

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: P959864

Luminaire Tested: **NAV-SB1B-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959864
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-SB1B-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

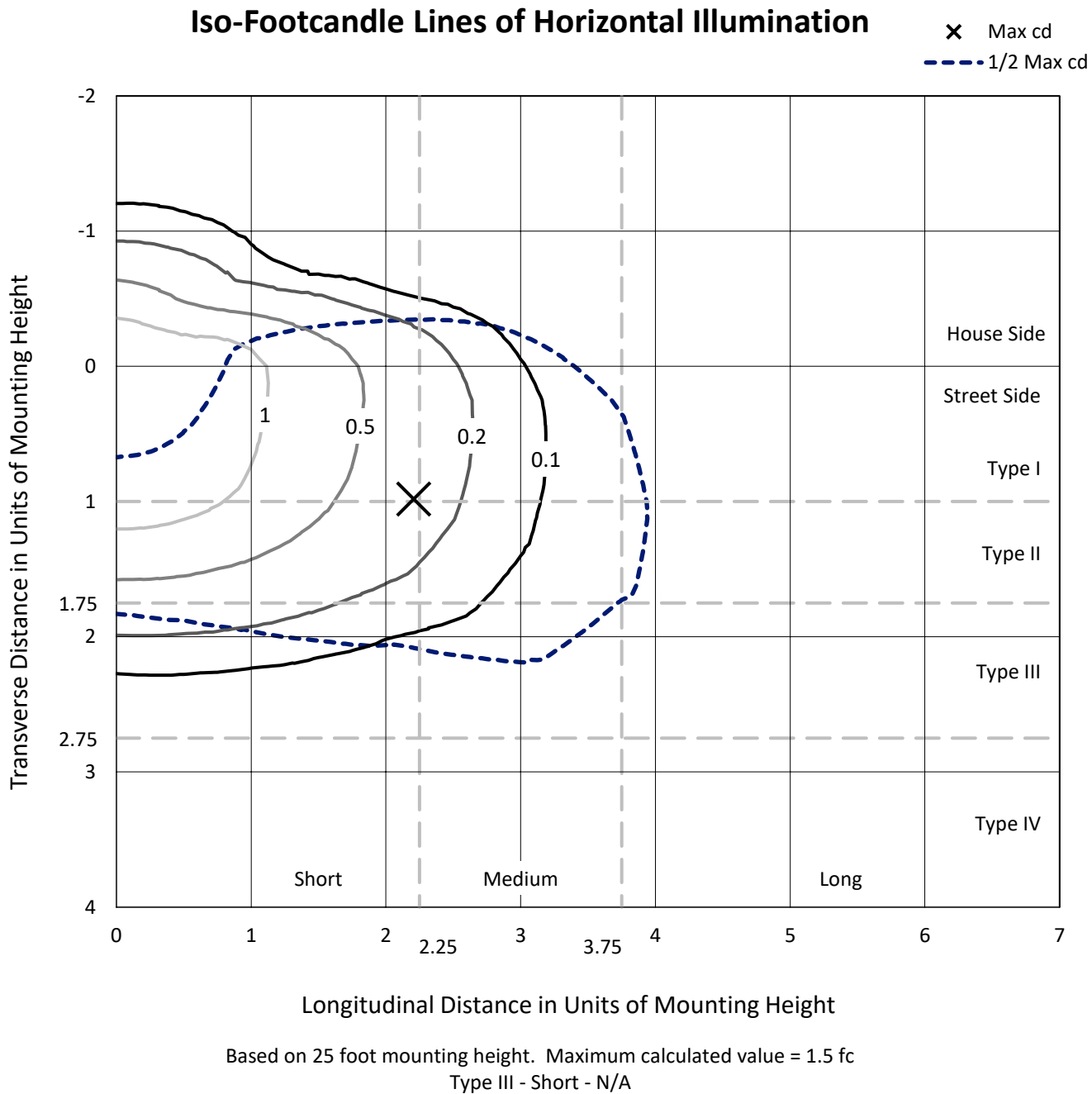
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6112.1 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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

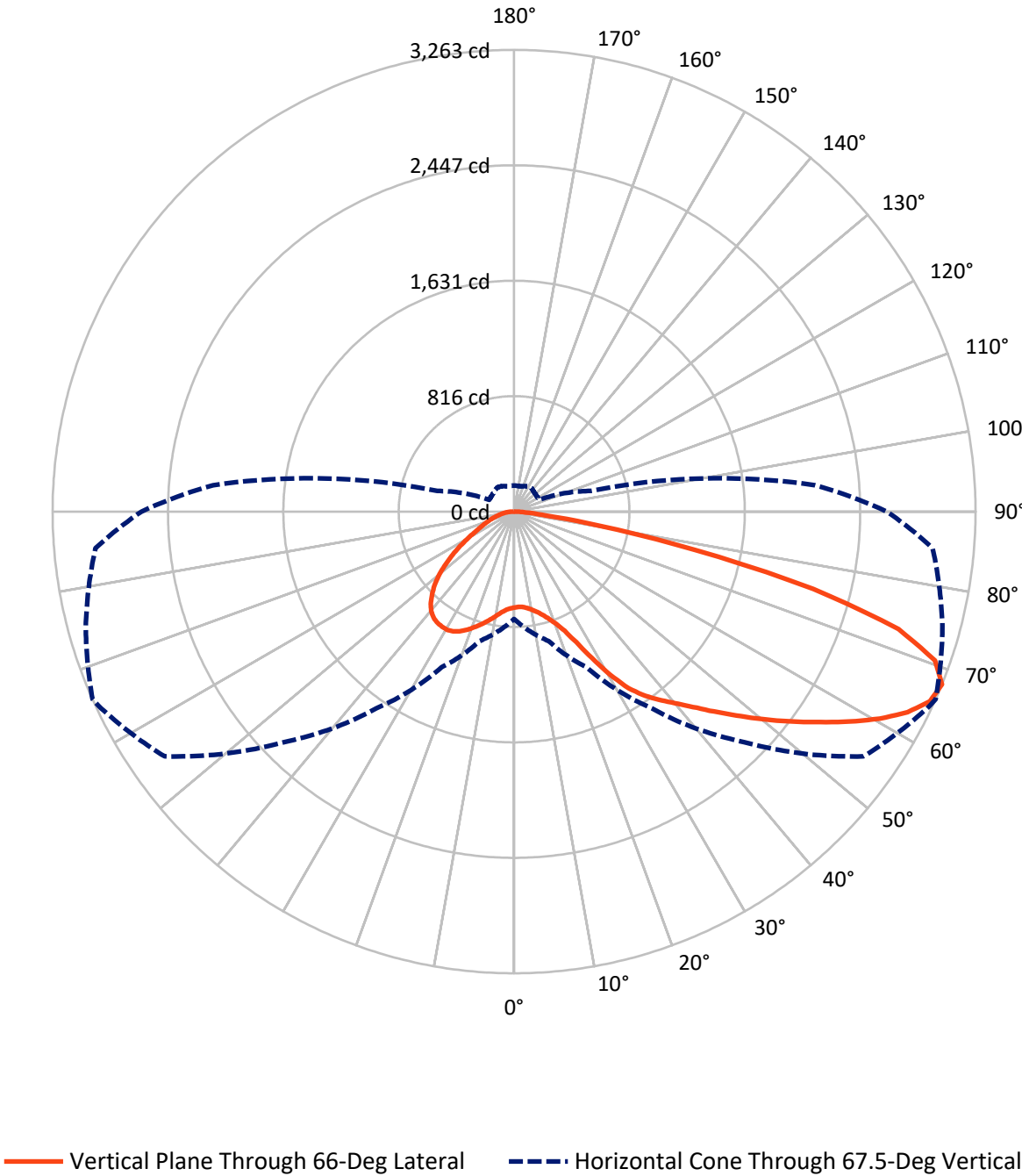


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Luminous Intensity Polar Plot



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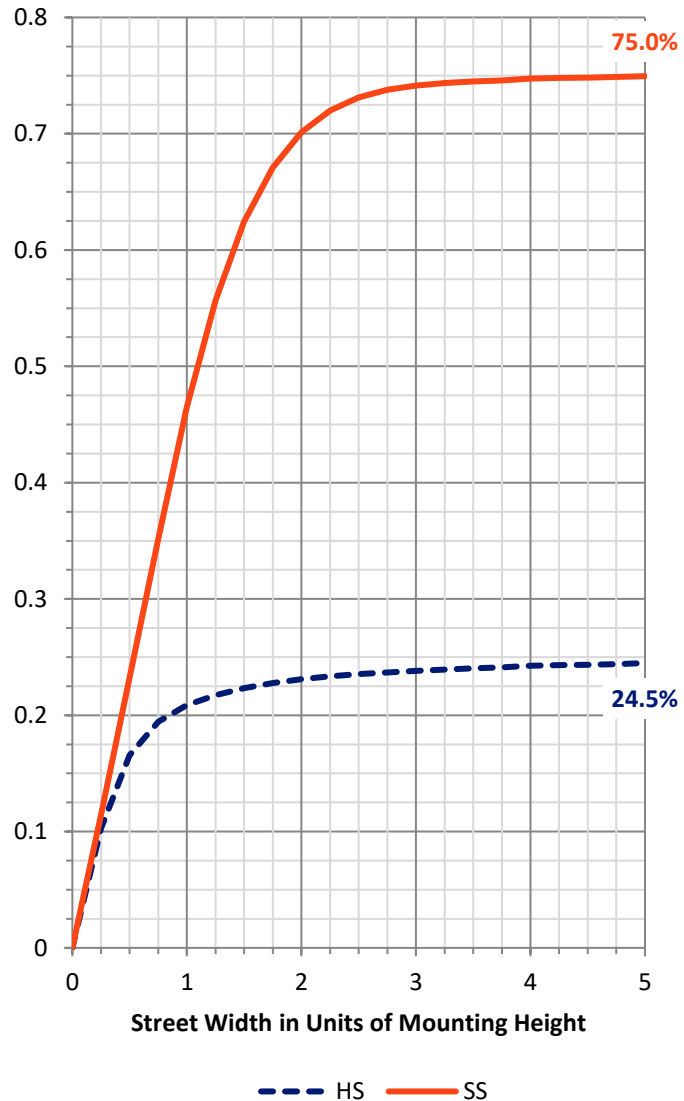
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1519.7	0.0	1519.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4592.3	0.0	4592.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	6112.1	0.0	6112.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.1
10°-20°	222.1	3.6
20°-30°	428.0	7.0
30°-40°	750.5	12.3
40°-50°	1115.7	18.3
50°-60°	1414.2	23.1
60°-70°	1383.8	22.6
70°-80°	660.1	10.8
80°-90°	70.5	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°	6112.1	100.0
0°-180°	6112.1	100.0

Coefficient of Utilization



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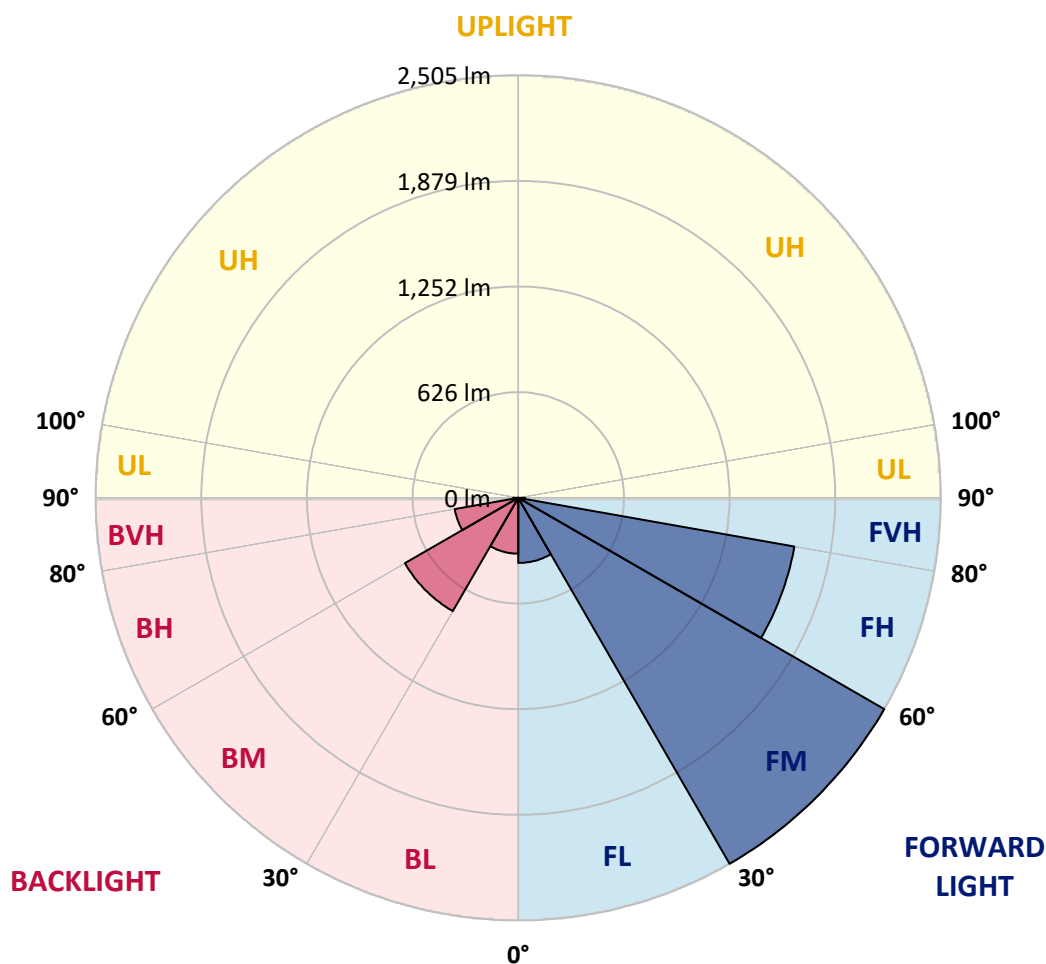
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.2	6.3			
FM	(30°-60°)	2504.7	41.0			
FH	(60°-80°)	1661.4	27.2			G1/1800
FVH	(80°-90°)	40.0	0.7			G1/100
BL	(0°-30°)	331.1	5.4	B1/500		
BM	(30°-60°)	775.7	12.7	B1/1000		
BH	(60°-80°)	382.5	6.3	B1/500		G1/500
BVH	(80°-90°)	30.5	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9
2.5°	670.9	674.7	673.7	672.1	671.8	672.4	673.4	674.3	674.0	675.7	678.2
5°	668.9	672.8	672.4	672.4	673.7	676.3	677.9	679.5	677.9	679.9	683.4
7.5°	670.2	673.1	674.3	675.7	678.9	683.7	687.6	691.1	689.1	691.4	695.9
10°	686.5	688.8	690.1	690.1	692.4	697.8	701.7	708.1	706.5	710.0	715.8
12.5°	716.5	718.7	718.7	717.4	719.0	722.5	723.9	730.9	728.1	733.8	739.5
15°	753.1	757.6	754.0	751.7	752.5	755.9	755.6	761.1	758.2	763.0	768.1
17.5°	793.6	799.3	793.6	793.2	791.9	795.8	796.1	800.9	795.8	799.3	802.8
20°	841.3	849.4	844.6	846.1	843.3	844.9	846.5	853.6	845.5	848.1	847.2
22.5°	908.8	918.4	913.3	919.4	917.5	916.1	915.8	928.3	915.8	916.9	907.5
25°	1007.1	1018.6	1009.6	1018.0	1018.0	1022.1	1026.9	1043.0	1022.1	1016.1	992.0
27.5°	1152.2	1163.8	1146.2	1151.3	1149.6	1159.9	1154.8	1194.6	1172.1	1162.1	1113.7
30°	1327.0	1347.5	1314.0	1312.8	1311.2	1327.6	1335.0	1361.3	1338.4	1328.5	1270.1
32.5°	1515.8	1537.3	1497.4	1485.8	1479.8	1489.7	1483.6	1504.8	1489.1	1473.6	1401.4
35°	1715.4	1736.7	1698.8	1676.3	1651.9	1631.0	1609.1	1614.7	1599.9	1576.4	1501.6
37.5°	1904.3	1943.2	1903.0	1878.9	1834.0	1793.2	1732.1	1706.8	1693.0	1671.5	1596.0
40°	2096.6	2118.9	2088.3	2067.7	2018.9	1955.1	1857.4	1803.8	1785.1	1764.3	1700.4
42.5°	2238.3	2259.5	2243.1	2229.0	2190.7	2116.6	1990.3	1923.3	1896.2	1872.9	1818.6
45°	2350.7	2366.4	2356.2	2361.3	2344.9	2272.9	2128.1	2051.4	2023.5	1994.9	1952.1
47.5°	2395.9	2412.6	2429.0	2459.6	2487.5	2434.5	2276.2	2190.1	2160.6	2131.4	2089.3
50°	2390.8	2407.8	2455.4	2520.3	2607.0	2589.3	2432.2	2337.8	2310.6	2277.1	2238.3
52.5°	2349.7	2369.0	2430.0	2537.9	2676.0	2705.2	2591.2	2490.3	2464.7	2424.8	2386.0
55°	2241.8	2253.4	2344.9	2497.7	2692.4	2786.2	2747.0	2652.9	2627.2	2571.6	2529.2
57.5°	2041.8	2058.5	2191.8	2389.6	2651.3	2841.1	2883.7	2823.7	2799.0	2719.0	2674.7
60°	1780.6	1807.4	1959.9	2207.7	2546.6	2840.7	3008.1	2991.7	2971.1	2864.2	2817.9
62.5°	1485.2	1516.1	1662.9	1950.9	2363.5	2760.1	3085.8	3132.3	3121.7	2998.1	2939.0
65°	1140.6	1161.8	1308.0	1618.5	2078.7	2587.0	3094.8	3228.3	3230.3	3099.9	3002.2
67.5°	759.5	820.5	947.3	1214.5	1697.2	2304.1	3015.8	3244.1	3262.7	3134.9	2970.4
70°	370.5	450.9	575.1	789.4	1214.5	1870.3	2809.2	3115.0	3156.4	3032.8	2781.0
72.5°	153.9	179.8	247.6	389.5	697.2	1262.1	2394.4	2764.9	2841.7	2687.2	2338.1
75°	103.7	112.4	141.7	199.8	317.6	622.4	1726.7	2061.7	2185.3	2029.6	1659.0
77.5°	79.9	85.4	103.1	139.7	188.8	235.3	924.2	1242.5	1306.4	1209.4	863.2
80°	62.9	67.1	77.1	101.8	133.9	125.9	315.0	562.9	599.8	503.2	277.5
82.5°	54.6	56.2	55.2	69.1	89.0	73.5	103.4	207.8	229.3	166.4	90.6
85°	39.5	44.0	45.9	42.7	47.3	37.2	42.4	73.5	81.0	72.3	51.0
87.5°	16.1	23.8	29.2	27.6	17.3	10.6	13.1	21.5	24.7	27.0	16.7
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°	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9	677.9
2.5°	678.6	680.8	682.4	684.3	685.6	687.6	691.4	693.6	693.9	695.6	695.3
5°	684.7	687.9	691.4	696.5	702.3	707.1	714.5	719.7	721.6	723.2	722.8
7.5°	697.8	702.3	708.8	717.7	726.1	732.5	741.5	747.6	753.7	755.9	756.2
10°	717.4	723.9	733.2	745.4	754.3	762.7	772.0	777.2	783.2	785.8	787.1
12.5°	741.8	748.6	760.8	777.8	786.2	791.9	795.1	793.9	795.1	797.3	798.0
15°	769.8	777.2	791.0	809.2	815.1	809.9	802.8	796.4	795.4	796.1	798.4
17.5°	802.8	808.3	824.3	839.8	835.6	814.4	799.0	788.7	783.6	782.0	784.2
20°	849.1	849.1	862.2	871.9	844.0	808.0	783.9	767.2	756.6	752.0	751.1
22.5°	905.3	900.2	908.5	901.7	842.3	790.0	756.6	727.6	711.7	705.2	704.3
25°	976.5	970.5	968.2	926.5	830.8	761.4	707.1	672.1	658.0	654.5	655.1
27.5°	1084.1	1068.8	1039.6	939.9	809.5	716.5	649.3	616.8	608.8	609.2	610.2
30°	1227.3	1196.6	1124.9	942.2	774.9	652.8	590.2	567.1	563.2	564.9	570.3
32.5°	1360.0	1330.8	1212.3	931.9	721.6	590.6	537.3	521.8	516.1	518.0	520.6
35°	1464.0	1456.0	1293.2	917.5	656.1	532.1	489.7	476.5	465.4	462.8	464.6
37.5°	1562.3	1559.1	1353.9	897.3	591.2	490.7	451.5	434.2	417.8	408.8	409.1
40°	1670.2	1667.0	1393.7	866.1	533.7	454.7	417.2	394.3	374.1	357.7	359.4
42.5°	1791.6	1772.6	1412.7	821.4	484.9	424.2	389.2	358.3	331.7	316.6	317.6
45°	1924.2	1881.5	1412.3	764.6	443.8	396.3	359.4	315.7	290.9	276.9	276.1
47.5°	2064.9	1985.5	1395.0	701.7	404.0	365.4	313.1	279.7	263.3	254.6	252.8
50°	2210.0	2082.9	1365.4	629.5	363.2	330.5	284.2	261.4	248.9	240.9	238.0
52.5°	2346.5	2171.2	1329.8	547.6	321.7	296.4	271.3	253.7	240.6	231.5	227.7
55°	2473.3	2247.3	1279.4	463.7	288.0	273.6	265.3	250.5	235.3	224.8	220.6
57.5°	2586.1	2296.7	1192.4	385.0	263.9	257.9	258.8	245.0	227.7	218.7	212.9
60°	2679.9	2333.0	1063.5	312.1	244.4	242.4	248.9	234.7	214.5	204.3	199.8
62.5°	2736.0	2332.4	905.6	255.6	227.7	228.4	235.7	221.9	201.3	191.7	188.8
65°	2731.2	2275.2	732.2	218.7	211.7	212.3	221.9	207.8	190.4	184.6	184.3
67.5°	2634.6	2135.9	561.7	194.6	193.9	196.9	208.1	198.1	183.7	183.1	184.0
70°	2372.9	1846.5	404.7	175.4	175.7	179.8	194.6	192.1	180.2	181.4	181.1
72.5°	1902.7	1407.8	271.7	155.1	155.4	162.2	181.7	187.3	176.6	193.6	196.2
75°	1267.2	878.0	174.7	133.6	133.9	142.6	170.6	177.9	167.0	193.0	194.6
77.5°	608.8	394.6	126.5	112.4	112.4	120.4	147.4	159.3	142.3	150.0	137.5
80°	210.3	148.3	99.5	90.6	88.7	94.1	124.2	138.1	122.7	113.1	106.0
82.5°	82.8	77.1	79.9	70.3	63.9	67.4	96.7	114.0	90.2	81.6	81.3
85°	47.6	50.1	56.5	46.5	36.9	41.4	70.9	81.9	68.1	60.1	61.3
87.5°	12.8	17.6	26.0	24.1	16.7	17.6	33.7	45.3	39.2	30.2	31.2
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)