

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: P960497

Luminaire Tested: **NAV-SB1C-830-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-830-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5556.5 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - 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

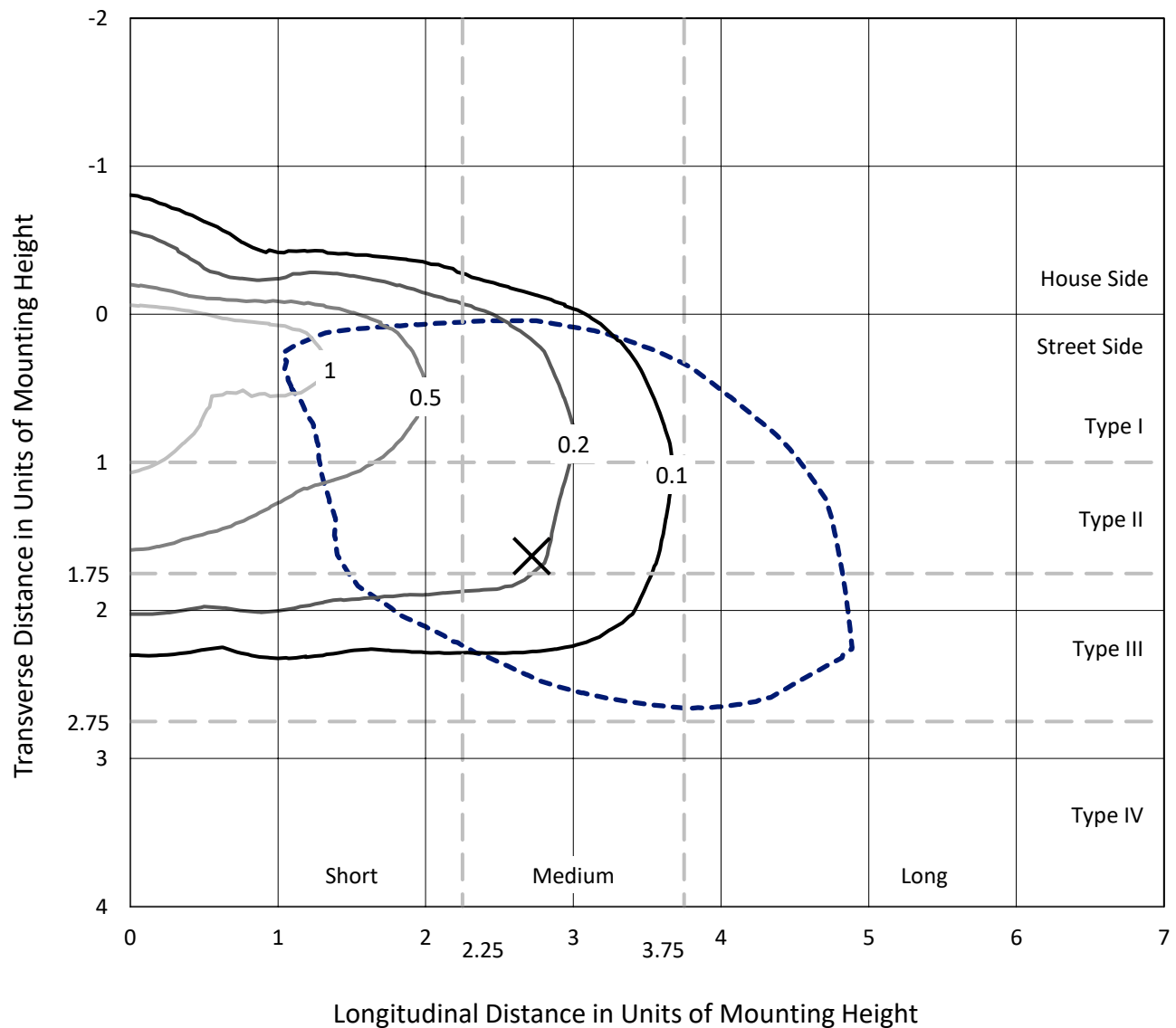


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Iso-Footcandle Lines of Horizontal Illumination

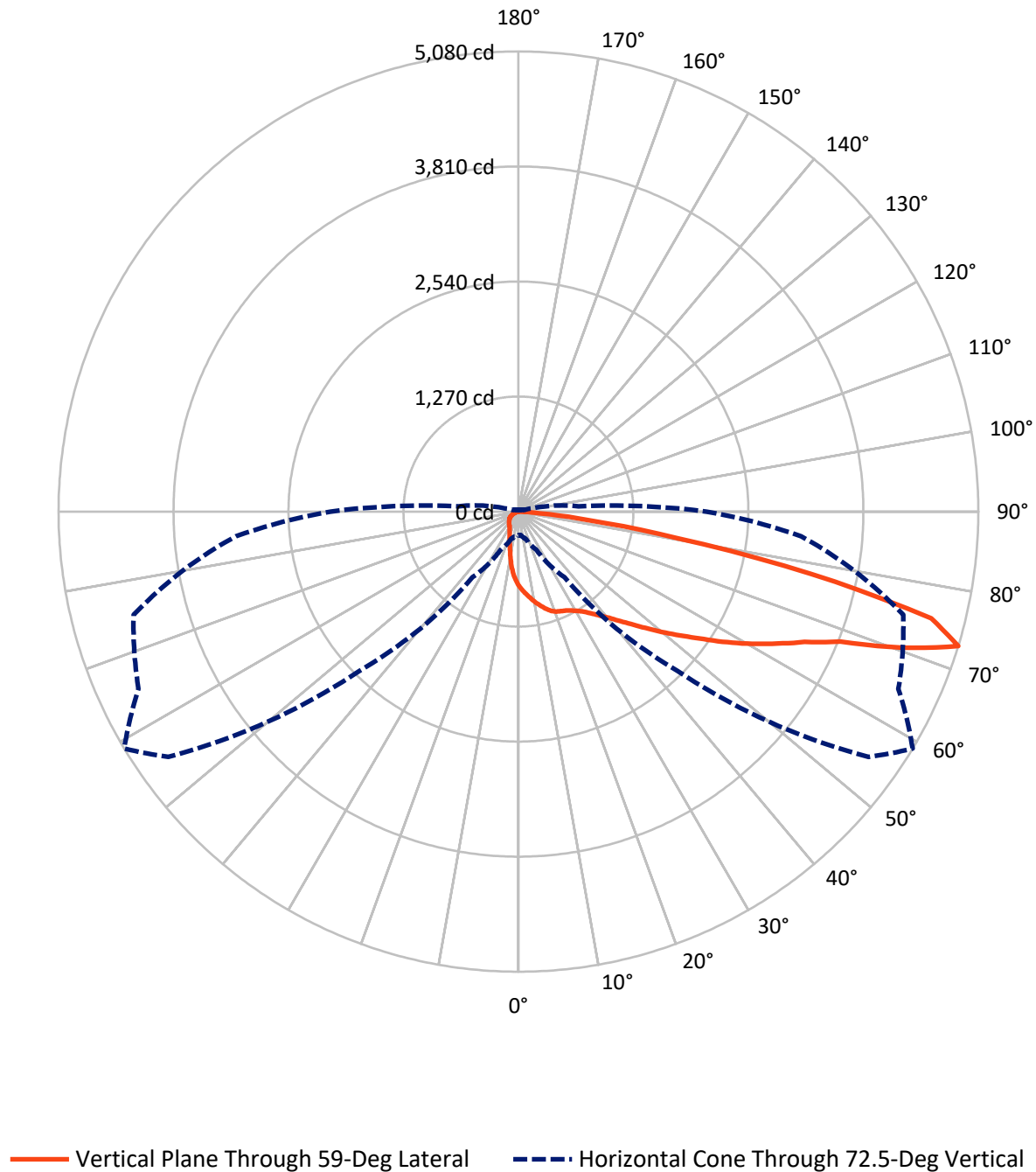
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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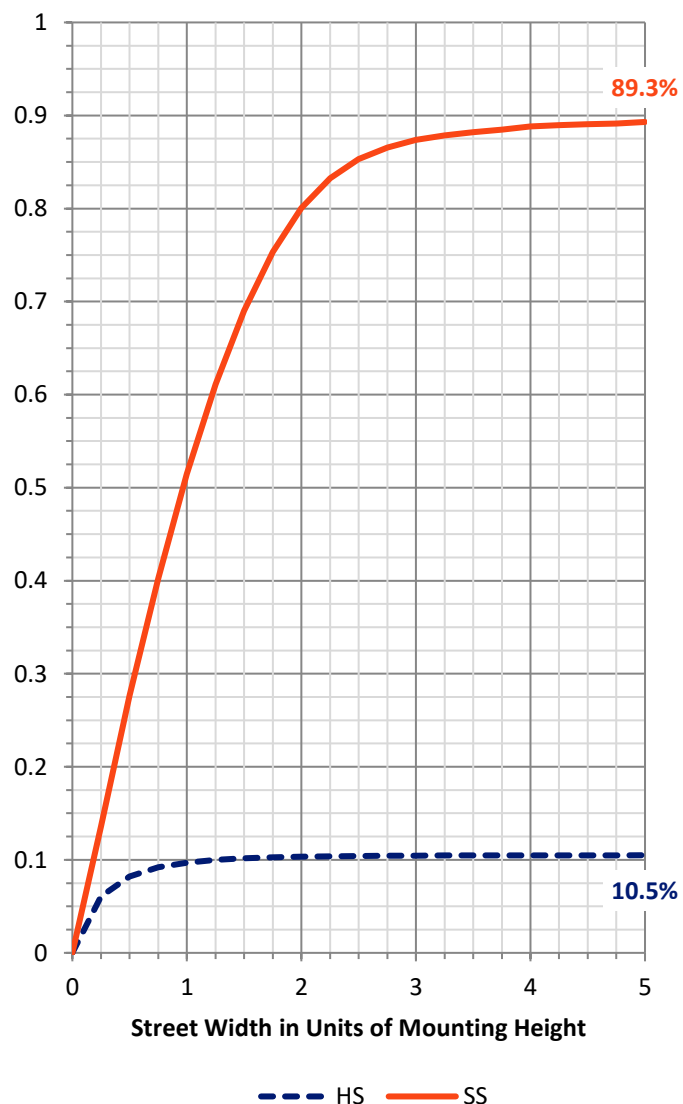
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	586.9	0.0	586.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4969.6	0.0	4969.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	5556.5	0.0	5556.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	1.3
10°-20°	197.5	3.6
20°-30°	312.9	5.6
30°-40°	502.2	9.0
40°-50°	802.1	14.4
50°-60°	1161.4	20.9
60°-70°	1378.3	24.8
70°-80°	1023.2	18.4
80°-90°	104.6	1.9
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°	5556.5	100.0
0°-180°	5556.5	100.0

Coefficient of Utilization



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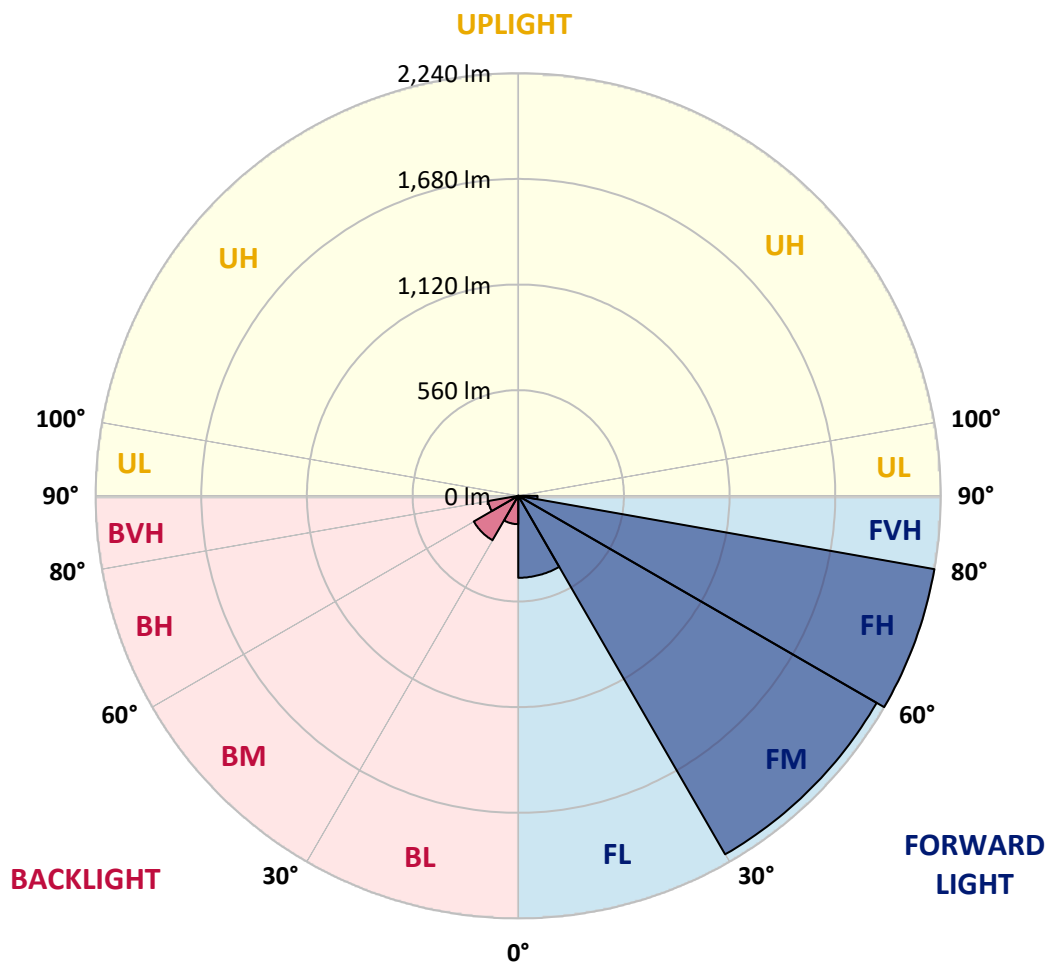
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.4	7.8			
FM	(30°-60°)	2193.6	39.5			
FH	(60°-80°)	2239.6	40.3			G2/5000
FVH	(80°-90°)	102.0	1.8			G2/225
BL	(0°-30°)	150.3	2.7	B1/500		
BM	(30°-60°)	272.1	4.9	B1/1000		
BH	(60°-80°)	161.8	2.9	B1/500		G1/500
BVH	(80°-90°)	2.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6
2.5°	911.6	906.6	907.3	898.6	892.5	885.9	873.2	871.4	862.3	846.3	830.0
5°	991.1	987.8	984.9	975.1	962.5	946.5	925.1	917.5	900.8	873.2	841.2
7.5°	1049.1	1045.2	1046.6	1036.8	1026.6	1008.9	979.5	965.3	943.2	901.1	852.9
10°	1060.4	1058.2	1067.6	1071.2	1071.2	1060.1	1031.4	1017.2	984.9	931.2	864.9
12.5°	997.2	997.6	1021.2	1049.5	1086.5	1097.1	1077.8	1062.5	1030.6	963.2	880.1
15°	923.6	923.9	946.8	983.1	1043.7	1104.2	1119.5	1109.8	1076.7	997.6	897.9
17.5°	879.3	877.5	892.8	922.5	986.0	1071.2	1144.9	1151.5	1124.6	1035.8	917.5
20°	873.2	869.9	877.9	892.8	938.1	1029.9	1147.8	1178.6	1173.9	1078.9	939.9
22.5°	910.9	905.8	901.5	902.2	921.5	995.5	1140.5	1193.9	1224.7	1130.8	970.8
25°	985.6	977.6	963.5	945.4	941.4	988.2	1135.5	1210.5	1271.9	1197.1	1011.4
27.5°	1077.1	1065.8	1038.6	1011.4	988.2	1008.5	1145.9	1237.1	1325.2	1274.4	1058.5
30°	1177.5	1163.8	1136.5	1085.1	1048.1	1053.8	1171.1	1271.9	1393.4	1361.8	1117.7
32.5°	1325.2	1293.2	1245.8	1167.1	1118.1	1102.8	1208.8	1316.1	1477.9	1478.3	1203.4
35°	1451.8	1434.1	1386.1	1288.2	1187.7	1167.8	1258.5	1378.5	1595.1	1632.5	1323.1
37.5°	1534.9	1510.5	1468.5	1394.8	1295.8	1234.5	1324.8	1455.1	1719.1	1808.1	1470.7
40°	1627.8	1603.8	1548.0	1478.7	1421.4	1349.1	1408.7	1543.2	1855.2	1988.4	1639.4
42.5°	1739.8	1708.7	1642.7	1567.9	1508.1	1500.1	1518.2	1653.1	1994.9	2184.3	1815.0
45°	1871.5	1842.1	1766.4	1672.0	1619.4	1605.3	1656.1	1781.2	2150.6	2399.0	1992.3
47.5°	1994.9	1960.8	1879.1	1793.1	1734.8	1690.1	1802.6	1932.5	2326.9	2623.6	2160.0
50°	2099.7	2064.9	1990.1	1898.4	1858.8	1800.4	1946.7	2101.1	2501.7	2851.8	2313.0
52.5°	2171.6	2140.7	2053.0	1990.5	1963.7	1934.3	2115.3	2280.0	2675.8	3060.8	2464.3
55°	2155.3	2127.7	2050.4	2046.0	2044.3	2075.0	2317.0	2482.9	2853.2	3258.4	2614.9
57.5°	2103.3	2072.1	1975.7	2042.0	2106.3	2200.6	2535.4	2722.6	3047.6	3444.9	2760.0
60°	1950.6	1939.7	1881.0	2034.4	2132.4	2323.6	2785.0	2963.5	3258.1	3608.8	2888.8
62.5°	1627.4	1636.8	1636.4	2050.4	2179.6	2463.6	3011.8	3207.2	3463.8	3766.7	3003.4
65°	1218.5	1251.2	1292.9	1906.7	2242.7	2713.5	3282.8	3471.7	3672.7	3950.2	3119.8
67.5°	818.8	844.9	873.2	1564.3	2054.7	2976.2	3732.9	3834.1	3923.0	4153.7	3250.8
70°	468.7	477.0	516.6	976.9	1583.8	2903.6	4466.1	4502.7	4296.3	4404.4	3346.2
72.5°	262.6	259.7	312.0	463.6	885.2	2486.4	4722.9	5080.2	4630.4	4400.4	3133.2
75°	175.6	176.0	214.7	292.4	345.0	1740.6	4070.0	4710.6	4430.2	3902.0	2560.0
77.5°	119.7	123.7	157.8	226.0	159.6	849.2	2692.5	3299.8	3586.7	3013.2	1767.4
80°	51.9	52.3	104.1	162.2	107.7	270.3	1395.9	1767.8	2249.6	1692.0	700.2
82.5°	26.9	30.4	66.4	104.9	67.9	94.7	659.5	772.3	943.9	496.6	143.7
85°	9.4	11.3	41.0	51.6	34.1	33.7	229.6	234.0	199.9	74.7	39.6
87.5°	0.0	1.8	16.0	12.7	4.3	4.0	27.2	22.9	18.1	10.6	13.0
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°	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6	821.6
2.5°	822.4	812.6	796.6	777.1	754.2	741.9	724.1	713.2	703.5	703.8	711.8
5°	823.5	807.2	766.5	723.3	675.5	640.3	601.2	573.6	552.5	547.5	555.0
7.5°	826.8	799.2	732.8	660.9	581.2	522.0	468.0	433.9	414.6	409.6	414.6
10°	831.1	790.5	694.7	584.8	485.7	414.6	369.6	347.9	339.2	332.6	336.6
12.5°	834.8	781.5	646.8	506.0	400.9	345.3	311.3	293.2	285.5	280.7	283.3
15°	840.9	769.5	594.9	432.8	343.6	298.2	265.9	252.5	250.3	251.0	252.2
17.5°	847.1	757.8	536.9	375.5	301.5	256.9	237.3	235.0	238.0	240.9	242.0
20°	853.9	741.2	478.2	332.3	262.6	228.2	223.1	224.6	226.0	231.0	232.6
22.5°	864.1	720.1	426.6	295.6	230.3	214.4	211.9	213.0	214.0	219.1	220.6
25°	878.6	697.6	384.9	261.9	210.0	203.2	200.6	200.6	202.0	206.7	208.6
27.5°	893.9	665.6	351.2	230.7	198.0	190.9	186.4	186.4	188.3	193.7	195.9
30°	910.9	636.6	324.7	207.5	187.9	178.5	172.7	171.3	173.4	180.3	182.1
32.5°	941.8	617.8	305.9	196.6	178.9	167.3	159.3	155.3	157.4	165.4	167.6
35°	988.5	613.5	292.7	191.2	170.1	157.0	145.9	139.7	141.4	149.9	152.3
37.5°	1043.3	622.5	280.0	183.9	161.7	147.3	132.4	124.4	127.3	135.0	137.1
40°	1122.1	660.2	270.3	178.5	153.4	135.7	119.0	111.0	115.7	122.3	123.3
42.5°	1217.1	727.3	267.7	173.4	143.3	123.3	106.7	100.9	104.4	110.6	111.7
45°	1335.0	812.9	279.3	166.9	132.0	111.4	96.9	93.6	94.7	100.9	103.7
47.5°	1461.6	900.8	311.3	161.0	122.3	101.6	89.3	86.3	85.6	91.4	95.0
50°	1589.7	978.8	349.0	156.7	115.3	93.6	83.4	79.8	78.0	81.6	83.0
52.5°	1716.3	1040.8	373.6	149.4	108.4	85.6	78.3	72.9	69.7	71.4	72.9
55°	1844.7	1095.2	375.2	138.6	102.0	80.6	73.3	67.1	63.1	63.1	63.9
57.5°	1964.7	1143.1	353.7	124.0	92.9	75.8	66.4	61.3	57.0	55.6	55.9
60°	2071.0	1178.6	318.2	107.7	84.9	69.7	59.4	55.6	50.0	47.2	46.4
62.5°	2165.7	1196.1	269.6	91.0	75.1	62.4	53.0	48.6	41.3	37.7	37.4
65°	2245.9	1178.2	218.7	75.4	66.7	54.4	45.3	41.0	33.0	28.7	28.7
67.5°	2325.3	1097.1	165.4	63.4	58.0	45.7	37.4	33.4	27.6	24.0	24.0
70°	2335.6	926.2	115.7	53.3	48.3	35.2	30.1	27.6	22.4	19.3	18.9
72.5°	2079.0	666.5	70.4	43.6	37.7	25.0	24.0	21.7	16.7	14.6	14.1
75°	1661.8	408.5	41.3	32.7	25.0	17.7	17.7	15.6	11.3	9.4	9.4
77.5°	1148.5	213.7	24.3	21.0	14.9	10.6	11.6	9.4	5.4	4.3	4.3
80°	460.0	81.3	13.0	9.8	6.9	4.7	4.0	2.2	1.1	0.7	1.1
82.5°	91.7	21.4	4.3	2.6	2.6	1.1	0.0	0.0	0.0	0.0	0.0
85°	23.6	4.7	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	0.0	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)