

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: P965115

Luminaire Tested: **NAV-SB3D-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965115
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-SB3D-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32908.7 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

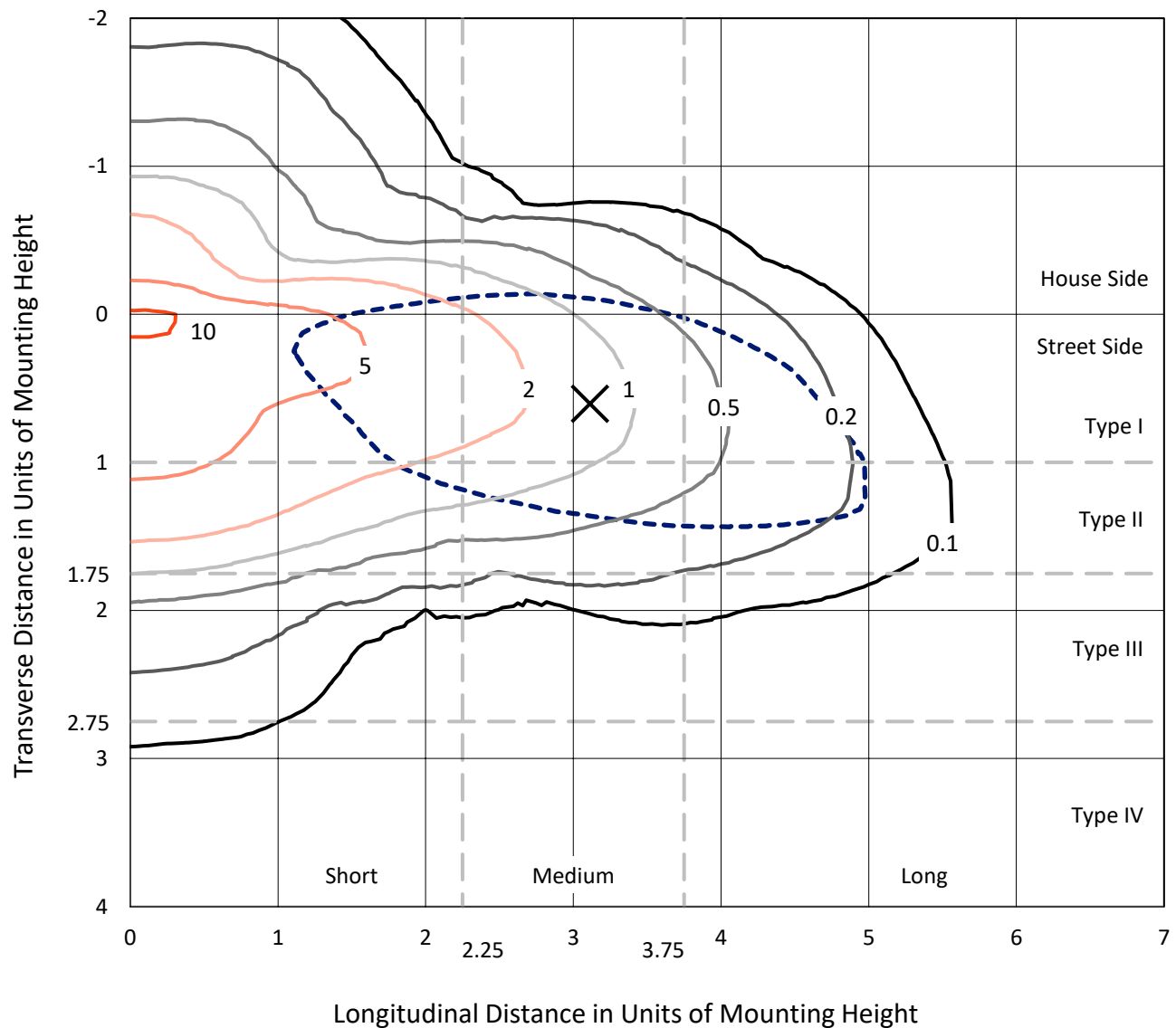


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Iso-Footcandle Lines of Horizontal Illumination

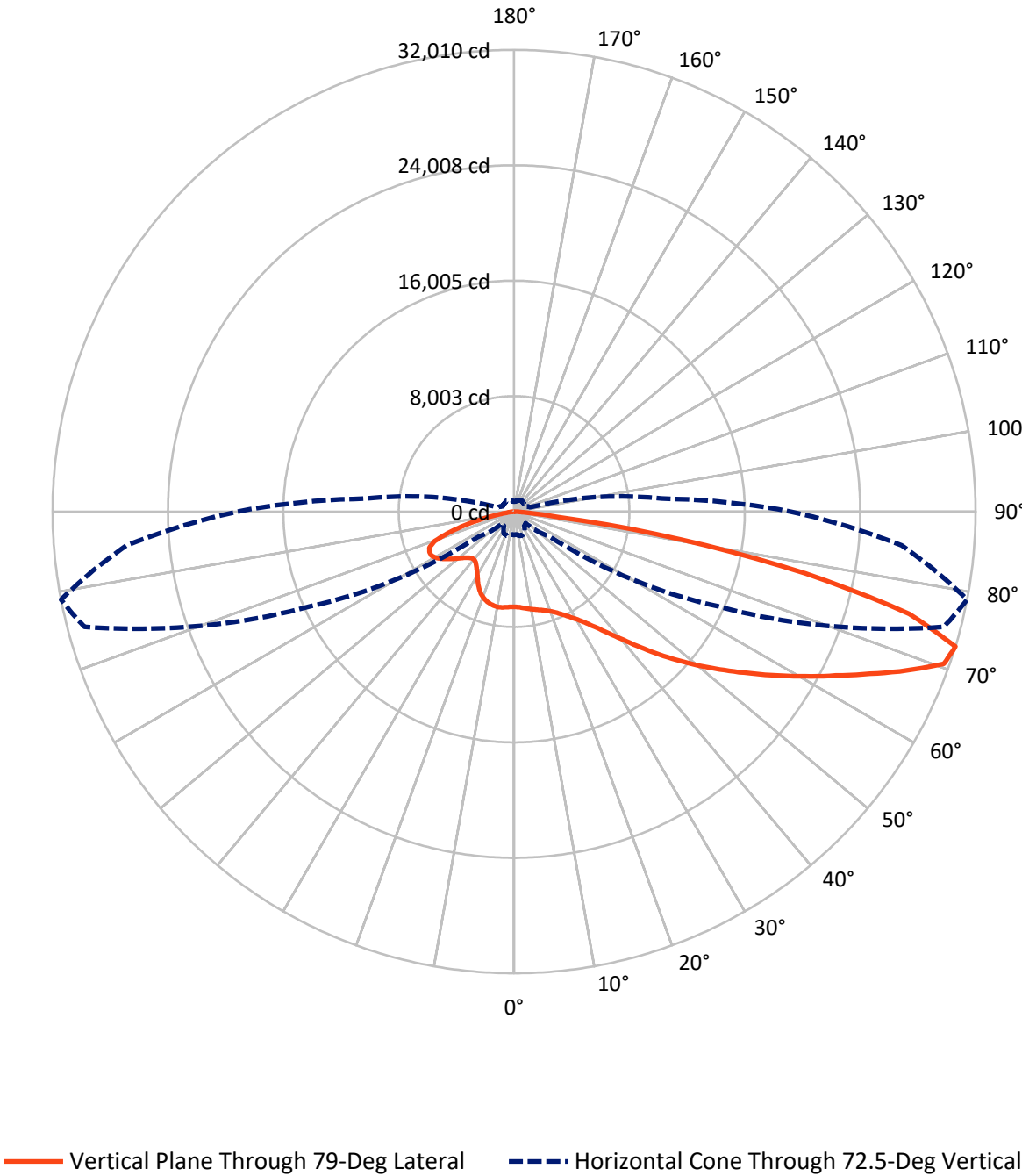
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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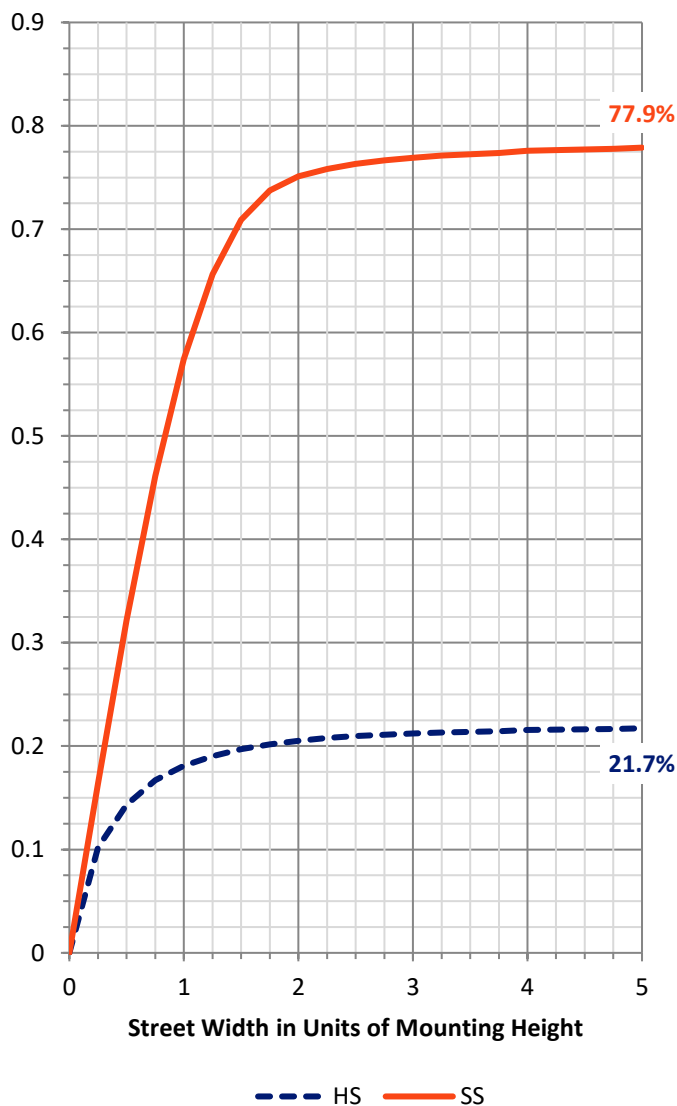
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7241.7	0.0	7241.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	25667.0	0.0	25667.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	32908.7	0.0	32908.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.6	1.8
10°-20°	1567.8	4.8
20°-30°	2529.7	7.7
30°-40°	3796.8	11.5
40°-50°	5385.9	16.4
50°-60°	6801.7	20.7
60°-70°	6908.1	21.0
70°-80°	4708.2	14.3
80°-90°	610.9	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°	32908.7	100.0
0°-180°	32908.7	100.0

Coefficient of Utilization



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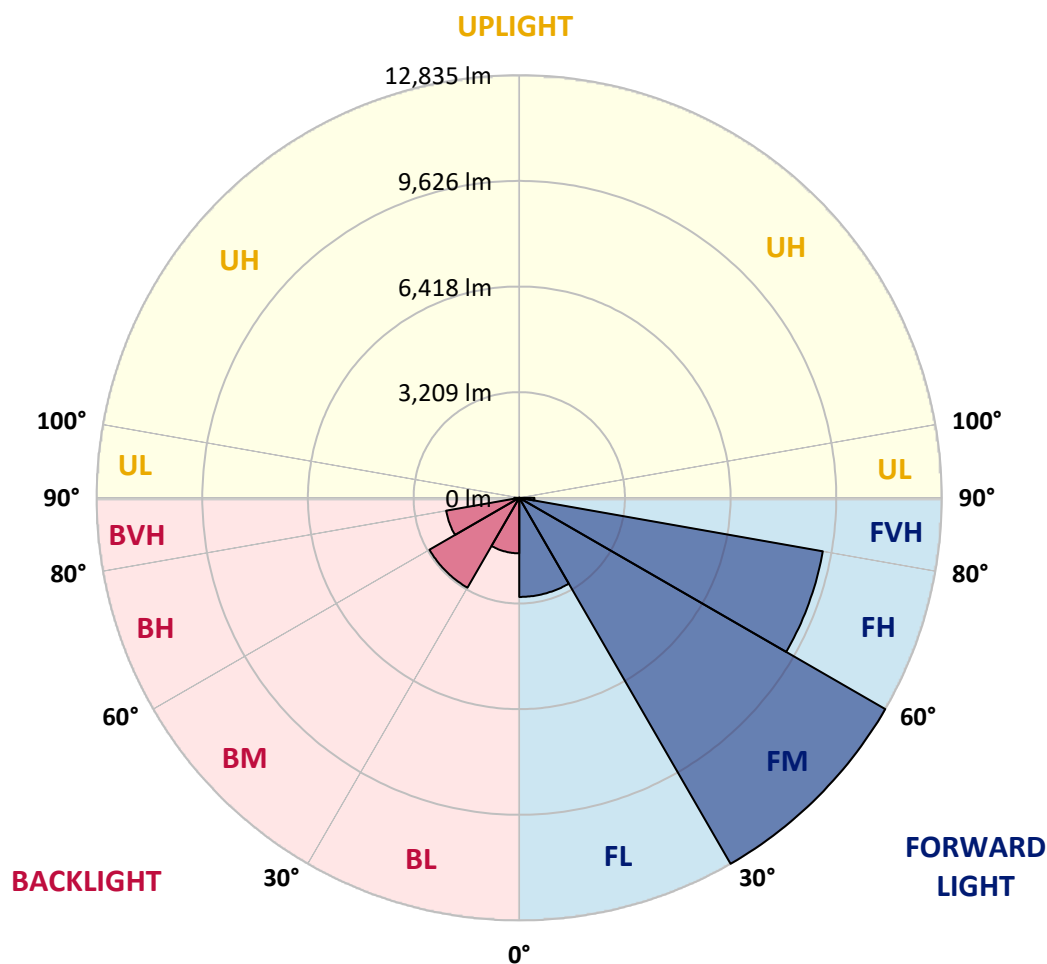
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3010.3	9.1			
FM	(30°-60°)	12835.0	39.0			
FH	(60°-80°)	9361.4	28.4			G4/12000
FVH	(80°-90°)	460.2	1.4			G3/500
BL	(0°-30°)	1686.8	5.1	B3/2500		
BM	(30°-60°)	3149.4	9.6	B3/5000		
BH	(60°-80°)	2254.8	6.9	B3/2500		G3/2500
BVH	(80°-90°)	150.7	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°	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1
2.5°	6609.6	6578.2	6597.4	6590.4	6599.2	6609.6	6613.1	6618.3	6635.6	6633.9	6632.2
5°	6595.7	6564.3	6590.4	6581.7	6604.4	6628.8	6649.6	6668.8	6696.6	6708.8	6691.4
7.5°	6566.0	6545.1	6571.3	6597.4	6639.1	6675.7	6705.3	6748.8	6788.9	6795.9	6808.0
10°	6393.7	6378.1	6438.9	6506.9	6621.8	6721.0	6785.4	6835.8	6879.4	6886.4	6903.8
12.5°	6214.5	6195.3	6263.2	6355.4	6541.7	6721.0	6856.7	6923.0	6961.2	6983.8	7010.0
15°	6184.8	6169.2	6207.5	6287.6	6442.4	6674.0	6905.5	7027.4	7060.4	7086.5	7097.0
17.5°	6327.5	6298.0	6313.7	6341.5	6432.0	6630.5	6943.8	7145.7	7196.2	7224.1	7224.1
20°	6658.3	6616.6	6592.2	6536.4	6520.8	6637.4	6940.3	7288.5	7354.6	7389.4	7398.1
22.5°	7098.7	7070.9	7018.7	6877.6	6724.5	6722.8	7006.5	7471.2	7594.8	7627.9	7607.0
25°	7631.4	7589.6	7523.5	7332.0	7037.8	6891.6	7117.9	7704.5	7911.7	7920.4	7859.4
27.5°	8244.2	8181.4	8090.9	7838.6	7441.6	7156.1	7288.5	7972.6	8275.4	8272.0	8146.7
30°	8889.9	8827.3	8731.6	8425.2	7925.6	7513.0	7525.2	8261.5	8707.2	8688.0	8473.9
32.5°	9361.7	9314.7	9295.5	9058.8	8482.6	7934.3	7796.8	8581.8	9239.9	9222.4	8923.0
35°	9723.8	9662.9	9685.4	9565.4	9090.1	8406.0	8129.3	8963.0	9887.4	9885.6	9513.1
37.5°	10082.3	10028.4	10047.6	9967.5	9652.4	9004.8	8534.9	9429.6	10689.8	10728.2	10226.8
40°	10409.6	10352.2	10428.8	10353.9	10089.3	9642.0	8996.1	9957.1	11619.4	11692.5	11090.2
42.5°	10606.3	10561.1	10688.1	10689.8	10468.8	10179.8	9502.7	10538.4	12695.2	12858.8	12152.1
45°	10674.2	10658.6	10850.0	10890.0	10804.7	10491.4	9958.8	11172.1	13854.5	14146.9	13361.9
47.5°	10601.1	10571.5	10836.1	10984.0	11052.0	10637.7	10336.5	11857.9	15038.2	15466.4	14681.4
50°	10232.1	10174.6	10568.1	10879.7	11121.6	10733.4	10717.7	12649.9	16383.8	16852.1	16007.8
52.5°	9568.8	9525.3	9972.6	10514.0	10968.4	10780.4	11146.0	13515.0	17661.6	18267.3	17367.3
55°	8721.1	8663.6	9156.3	9863.1	10587.1	10764.8	11574.2	14482.9	19169.0	19783.5	18772.2
57.5°	7377.2	7262.3	7885.5	8721.1	9965.8	10745.6	12019.8	15445.5	20700.9	21437.2	20270.9
60°	5417.1	5246.6	6010.8	7001.3	8750.7	10559.3	12571.6	16524.8	22539.0	23202.3	21907.2
62.5°	3154.2	3055.0	3554.6	4478.9	6595.7	9462.7	12881.5	17779.9	24346.0	25042.3	23515.7
65°	2449.2	2421.4	2464.9	2536.3	3671.2	7084.8	11925.8	19003.6	26643.7	27131.1	25191.9
67.5°	2240.3	2219.4	2238.6	2104.5	1862.6	3946.2	9434.8	19313.5	29105.1	29401.1	26659.4
70°	1991.4	1967.1	2029.7	1914.8	1465.7	1794.7	6096.1	18188.9	31063.4	31618.8	27775.2
72.5°	1622.4	1594.5	1740.8	1688.5	1234.2	1152.4	3062.0	15517.0	30858.0	32010.4	26976.3
75°	1246.4	1230.7	1404.8	1448.3	1006.1	906.9	1469.1	11534.1	27155.5	28316.5	23249.3
77.5°	967.8	955.7	1044.5	1202.8	811.2	703.3	903.4	7316.3	20464.1	20667.8	16021.8
80°	725.9	691.1	772.8	931.3	631.9	513.5	612.7	4266.6	12935.4	11725.6	6973.4
82.5°	454.4	437.0	504.8	621.5	445.7	353.4	398.6	2357.0	5183.9	3053.3	1345.6
85°	259.3	252.5	275.0	355.1	242.0	203.7	228.1	1041.0	947.0	651.1	405.6
87.5°	104.4	101.0	125.4	158.4	88.8	74.8	80.1	250.7	208.9	193.2	134.1
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°	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1	6606.1
2.5°	6625.3	6625.3	6600.9	6562.6	6519.1	6491.2	6445.9	6433.7	6386.8	6372.8	6395.5
5°	6705.3	6691.4	6616.6	6508.6	6360.6	6224.9	6075.2	5981.2	5848.9	5801.9	5836.7
7.5°	6806.3	6768.0	6639.1	6402.5	6092.6	5788.0	5471.1	5230.9	5001.2	4919.3	4929.7
10°	6898.6	6844.5	6625.3	6211.0	5674.8	5147.3	4642.5	4289.2	4021.1	3911.4	3935.8
12.5°	6990.8	6891.6	6532.9	5892.4	5081.2	4365.8	3827.9	3552.9	3387.5	3255.2	3298.7
15°	7077.8	6938.5	6390.3	5465.9	4430.2	3704.2	3307.4	3088.0	2955.8	2868.8	2884.5
17.5°	7178.8	6978.6	6176.1	4924.5	3810.4	3246.5	2922.7	2790.4	2764.3	2753.9	2760.8
20°	7319.8	7015.2	5894.2	4318.7	3354.4	2881.0	2713.8	2701.6	2699.8	2694.6	2712.0
22.5°	7471.2	7058.7	5521.6	3768.7	2966.2	2652.9	2623.3	2598.9	2583.2	2581.5	2600.6
25°	7650.5	7072.6	5055.1	3317.8	2635.5	2545.0	2510.1	2473.6	2463.2	2463.2	2473.6
27.5°	7824.6	7025.7	4511.9	2926.2	2449.2	2445.8	2400.4	2388.2	2386.5	2391.7	2405.7
30°	7998.7	6936.8	3972.4	2564.1	2341.3	2341.3	2325.6	2334.3	2341.3	2358.7	2370.9
32.5°	8233.7	6842.8	3521.5	2296.0	2247.3	2229.9	2245.6	2263.0	2270.0	2292.5	2311.7
35°	8578.3	6776.7	3162.9	2149.8	2149.8	2127.2	2135.9	2132.4	2116.7	2106.3	2130.7
37.5°	9034.5	6773.2	2867.0	2081.9	2068.0	2064.6	2066.3	2043.6	1982.7	1909.6	1911.3
40°	9582.7	6867.2	2639.0	2034.9	2024.5	2045.4	2034.9	1974.0	1806.9	1679.8	1676.3
42.5°	10319.1	7135.3	2492.7	1977.4	2008.8	2034.9	1993.1	1782.5	1669.4	1584.0	1580.6
45°	11186.0	7570.4	2417.9	1916.5	1979.2	2010.5	1808.6	1716.4	1625.9	1523.1	1516.2
47.5°	12167.8	8118.8	2400.4	1859.1	1913.1	1932.2	1730.3	1688.5	1585.8	1474.4	1465.7
50°	13236.5	8768.1	2447.5	1791.2	1817.3	1751.2	1704.2	1665.9	1559.7	1450.1	1437.9
52.5°	14341.9	9483.5	2541.5	1698.9	1721.6	1648.5	1693.7	1660.7	1544.1	1396.0	1385.6
55°	15428.2	10204.2	2632.0	1591.0	1624.1	1556.3	1664.2	1639.8	1472.6	1305.5	1296.8
57.5°	16531.8	10921.4	2720.8	1495.3	1530.1	1467.5	1617.1	1584.0	1392.6	1222.0	1218.5
60°	17678.9	11617.7	2762.6	1403.0	1427.4	1385.6	1545.8	1488.3	1302.1	1136.7	1131.5
62.5°	18753.0	12197.4	2694.6	1310.8	1326.5	1309.0	1451.8	1375.1	1211.6	1041.0	1039.2
65°	19830.5	12542.0	2485.7	1220.3	1223.7	1215.0	1319.5	1253.4	1105.4	957.5	947.0
67.5°	20807.0	12735.2	2153.3	1122.8	1114.1	1110.6	1195.9	1121.0	1002.7	873.8	863.4
70°	21014.1	12244.3	1645.0	1007.9	1007.9	999.2	1060.2	983.5	889.5	785.0	781.6
72.5°	19193.3	10299.9	1168.0	877.3	891.2	873.8	924.3	860.0	774.6	705.0	684.1
75°	15476.9	7553.0	849.5	743.3	767.6	738.1	785.0	739.8	666.7	664.9	598.8
77.5°	10634.2	4670.4	616.2	612.7	630.2	591.8	645.9	621.5	555.3	525.7	492.6
80°	4538.1	1862.6	449.2	473.4	473.4	438.7	501.3	508.3	450.9	437.0	437.0
82.5°	903.4	529.2	315.1	325.5	306.4	295.9	355.1	393.4	543.1	604.0	605.8
85°	271.5	195.0	189.7	177.5	156.6	158.4	208.9	395.1	487.4	278.5	240.3
87.5°	74.8	48.8	50.5	40.1	33.1	43.6	71.3	299.4	163.6	69.6	59.1
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)