

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: P960415

Luminaire Tested: **NAV-SB1C-750-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-750-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8274.8 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

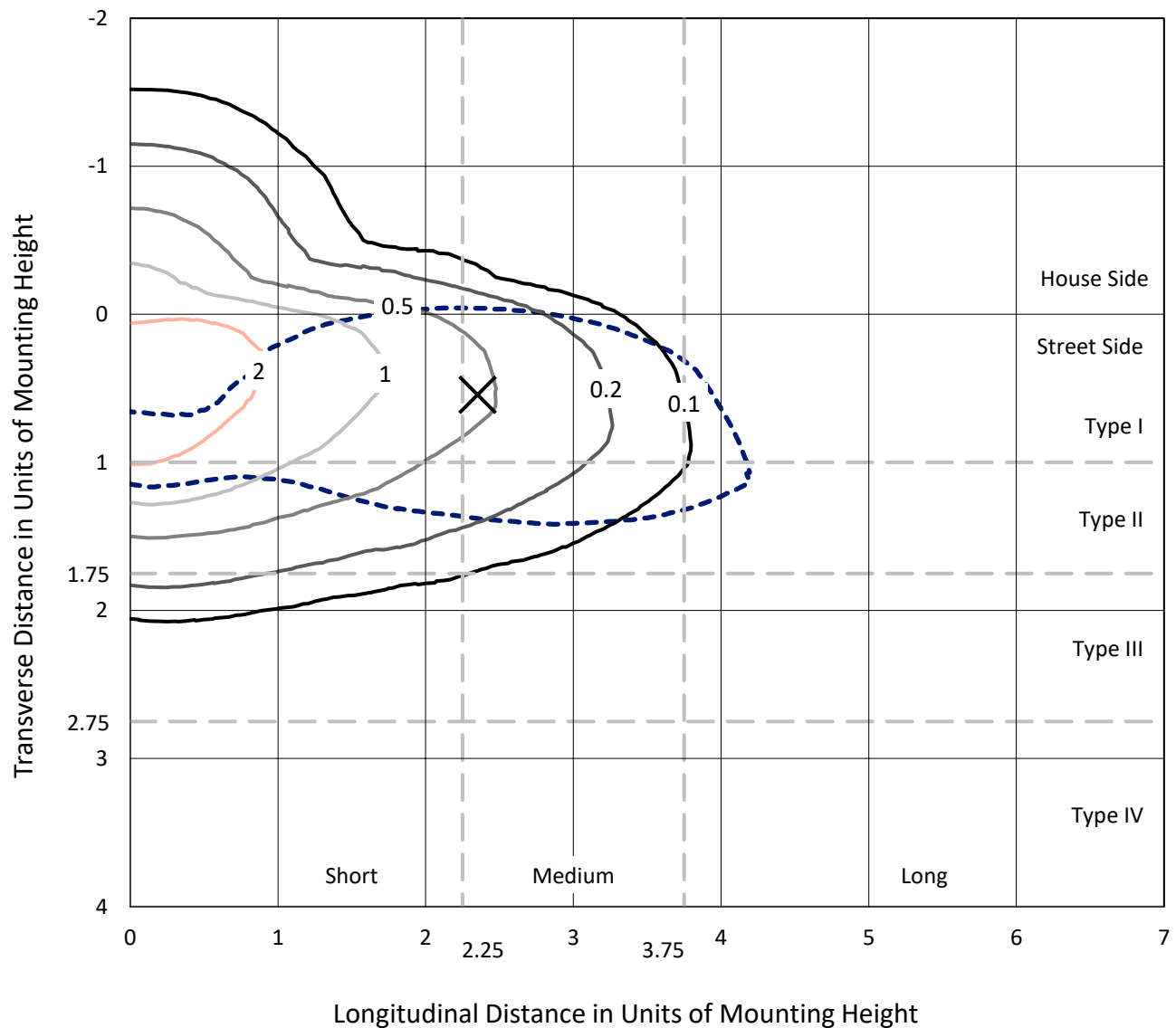


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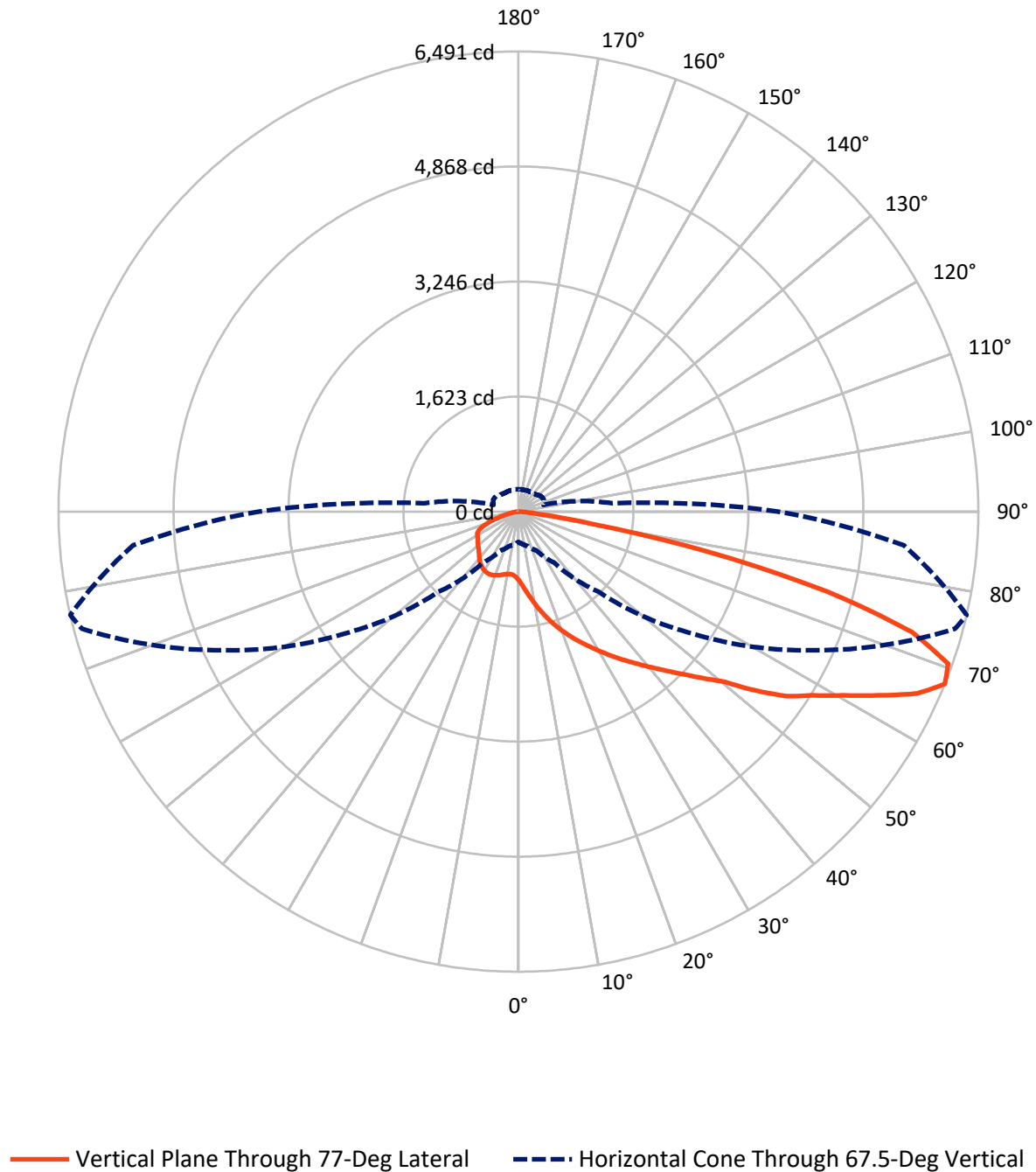
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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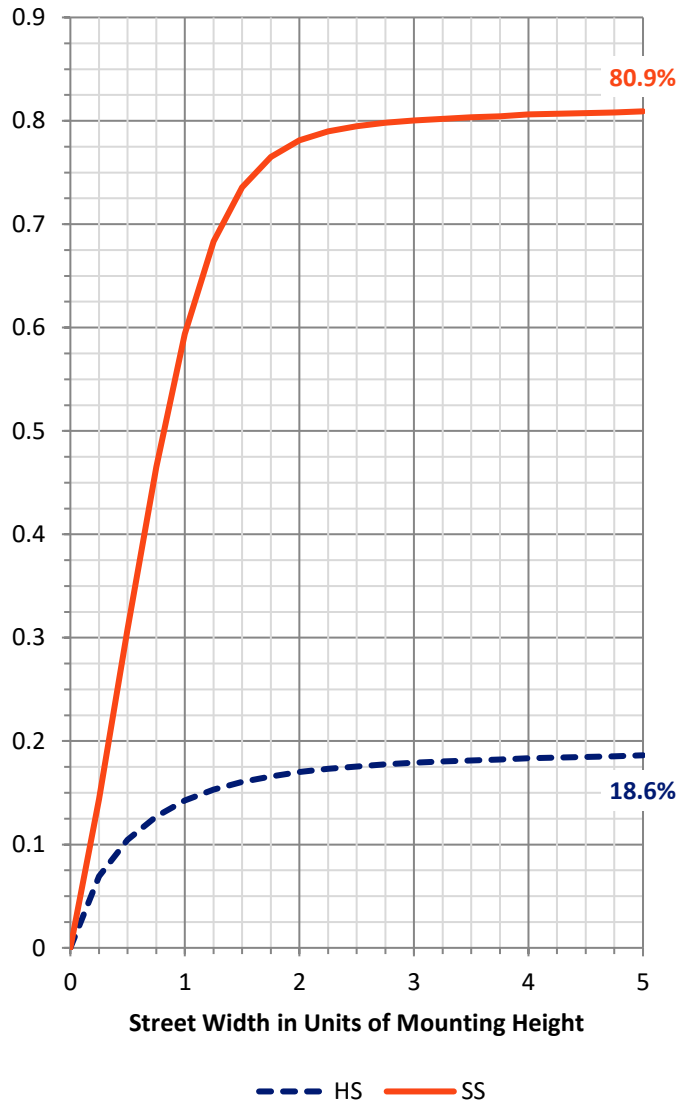
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1565.3	0.0	1565.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6709.6	0.0	6709.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	8274.8	0.0	8274.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	1.3
10°-20°	373.9	4.5
20°-30°	705.9	8.5
30°-40°	1137.2	13.7
40°-50°	1555.5	18.8
50°-60°	1754.6	21.2
60°-70°	1637.7	19.8
70°-80°	897.7	10.8
80°-90°	108.3	1.3
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°	8274.8	100.0
0°-180°	8274.8	100.0

Coefficient of Utilization



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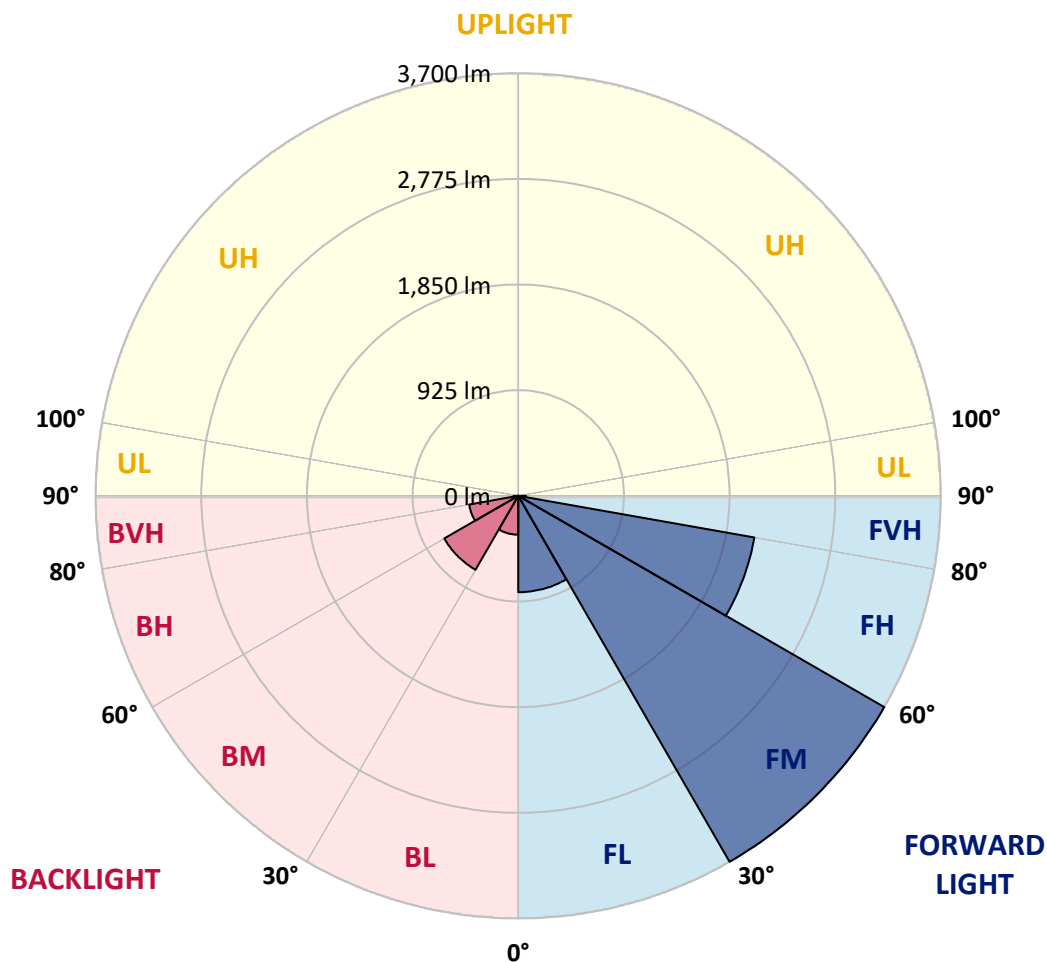
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	843.5	10.2			
FM	(30°-60°)	3699.6	44.7			
FH	(60°-80°)	2098.7	25.4			G2/5000
FVH	(80°-90°)	67.7	0.8			G1/100
BL	(0°-30°)	340.3	4.1	B1/500		
BM	(30°-60°)	747.7	9.0	B1/1000		
BH	(60°-80°)	436.7	5.3	B1/500		G1/500
BVH	(80°-90°)	40.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9
2.5°	1215.6	1224.2	1213.5	1213.5	1177.6	1158.9	1123.0	1095.6	1046.5	1037.9	1005.5
5°	1436.9	1447.6	1432.6	1426.2	1384.0	1345.1	1284.8	1225.5	1138.0	1128.9	1052.5
7.5°	1608.2	1621.9	1608.6	1601.8	1564.1	1520.6	1450.2	1367.2	1243.8	1226.3	1115.7
10°	1747.8	1750.0	1745.8	1748.3	1718.8	1682.9	1610.8	1514.2	1360.0	1336.1	1192.2
12.5°	1826.9	1836.7	1845.2	1860.6	1855.5	1833.3	1768.3	1653.0	1483.1	1452.3	1275.4
15°	1864.1	1881.2	1900.4	1935.8	1964.4	1969.9	1920.4	1802.2	1608.2	1571.0	1359.6
17.5°	1877.3	1893.5	1923.8	1975.1	2036.6	2078.1	2055.8	1946.9	1732.0	1689.3	1448.0
20°	1944.3	1949.0	1967.4	2016.1	2082.7	2151.5	2168.2	2086.2	1854.6	1806.4	1539.4
22.5°	2087.8	2078.5	2083.6	2105.8	2153.6	2220.3	2258.3	2209.2	1980.6	1925.2	1631.7
25°	2324.9	2297.6	2270.3	2244.6	2268.9	2306.6	2349.7	2332.2	2112.6	2042.2	1724.8
27.5°	2624.4	2591.0	2530.8	2446.7	2417.2	2430.5	2449.6	2446.3	2234.8	2163.5	1820.9
30°	2919.1	2880.2	2808.5	2686.7	2609.0	2574.0	2559.4	2549.6	2367.6	2291.6	1917.9
32.5°	3154.4	3123.7	3053.2	2916.9	2804.2	2744.4	2696.2	2661.1	2506.4	2430.5	2020.4
35°	3360.4	3331.7	3251.0	3102.4	2979.8	2916.1	2852.9	2778.2	2650.9	2574.0	2130.6
37.5°	3548.2	3519.6	3409.0	3254.4	3131.0	3087.0	3030.6	2903.7	2795.7	2723.0	2247.2
40°	3667.0	3660.6	3557.3	3382.1	3254.0	3232.2	3213.4	3049.4	2956.2	2888.8	2375.3
42.5°	3697.4	3711.4	3629.4	3485.5	3363.3	3345.8	3389.8	3214.2	3136.5	3072.0	2520.6
45°	3624.3	3664.9	3611.1	3513.3	3441.0	3431.7	3546.1	3394.5	3336.0	3277.0	2695.6
47.5°	3439.4	3508.2	3485.9	3472.2	3461.9	3502.5	3683.6	3585.9	3562.0	3510.7	2895.6
50°	3066.0	3196.3	3235.2	3321.4	3420.5	3557.7	3808.8	3794.8	3825.9	3774.3	3139.1
52.5°	2420.6	2600.0	2825.5	3041.7	3293.2	3539.3	3946.4	4094.6	4226.2	4198.0	3526.1
55°	1998.1	2078.9	2252.3	2648.7	3046.4	3461.9	4008.3	4336.8	4623.4	4598.2	3819.5
57.5°	1673.5	1745.8	1852.5	2183.6	2673.1	3286.5	4046.7	4484.6	4895.5	4892.9	4109.1
60°	1325.4	1401.9	1511.3	1745.8	2237.0	2983.2	4038.2	4652.9	5242.8	5264.1	4462.3
62.5°	932.4	1016.6	1138.0	1356.6	1791.4	2590.2	3863.9	4774.6	5651.5	5709.7	4887.4
65°	612.9	668.5	759.9	948.6	1334.9	2084.8	3531.2	4790.4	6088.9	6187.1	5286.3
67.5°	429.7	451.1	504.9	607.4	880.0	1598.8	3001.1	4626.8	6380.6	6491.3	5459.3
70°	335.3	345.9	373.3	414.3	552.7	1075.1	2299.7	4201.4	6318.3	6433.6	5278.6
72.5°	289.6	299.8	310.1	315.2	370.7	663.8	1557.8	3512.8	5731.0	5809.1	4589.6
75°	262.7	265.3	273.8	272.1	282.8	430.6	899.1	2559.4	4521.7	4494.8	3388.1
77.5°	220.8	224.3	238.3	236.2	251.1	294.3	466.9	1651.8	2931.5	2748.6	1885.8
80°	187.1	188.8	204.2	201.6	218.2	213.1	238.3	841.9	1243.4	1053.3	543.8
82.5°	64.9	80.3	155.9	160.6	166.6	129.0	137.6	343.4	379.8	290.9	114.1
85°	31.6	33.7	79.4	112.7	112.3	64.9	67.0	122.6	119.6	94.0	38.0
87.5°	5.1	6.5	9.4	44.0	35.1	17.1	23.1	23.9	24.8	21.3	8.5
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°	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9	970.9
2.5°	981.5	960.2	915.3	873.9	841.4	810.3	792.7	777.9	769.3	767.6	767.6
5°	1008.1	964.0	882.5	813.7	768.9	735.5	718.0	706.9	701.4	697.9	697.5
7.5°	1046.1	981.5	865.4	787.2	740.3	716.3	707.4	705.6	705.2	705.6	706.9
10°	1098.6	1010.2	863.7	780.8	741.5	728.3	727.9	728.3	730.0	730.4	730.8
12.5°	1155.4	1039.7	870.5	786.4	757.8	750.5	749.2	748.8	750.1	750.9	751.3
15°	1217.4	1078.5	882.0	798.4	775.7	768.0	766.7	764.1	763.7	763.3	762.9
17.5°	1281.0	1116.9	894.8	811.2	787.2	776.5	771.8	765.9	761.2	759.9	761.2
20°	1345.5	1155.0	903.8	817.5	788.1	773.2	763.7	753.5	745.4	740.7	742.4
22.5°	1414.3	1194.7	909.4	815.8	780.4	759.9	742.8	730.8	718.4	710.3	710.7
25°	1481.3	1229.3	909.0	806.9	765.5	739.3	717.6	702.2	685.1	676.6	676.6
27.5°	1545.8	1260.5	898.3	791.1	744.0	715.0	689.0	670.7	653.9	645.9	645.4
30°	1612.4	1286.6	881.6	768.0	718.8	686.9	658.3	642.5	627.5	619.8	619.3
32.5°	1678.6	1310.5	858.1	739.3	689.8	659.1	630.9	616.3	607.4	607.4	607.8
35°	1748.8	1327.2	827.0	706.0	659.1	629.7	607.4	598.8	598.0	592.9	591.6
37.5°	1822.7	1337.8	788.9	671.9	628.7	601.0	594.2	583.9	575.3	564.3	562.5
40°	1900.4	1348.5	743.2	636.4	596.8	581.4	578.3	564.7	540.4	513.0	509.1
42.5°	1994.8	1355.8	695.8	601.0	562.9	557.8	562.1	538.6	499.8	479.3	479.7
45°	2104.1	1367.8	652.2	566.0	528.4	528.4	546.3	515.6	483.5	470.7	472.8
47.5°	2245.9	1395.4	611.6	527.6	496.3	504.9	511.3	487.8	469.9	454.1	453.7
50°	2451.0	1462.1	569.8	488.6	472.0	489.0	480.1	466.5	445.5	432.7	431.4
52.5°	2705.5	1501.4	532.7	453.7	451.1	468.1	455.3	442.5	426.7	409.6	406.2
55°	2878.9	1508.7	501.4	428.0	437.0	435.2	430.6	419.0	410.5	387.9	388.3
57.5°	3072.8	1523.1	475.8	412.7	428.0	409.2	407.5	397.7	386.5	371.2	366.0
60°	3304.8	1545.8	453.7	406.6	420.4	392.2	383.6	379.8	368.6	360.9	363.1
62.5°	3557.7	1566.3	431.0	407.5	411.3	375.5	362.6	361.3	354.5	352.0	352.0
65°	3730.3	1510.3	402.8	406.6	397.3	358.3	342.1	341.7	336.2	335.3	334.9
67.5°	3670.0	1333.1	364.8	394.7	382.7	341.3	323.4	321.6	314.4	314.8	314.8
70°	3368.5	1080.2	312.2	365.2	364.8	326.0	303.7	298.2	288.3	290.1	291.7
72.5°	2802.9	800.4	241.8	316.1	336.2	311.8	281.1	272.1	259.7	261.4	261.0
75°	2024.3	544.2	176.0	240.5	292.6	295.2	258.8	243.4	228.5	231.0	232.0
77.5°	1035.9	308.4	129.5	165.7	229.8	268.2	238.7	218.2	214.8	238.7	235.3
80°	337.8	154.7	89.7	116.1	150.8	219.6	209.3	185.8	184.9	190.5	163.6
82.5°	100.8	65.4	57.7	76.5	83.3	168.3	180.7	140.5	120.8	127.3	131.6
85°	34.6	31.6	32.9	38.0	39.8	98.7	126.5	93.1	87.9	97.0	95.6
87.5°	8.1	11.1	9.4	8.5	8.5	23.9	49.1	38.8	53.8	35.9	34.6
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)