	5679.2	5575.7	5493.7	5487.2	5424.7	5349.2	5191.7	5023.5
22.5°	5933.7	5966.1	5845.3	5694.3	5603.7	5551.9	5549.8	5508.8	5478.6	5349.2	5185.3
25°	6142.9	6151.5	5989.8	5772.0	5642.5	5597.2	5595.1	5592.9	5605.8	5504.5	5359.9
27.5°	6324.1	6322.0	6183.9	5979.0	5778.4	5683.5	5681.4	5702.9	5743.9	5659.7	5541.2
30°	6589.4	6565.7	6401.7	6188.2	6004.9	5858.2	5845.3	5825.9	5858.2	5791.4	5722.4
32.5°	7152.3	7076.9	6811.5	6432.0	6192.5	6080.4	6063.1	5942.3	5955.2	5914.2	5879.8
35°	7959.0	7859.8	7506.1	6893.5	6425.5	6265.9	6257.2	6104.1	6078.2	6041.6	6054.5
37.5°	8918.9	8795.9	8384.0	7562.1	6826.7	6481.6	6468.7	6330.6	6224.9	6186.1	6259.4
40°	9883.0	9727.8	9386.9	8377.5	7417.7	6841.8	6800.8	6591.6	6470.8	6406.0	6561.3
42.5°	10819.2	10689.7	10398.5	9292.0	8146.7	7368.1	7277.5	6919.5	6828.9	6768.5	7048.8
45°	11647.4	11530.9	11317.4	10269.2	9000.8	8084.2	7995.7	7411.2	7383.2	7383.2	7788.7
47.5°	12320.4	12294.5	12068.0	11265.7	10008.1	8899.5	8746.3	8094.9	8170.5	8286.9	8839.1
50°	13066.7	12995.5	12753.9	12247.0	11192.3	9833.4	9708.3	8934.0	9216.6	9535.8	10357.5
52.5°	13752.5	13791.4	13521.8	13269.4	12529.6	10875.2	10655.2	9924.0	10534.4	11062.9	12137.0
55°	14457.9	14460.1	14384.5	14350.0	13931.6	12027.0	11785.4	11114.7	12085.3	12741.0	14212.0
57.5°	15120.1	15124.4	15236.5	15540.6	15558.0	13355.7	13081.8	12577.1	13808.7	14477.3	16351.7
60°	15711.1	15741.2	16047.5	16759.4	16987.9	14878.5	14619.7	14304.8	15590.2	16263.3	18601.4
62.5°	15909.5	16019.5	16701.1	17712.7	18400.8	16746.3	16491.8	16304.3	17462.5	18088.0	20482.2
65°	15573.0	15825.4	17143.2	18500.0	19854.6	18965.9	18713.5	18508.6	19408.1	19996.9	22026.5
67.5°	14746.9	15072.6	17117.4	19326.1	21618.9	21636.1	21401.1	20920.0	21493.8	21720.3	22529.1
70°	12570.6	13058.1	15609.7	19634.5	23644.3	25287.9	25061.4	23823.3	23575.2	22479.5	21114.2
72.5°	8099.2	8754.9	11494.2	17095.8	24095.1	28723.8	28710.9	26444.0	24233.0	21004.2	16934.0
75°	2955.0	3356.2	5340.6	10730.7	20225.5	28549.1	28633.3	25995.3	22121.4	16224.4	10549.5
77.5°	1076.4	1177.7	1742.8	4124.1	12439.0	22906.6	23081.3	20782.0	15745.5	8142.4	4180.2
80°	565.1	621.2	893.0	1600.4	5329.8	13603.7	13877.7	12350.5	7400.4	2452.4	1253.2
82.5°	312.7	338.7	500.4	869.2	2400.7	5817.3	5981.2	4879.0	2603.4	1039.7	517.6
85°	168.2	179.1	235.1	474.6	1173.4	2016.7	2062.0	1458.1	1037.5	610.4	250.2
87.5°	49.6	60.4	77.7	151.0	459.4	452.9	463.7	289.0	409.8	308.4	82.0
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°	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5	4130.5
2.5°	4149.9	4143.5	4119.8	4108.9	4096.0	4093.8	4104.6	4106.8	4108.9	4111.1	4119.8
5°	4188.8	4167.1	4145.6	4132.7	4137.0	4139.2	4160.7	4175.8	4186.6	4195.2	4199.5
7.5°	4264.2	4247.0	4210.3	4208.1	4214.6	4234.1	4262.1	4296.6	4316.0	4331.1	4335.4
10°	4376.4	4344.1	4300.9	4307.4	4320.4	4348.4	4406.6	4434.7	4467.0	4495.0	4488.6
12.5°	4490.7	4462.6	4413.0	4417.3	4439.0	4488.6	4544.6	4579.2	4600.7	4622.3	4631.0
15°	4639.6	4590.0	4536.0	4536.0	4574.9	4628.8	4654.6	4682.7	4695.6	4719.4	4728.0
17.5°	4792.7	4728.0	4656.8	4652.5	4699.9	4725.9	4740.9	4745.2	4749.5	4775.5	4784.1
20°	4945.8	4874.7	4773.3	4764.6	4775.5	4771.2	4769.0	4764.6	4771.2	4803.5	4816.4
22.5°	5096.8	5014.8	4874.7	4835.8	4805.6	4764.6	4762.5	4760.3	4764.6	4797.0	4818.6
25°	5273.7	5174.5	4986.8	4870.4	4769.0	4712.8	4719.4	4721.6	4725.9	4751.7	4786.2
27.5°	5465.6	5355.6	5090.4	4859.5	4676.3	4637.4	4626.6	4633.1	4648.2	4689.2	4730.2
30°	5657.6	5528.2	5185.3	4816.4	4559.7	4505.8	4471.4	4486.4	4533.9	4574.9	4620.2
32.5°	5832.4	5702.9	5260.7	4721.6	4410.9	4326.8	4281.5	4300.9	4348.4	4363.4	4417.3
35°	6037.2	5890.6	5293.1	4570.6	4249.1	4119.8	4059.3	4031.3	4055.0	4039.9	4087.4
37.5°	6265.9	6112.7	5288.8	4372.1	4059.3	3910.5	3826.4	3720.7	3671.1	3619.3	3651.7
40°	6604.5	6384.5	5237.0	4132.7	3824.3	3688.4	3537.4	3358.3	3246.2	3144.8	3151.3
42.5°	7066.1	6761.9	5142.1	3869.6	3558.9	3431.7	3226.8	3017.5	2840.7	2672.5	2657.3
45°	7754.1	7255.9	5023.5	3589.1	3272.1	3147.0	2924.8	2689.7	2489.1	2273.4	2247.5
47.5°	8746.3	7920.3	4911.3	3269.9	2970.0	2855.8	2655.2	2437.3	2200.1	1990.9	1967.1
50°	10109.6	8873.6	4807.8	2959.3	2672.5	2586.2	2426.6	2204.4	1964.9	1796.7	1786.0
52.5°	11843.7	10169.9	4764.6	2659.5	2394.2	2361.8	2234.6	2027.6	1801.0	1658.7	1647.9
55°	13834.5	11720.8	4764.6	2372.7	2150.4	2161.2	2072.9	1880.9	1684.6	1557.3	1544.4
57.5°	15866.4	13291.0	4678.4	2107.3	1943.4	1988.7	1932.6	1764.3	1587.5	1455.9	1434.4
60°	17738.5	14606.8	4329.0	1865.7	1760.0	1831.3	1794.6	1650.0	1434.4	1324.4	1307.1
62.5°	19177.2	15348.7	3656.0	1673.8	1609.0	1691.0	1671.6	1499.1	1406.3	1361.0	1345.9
65°	19897.7	15227.9	2795.4	1503.4	1481.8	1609.0	1568.0	1561.6	1488.3	1436.5	1419.2
67.5°	19455.5	14188.3	2027.6	1378.3	1408.5	1533.6	1691.0	1716.9	1581.1	1479.7	1462.4
70°	17516.4	12307.5	1509.8	1259.6	1315.7	1535.8	1928.3	1796.7	1550.8	1432.2	1412.8
72.5°	13325.5	9177.7	1171.2	1134.6	1194.9	1546.5	2034.0	1760.0	1464.5	1583.2	1570.2
75°	7620.5	5038.6	940.4	981.4	1044.0	1445.1	1980.1	1665.1	1397.7	1453.8	1453.8
77.5°	2905.4	1936.9	776.5	830.5	839.1	1261.8	1893.8	1658.7	1330.9	1298.5	1184.2
80°	1007.3	757.1	642.8	660.0	649.2	1121.6	1816.1	1443.0	1089.3	975.0	942.6
82.5°	411.9	377.5	509.0	487.5	461.6	871.4	1466.7	1179.9	890.8	787.3	778.7
85°	179.1	239.4	336.5	295.5	267.4	603.9	1175.6	998.7	752.8	649.2	647.1
87.5°	36.7	90.6	142.4	133.8	138.1	403.3	834.8	709.6	532.8	399.0	312.7
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)