

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: P960374

Luminaire Tested: **NAV-SB1C-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7939.6 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - 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



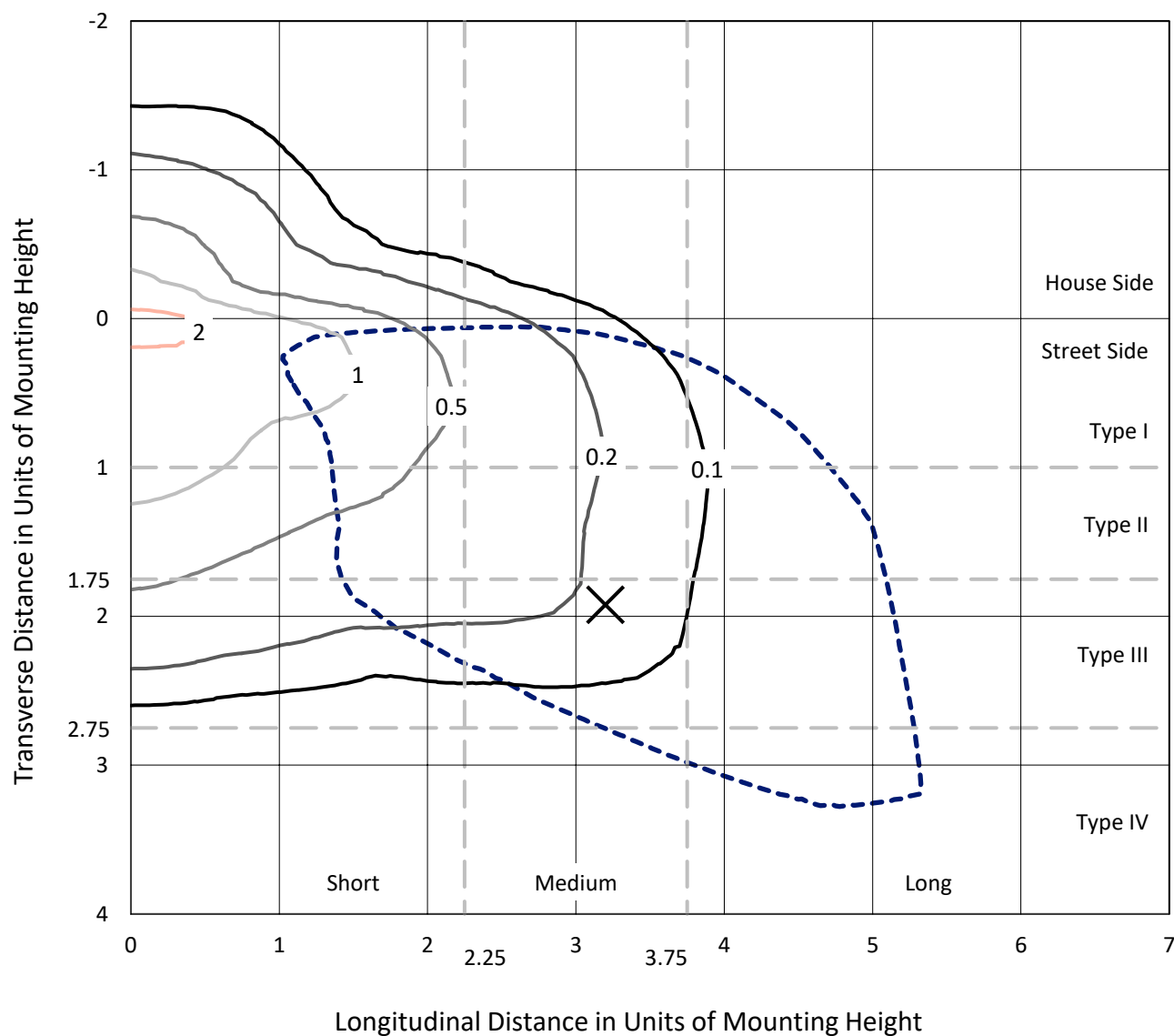
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

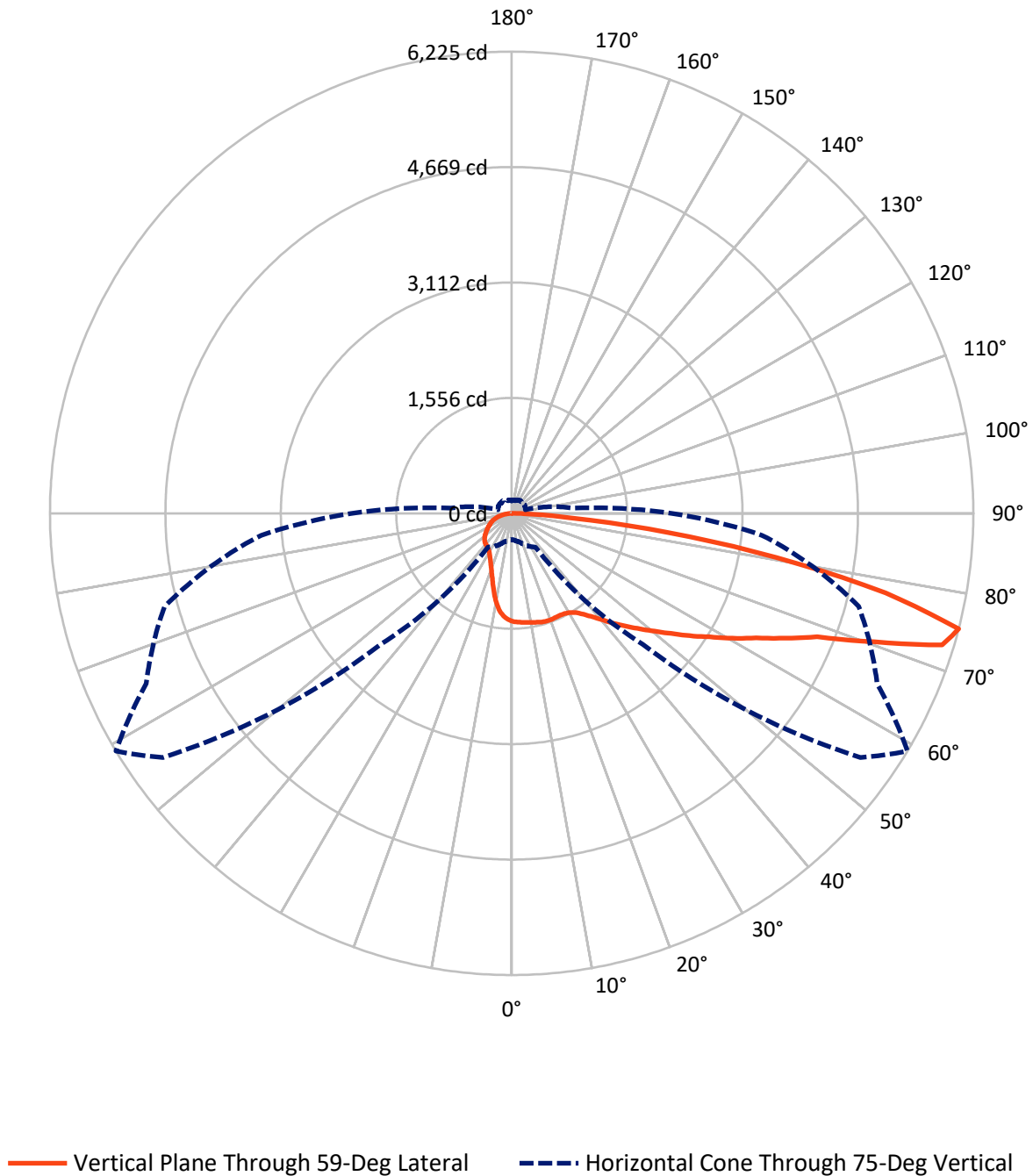
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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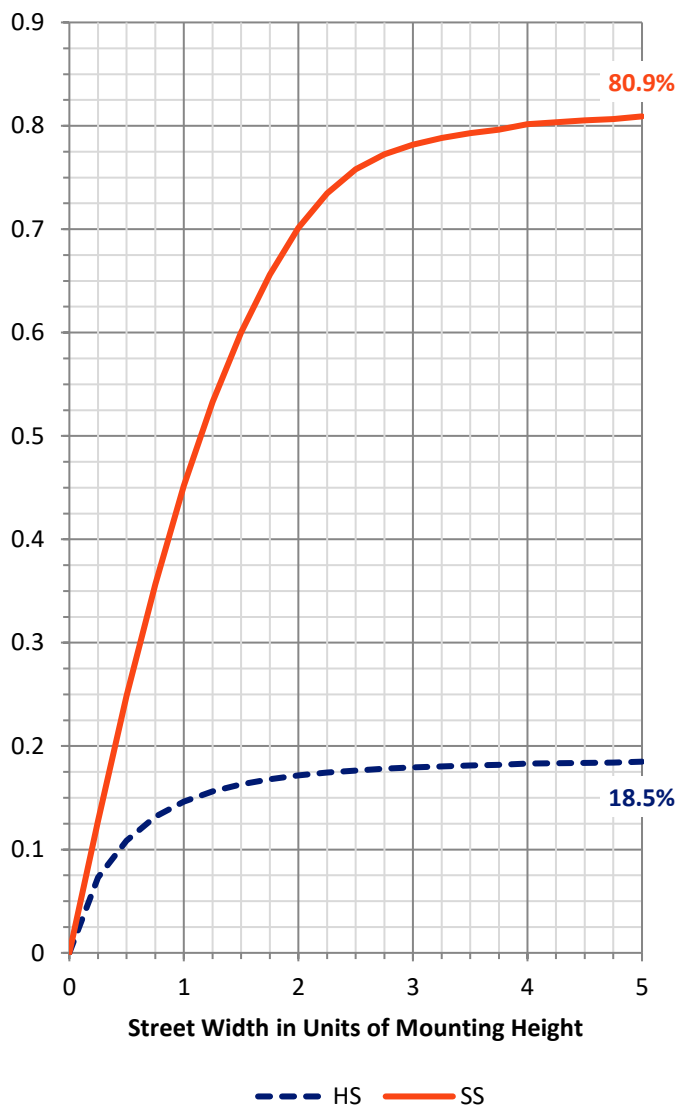
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1489.1	0.0	1489.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6450.5	0.0	6450.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	7939.6	0.0	7939.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.6
10°-20°	334.0	4.2
20°-30°	507.3	6.4
30°-40°	754.1	9.5
40°-50°	1121.5	14.1
50°-60°	1522.3	19.2
60°-70°	1858.5	23.4
70°-80°	1458.5	18.4
80°-90°	252.6	3.2
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°	7939.6	100.0
0°-180°	7939.6	100.0

Coefficient of Utilization



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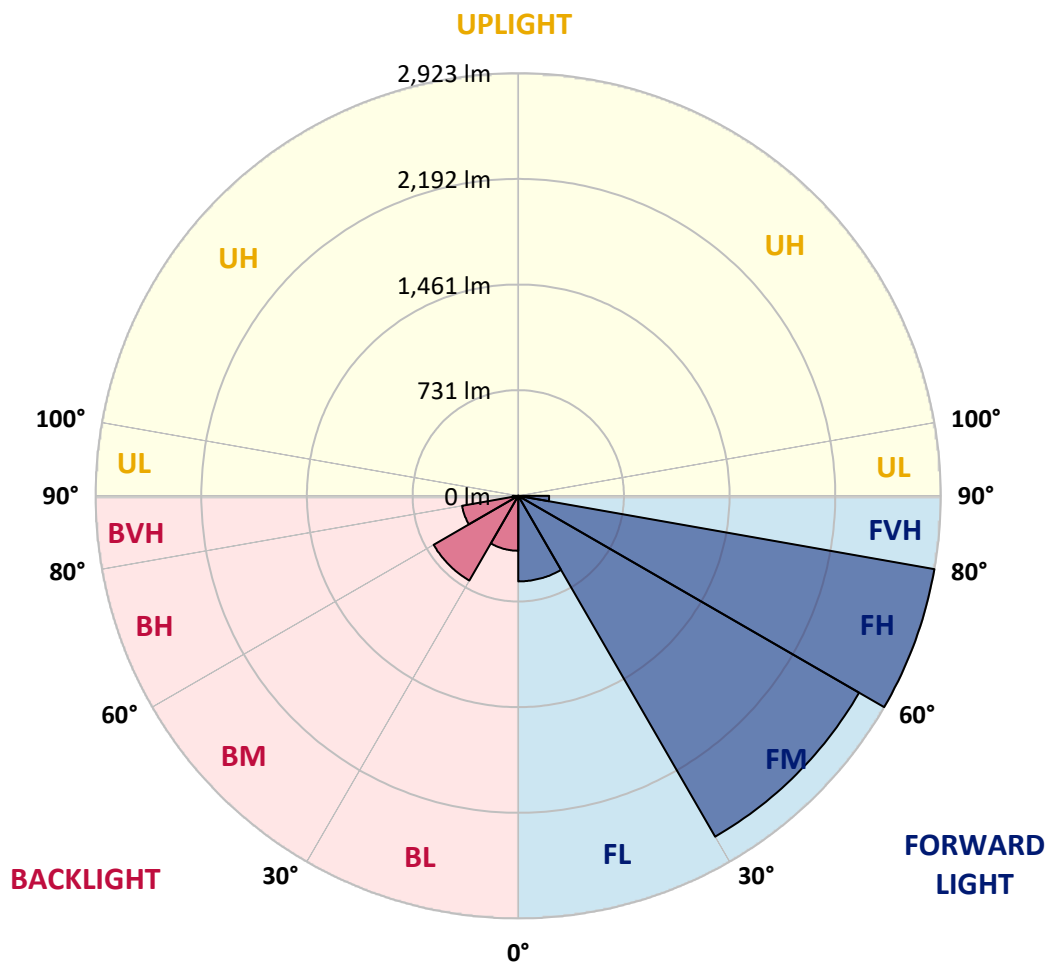
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	592.0	7.5			
FM	(30°-60°)	2722.0	34.3			
FH	(60°-80°)	2922.5	36.8			G2/5000
FVH	(80°-90°)	214.0	2.7			G2/225
BL	(0°-30°)	380.0	4.8	B1/500		
BM	(30°-60°)	675.9	8.5	B1/1000		
BH	(60°-80°)	394.5	5.0	B1/500		G1/500
BVH	(80°-90°)	38.7	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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1469.6	1464.5	1469.6	1467.6	1466.7	1465.0	1465.4	1468.4	1466.7	1468.8	1461.5
5°	1459.9	1456.8	1462.0	1460.7	1466.3	1467.1	1472.7	1476.1	1478.3	1478.7	1473.1
7.5°	1443.6	1440.6	1447.9	1453.9	1465.9	1469.2	1480.8	1486.4	1489.3	1494.4	1486.4
10°	1384.3	1383.0	1401.0	1423.5	1451.7	1469.2	1486.8	1496.2	1500.9	1514.5	1505.1
12.5°	1279.2	1280.9	1304.4	1348.0	1404.4	1460.7	1493.6	1507.3	1514.5	1531.7	1527.4
15°	1178.9	1178.4	1204.1	1250.6	1329.6	1423.1	1497.0	1520.5	1532.9	1558.1	1554.7
17.5°	1120.7	1119.0	1136.9	1172.4	1245.9	1365.5	1488.5	1527.8	1554.3	1585.9	1582.9
20°	1110.1	1106.7	1116.0	1133.5	1185.6	1302.3	1466.3	1527.8	1571.3	1612.3	1610.7
22.5°	1148.9	1143.4	1139.5	1137.4	1160.5	1250.2	1441.0	1522.6	1596.5	1650.4	1647.4
25°	1227.1	1218.5	1198.9	1179.7	1172.8	1226.6	1418.9	1521.4	1634.2	1701.6	1690.5
27.5°	1353.5	1342.9	1303.1	1257.0	1215.5	1238.6	1409.1	1529.1	1675.6	1755.8	1733.7
30°	1510.2	1498.8	1448.7	1377.9	1303.6	1283.0	1421.5	1551.7	1728.6	1828.1	1784.4
32.5°	1650.8	1637.9	1595.3	1523.0	1422.7	1360.0	1460.7	1594.8	1811.8	1928.4	1860.9
35°	1775.5	1760.5	1722.1	1655.5	1568.8	1468.0	1531.7	1671.3	1930.1	2091.6	1964.7
37.5°	1897.7	1880.2	1838.3	1767.8	1707.1	1611.9	1629.4	1769.6	2087.3	2289.7	2102.3
40°	2034.3	2009.1	1958.3	1888.7	1829.7	1780.6	1758.0	1890.0	2247.0	2510.9	2274.0
42.5°	2166.7	2142.9	2082.2	2022.8	1948.9	1934.8	1907.0	2030.9	2421.8	2754.0	2448.2
45°	2309.4	2280.7	2207.3	2132.1	2085.6	2037.3	2051.4	2171.9	2593.0	3001.7	2631.0
47.5°	2443.1	2411.0	2324.4	2240.6	2215.0	2123.6	2183.9	2327.0	2771.1	3252.8	2812.1
50°	2515.2	2483.7	2411.5	2335.9	2315.8	2230.0	2327.4	2497.3	2957.7	3503.1	2985.9
52.5°	2575.5	2541.3	2446.9	2405.1	2399.1	2345.7	2504.2	2692.1	3144.4	3724.4	3153.8
55°	2639.6	2601.6	2481.1	2443.5	2470.9	2475.6	2713.9	2912.9	3341.7	3940.1	3312.3
57.5°	2713.5	2665.2	2514.0	2476.0	2540.9	2627.6	2954.8	3141.8	3535.6	4140.0	3453.2
60°	2783.1	2734.4	2577.2	2527.6	2616.5	2804.0	3231.1	3419.0	3755.2	4318.1	3586.5
62.5°	2796.7	2756.5	2627.6	2627.2	2719.0	3009.8	3558.3	3698.8	3947.0	4494.1	3706.1
65°	2560.1	2534.9	2458.5	2623.3	2865.9	3306.2	3922.6	4056.7	4190.8	4647.9	3811.2
67.5°	1948.5	1951.9	1946.4	2264.5	2747.2	3732.1	4450.0	4439.8	4492.0	4820.4	3932.0
70°	890.9	911.0	1041.7	1563.2	2200.9	3781.2	5322.2	5189.4	4869.9	5043.7	4036.7
72.5°	481.3	496.7	550.1	757.3	1323.2	3361.8	5974.0	6068.4	5372.6	5194.1	3921.8
75°	353.2	361.7	398.9	481.3	555.7	2498.6	5740.4	6224.7	5435.5	4843.4	3386.6
77.5°	264.3	268.2	298.6	381.4	284.4	1317.2	4586.8	5155.2	4653.0	3979.4	2501.6
80°	191.8	196.1	218.6	286.2	199.5	481.7	3149.5	3618.5	3186.7	2536.6	1246.7
82.5°	132.4	134.1	143.9	194.7	139.2	187.1	1787.0	2121.9	1778.9	890.1	336.6
85°	79.8	82.0	86.3	113.6	79.0	88.9	771.3	797.9	531.8	212.7	104.7
87.5°	32.9	35.1	38.4	47.9	31.2	24.8	127.3	159.7	99.5	62.3	32.5
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°	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3	1457.3
2.5°	1459.4	1456.4	1448.3	1437.3	1427.0	1414.2	1408.7	1403.9	1399.6	1391.5	1387.6
5°	1468.4	1460.3	1438.5	1410.3	1378.3	1343.3	1309.1	1285.6	1265.6	1250.6	1238.2
7.5°	1482.0	1466.7	1427.0	1369.3	1295.9	1220.7	1152.8	1104.5	1068.3	1054.9	1031.9
10°	1496.2	1477.8	1408.7	1307.0	1180.1	1064.4	974.3	924.7	895.6	886.2	871.8
12.5°	1512.8	1485.9	1380.0	1220.3	1050.7	923.8	845.2	816.2	801.2	796.1	797.4
15°	1537.2	1492.7	1336.9	1111.8	927.2	821.3	770.5	750.4	742.7	742.3	744.0
17.5°	1555.5	1494.0	1269.8	995.6	832.4	759.4	717.5	709.8	714.9	722.6	725.7
20°	1576.0	1482.5	1181.8	889.7	765.8	705.2	687.7	692.8	705.2	716.3	720.1
22.5°	1590.6	1461.5	1075.4	807.3	708.2	673.9	673.1	683.8	690.6	696.2	699.2
25°	1603.4	1426.1	962.7	738.0	660.7	655.2	664.6	661.1	656.5	661.1	664.2
27.5°	1612.7	1370.2	861.9	677.4	627.4	642.4	636.8	629.1	628.7	631.3	635.5
30°	1609.8	1295.4	779.1	619.7	603.9	618.5	605.3	603.9	602.7	603.9	608.6
32.5°	1609.8	1210.4	715.4	580.0	589.0	583.4	582.2	579.1	574.0	573.6	579.1
35°	1618.8	1125.4	660.7	558.6	576.6	563.3	564.3	557.0	546.3	541.2	546.3
37.5°	1637.1	1057.1	606.5	548.4	554.8	554.4	550.9	538.6	519.8	503.6	509.1
40°	1681.5	1037.0	569.4	543.8	544.6	549.7	540.7	516.8	474.1	447.6	451.0
42.5°	1751.1	1070.8	561.2	532.2	537.7	542.8	525.3	469.9	439.5	423.7	423.7
45°	1839.6	1129.8	578.7	515.6	521.5	530.4	478.4	451.9	438.2	438.6	440.7
47.5°	1951.5	1191.7	611.2	501.0	498.0	503.2	447.2	430.9	412.2	416.9	428.9
50°	2080.9	1254.4	642.0	481.3	471.9	455.3	427.1	411.7	387.9	376.7	379.7
52.5°	2221.0	1315.1	654.4	457.5	443.7	424.6	413.5	394.6	365.6	347.3	346.9
55°	2353.8	1370.2	640.6	428.9	415.5	400.7	398.9	387.3	356.2	330.6	330.6
57.5°	2479.4	1416.3	606.5	399.7	386.9	378.0	389.5	384.0	344.7	311.8	310.1
60°	2585.8	1447.9	557.0	370.3	361.3	356.6	374.1	372.5	328.4	291.7	290.5
62.5°	2670.3	1460.3	502.2	342.1	340.0	331.5	352.8	352.8	307.9	272.0	270.8
65°	2736.5	1448.3	446.8	314.4	318.7	305.9	326.8	324.2	286.2	254.5	252.9
67.5°	2795.0	1409.1	385.3	287.0	296.8	280.6	299.4	293.5	262.3	237.1	235.3
70°	2821.1	1317.6	315.2	259.7	271.6	255.8	272.0	261.0	235.3	218.2	214.8
72.5°	2611.8	1095.1	248.2	231.0	241.3	228.5	242.6	229.8	206.3	198.6	192.2
75°	2160.8	821.7	191.0	199.9	207.6	197.7	207.2	197.7	176.4	181.9	166.2
77.5°	1569.2	554.8	146.1	167.0	170.5	165.3	173.4	162.8	143.5	142.3	135.8
80°	780.3	325.0	114.5	132.0	130.7	127.3	136.6	131.5	115.3	122.2	120.8
82.5°	225.9	139.2	83.3	92.7	90.1	91.0	97.8	100.3	150.4	149.0	152.5
85°	70.9	54.6	50.0	51.7	49.1	50.4	57.7	114.5	105.9	61.9	67.0
87.5°	18.3	18.8	12.4	13.2	13.6	16.2	18.3	69.6	33.3	21.8	23.1
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)