

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: P960515

Luminaire Tested: **NAV-SB1C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-830-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6904.4 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

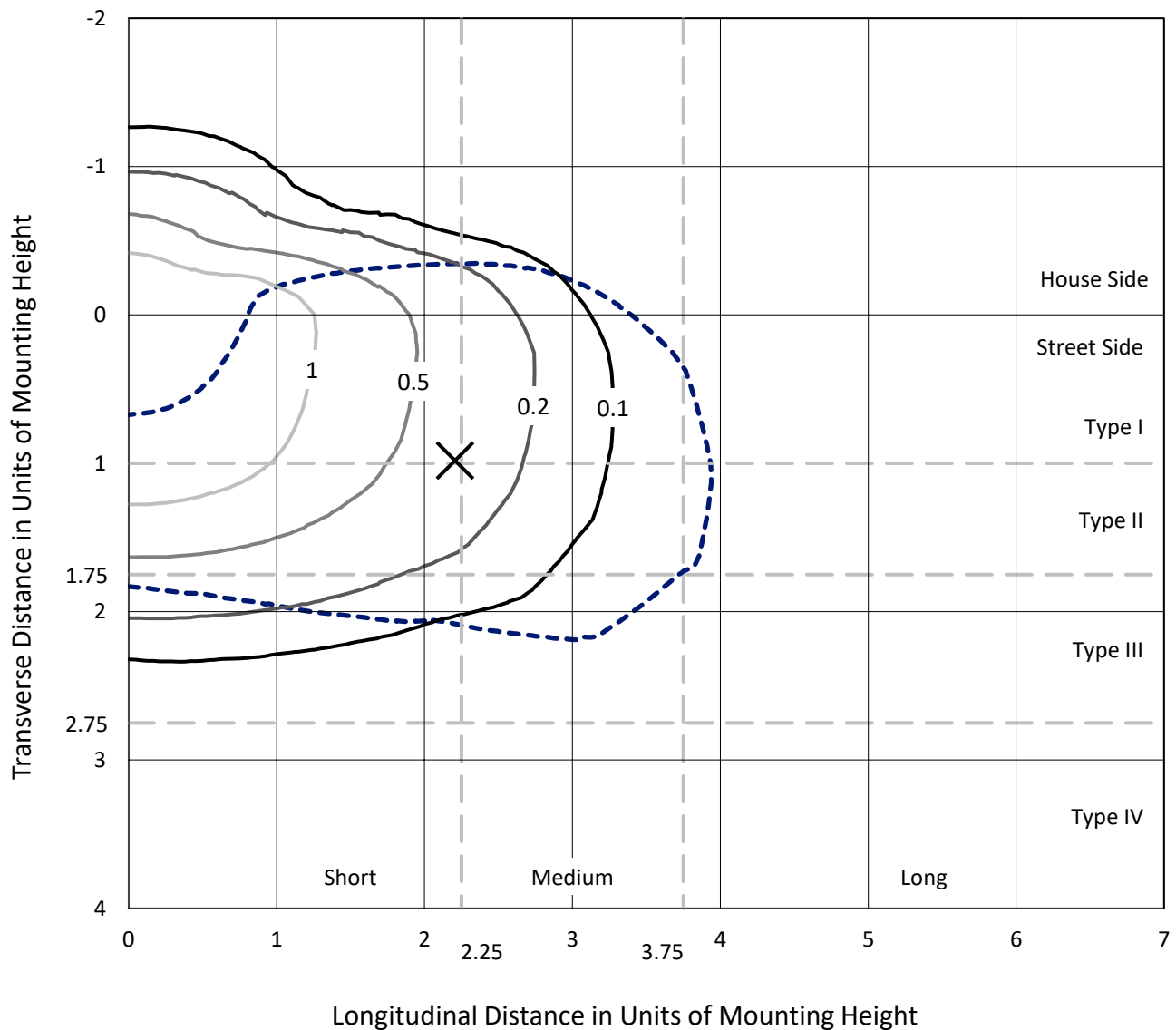
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

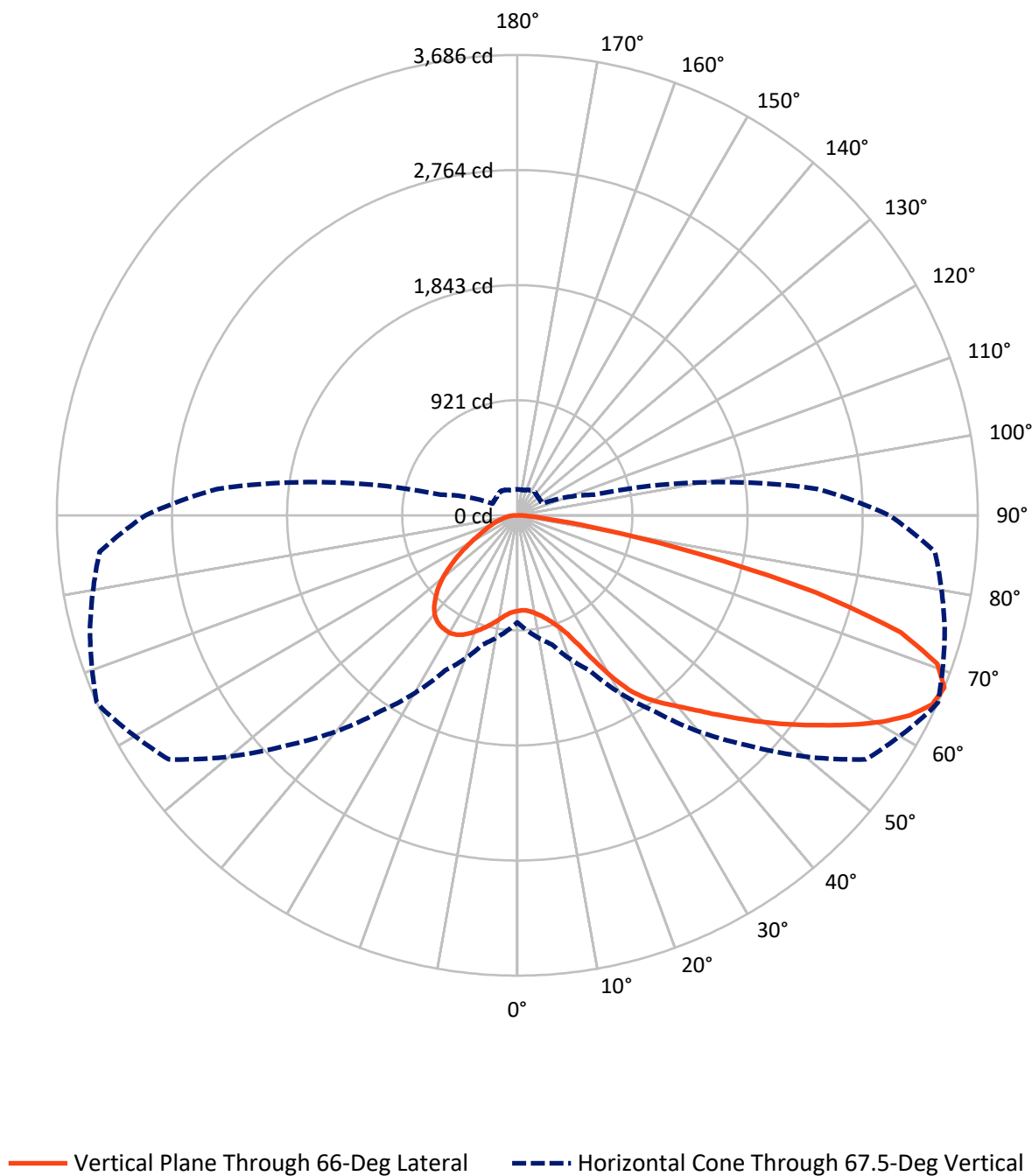
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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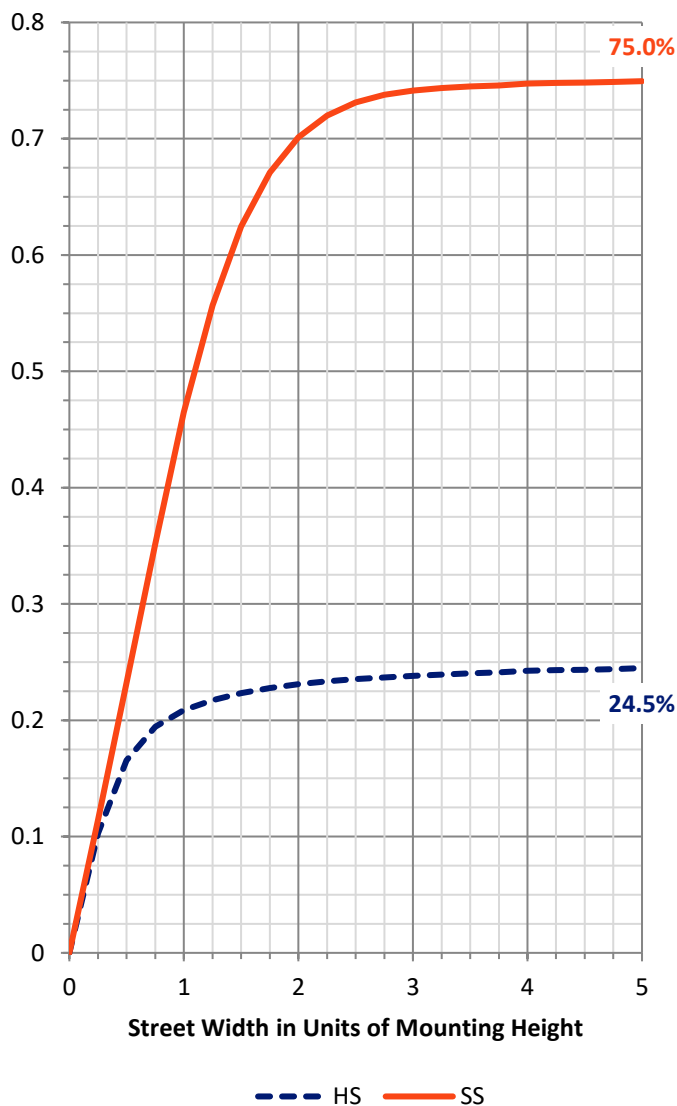
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1716.8	0.0	1716.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5187.6	0.0	5187.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	6904.4	0.0	6904.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	1.1
10°-20°	250.8	3.6
20°-30°	483.5	7.0
30°-40°	847.7	12.3
40°-50°	1260.3	18.3
50°-60°	1597.6	23.1
60°-70°	1563.2	22.6
70°-80°	745.6	10.8
80°-90°	79.7	1.2
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°	6904.4	100.0
0°-180°	6904.4	100.0

Coefficient of Utilization



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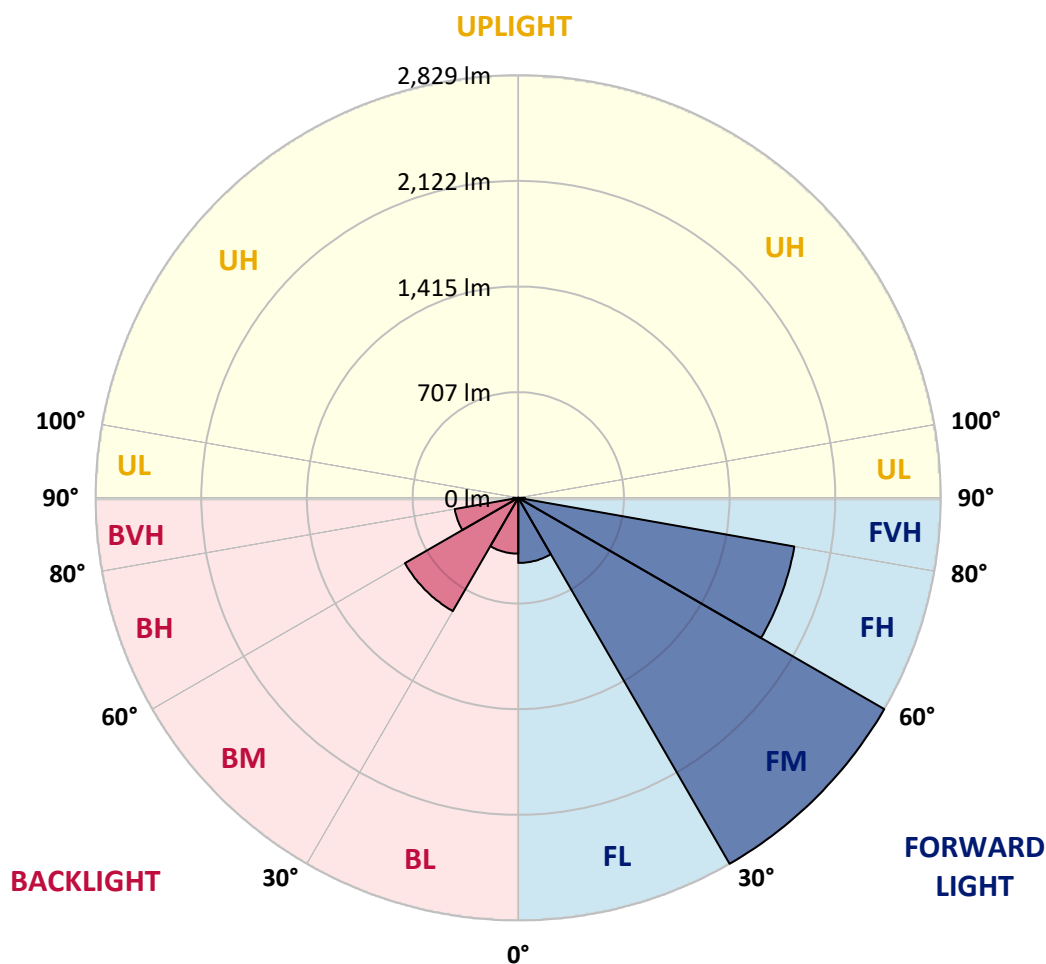
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.3	6.3			
FM	(30°-60°)	2829.4	41.0			
FH	(60°-80°)	1876.8	27.2			G2/5000
FVH	(80°-90°)	45.2	0.7			G1/100
BL	(0°-30°)	374.0	5.4	B1/500		
BM	(30°-60°)	876.3	12.7	B1/1000		
BH	(60°-80°)	432.0	6.3	B1/500		G1/500
BVH	(80°-90°)	34.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8
2.5°	757.8	762.2	761.1	759.2	758.9	759.6	760.8	761.8	761.5	763.2	766.2
5°	755.6	759.9	759.6	759.6	761.1	763.9	765.8	767.6	765.8	767.9	771.9
7.5°	757.1	760.3	761.8	763.2	766.9	772.3	776.6	780.6	778.5	781.0	786.1
10°	775.6	778.1	779.6	779.6	782.1	788.3	792.6	799.9	798.1	802.1	808.6
12.5°	809.3	811.9	811.9	810.4	812.2	816.2	817.6	825.6	822.4	828.9	835.5
15°	850.6	855.8	851.8	849.2	849.9	853.9	853.6	859.8	856.5	861.9	867.8
17.5°	896.4	902.9	896.4	896.1	894.6	898.9	899.3	904.8	898.9	902.9	906.9
20°	950.5	959.5	954.1	955.9	952.6	954.4	956.2	964.2	955.2	958.1	956.9
22.5°	1026.6	1037.5	1031.7	1038.6	1036.4	1034.9	1034.6	1048.8	1034.6	1035.7	1025.2
25°	1137.6	1150.7	1140.5	1149.9	1149.9	1154.7	1160.1	1178.2	1154.7	1147.8	1120.5
27.5°	1301.5	1314.7	1294.7	1300.5	1298.7	1310.3	1304.5	1349.5	1324.1	1312.8	1258.1
30°	1499.0	1522.1	1484.4	1483.0	1481.1	1499.7	1508.0	1537.7	1512.0	1500.7	1434.7
32.5°	1712.3	1736.6	1691.6	1678.5	1671.6	1682.8	1676.0	1699.9	1682.1	1664.7	1583.1
35°	1937.9	1961.8	1919.0	1893.6	1866.0	1842.4	1817.8	1824.0	1807.3	1780.8	1696.3
37.5°	2151.2	2195.0	2149.7	2122.5	2071.7	2025.7	1956.7	1928.1	1912.4	1888.2	1803.0
40°	2368.5	2393.5	2359.0	2335.8	2280.7	2208.5	2098.2	2037.6	2016.6	1993.0	1920.8
42.5°	2528.5	2552.4	2533.9	2517.9	2474.8	2390.9	2248.4	2172.6	2142.1	2115.6	2054.3
45°	2655.4	2673.2	2661.6	2667.4	2648.9	2567.6	2404.0	2317.3	2285.8	2253.5	2205.2
47.5°	2706.5	2725.5	2743.9	2778.4	2809.9	2750.1	2571.2	2474.0	2440.6	2407.6	2360.2
50°	2700.8	2719.9	2773.6	2846.9	2944.9	2924.9	2747.5	2640.9	2610.1	2572.3	2528.5
52.5°	2654.3	2676.1	2745.1	2866.9	3022.9	3055.9	2927.1	2813.2	2784.2	2739.2	2695.3
55°	2532.5	2545.5	2648.9	2821.5	3041.4	3147.4	3103.1	2996.8	2967.8	2905.0	2857.1
57.5°	2306.5	2325.3	2475.9	2699.3	2994.9	3209.4	3257.6	3189.8	3161.8	3071.5	3021.4
60°	2011.6	2041.6	2213.9	2494.0	2876.7	3209.0	3398.0	3379.5	3356.3	3235.5	3183.2
62.5°	1677.7	1712.6	1878.4	2203.8	2669.9	3117.9	3485.8	3538.4	3526.4	3386.7	3320.0
65°	1288.5	1312.5	1477.5	1828.3	2348.2	2922.4	3496.0	3646.8	3649.0	3501.7	3391.4
67.5°	857.9	926.8	1070.1	1372.0	1917.2	2602.8	3406.7	3664.6	3685.7	3541.3	3355.5
70°	418.6	509.3	649.7	891.6	1372.0	2112.7	3173.4	3518.8	3565.6	3426.0	3141.5
72.5°	173.7	203.2	279.7	440.0	787.5	1425.7	2704.8	3123.4	3210.1	3035.5	2641.2
75°	117.2	127.0	160.0	225.6	358.7	703.0	1950.6	2328.9	2468.6	2292.6	1874.0
77.5°	90.3	96.5	116.4	157.8	213.3	265.9	1044.1	1403.5	1475.7	1366.1	975.1
80°	71.1	75.8	87.0	115.0	151.3	142.2	355.9	635.9	677.6	568.5	313.4
82.5°	61.7	63.4	62.4	78.0	100.4	83.0	116.8	234.7	259.0	187.9	102.3
85°	44.6	49.7	51.9	48.3	53.3	42.1	47.9	83.0	91.4	81.6	57.7
87.5°	18.1	26.9	33.0	31.2	19.6	12.0	14.9	24.3	28.0	30.4	18.9
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°	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8	765.8
2.5°	766.5	769.1	770.9	773.1	774.5	776.6	781.0	783.6	783.9	785.8	785.4
5°	773.4	777.1	781.0	786.8	793.3	798.8	807.2	812.9	815.1	816.9	816.6
7.5°	788.3	793.3	800.6	810.8	820.2	827.5	837.6	844.5	851.4	853.9	854.3
10°	810.4	817.6	828.2	841.9	852.1	861.5	872.1	877.9	884.8	887.6	889.1
12.5°	837.9	845.6	859.4	878.6	888.1	894.6	898.2	896.8	898.2	900.8	901.5
15°	869.5	877.9	893.5	914.2	920.7	914.9	906.9	899.6	898.5	899.3	901.8
17.5°	906.9	913.1	931.2	948.6	943.9	919.9	902.5	890.9	885.1	883.3	885.9
20°	959.1	959.1	974.1	984.9	953.4	912.7	885.5	866.6	854.6	849.6	848.5
22.5°	1022.6	1016.8	1026.2	1018.6	951.5	892.4	854.6	822.0	803.9	796.6	795.5
25°	1103.2	1096.2	1093.7	1046.5	938.5	860.1	798.8	759.2	743.3	739.3	740.0
27.5°	1224.7	1207.2	1174.2	1061.8	914.5	809.3	733.5	696.9	687.8	688.2	689.2
30°	1386.5	1351.7	1270.8	1064.4	875.4	737.5	666.8	640.6	636.3	638.1	644.3
32.5°	1536.3	1503.3	1369.4	1052.8	815.1	667.1	606.9	589.5	582.9	585.2	588.0
35°	1653.8	1644.7	1460.8	1036.4	741.1	601.1	553.2	538.3	525.6	522.8	524.9
37.5°	1764.8	1761.3	1529.4	1013.5	667.9	554.3	510.0	490.5	471.9	461.8	462.2
40°	1886.7	1883.1	1574.4	978.4	602.9	513.6	471.2	445.5	422.6	404.2	405.9
42.5°	2023.9	2002.4	1595.8	927.9	547.8	479.2	439.6	404.9	374.7	357.7	358.7
45°	2173.6	2125.4	1595.4	863.8	501.3	447.6	405.9	356.6	328.6	312.7	312.0
47.5°	2332.6	2242.9	1575.8	792.6	456.3	412.9	353.7	316.0	297.5	287.7	285.5
50°	2496.5	2352.9	1542.4	711.0	410.3	373.3	321.0	295.3	281.2	272.0	268.8
52.5°	2650.6	2452.6	1502.2	618.5	363.5	334.9	306.6	286.6	271.7	261.6	257.2
55°	2793.9	2538.6	1445.2	523.9	325.4	309.0	299.6	283.0	265.9	253.9	249.2
57.5°	2921.4	2594.5	1347.0	434.9	298.2	291.3	292.4	276.8	257.2	247.0	240.5
60°	3027.2	2635.5	1201.5	352.6	276.0	273.9	281.2	265.2	242.3	230.7	225.6
62.5°	3090.7	2634.8	1023.0	288.7	257.2	257.9	266.3	250.7	227.4	216.6	213.3
65°	3085.2	2570.2	827.1	247.0	239.0	239.7	250.7	234.7	215.1	208.6	208.2
67.5°	2976.1	2412.7	634.5	219.9	219.1	222.3	235.0	223.9	207.5	206.7	207.9
70°	2680.5	2085.9	457.0	198.0	198.4	203.2	219.9	216.9	203.5	205.0	204.6
72.5°	2149.3	1590.4	306.9	175.2	175.6	183.2	205.3	211.5	199.6	218.7	221.6
75°	1431.4	991.8	197.3	150.9	151.3	161.0	192.6	201.0	188.6	218.0	219.9
77.5°	687.8	445.9	142.9	127.0	127.0	136.0	166.5	179.9	160.7	169.4	155.3
80°	237.6	167.6	112.4	102.3	100.1	106.3	140.4	156.0	138.6	127.7	119.7
82.5°	93.6	87.0	90.3	79.4	72.2	76.2	109.2	128.7	101.9	92.1	91.7
85°	53.7	56.6	63.9	52.6	41.7	46.8	80.2	92.5	76.9	67.9	69.3
87.5°	14.6	20.0	29.4	27.2	18.9	20.0	38.1	51.1	44.3	34.1	35.2
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)