

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: P961944

Luminaire Tested: **NAV-SB2B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

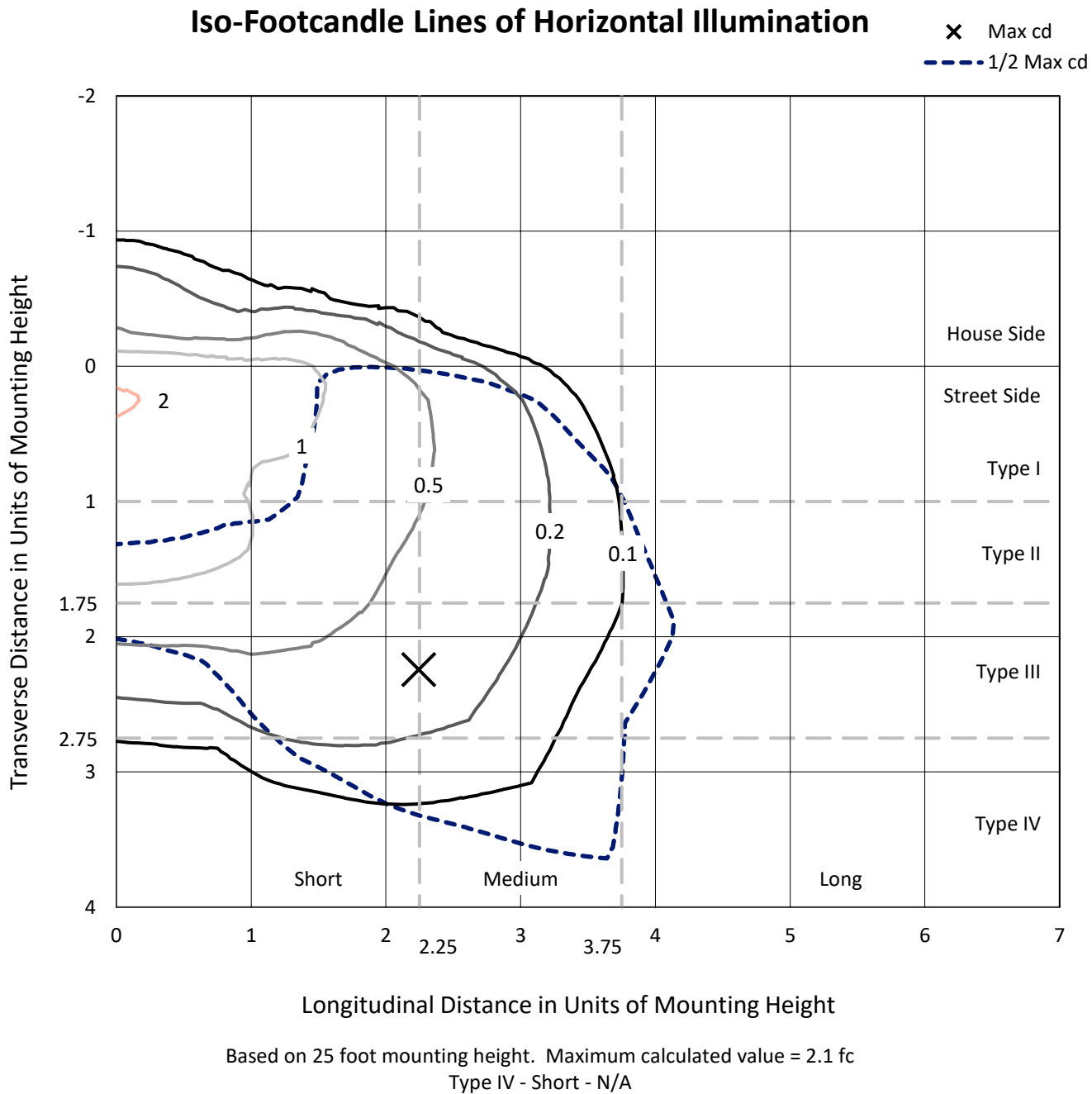
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8890.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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

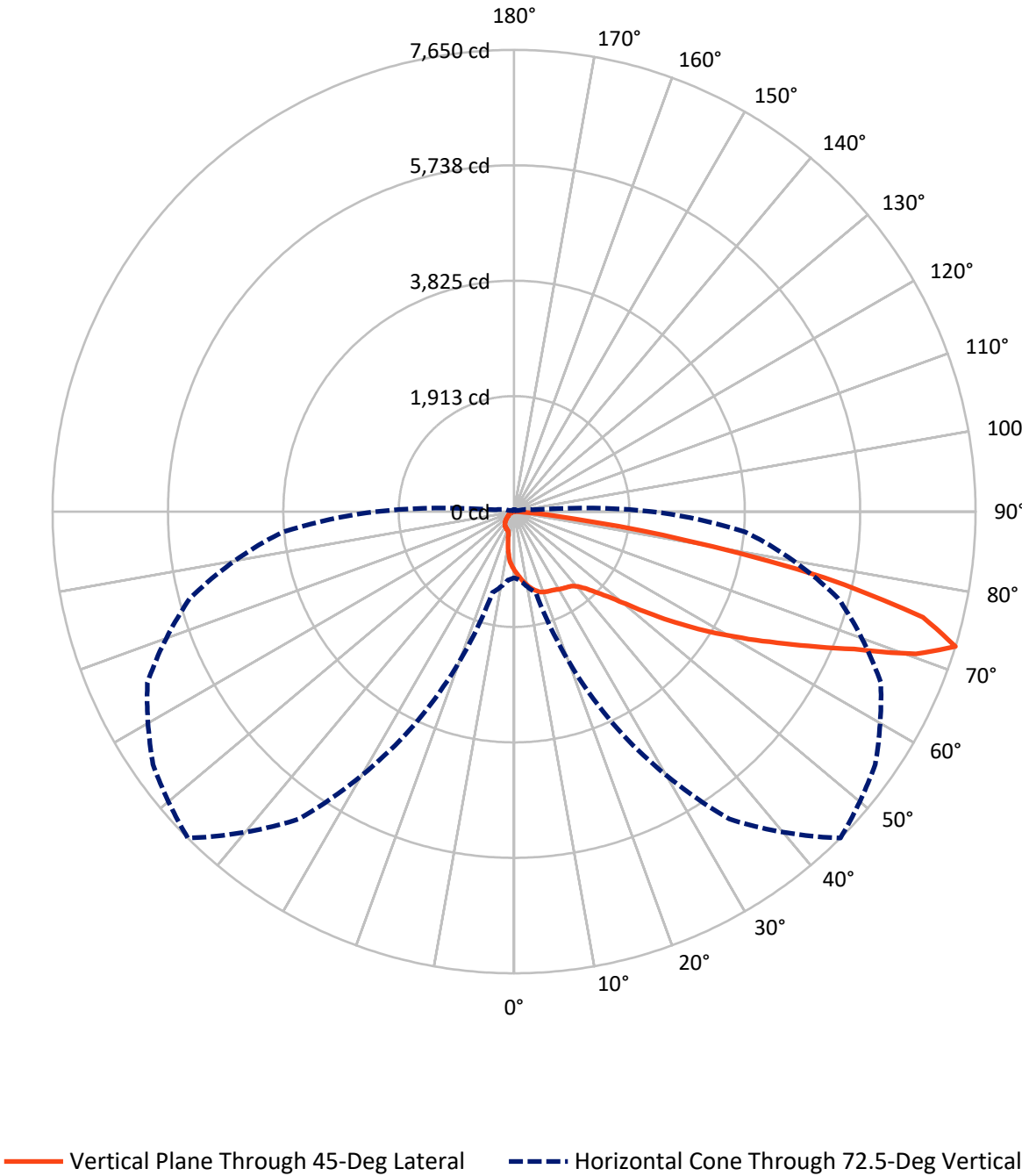


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Luminous Intensity Polar Plot



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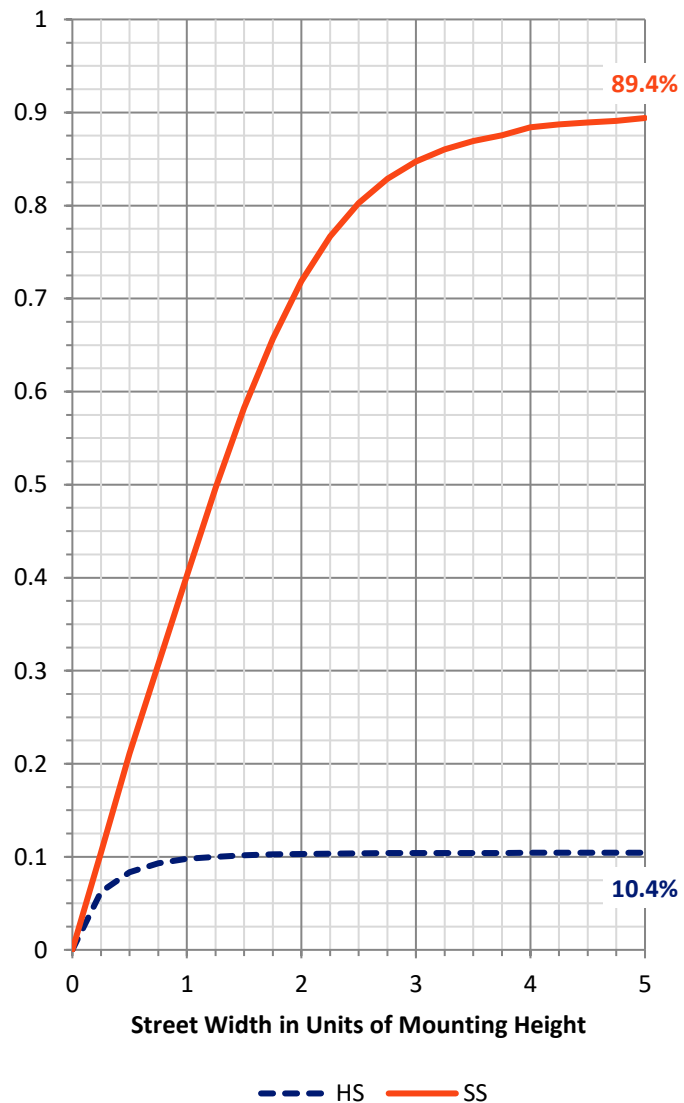
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.2	0.0	934.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7956.7	0.0	7956.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	8890.9	0.0	8890.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	1.0
10°-20°	268.2	3.0
20°-30°	440.4	5.0
30°-40°	624.6	7.0
40°-50°	1032.5	11.6
50°-60°	1854.7	20.9
60°-70°	2575.4	29.0
70°-80°	1868.1	21.0
80°-90°	135.1	1.5
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°	8890.9	100.0
0°-180°	8890.9	100.0

Coefficient of Utilization



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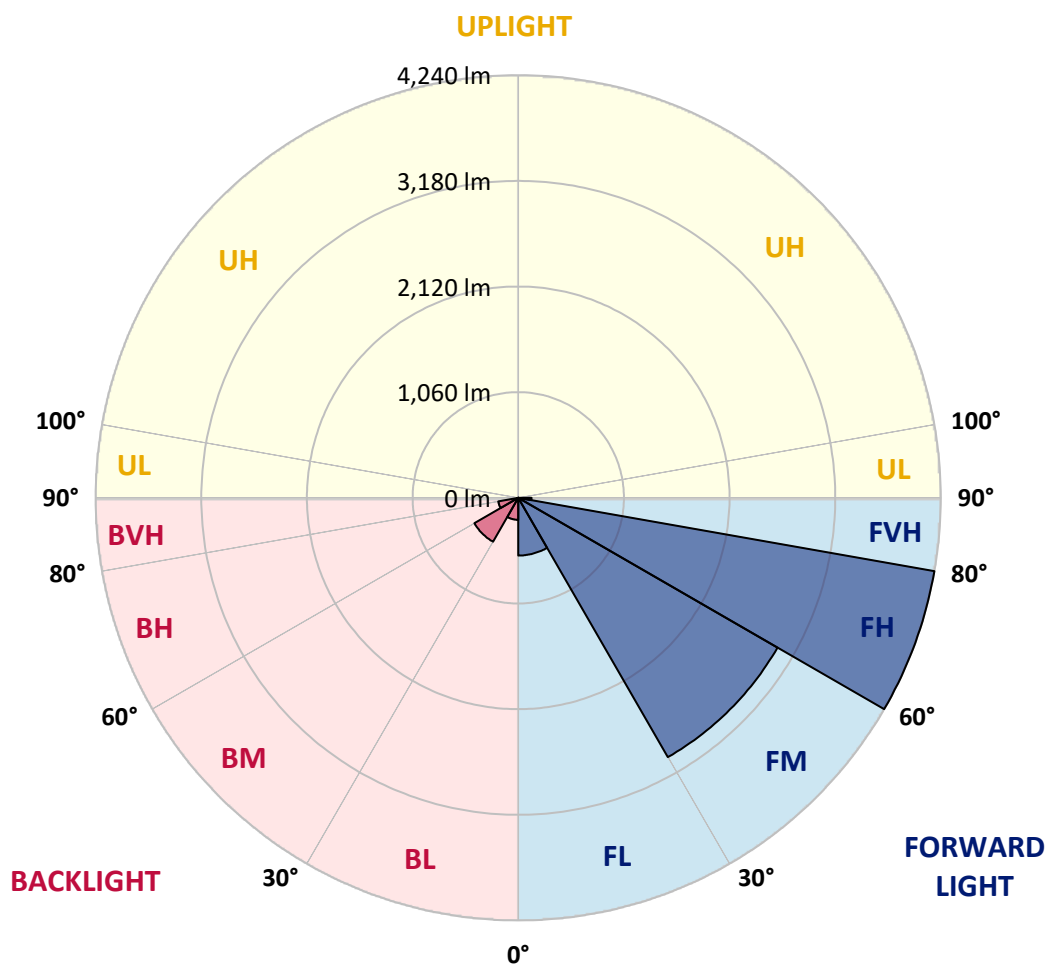
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.2	6.5			
FM	(30°-60°)	3003.8	33.8			
FH	(60°-80°)	4239.8	47.7			G2/5000
FVH	(80°-90°)	133.9	1.5			G2/225
BL	(0°-30°)	221.3	2.5	B1/500		
BM	(30°-60°)	508.1	5.7	B1/1000		
BH	(60°-80°)	203.7	2.3	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1
2.5°	1063.8	1065.7	1064.5	1057.2	1045.0	1038.3	1034.7	1022.5	1014.6	1000.7	986.2
5°	1161.5	1168.8	1164.6	1150.0	1127.0	1110.6	1105.7	1080.9	1058.4	1032.3	1001.9
7.5°	1265.3	1268.9	1261.1	1242.2	1211.3	1183.4	1179.2	1144.5	1108.7	1068.7	1027.5
10°	1355.2	1359.4	1347.3	1319.9	1284.7	1250.1	1244.0	1205.8	1163.4	1114.2	1061.4
12.5°	1430.4	1434.6	1418.8	1386.1	1347.3	1311.4	1305.3	1265.3	1218.6	1164.0	1098.4
15°	1487.4	1495.3	1474.1	1438.9	1397.0	1361.2	1358.1	1318.7	1273.2	1212.5	1142.7
17.5°	1520.8	1528.7	1508.7	1466.2	1430.4	1400.0	1396.4	1363.7	1321.1	1262.9	1185.8
20°	1526.2	1533.5	1512.3	1475.3	1445.6	1421.3	1419.4	1395.7	1364.8	1309.0	1232.6
22.5°	1509.8	1518.9	1499.6	1469.8	1449.1	1436.4	1434.0	1420.6	1403.0	1355.8	1276.2
25°	1492.9	1500.2	1485.6	1459.5	1448.5	1447.4	1449.1	1446.8	1443.1	1403.0	1327.2
27.5°	1491.7	1499.6	1483.2	1458.3	1452.2	1464.9	1466.8	1478.4	1481.3	1446.2	1376.4
30°	1501.9	1507.5	1491.7	1465.5	1462.6	1491.7	1492.3	1512.9	1517.7	1482.6	1425.0
32.5°	1524.5	1530.5	1514.7	1476.5	1472.2	1512.9	1514.7	1542.0	1549.9	1521.4	1475.9
35°	1577.3	1584.5	1566.3	1506.9	1491.7	1532.9	1538.4	1570.5	1586.3	1562.7	1528.7
37.5°	1708.9	1687.7	1662.8	1568.1	1536.0	1564.5	1573.6	1611.2	1639.2	1611.8	1591.8
40°	2036.1	1969.2	1891.5	1672.5	1613.7	1631.8	1639.2	1676.8	1715.0	1688.3	1678.5
42.5°	2526.9	2448.1	2323.1	1912.9	1730.8	1739.8	1745.4	1778.1	1832.1	1810.9	1813.3
45°	2964.5	2936.0	2808.6	2323.1	1949.9	1905.0	1911.6	1928.6	2008.1	2000.2	2016.0
47.5°	3300.7	3284.3	3186.0	2793.9	2320.0	2107.0	2125.8	2133.7	2248.4	2276.3	2318.9
50°	3559.2	3553.2	3465.2	3212.8	2803.7	2405.0	2411.6	2394.7	2566.4	2635.6	2716.4
52.5°	3803.2	3823.9	3758.9	3601.7	3320.2	2795.2	2793.9	2713.9	2945.7	3050.1	3187.9
55°	4023.5	4030.8	4037.5	3998.6	3839.6	3239.4	3227.9	3096.8	3385.7	3493.7	3643.0
57.5°	4230.4	4233.5	4292.9	4372.4	4380.3	3716.4	3695.1	3538.0	3866.3	3943.4	4035.0
60°	4369.4	4383.3	4509.0	4729.9	4826.3	4208.5	4197.1	4036.9	4355.4	4391.2	4374.3
62.5°	4169.1	4254.1	4570.9	5009.1	5247.5	4754.2	4748.7	4598.2	4870.1	4841.0	4695.3
65°	3374.7	3518.6	4075.7	5197.8	5660.8	5363.4	5371.3	5211.1	5398.7	5304.0	4956.2
67.5°	2360.7	2512.4	3171.5	5212.9	6122.6	6079.0	6124.5	5873.1	5960.0	5747.6	5018.1
70°	1632.4	1710.7	2139.8	4886.5	6482.5	7064.5	7063.3	6686.4	6518.3	5949.6	4702.6
72.5°	1097.8	1138.5	1389.7	3876.7	6217.9	7650.1	7614.9	7307.8	6706.4	5564.3	3842.0
75°	463.0	492.8	643.3	2178.6	4919.2	6998.9	6903.7	6458.2	5958.7	4381.6	2397.1
77.5°	146.9	159.6	253.7	779.8	2709.6	5260.9	5160.2	4033.2	3993.7	2198.0	876.3
80°	69.8	81.3	142.6	313.1	1066.2	2861.4	2847.3	1829.7	1718.0	593.5	176.0
82.5°	30.3	35.8	78.9	167.5	477.0	1020.7	1041.4	622.7	515.3	225.2	54.0
85°	9.7	12.7	36.4	77.1	201.5	253.7	250.6	148.1	207.6	122.6	18.9
87.5°	0.0	0.0	12.1	17.6	20.6	14.6	16.4	12.7	57.6	34.0	6.7
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°	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1	974.1
2.5°	978.9	969.1	952.1	936.3	922.4	908.5	900.0	887.9	886.6	886.6	889.7
5°	985.5	969.8	939.4	907.2	870.2	835.1	799.8	765.9	754.9	747.0	750.7
7.5°	1005.0	980.1	932.1	870.8	800.4	723.3	669.3	611.1	588.7	576.6	578.3
10°	1032.9	998.9	926.1	818.7	704.6	599.6	522.5	459.4	435.1	424.8	424.8
12.5°	1063.8	1021.9	915.1	753.7	599.6	474.0	398.7	369.6	365.9	365.9	365.9
15°	1100.8	1049.9	896.4	677.2	489.7	375.0	348.3	349.5	353.2	355.6	355.6
17.5°	1139.1	1079.6	866.6	591.7	392.7	337.4	338.0	339.9	342.9	345.3	345.3
20°	1180.4	1109.4	827.2	500.6	336.8	326.5	328.3	330.2	332.5	333.7	334.4
22.5°	1224.7	1137.2	780.4	411.4	318.0	317.3	318.0	319.8	322.9	322.9	324.1
25°	1272.0	1168.2	727.0	346.6	308.3	308.3	309.5	310.7	313.1	313.1	313.8
27.5°	1320.5	1196.7	670.6	312.5	299.8	299.2	299.2	301.0	302.2	302.8	303.4
30°	1373.9	1230.1	614.2	305.2	293.2	290.1	288.2	289.5	290.7	291.3	292.5
32.5°	1428.5	1262.3	563.8	308.3	286.5	281.0	274.9	273.7	273.7	276.1	278.0
35°	1489.2	1297.4	524.9	318.6	282.8	267.6	257.9	252.5	253.1	256.7	258.5
37.5°	1562.1	1340.0	496.4	327.7	280.3	252.5	236.7	230.0	225.7	230.0	228.8
40°	1657.3	1402.4	475.8	335.0	277.4	234.8	213.6	202.6	194.9	197.2	196.0
42.5°	1797.5	1500.8	467.9	335.6	270.7	214.2	189.9	175.4	163.9	164.4	162.1
45°	1994.1	1656.1	508.5	327.7	256.0	191.8	165.0	145.7	138.4	136.5	134.1
47.5°	2263.6	1882.5	602.6	311.3	234.8	169.9	140.8	124.4	118.9	115.9	114.1
50°	2624.7	2173.2	706.9	293.2	213.6	149.2	120.7	110.5	106.8	103.7	103.2
52.5°	3043.4	2468.1	792.5	274.9	192.4	131.1	108.0	102.0	98.9	96.5	95.8
55°	3427.6	2671.4	787.7	255.5	171.8	116.5	98.9	95.3	91.6	89.2	87.9
57.5°	3666.6	2700.0	649.3	234.2	148.1	105.0	90.4	87.9	83.7	80.7	80.2
60°	3776.5	2537.3	455.1	206.3	124.4	94.1	81.3	80.2	74.6	70.4	69.2
62.5°	3796.5	2235.1	303.4	171.8	103.7	83.7	72.3	70.4	63.1	55.9	52.2
65°	3715.2	1803.0	210.0	134.1	88.6	72.8	61.9	58.2	50.3	43.0	40.7
67.5°	3457.9	1265.9	146.3	96.5	75.2	57.6	49.2	48.0	41.9	35.8	34.0
70°	2986.3	721.6	97.7	72.3	59.4	39.5	38.8	40.1	34.0	29.1	26.8
72.5°	2289.6	330.2	60.7	52.8	40.7	26.8	31.0	31.6	26.1	21.8	19.4
75°	1347.9	141.3	38.2	34.0	20.6	17.6	22.4	23.1	17.6	13.9	12.1
77.5°	458.8	53.4	24.3	20.0	10.4	9.7	14.6	14.6	9.7	5.4	4.2
80°	104.3	20.0	12.1	7.9	4.8	4.2	4.8	4.2	2.5	0.6	0.0
82.5°	29.7	7.9	4.8	3.1	1.8	1.8	0.6	0.0	0.0	0.0	0.0
85°	8.5	3.7	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)