

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: P883226

Luminaire Tested: **NAV-SB3C-722-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13071 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

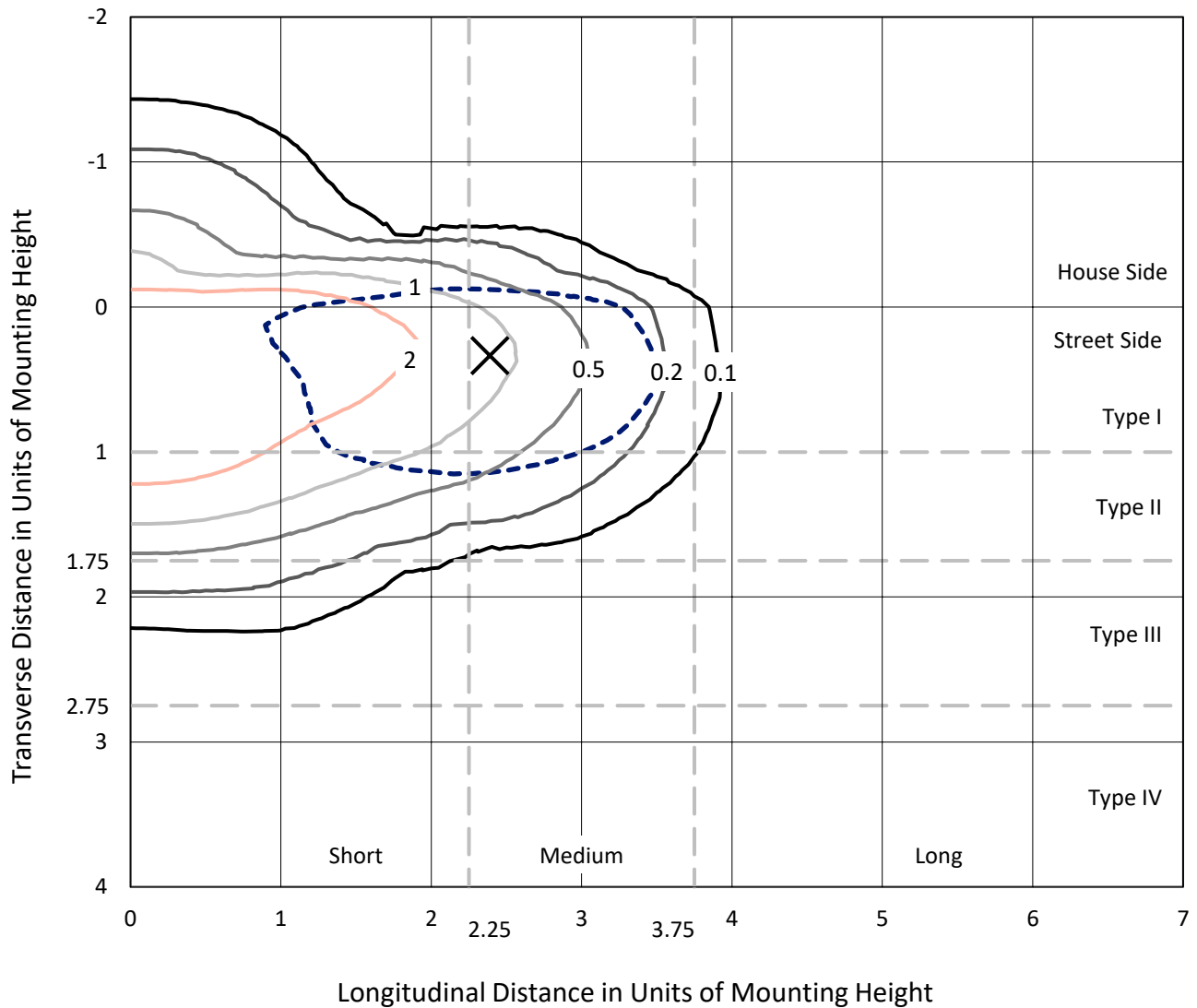
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

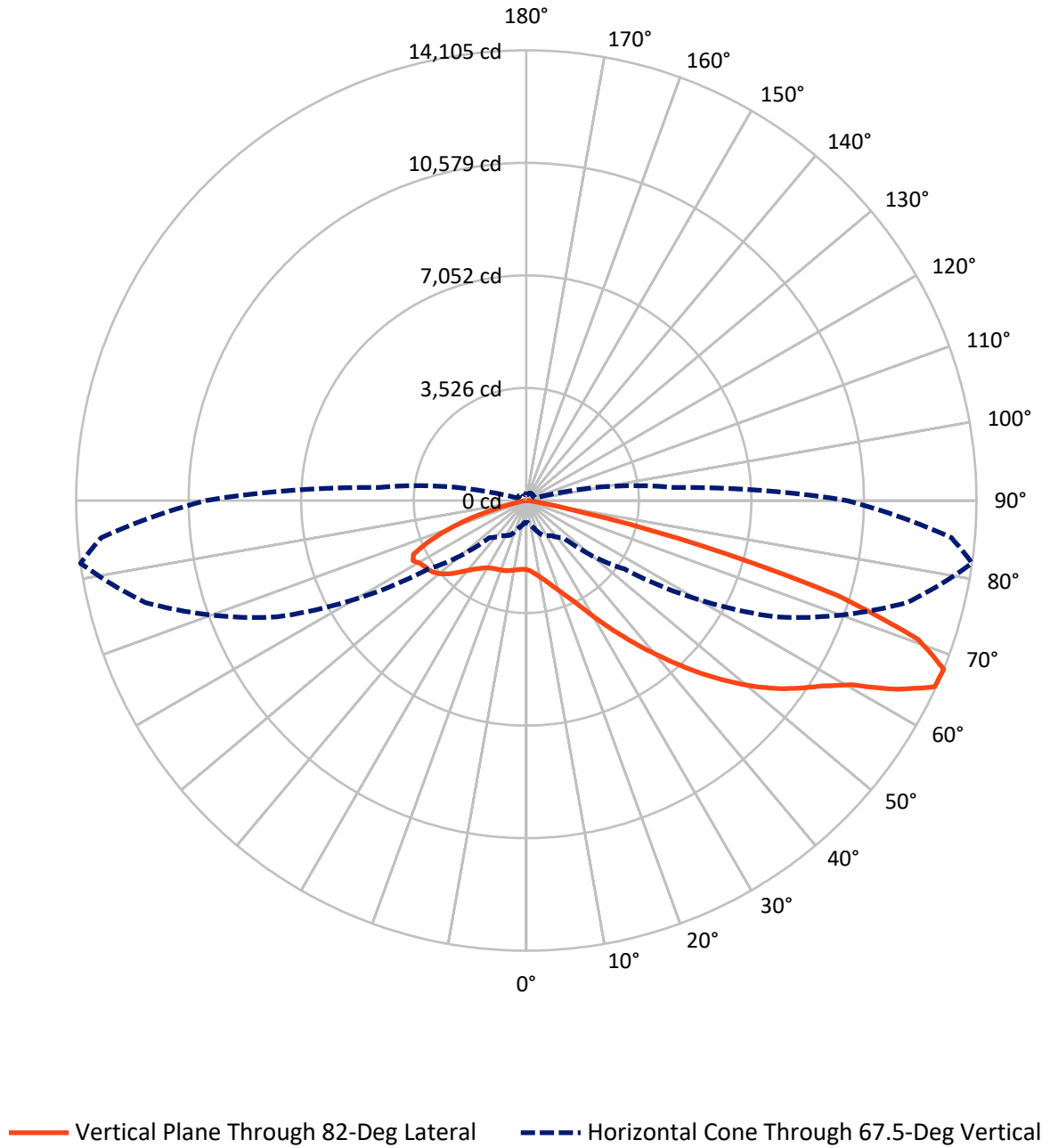
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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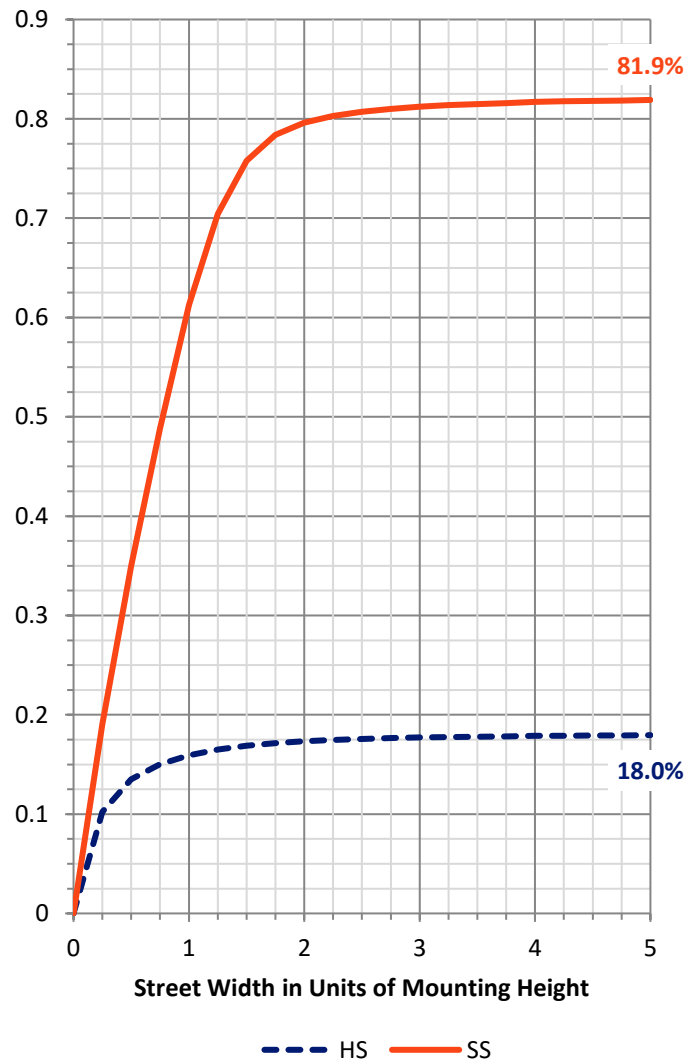
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2367.7	0.0	2367.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10703.3	0.0	10703.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	13071.0	0.0	13071.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	1.5
10°-20°	501.3	3.8
20°-30°	803.0	6.1
30°-40°	1419.9	10.9
40°-50°	2487.8	19.0
50°-60°	3318.0	25.4
60°-70°	3088.9	23.6
70°-80°	1185.5	9.1
80°-90°	73.6	0.6
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°	13071.0	100.0
0°-180°	13071.0	100.0



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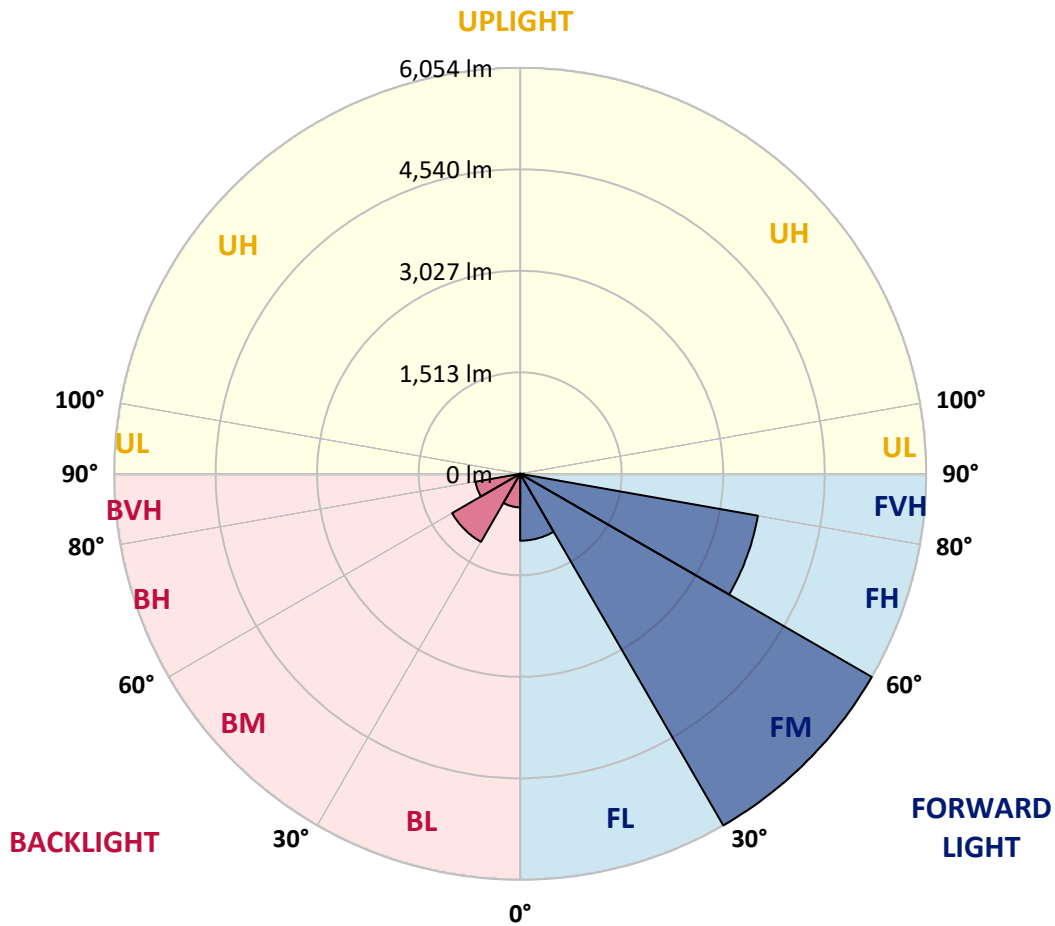
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	997.2	7.6			
FM (30°-60°)	6053.9	46.3			
FH (60°-80°)	3598.6	27.5			G2/5000
FVH (80°-90°)	53.5	0.4			G1/100
BL (0°-30°)	500.1	3.8	B2/1000		
BM (30°-60°)	1171.8	9.0	B2/2500		
BH (60°-80°)	675.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	20.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4
2.5°	2288.7	2301.9	2294.4	2290.6	2284.0	2274.6	2267.1	2243.5	2219.1	2203.1	2197.4
5°	2334.8	2348.0	2347.1	2350.8	2355.5	2358.3	2356.5	2330.1	2295.3	2268.0	2252.0
7.5°	2295.3	2310.3	2322.6	2341.4	2374.3	2409.2	2426.1	2420.5	2384.7	2347.1	2327.3
10°	2183.3	2199.3	2228.5	2272.7	2342.3	2417.6	2480.7	2509.9	2487.3	2445.9	2418.6
12.5°	1978.1	1994.1	2051.6	2147.5	2264.2	2395.0	2515.5	2593.6	2599.3	2557.9	2525.9
15°	1747.6	1763.6	1824.8	1945.2	2123.1	2332.9	2534.3	2682.1	2732.0	2696.2	2657.6
17.5°	1604.5	1618.7	1664.8	1761.7	1947.1	2208.7	2527.7	2776.2	2890.1	2861.8	2815.7
20°	1561.2	1573.5	1595.1	1662.9	1817.2	2079.8	2484.4	2864.6	3060.4	3044.4	2992.6
22.5°	1607.4	1618.7	1625.2	1655.4	1752.3	1995.1	2429.9	2955.0	3258.0	3259.9	3196.8
25°	1713.7	1725.0	1717.5	1736.3	1778.6	1968.7	2409.2	3061.3	3506.5	3527.2	3455.6
27.5°	1888.7	1889.7	1871.8	1870.9	1877.5	2008.3	2430.8	3175.2	3819.8	3858.4	3770.0
30°	2239.8	2225.7	2157.0	2082.6	2048.7	2126.8	2491.0	3309.8	4189.7	4258.4	4147.3
32.5°	2780.9	2760.2	2634.1	2456.2	2277.4	2317.9	2599.3	3463.2	4592.5	4716.7	4581.2
35°	3368.1	3362.5	3230.7	2966.3	2653.8	2589.8	2775.2	3664.6	5031.9	5229.6	5068.7
37.5°	3913.9	3911.1	3835.8	3524.3	3144.1	2969.1	3057.6	3928.1	5502.5	5788.6	5598.5
40°	4412.7	4421.2	4345.9	4067.3	3684.3	3455.6	3441.5	4253.7	6025.7	6397.5	6171.6
42.5°	4843.7	4853.1	4776.9	4570.8	4217.9	3993.9	3913.0	4652.7	6536.7	7051.5	6784.2
45°	5136.4	5194.8	5183.5	5018.8	4765.6	4533.2	4479.5	5153.3	7119.3	7745.1	7431.7
47.5°	5219.2	5272.9	5357.6	5380.1	5225.8	4997.1	5061.1	5756.6	7708.4	8439.6	8082.9
50°	5015.0	5064.9	5240.9	5475.2	5582.5	5511.9	5626.7	6403.1	8311.6	9132.2	8721.9
52.5°	4612.2	4663.0	4885.1	5255.9	5693.5	5915.6	6194.2	7040.2	8896.0	9788.2	9327.0
55°	4029.7	4083.3	4368.5	4788.2	5481.8	6082.2	6667.5	7676.4	9431.5	10378.2	9872.9
57.5°	3237.3	3276.8	3573.3	4160.5	4949.1	5916.6	7016.7	8370.9	9935.9	10957.9	10414.0
60°	2109.9	2144.7	2489.2	3144.1	4066.4	5363.2	7086.3	9145.4	10606.0	11711.7	11143.3
62.5°	1403.1	1426.7	1630.9	2111.8	2863.7	4300.7	6678.8	9763.7	11588.4	13023.6	12394.0
65°	962.7	986.3	1190.5	1525.5	1850.2	2844.9	5507.2	9681.8	12478.7	14065.4	13321.0
67.5°	687.0	706.8	879.9	1196.1	1339.2	1652.5	3733.3	8635.3	12350.7	14104.9	13370.8
70°	492.2	503.5	646.5	931.7	1064.4	992.8	2076.0	6604.5	10813.9	13024.5	12352.6
72.5°	344.4	348.2	448.9	709.6	857.3	724.6	988.1	4403.3	8178.9	10222.9	9576.4
75°	233.4	238.1	302.1	520.4	687.9	553.4	523.2	2361.2	4801.4	5658.7	5072.4
77.5°	143.0	144.9	194.8	355.7	514.8	421.6	336.9	1000.4	1857.7	1823.8	1554.7
80°	80.9	80.9	124.2	221.2	351.0	272.0	236.2	425.4	588.2	516.7	455.5
82.5°	45.2	46.1	90.3	137.4	232.4	160.9	129.9	196.7	254.1	224.9	195.7
85°	18.8	20.7	55.5	64.9	111.0	80.0	52.7	82.8	94.1	83.8	61.2
87.5°	1.9	2.8	16.9	12.2	13.2	16.0	7.5	16.0	13.2	13.2	9.4
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°	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4	2165.4
2.5°	2179.5	2165.4	2129.7	2088.3	2033.7	2007.3	1971.6	1947.1	1926.4	1928.3	1909.4
5°	2221.9	2186.1	2106.1	2006.4	1882.2	1793.7	1699.6	1634.7	1582.0	1570.7	1545.3
7.5°	2280.2	2223.8	2083.5	1903.8	1693.9	1534.9	1392.8	1301.5	1236.6	1215.9	1195.2
10°	2355.5	2273.6	2054.4	1774.9	1472.8	1270.5	1118.0	1046.5	1002.2	987.2	975.9
12.5°	2443.0	2331.1	2015.8	1617.7	1245.0	1050.2	953.3	917.6	903.4	898.7	895.9
15°	2553.1	2402.6	1957.4	1431.4	1052.1	915.7	874.3	869.6	871.4	869.6	868.6
17.5°	2684.0	2480.7	1862.4	1239.4	922.3	847.0	831.9	835.7	840.4	839.4	837.6
20°	2827.0	2557.9	1741.0	1069.1	833.8	798.0	789.6	793.3	797.1	795.2	794.3
22.5°	2989.8	2640.7	1606.4	936.4	774.5	752.9	743.5	744.4	744.4	740.6	738.7
25°	3184.6	2732.0	1465.3	842.3	729.3	712.4	701.1	697.3	691.7	680.4	678.5
27.5°	3417.1	2828.9	1329.7	776.4	693.6	677.6	664.4	655.0	640.9	622.1	620.2
30°	3678.7	2946.5	1214.9	735.0	665.3	649.3	634.3	620.2	599.5	575.9	574.1
32.5°	3986.4	3072.6	1131.2	707.7	639.9	623.0	605.1	588.2	565.6	542.1	543.0
35°	4353.4	3225.1	1082.2	688.9	620.2	597.6	577.8	559.0	542.1	521.4	519.5
37.5°	4751.5	3386.9	1067.2	679.5	607.0	572.2	549.6	536.4	534.5	522.3	521.4
40°	5187.2	3578.9	1078.5	673.8	592.9	547.7	523.2	520.4	525.1	503.5	504.4
42.5°	5648.4	3806.7	1097.3	667.2	573.1	523.2	499.7	499.7	495.9	465.8	465.8
45°	6147.1	4069.2	1116.1	651.2	549.6	498.8	480.9	474.3	458.3	429.1	428.2
47.5°	6649.7	4336.5	1130.2	622.1	521.4	478.1	462.1	447.0	423.5	397.1	396.2
50°	7126.8	4576.5	1115.2	578.8	489.4	458.3	441.4	420.7	395.3	377.4	374.5
52.5°	7553.1	4784.4	1051.2	527.9	455.5	437.6	422.5	400.9	380.2	361.4	359.5
55°	7923.9	4952.9	938.3	480.0	425.4	419.7	404.7	377.4	349.1	333.1	331.3
57.5°	8279.6	5080.9	797.1	440.4	398.1	400.0	377.4	352.9	326.6	309.6	307.7
60°	8753.0	5252.2	654.0	403.7	368.9	374.5	350.1	332.2	299.3	277.6	274.8
62.5°	9509.6	5518.5	519.5	358.6	335.0	336.9	326.6	304.9	265.4	240.0	238.1
65°	10110.0	5420.6	409.4	309.6	296.4	299.3	299.3	275.7	233.4	204.2	201.4
67.5°	10042.3	4641.4	326.6	261.6	259.7	261.6	268.2	248.4	207.0	183.5	179.7
70°	9250.8	3691.9	261.6	217.4	225.9	221.2	240.0	226.8	186.3	162.8	160.0
72.5°	7548.4	2659.5	199.5	179.7	173.2	180.7	216.4	204.2	155.3	128.9	126.1
75°	4410.8	1419.1	148.7	142.1	125.2	150.6	192.0	174.1	118.6	95.0	92.2
77.5°	1436.1	495.0	109.2	104.5	93.2	121.4	163.7	146.8	96.9	75.3	72.5
80°	384.9	149.6	74.3	68.7	60.2	90.3	129.9	116.7	69.6	48.9	48.0
82.5°	154.3	63.1	43.3	38.6	32.9	62.1	102.6	94.1	51.8	31.1	31.1
85°	49.9	20.7	16.0	12.2	15.1	38.6	61.2	64.0	36.7	16.0	12.2
87.5°	6.6	2.8	2.8	3.8	2.8	6.6	18.8	17.9	10.4	1.9	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)