

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: P960528

Luminaire Tested: **NAV-SB1C-835-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960528
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-835-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 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: 5735.9 lumens
Efficiency: N/A
Efficacy: 105.4 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

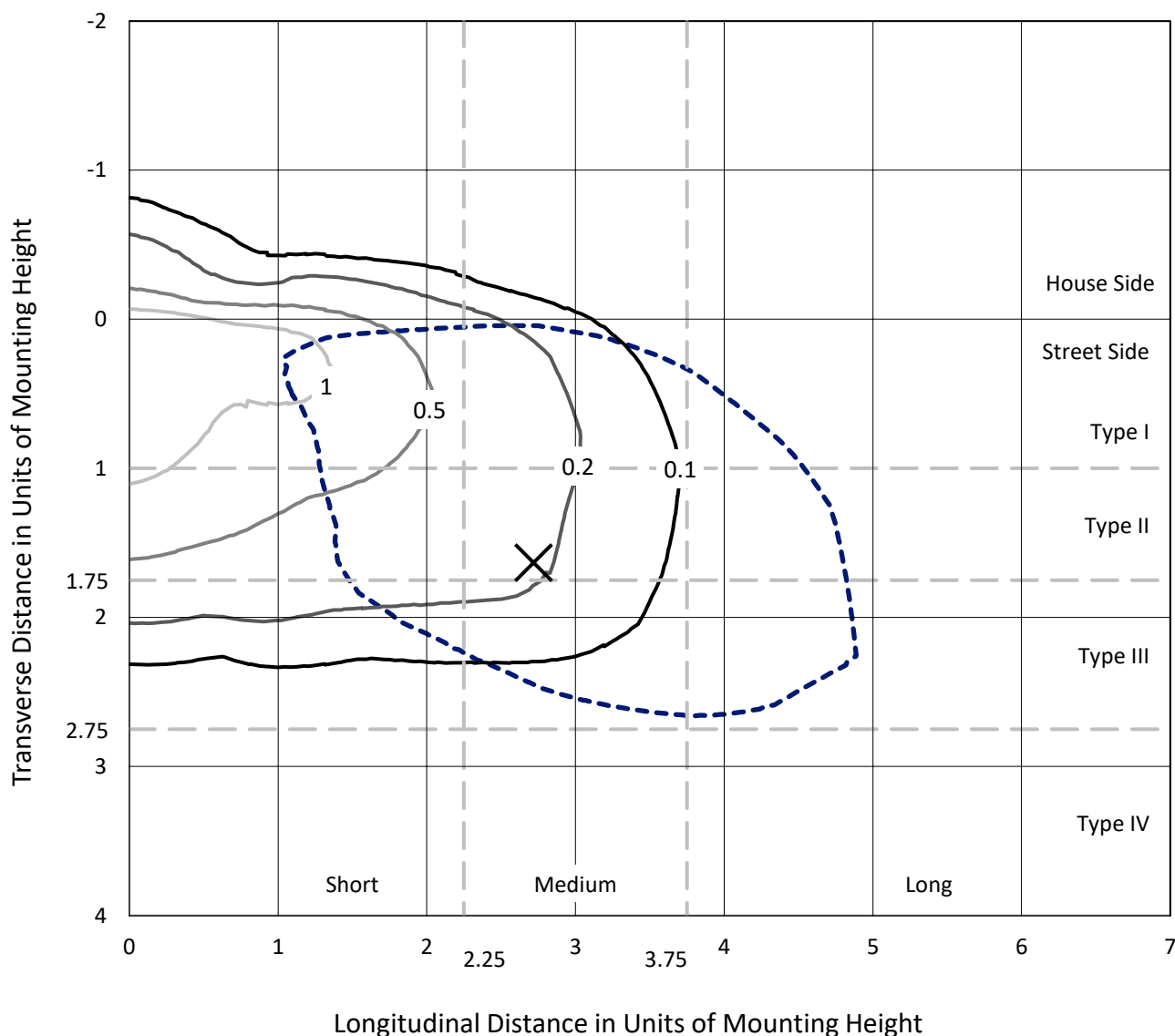
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

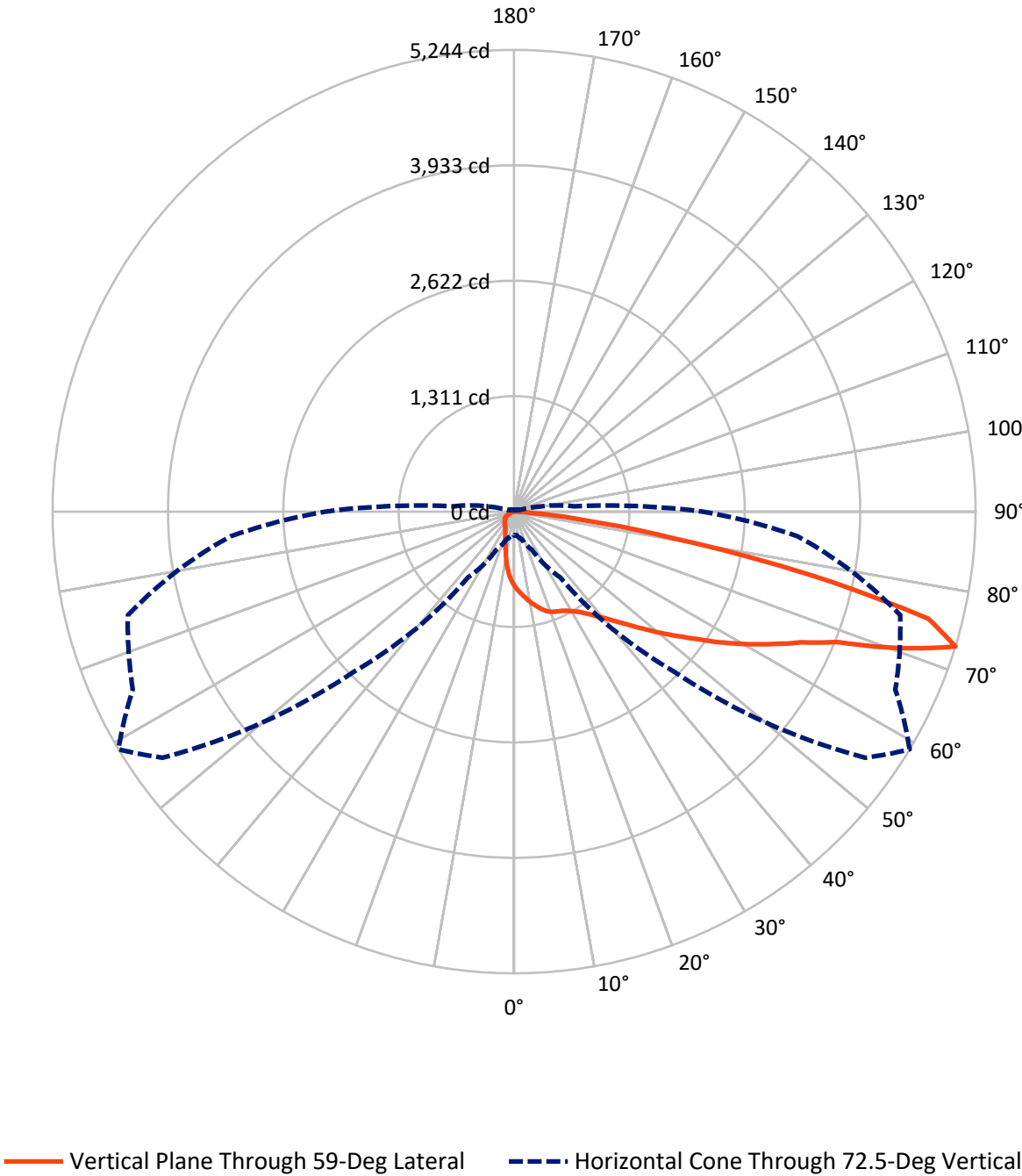
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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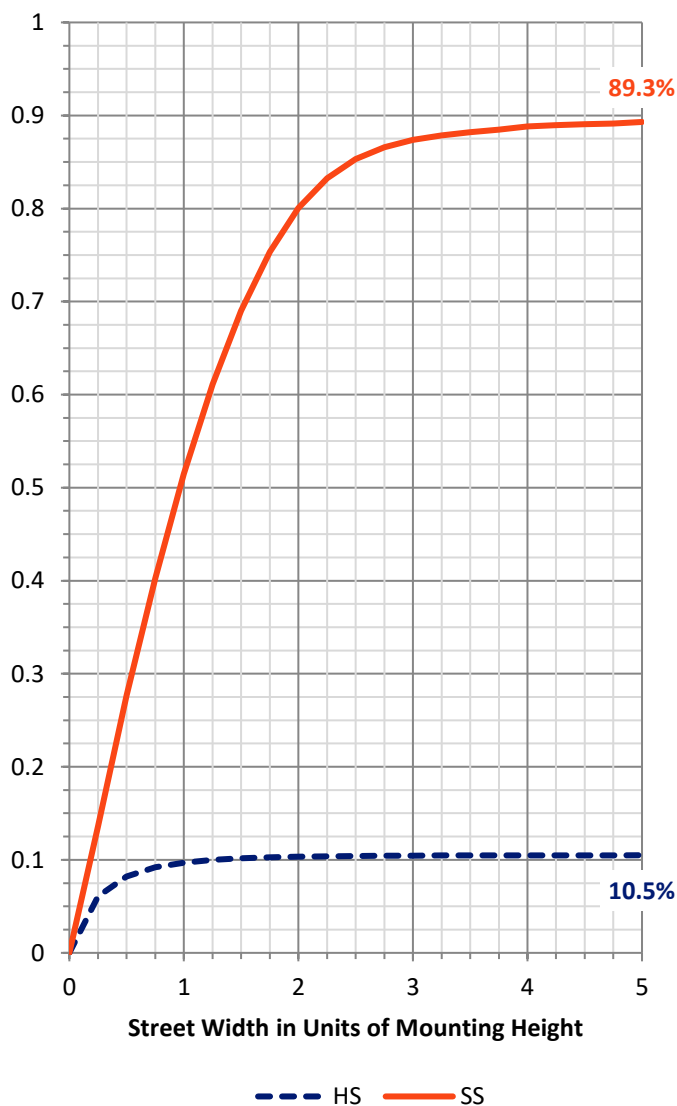
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	605.8	0.0	605.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5130.1	0.0	5130.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	5735.9	0.0	5735.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.3
10°-20°	203.8	3.6
20°-30°	323.0	5.6
30°-40°	518.4	9.0
40°-50°	828.0	14.4
50°-60°	1198.9	20.9
60°-70°	1422.8	24.8
70°-80°	1056.2	18.4
80°-90°	108.0	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°	5735.9	100.0
0°-180°	5735.9	100.0

Coefficient of Utilization



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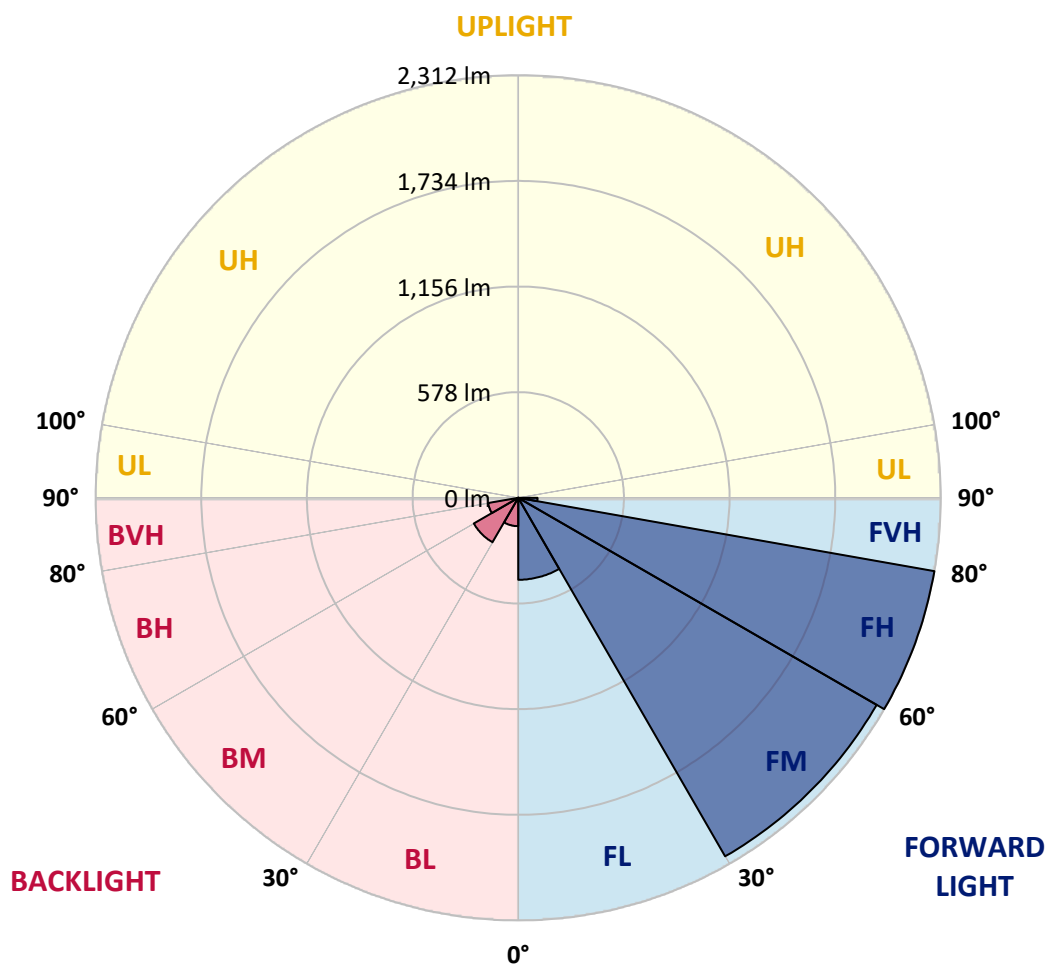
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.4	7.8			
FM	(30°-60°)	2264.4	39.5			
FH	(60°-80°)	2311.9	40.3			G2/5000
FVH	(80°-90°)	105.3	1.8			G2/225
BL	(0°-30°)	155.2	2.7	B1/500		
BM	(30°-60°)	280.9	4.9	B1/1000		
BH	(60°-80°)	167.1	2.9	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2
2.5°	941.1	935.8	936.5	927.6	921.3	914.5	901.4	899.5	890.1	873.7	856.8
5°	1023.1	1019.7	1016.7	1006.7	993.5	977.0	954.9	947.1	929.9	901.4	868.4
7.5°	1083.0	1078.9	1080.4	1070.3	1059.7	1041.4	1011.1	996.5	973.6	930.2	880.4
10°	1094.6	1092.3	1102.1	1105.9	1105.9	1094.2	1064.7	1050.0	1016.7	961.3	892.8
12.5°	1029.4	1029.8	1054.2	1083.4	1121.6	1132.4	1112.6	1096.9	1063.9	994.2	908.5
15°	953.5	953.8	977.4	1014.9	1077.4	1139.9	1155.7	1145.5	1111.5	1029.8	926.8
17.5°	907.7	905.9	921.6	952.3	1017.8	1105.9	1181.8	1188.6	1160.9	1069.2	947.1
20°	901.4	898.0	906.2	921.6	968.4	1063.1	1184.9	1216.7	1211.9	1113.7	970.3
22.5°	940.3	935.1	930.6	931.3	951.2	1027.6	1177.4	1232.5	1264.2	1167.3	1002.1
25°	1017.5	1009.2	994.7	975.9	971.8	1020.1	1172.1	1249.7	1312.9	1235.8	1044.1
27.5°	1111.8	1100.2	1072.1	1044.1	1020.1	1041.1	1183.0	1276.9	1368.0	1315.6	1092.8
30°	1215.5	1201.3	1173.2	1120.1	1081.9	1087.8	1208.8	1312.9	1438.4	1405.8	1153.7
32.5°	1368.0	1335.1	1286.0	1204.7	1154.1	1138.5	1247.7	1358.6	1525.6	1526.0	1242.2
35°	1498.7	1480.3	1430.9	1329.8	1226.1	1205.5	1299.1	1423.0	1646.6	1685.2	1365.7
37.5°	1584.4	1559.3	1515.9	1439.9	1337.6	1274.4	1367.7	1502.0	1774.7	1866.4	1518.1
40°	1680.3	1655.6	1597.9	1526.4	1467.2	1392.7	1454.1	1593.1	1915.1	2052.6	1692.3
42.5°	1796.0	1763.8	1695.7	1618.5	1556.8	1548.5	1567.2	1706.5	2059.3	2254.8	1873.5
45°	1931.9	1901.6	1823.4	1726.0	1671.7	1657.1	1709.5	1838.7	2219.9	2476.5	2056.7
47.5°	2059.3	2024.1	1939.8	1851.0	1790.8	1744.8	1860.8	1994.9	2401.9	2708.3	2229.7
50°	2167.5	2131.6	2054.4	1959.7	1918.8	1858.5	2009.5	2169.0	2582.4	2943.8	2387.7
52.5°	2241.7	2209.8	2119.2	2054.8	2027.0	1996.7	2183.6	2353.6	2762.2	3159.5	2543.8
55°	2224.8	2196.4	2116.6	2112.1	2110.2	2142.0	2391.8	2562.9	2945.3	3363.6	2699.2
57.5°	2171.3	2139.1	2039.4	2107.9	2174.2	2271.6	2617.2	2810.4	3146.0	3556.1	2849.1
60°	2013.6	2002.3	1941.7	2100.1	2201.2	2398.6	2874.9	3059.1	3363.2	3725.4	2982.0
62.5°	1680.0	1689.7	1689.3	2116.6	2249.9	2543.1	3108.9	3310.7	3575.6	3888.2	3100.3
65°	1257.9	1291.6	1334.7	1968.3	2315.1	2801.1	3388.6	3583.8	3791.3	4077.8	3220.5
67.5°	845.2	872.2	901.4	1614.8	2121.0	3072.2	3853.4	3957.9	4049.7	4287.8	3355.7
70°	483.8	492.4	533.3	1008.5	1635.0	2997.4	4610.2	4648.1	4435.0	4546.6	3454.2
72.5°	271.1	268.1	322.1	478.6	913.8	2566.7	4875.4	5244.2	4779.9	4542.5	3234.4
75°	181.2	181.6	221.7	301.9	356.1	1796.7	4201.3	4862.7	4573.1	4027.9	2642.8
77.5°	123.6	127.7	162.9	233.3	164.8	876.7	2779.4	3406.3	3702.5	3110.5	1824.5
80°	53.5	53.9	107.5	167.4	111.2	279.0	1441.0	1824.8	2322.1	1746.6	722.7
82.5°	27.7	31.5	68.6	108.2	70.0	97.8	680.8	797.2	974.4	512.7	148.3
85°	9.7	11.6	42.3	53.2	35.2	34.8	237.1	241.5	206.3	77.2	40.8
87.5°	0.0	1.8	16.5	13.1	4.5	4.1	28.1	23.6	18.8	10.9	13.5
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°	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2	848.2
2.5°	848.9	838.9	822.4	802.2	778.6	765.8	747.4	736.3	726.1	726.5	734.7
5°	850.0	833.2	791.3	746.7	697.3	660.9	620.5	592.0	570.3	565.1	573.0
7.5°	853.4	825.0	756.4	682.3	599.9	538.8	483.1	447.9	428.0	422.8	428.0
10°	857.9	816.0	717.1	603.6	501.4	428.0	381.6	359.2	350.1	343.4	347.5
12.5°	861.7	806.7	667.7	522.4	413.8	356.5	321.3	302.6	294.7	289.9	292.4
15°	868.1	794.3	614.2	446.8	354.6	307.8	274.5	260.7	258.4	259.1	260.2
17.5°	874.4	782.3	554.2	387.6	311.2	265.2	244.9	242.6	245.7	248.7	249.8
20°	881.5	765.1	493.5	343.1	271.1	235.5	230.3	231.9	233.3	238.5	240.1
22.5°	892.1	743.3	440.4	305.2	237.8	221.3	218.7	219.9	221.0	226.2	227.7
25°	907.0	720.2	397.3	270.4	216.8	209.7	207.0	207.0	208.6	213.4	215.4
27.5°	922.7	687.2	362.5	238.2	204.5	197.0	192.5	192.5	194.3	200.0	202.2
30°	940.3	657.2	335.2	214.2	194.0	184.3	178.2	176.7	179.0	186.1	188.0
32.5°	972.1	637.8	315.7	203.0	184.6	172.6	164.4	160.3	162.6	170.8	173.0
35°	1020.5	633.2	302.2	197.3	175.6	162.2	150.6	144.2	146.1	154.7	157.2
37.5°	1077.0	642.6	289.0	189.8	167.0	152.0	136.7	128.4	131.4	139.3	141.6
40°	1158.2	681.5	279.0	184.3	158.4	140.0	122.8	114.6	119.4	126.2	127.3
42.5°	1256.3	750.8	276.3	179.0	147.9	127.3	110.1	104.1	107.8	114.2	115.3
45°	1378.1	839.2	288.3	172.3	136.3	115.0	99.9	96.7	97.8	104.1	107.1
47.5°	1508.8	929.9	321.3	166.3	126.2	104.9	92.1	89.2	88.4	94.4	98.1
50°	1641.0	1010.3	360.3	161.7	119.1	96.7	86.1	82.4	80.5	84.3	85.8
52.5°	1771.7	1074.4	385.7	154.3	111.9	88.4	80.9	75.2	71.9	73.8	75.2
55°	1904.2	1130.6	387.2	143.1	105.3	83.1	75.6	69.3	65.2	65.2	65.9
57.5°	2028.2	1180.0	365.1	128.0	95.8	78.3	68.6	63.2	58.8	57.3	57.7
60°	2137.9	1216.7	328.4	111.2	87.6	71.9	61.4	57.3	51.7	48.7	48.0
62.5°	2235.6	1234.7	278.3	94.0	77.5	64.4	54.6	50.2	42.6	38.9	38.5
65°	2318.4	1216.4	225.8	77.9	68.9	56.2	46.8	42.3	34.0	29.6	29.6
67.5°	2400.4	1132.4	170.8	65.5	60.0	47.2	38.5	34.4	28.5	24.7	24.7
70°	2410.9	956.0	119.4	55.0	49.8	36.3	31.1	28.5	23.3	19.9	19.5
72.5°	2146.1	687.9	72.7	44.9	38.9	25.8	24.7	22.4	17.2	15.0	14.6
75°	1715.5	421.7	42.6	33.7	25.8	18.3	18.3	16.1	11.6	9.7	9.7
77.5°	1185.6	220.6	25.1	21.7	15.4	10.9	12.0	9.7	5.6	4.5	4.5
80°	474.9	83.8	13.5	10.1	7.1	4.8	4.1	2.3	1.1	0.7	1.1
82.5°	94.7	22.1	4.5	2.7	2.7	1.1	0.0	0.0	0.0	0.0	0.0
85°	24.3	4.8	1.1	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	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)