

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: P965148

Luminaire Tested: **NAV-SB3D-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965148
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-SB3D-750-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32359.2 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 218.1
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

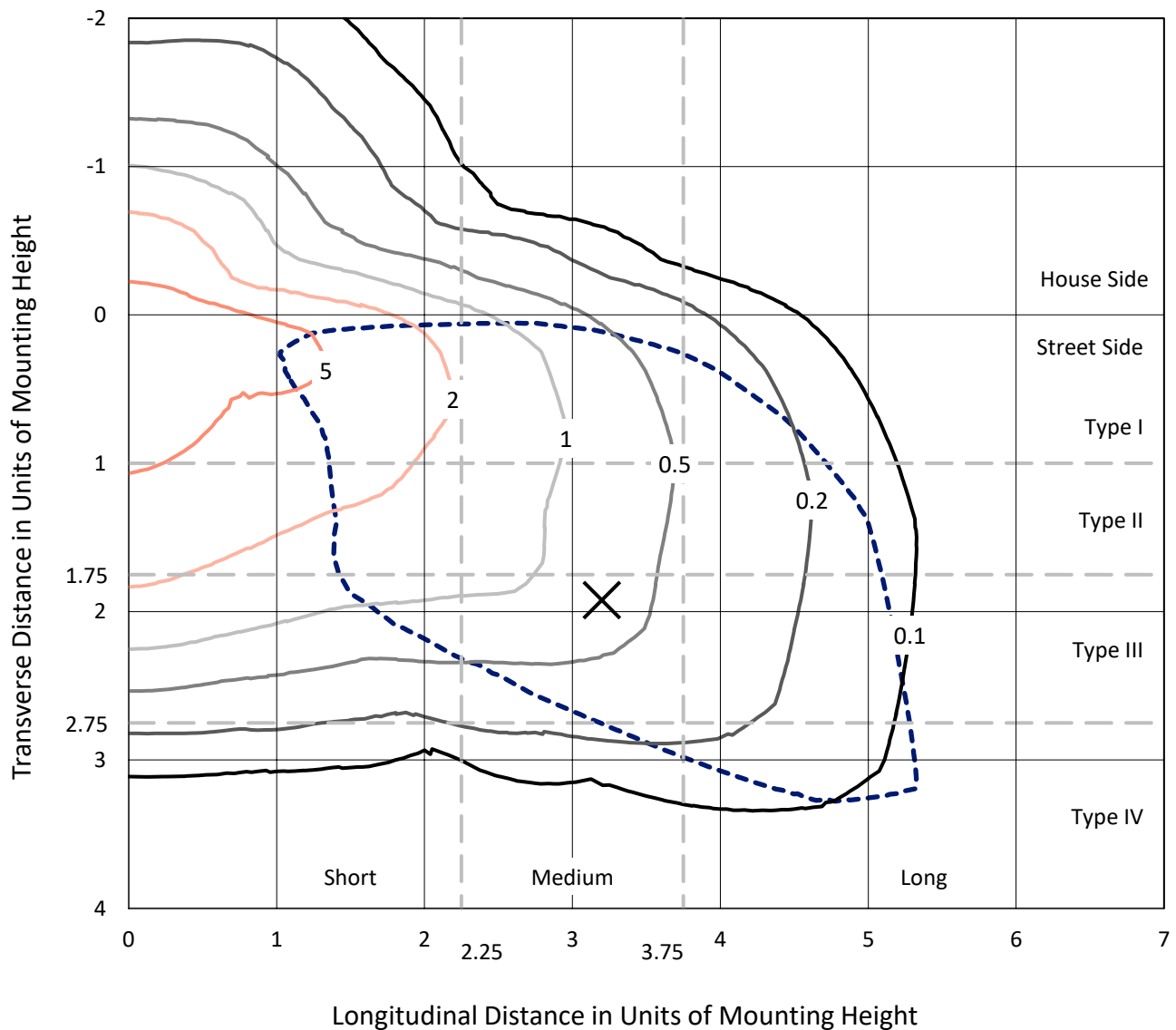


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Iso-Footcandle Lines of Horizontal Illumination

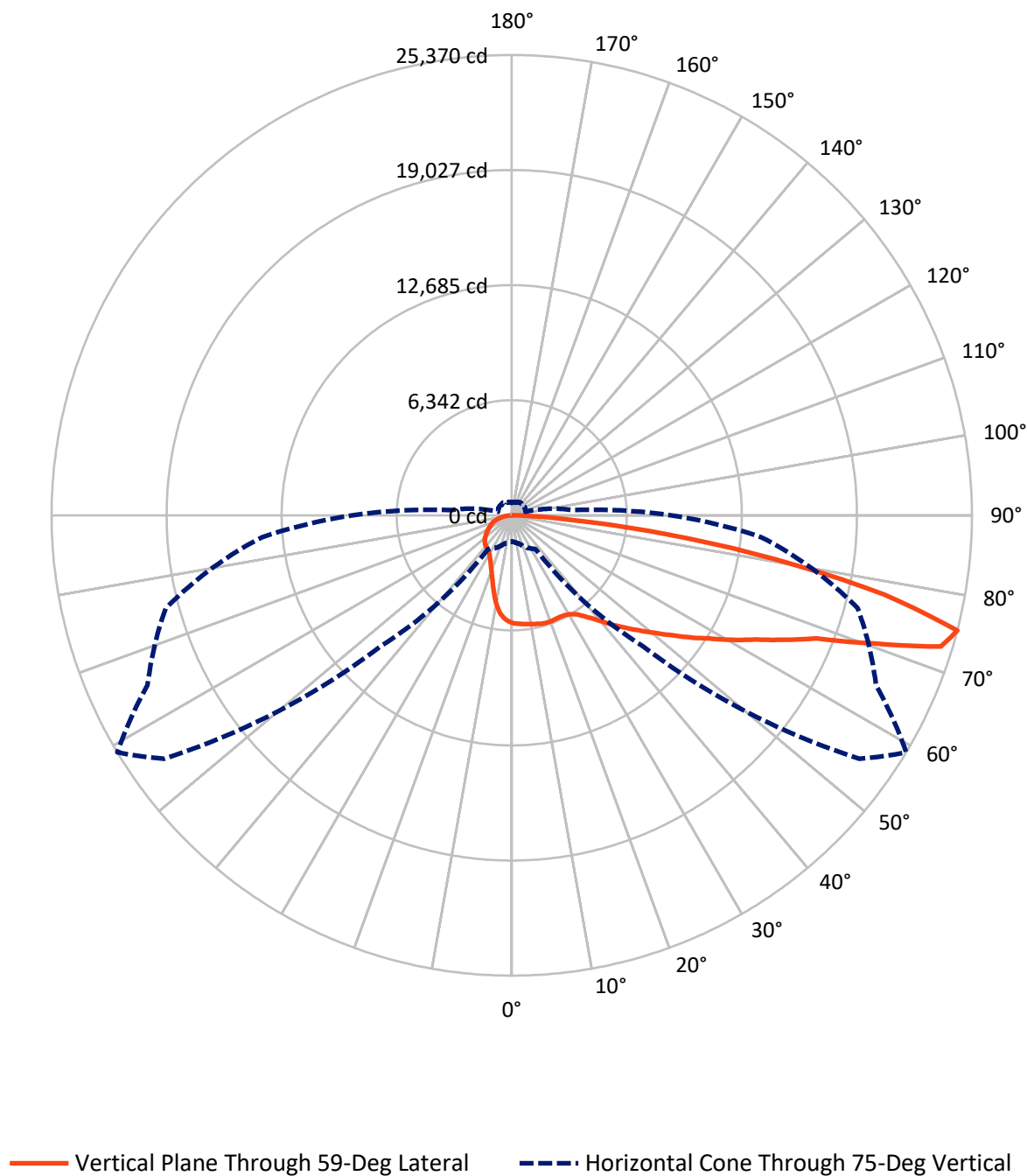
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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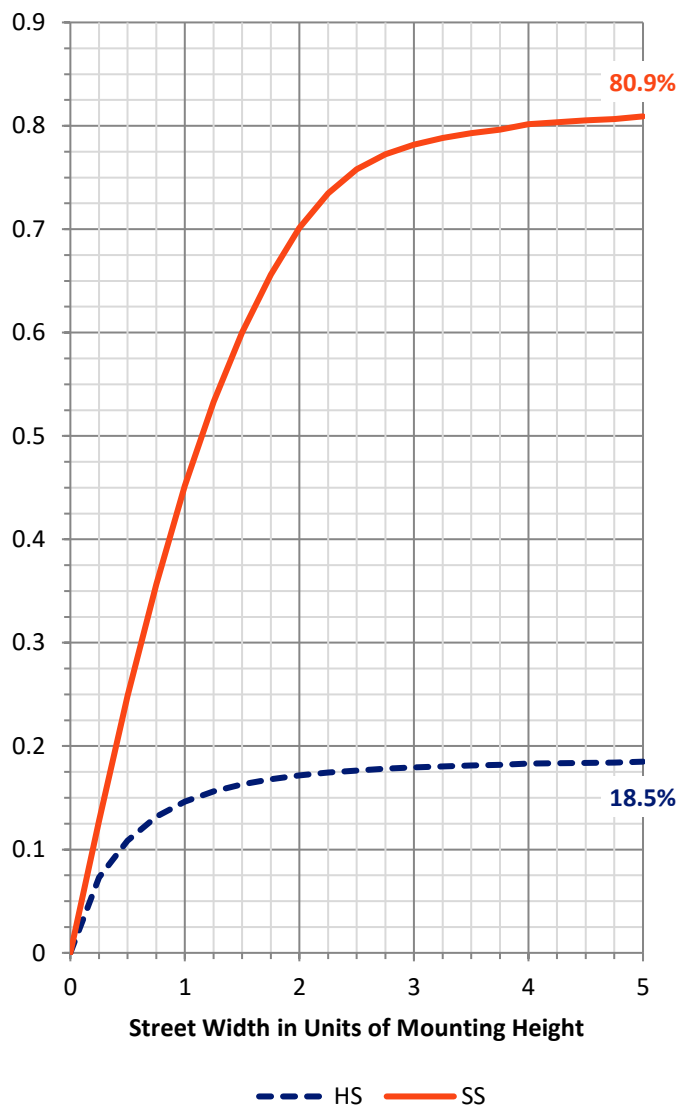
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6069.2	0.0	6069.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	26290.1	0.0	26290.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	32359.2	0.0	32359.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.6	1.6
10°-20°	1361.3	4.2
20°-30°	2067.7	6.4
30°-40°	3073.5	9.5
40°-50°	4570.9	14.1
50°-60°	6204.5	19.2
60°-70°	7574.6	23.4
70°-80°	5944.5	18.4
80°-90°	1029.7	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°	32359.2	100.0
0°-180°	32359.2	100.0

Coefficient of Utilization



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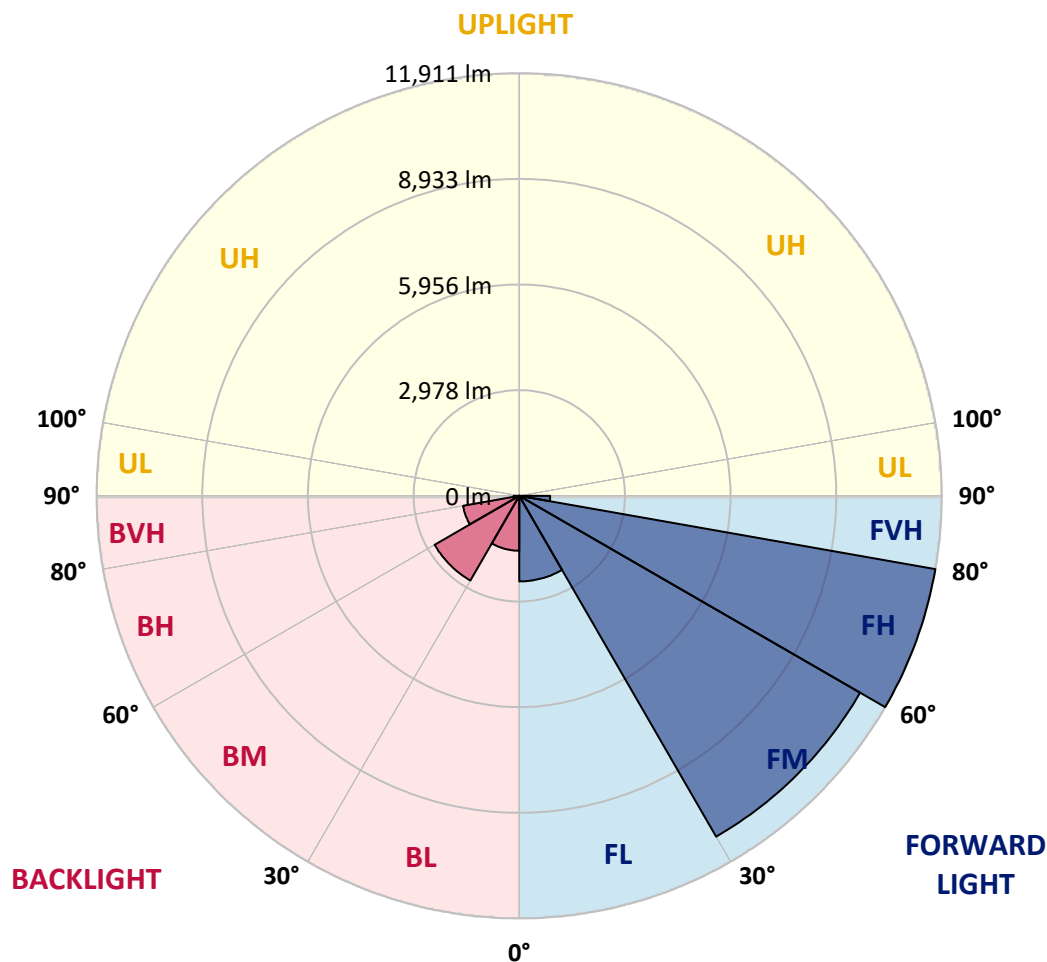
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2412.7	7.5			
FM	(30°-60°)	11094.1	34.3			
FH	(60°-80°)	11911.1	36.8			G4/12000
FVH	(80°-90°)	872.1	2.7			G5
BL	(0°-30°)	1548.8	4.8	B3/2500		
BM	(30°-60°)	2754.8	8.5	B3/5000		
BH	(60°-80°)	1608.0	5.0	B3/2500		G3/2500
BVH	(80°-90°)	157.6	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5
2.5°	5990.0	5969.1	5990.0	5981.3	5977.8	5970.8	5972.6	5984.8	5977.8	5986.5	5956.9
5°	5949.9	5937.7	5958.6	5953.4	5976.1	5979.5	6002.1	6016.0	6024.7	6026.5	6003.8
7.5°	5883.8	5871.6	5901.1	5925.5	5974.3	5988.3	6035.2	6057.9	6070.0	6091.0	6057.9
10°	5641.8	5636.6	5709.7	5801.9	5916.8	5988.3	6059.6	6097.8	6117.0	6172.8	6134.4
12.5°	5213.6	5220.5	5316.3	5493.8	5723.6	5953.4	6087.5	6143.1	6172.8	6242.4	6224.9
15°	4804.5	4802.7	4907.2	5096.9	5419.0	5800.2	6101.3	6197.2	6247.6	6350.3	6336.3
17.5°	4567.7	4560.7	4633.9	4778.3	5077.7	5565.2	6066.6	6226.7	6334.6	6463.4	6451.2
20°	4524.2	4510.3	4548.6	4620.0	4832.4	5307.6	5976.1	6226.7	6404.2	6571.4	6564.4
22.5°	4682.6	4660.1	4644.4	4635.7	4729.7	5095.2	5873.4	6205.8	6506.9	6726.3	6714.1
25°	5001.2	4966.4	4886.3	4808.0	4780.1	4999.4	5782.8	6200.5	6660.1	6935.2	6889.9
27.5°	5516.4	5473.0	5311.0	5123.1	4954.2	5048.2	5742.8	6231.9	6829.0	7156.2	7065.7
30°	6155.3	6108.3	5904.6	5615.7	5312.8	5229.2	5793.2	6324.1	7044.8	7450.4	7272.9
32.5°	6728.0	6675.8	6501.8	6207.5	5798.4	5542.6	5953.4	6500.0	7384.3	7859.5	7584.5
35°	7236.3	7175.4	7018.7	6747.2	6393.8	5983.0	6242.4	6811.6	7866.5	8524.5	8007.5
37.5°	7734.2	7662.8	7492.2	7205.0	6957.8	6569.6	6641.0	7212.0	8507.1	9332.2	8568.0
40°	8291.2	8188.5	7981.4	7697.6	7457.4	7257.2	7165.0	7702.9	9158.2	10233.9	9267.8
42.5°	8830.9	8733.4	8486.2	8244.3	7943.0	7885.6	7772.5	8277.3	9870.1	11224.4	9978.1
45°	9412.3	9295.6	8996.2	8689.8	8500.1	8303.4	8360.8	8851.8	10568.2	12234.1	10723.0
47.5°	9957.2	9826.6	9473.3	9132.0	9027.6	8655.1	8900.5	9483.6	11294.1	13257.7	11461.1
50°	10251.3	10122.5	9828.3	9520.2	9438.4	9088.5	9485.3	10178.2	12054.7	14277.7	12169.6
52.5°	10496.8	10357.5	9972.8	9802.2	9777.9	9560.3	10206.0	10972.0	12815.5	15179.4	12853.8
55°	10757.9	10603.0	10112.0	9958.9	10070.3	10089.5	11060.8	11872.0	13619.7	16058.5	13499.6
57.5°	11059.0	10862.3	10246.1	10091.2	10355.8	10709.1	12042.5	12805.0	14410.0	16873.1	14074.1
60°	11342.8	11144.3	10503.7	10301.8	10663.9	11428.0	13168.8	13934.8	15304.8	17599.0	14617.1
62.5°	11398.5	11234.8	10709.1	10707.4	11081.7	12267.1	14502.2	15075.0	16086.4	18316.2	15104.6
65°	10434.1	10331.4	10019.8	10691.8	11680.5	13475.2	15987.1	16533.8	17080.3	18942.9	15532.7
67.5°	7941.3	7955.2	7932.7	9229.5	11196.6	15210.8	18137.0	18095.1	18307.5	19646.2	16025.5
70°	3631.3	3713.1	4245.8	6371.2	8970.1	15411.0	21691.6	21150.3	19848.1	20556.6	16451.9
72.5°	1961.8	2024.5	2242.1	3086.4	5392.8	13701.5	24348.0	24732.7	21897.0	21169.3	15983.6
75°	1439.6	1474.5	1625.9	1961.8	2264.7	10183.5	23395.8	25369.8	22152.9	19740.2	13802.4
77.5°	1077.5	1093.2	1216.8	1554.5	1159.4	5368.5	18694.1	21011.0	18963.8	16218.7	10195.6
80°	781.6	799.0	891.2	1166.3	812.9	1963.6	12836.4	14747.7	12987.8	10338.4	5081.2
82.5°	539.7	546.6	586.6	793.8	567.4	762.5	7283.3	8648.1	7250.2	3627.8	1371.8
85°	325.5	334.3	351.7	463.0	322.1	362.0	3143.8	3251.7	2167.3	866.9	426.5
87.5°	134.1	142.8	156.6	195.0	127.1	101.0	518.8	651.1	405.6	254.2	132.3
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°	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5	5939.5
2.5°	5948.2	5936.0	5902.9	5857.7	5815.8	5763.7	5741.0	5721.9	5704.4	5671.4	5655.7
5°	5984.8	5951.7	5862.9	5748.0	5617.4	5474.7	5335.4	5239.7	5157.9	5096.9	5046.5
7.5°	6040.4	5977.8	5815.8	5580.9	5281.4	4975.0	4698.3	4501.6	4353.7	4299.7	4205.7
10°	6097.8	6023.0	5741.0	5326.7	4809.7	4338.0	3970.6	3768.7	3650.3	3612.1	3552.9
12.5°	6165.8	6056.1	5624.4	4973.3	4282.2	3765.2	3444.9	3326.6	3265.6	3244.7	3250.0
15°	6265.0	6084.0	5448.6	4531.2	3779.2	3347.4	3140.3	3058.5	3027.1	3025.4	3032.4
17.5°	6339.8	6089.2	5175.2	4057.7	3392.7	3095.1	2924.4	2893.2	2914.1	2945.3	2957.5
20°	6423.4	6042.2	4816.7	3626.0	3121.2	2874.0	2802.7	2823.5	2874.0	2919.3	2934.9
22.5°	6482.6	5956.9	4383.2	3290.0	2886.2	2746.9	2743.4	2787.0	2814.9	2837.4	2849.6
25°	6534.8	5812.4	3923.7	3008.1	2693.0	2670.3	2708.7	2694.7	2675.6	2694.7	2706.9
27.5°	6573.1	5584.3	3512.9	2760.8	2557.2	2618.1	2595.5	2564.1	2562.4	2572.9	2590.3
30°	6560.9	5279.7	3175.1	2525.8	2461.4	2520.6	2466.7	2461.4	2456.2	2461.4	2480.6
32.5°	6560.9	4933.3	2915.8	2364.0	2400.5	2377.9	2372.7	2360.5	2339.6	2337.8	2360.5
35°	6597.5	4586.9	2693.0	2276.9	2350.0	2296.1	2299.6	2270.0	2226.4	2205.5	2226.4
37.5°	6672.3	4308.4	2471.9	2235.1	2261.3	2259.5	2245.6	2195.1	2118.5	2052.4	2075.0
40°	6853.4	4226.6	2320.4	2215.9	2219.4	2240.3	2203.8	2106.3	1932.2	1824.3	1838.2
42.5°	7137.1	4364.0	2287.4	2169.0	2191.7	2212.5	2141.1	1914.8	1791.3	1726.8	1726.8
45°	7497.5	4604.3	2358.7	2101.0	2125.4	2162.0	1949.7	1841.7	1786.1	1787.8	1796.4
47.5°	7953.5	4856.8	2491.1	2041.9	2029.7	2050.6	1822.6	1756.4	1679.9	1698.9	1747.7
50°	8481.0	5112.6	2616.3	1961.8	1923.5	1855.7	1740.8	1678.1	1580.7	1535.3	1547.5
52.5°	9052.0	5359.8	2666.8	1864.4	1808.6	1730.3	1685.1	1608.4	1490.0	1415.2	1413.5
55°	9593.3	5584.3	2611.2	1747.7	1693.7	1632.8	1625.9	1578.9	1451.8	1347.4	1347.4
57.5°	10105.1	5772.4	2471.9	1629.3	1577.2	1540.6	1587.6	1565.0	1404.8	1270.8	1263.8
60°	10538.5	5901.1	2270.0	1509.2	1472.7	1453.6	1524.9	1517.9	1338.6	1188.9	1183.7
62.5°	10883.2	5951.7	2047.1	1394.3	1385.6	1350.8	1437.9	1437.9	1255.1	1108.8	1103.6
65°	11153.0	5902.9	1820.8	1281.1	1298.6	1246.4	1331.7	1321.2	1166.3	1037.5	1030.5
67.5°	11391.5	5742.8	1570.2	1169.8	1209.8	1143.7	1220.3	1195.9	1068.9	966.2	959.2
70°	11497.7	5370.3	1284.6	1058.4	1107.1	1042.7	1108.8	1063.6	959.2	889.5	875.6
72.5°	10644.7	4463.3	1011.4	941.8	983.5	931.3	988.7	936.5	840.8	809.4	783.3
75°	8806.5	3349.2	778.1	814.7	846.0	806.0	844.3	806.0	718.9	741.6	677.1
77.5°	6395.6	2261.3	595.3	680.6	694.5	673.6	706.7	663.3	584.9	579.6	553.6
80°	3180.4	1324.7	466.5	537.9	532.7	518.8	557.1	536.2	470.0	497.8	492.6
82.5°	920.9	567.4	339.5	377.7	367.3	370.7	398.6	409.1	612.7	607.5	621.5
85°	288.9	222.8	203.7	210.6	200.2	205.4	235.0	466.5	431.7	252.5	273.3
87.5°	74.8	76.6	50.5	53.9	55.7	66.1	74.8	283.7	135.8	88.8	94.0
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)