

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: P962061

Luminaire Tested: **NAV-SB2B-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

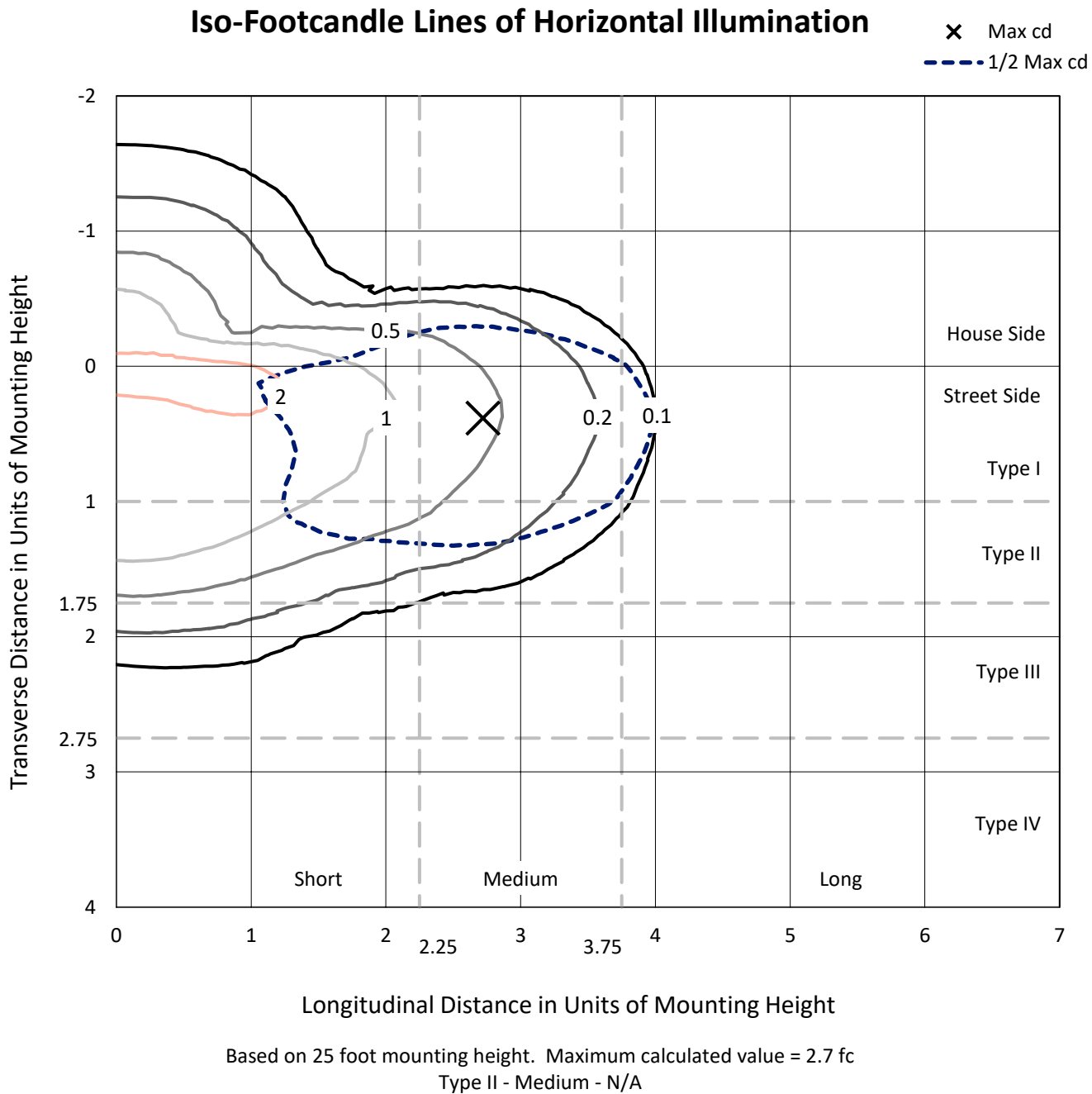
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9945.6 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.9
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

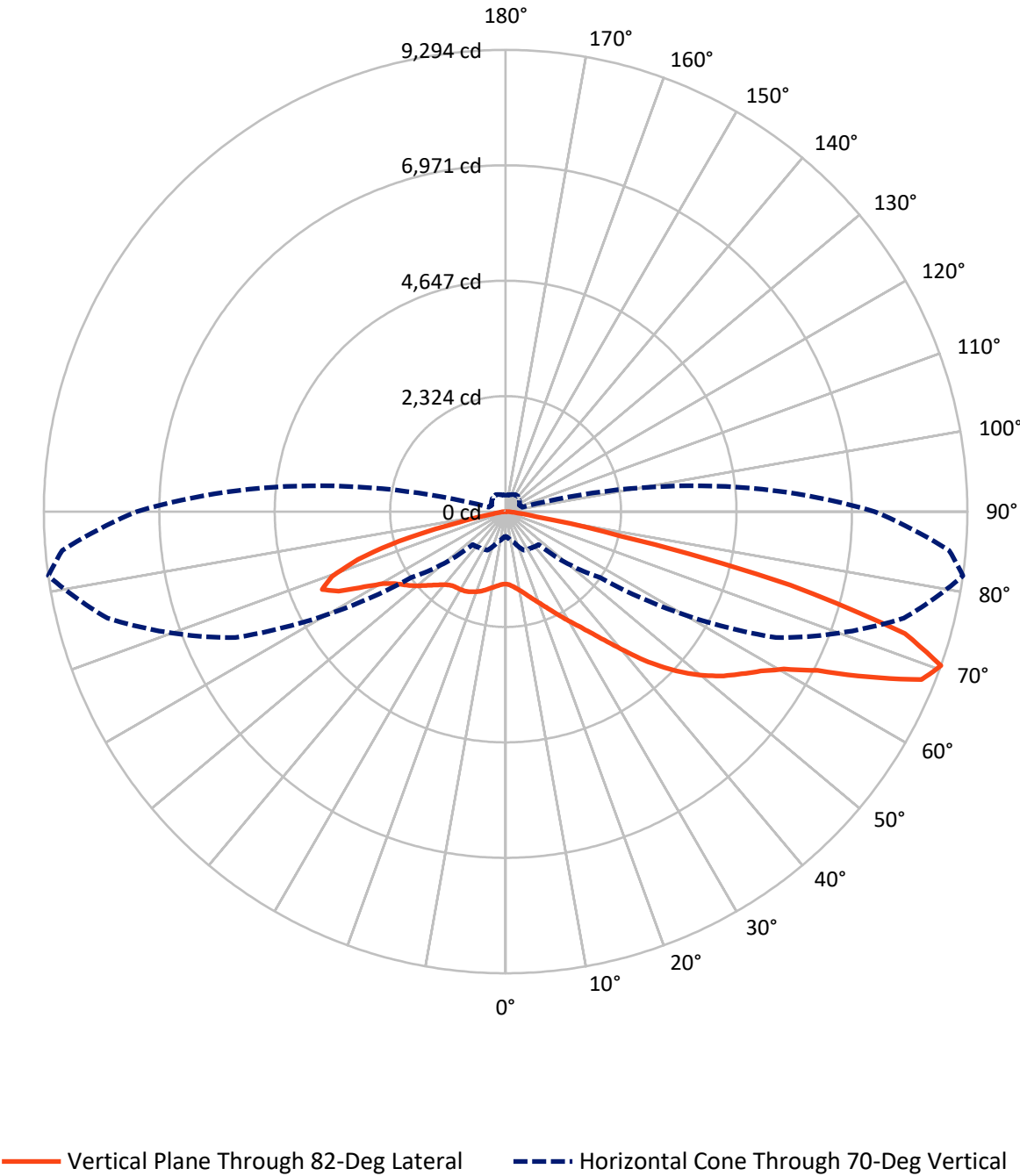


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Luminous Intensity Polar Plot



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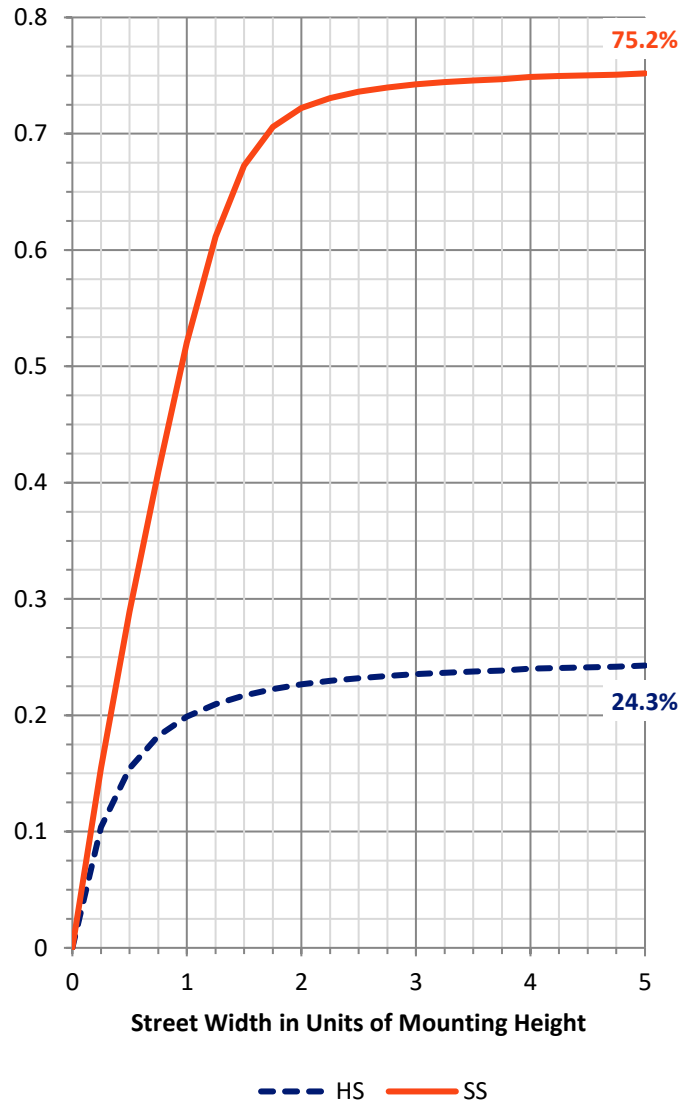
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2451.8	0.0	2451.8
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7493.8	0.0	7493.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	9945.6	0.0	9945.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.4
10°-20°	395.5	4.0
20°-30°	661.7	6.7
30°-40°	1033.8	10.4
40°-50°	1646.4	16.6
50°-60°	2291.1	23.0
60°-70°	2396.7	24.1
70°-80°	1252.6	12.6
80°-90°	130.1	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°	9945.6	100.0
0°-180°	9945.6	100.0

Coefficient of Utilization



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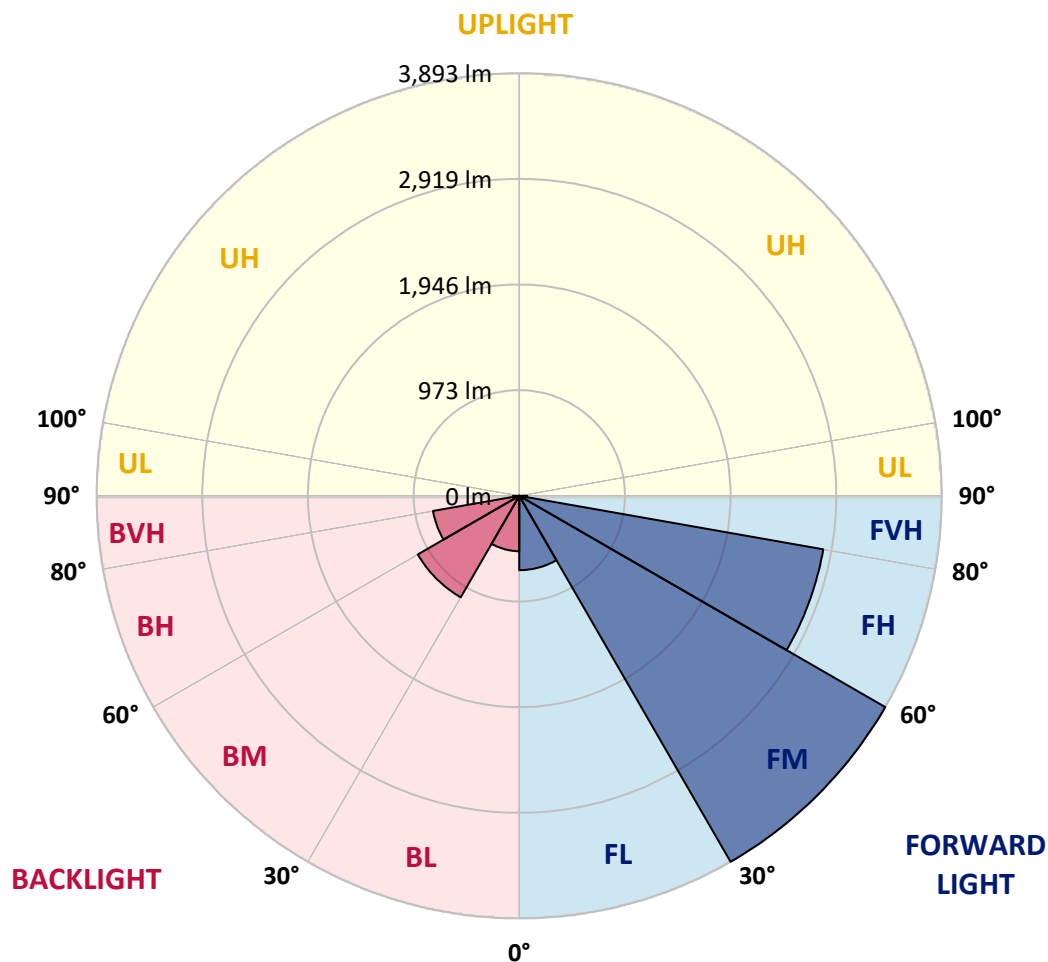
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	684.9	6.9			
FM	(30°-60°)	3892.6	39.1			
FH	(60°-80°)	2843.5	28.6			G2/5000
FVH	(80°-90°)	72.8	0.7			G1/100
BL	(0°-30°)	510.1	5.1	B2/1000		
BM	(30°-60°)	1078.7	10.8	B2/2500		
BH	(60°-80°)	805.8	8.1	B2/1000		G2/1000
BVH	(80°-90°)	57.3	0.6			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°	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2
2.5°	1493.0	1501.4	1498.8	1496.2	1496.2	1492.4	1491.9	1486.7	1482.5	1475.6	1473.9
5°	1512.0	1521.0	1519.9	1522.0	1528.9	1530.4	1532.1	1528.9	1520.4	1512.0	1508.3
7.5°	1495.1	1505.1	1508.3	1521.0	1542.0	1561.1	1575.3	1581.1	1573.2	1561.1	1555.2
10°	1438.1	1449.1	1460.2	1490.4	1527.8	1572.7	1610.7	1633.3	1631.8	1620.1	1610.2
12.5°	1322.6	1334.1	1357.9	1416.4	1485.0	1564.3	1635.0	1682.4	1698.8	1690.3	1672.9
15°	1230.2	1240.1	1258.1	1318.3	1407.5	1527.8	1643.9	1736.2	1778.0	1773.2	1752.1
17.5°	1227.5	1231.7	1242.8	1271.3	1340.0	1470.8	1634.4	1789.0	1868.7	1868.2	1841.8
20°	1274.0	1275.5	1281.9	1287.7	1326.8	1427.5	1610.2	1832.8	1970.6	1970.6	1942.1
22.5°	1338.3	1337.3	1343.7	1338.3	1357.3	1423.8	1594.8	1871.3	2084.0	2092.5	2056.6
25°	1434.9	1429.7	1428.0	1415.9	1419.6	1458.2	1611.7	1915.2	2218.6	2236.0	2191.1
27.5°	1563.7	1555.2	1549.5	1521.5	1512.0	1528.9	1663.5	1967.9	2368.5	2398.6	2341.6
30°	1731.5	1716.3	1707.8	1659.2	1624.9	1627.6	1741.6	2038.1	2525.2	2573.8	2501.5
32.5°	1960.5	1936.8	1914.1	1834.4	1771.6	1751.0	1842.3	2135.3	2695.1	2772.7	2679.9
35°	2217.1	2198.0	2173.7	2050.8	1954.3	1906.7	1978.5	2270.9	2894.1	3017.1	2896.2
37.5°	2464.0	2447.7	2459.3	2293.5	2169.0	2099.9	2156.9	2452.9	3139.6	3321.1	3167.5
40°	2719.4	2706.8	2708.4	2550.0	2405.0	2327.4	2373.3	2681.4	3420.8	3682.6	3493.6
42.5°	2997.0	2987.6	2955.9	2815.5	2652.4	2580.1	2622.4	2945.3	3722.7	4094.2	3851.4
45°	3307.9	3302.0	3272.5	3111.6	2924.7	2843.5	2900.4	3236.6	4026.1	4481.6	4210.8
47.5°	3576.5	3581.2	3577.6	3442.0	3248.2	3129.0	3197.1	3540.7	4308.5	4845.7	4555.4
50°	3705.8	3730.6	3767.0	3724.7	3604.5	3483.1	3496.3	3834.0	4577.6	5187.1	4885.9
52.5°	3638.2	3685.2	3784.4	3852.0	3898.4	3873.1	3837.7	4125.3	4830.9	5495.3	5198.3
55°	3386.5	3452.5	3617.1	3780.2	4017.2	4201.4	4247.8	4448.3	5078.0	5766.6	5493.8
57.5°	2927.9	3035.0	3182.8	3512.7	3911.6	4360.1	4725.9	4896.3	5339.6	6056.3	5803.0
60°	2141.5	2285.1	2468.8	2959.6	3542.2	4275.2	5132.8	5584.5	5711.7	6431.6	6205.7
62.5°	1370.5	1459.2	1628.1	2090.4	2760.1	3839.9	5257.3	6444.8	6342.4	7046.9	6809.4
65°	938.3	995.3	1149.9	1409.6	1784.3	2858.2	4923.8	7089.6	7344.0	8022.2	7841.7
67.5°	681.8	725.1	857.0	1084.6	1162.7	1691.5	3820.8	7060.1	8317.7	9027.0	8746.2
70°	497.1	527.8	638.6	857.0	894.5	941.0	2314.7	6001.5	8296.6	9294.0	8957.9
72.5°	368.4	389.5	463.9	664.9	724.1	635.4	1145.7	4361.8	7129.3	8406.3	8136.7
75°	266.5	282.4	337.2	508.7	579.4	483.9	571.5	2549.0	4972.9	5913.3	5960.8
77.5°	203.7	215.9	251.7	372.6	463.9	363.1	354.6	1172.6	2357.9	2369.6	2502.5
80°	163.6	171.5	191.1	262.3	355.7	271.8	231.1	473.3	745.2	630.7	661.7
82.5°	120.3	133.6	161.4	184.2	254.4	187.4	140.9	239.0	283.4	243.8	245.9
85°	68.6	77.6	97.7	131.9	162.6	114.5	80.8	106.1	131.9	108.1	96.6
87.5°	24.3	31.7	34.3	51.8	70.7	47.5	31.2	30.6	43.3	32.2	27.0
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°	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2	1458.2
2.5°	1468.7	1466.1	1455.5	1441.3	1426.5	1412.2	1407.5	1397.5	1390.6	1386.9	1391.1
5°	1498.2	1489.8	1465.0	1433.4	1400.0	1364.2	1338.9	1315.7	1298.8	1282.9	1289.2
7.5°	1540.5	1525.7	1483.0	1427.5	1368.5	1308.8	1264.4	1230.7	1208.0	1193.2	1196.4
10°	1589.6	1566.8	1501.4	1418.6	1327.3	1241.8	1189.5	1160.5	1146.3	1138.4	1140.4
12.5°	1646.0	1613.9	1520.4	1398.0	1264.4	1166.9	1131.0	1122.5	1123.0	1123.6	1124.6
15°	1715.6	1670.9	1535.8	1353.1	1182.6	1109.4	1103.0	1116.7	1131.0	1137.9	1137.2
17.5°	1794.4	1731.0	1538.3	1279.2	1102.5	1072.4	1092.4	1122.0	1143.6	1153.1	1155.2
20°	1878.7	1792.2	1519.4	1174.8	1036.5	1042.3	1078.2	1116.1	1139.9	1152.1	1155.2
22.5°	1975.4	1857.6	1473.9	1065.0	982.7	1009.5	1051.8	1088.8	1113.6	1125.7	1128.8
25°	2085.7	1931.0	1402.7	972.6	936.2	972.6	1014.9	1045.5	1065.5	1076.6	1079.7
27.5°	2208.1	2007.6	1307.7	899.2	895.5	934.6	969.4	993.2	1003.8	1012.2	1015.4
30°	2331.1	2077.2	1192.7	843.9	860.2	897.2	922.0	932.5	935.7	937.3	941.0
32.5°	2464.0	2137.3	1071.8	798.0	826.5	860.8	875.6	880.3	865.5	855.5	858.6
35°	2625.0	2201.7	953.7	761.6	793.1	822.8	827.5	823.3	805.9	785.3	786.4
37.5°	2824.0	2282.0	859.2	735.6	762.1	781.6	775.8	774.7	776.3	752.0	753.6
40°	3067.7	2386.4	790.1	715.7	736.8	741.0	724.6	733.6	741.5	704.5	705.6
42.5°	3338.5	2512.6	746.2	701.9	715.7	705.6	680.3	690.2	689.2	640.7	640.1
45°	3614.5	2649.8	730.9	691.9	696.1	676.0	648.1	650.7	628.5	584.8	586.3
47.5°	3889.0	2797.0	740.5	683.5	671.8	649.1	627.5	615.9	583.1	550.4	550.4
50°	4158.0	2951.7	775.2	666.6	638.6	625.4	609.6	589.0	554.1	526.1	524.1
52.5°	4407.7	3107.3	814.3	638.6	596.9	604.8	594.8	571.0	536.7	508.2	508.7
55°	4644.1	3263.0	829.6	600.0	557.8	586.8	581.1	537.2	496.1	472.8	470.8
57.5°	4901.7	3450.4	812.7	550.9	526.1	566.3	544.1	495.6	471.8	454.4	452.8
60°	5258.4	3744.3	776.3	490.3	496.1	535.7	497.6	477.6	451.7	432.2	431.1
62.5°	5851.0	4292.6	717.7	430.1	460.7	490.3	475.5	455.4	429.1	410.1	410.1
65°	6727.1	5054.7	607.4	383.1	421.2	446.0	451.7	431.7	404.3	384.2	385.3
67.5°	7465.9	5532.8	459.7	344.1	380.5	410.1	426.4	406.9	377.8	358.3	358.9
70°	7425.3	5185.6	351.0	305.6	344.6	374.7	395.9	380.5	349.3	330.9	332.5
72.5°	6595.2	4338.0	283.9	266.5	308.2	337.7	363.1	351.5	319.8	301.9	301.9
75°	4845.2	3079.4	226.9	226.9	262.8	299.2	327.2	319.8	290.8	278.1	274.4
77.5°	2042.3	1291.9	177.8	188.4	218.5	257.0	291.8	294.5	269.2	285.0	258.6
80°	543.0	356.2	135.6	148.3	171.5	212.2	253.9	252.8	225.3	210.5	195.8
82.5°	206.8	140.4	96.6	104.4	124.0	162.6	201.1	207.4	180.0	155.7	155.7
85°	79.6	60.2	59.7	62.8	72.3	107.6	152.0	157.2	135.6	115.0	118.7
87.5°	20.6	17.9	22.1	21.1	33.2	57.5	87.1	90.2	82.8	48.1	68.6
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)