

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: P960404

Luminaire Tested: **NAV-SB1C-750-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960404
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-750-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 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: 6542.6 lumens
Efficiency: N/A
Efficacy: 120.3 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

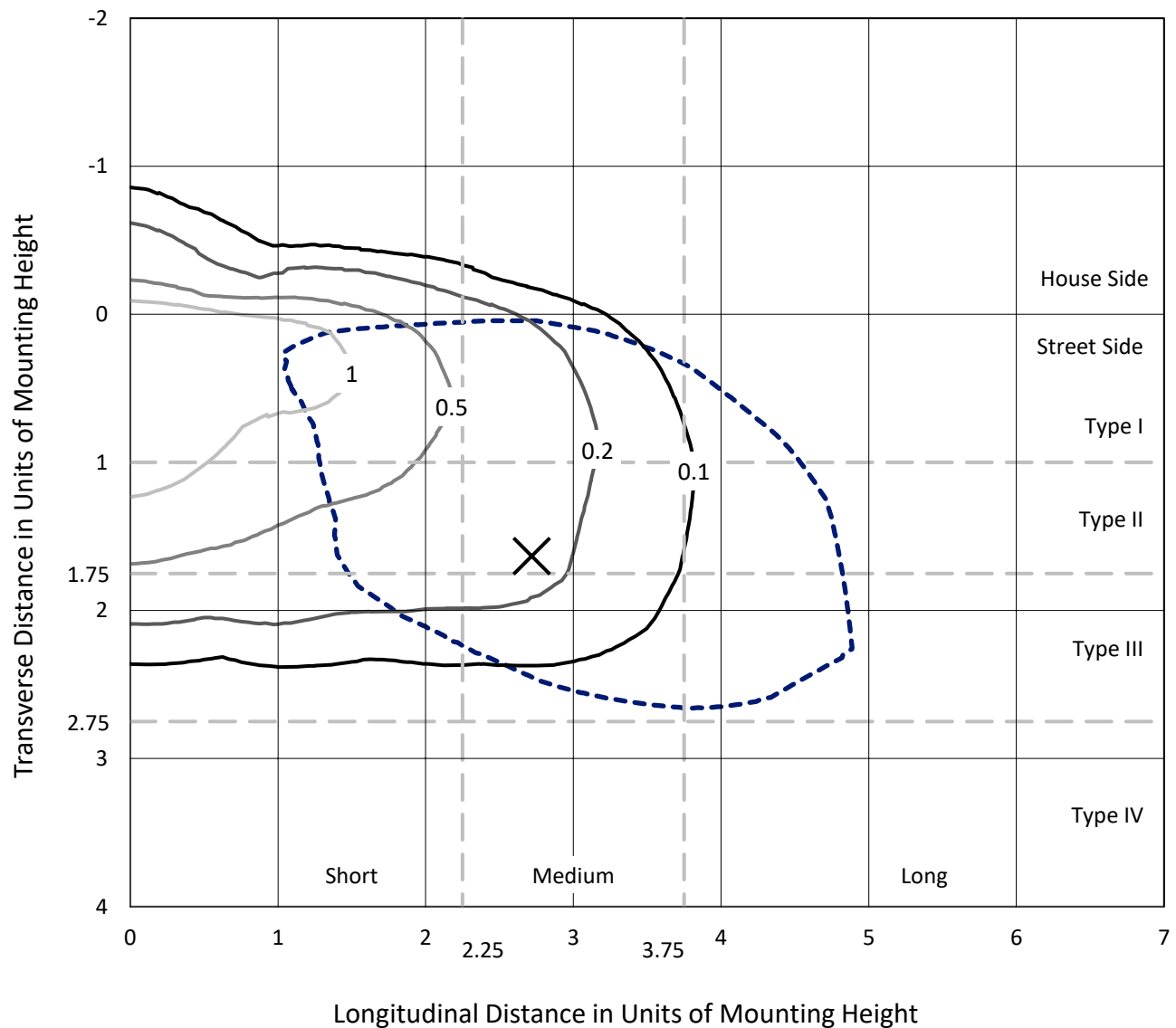


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Iso-Footcandle Lines of Horizontal Illumination

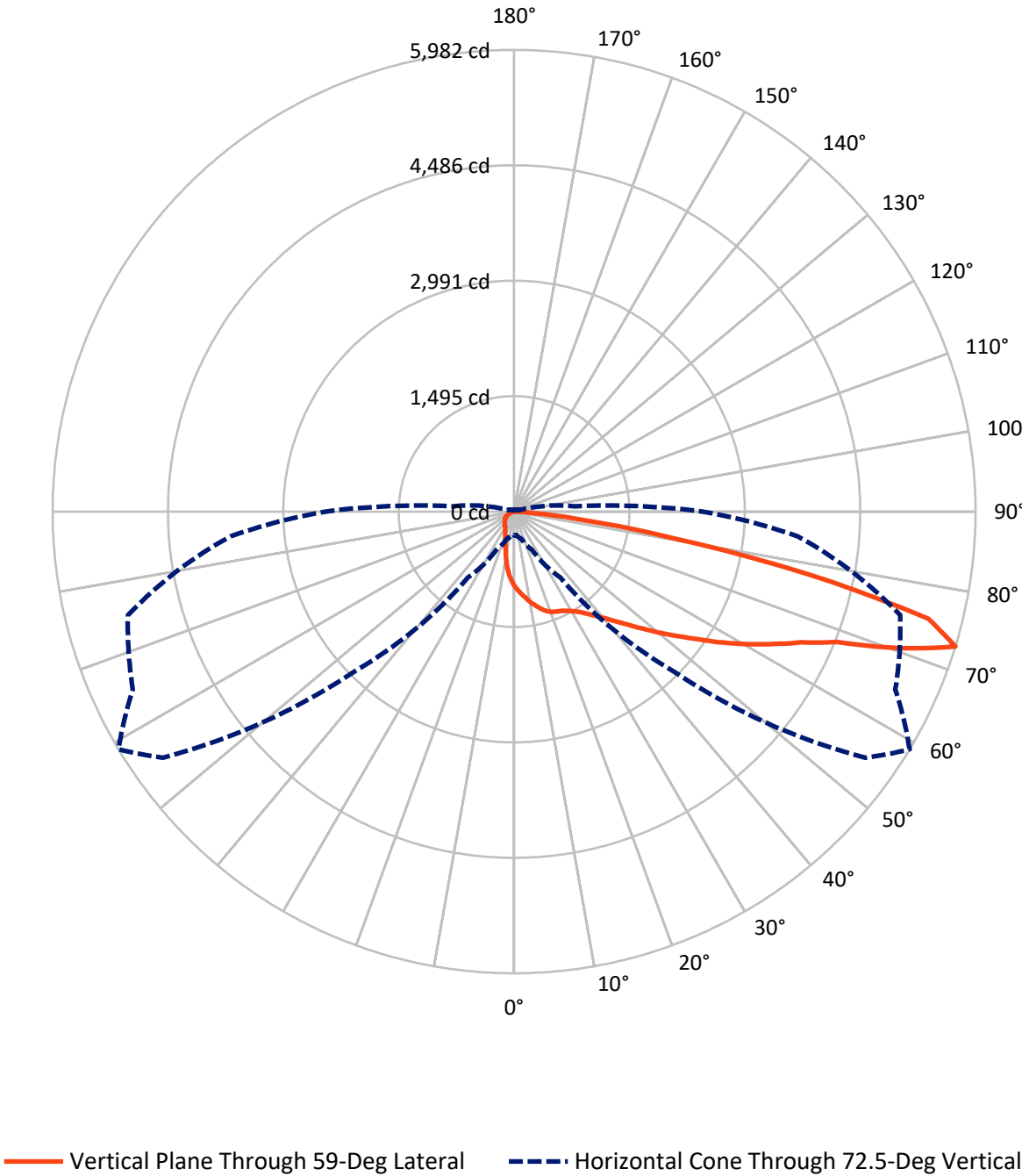
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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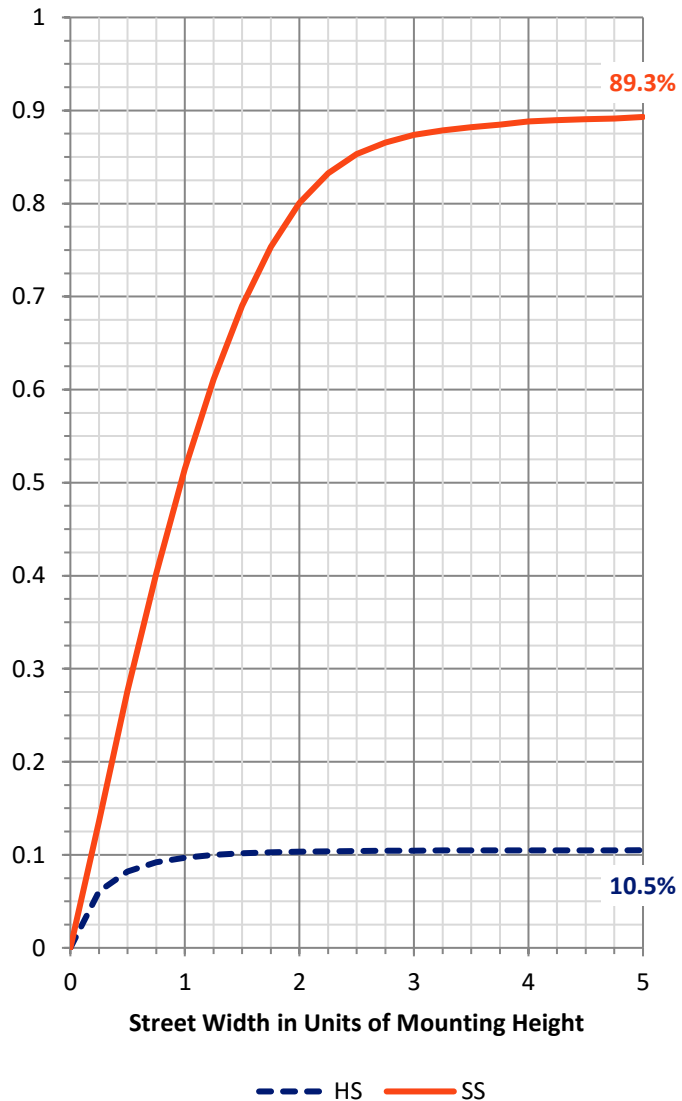
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.0	0.0	691.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5851.6	0.0	5851.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	6542.6	0.0	6542.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.3
10°-20°	232.5	3.6
20°-30°	368.5	5.6
30°-40°	591.3	9.0
40°-50°	944.5	14.4
50°-60°	1367.5	20.9
60°-70°	1622.9	24.8
70°-80°	1204.7	18.4
80°-90°	123.2	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°	6542.6	100.0
0°-180°	6542.6	100.0

Coefficient of Utilization



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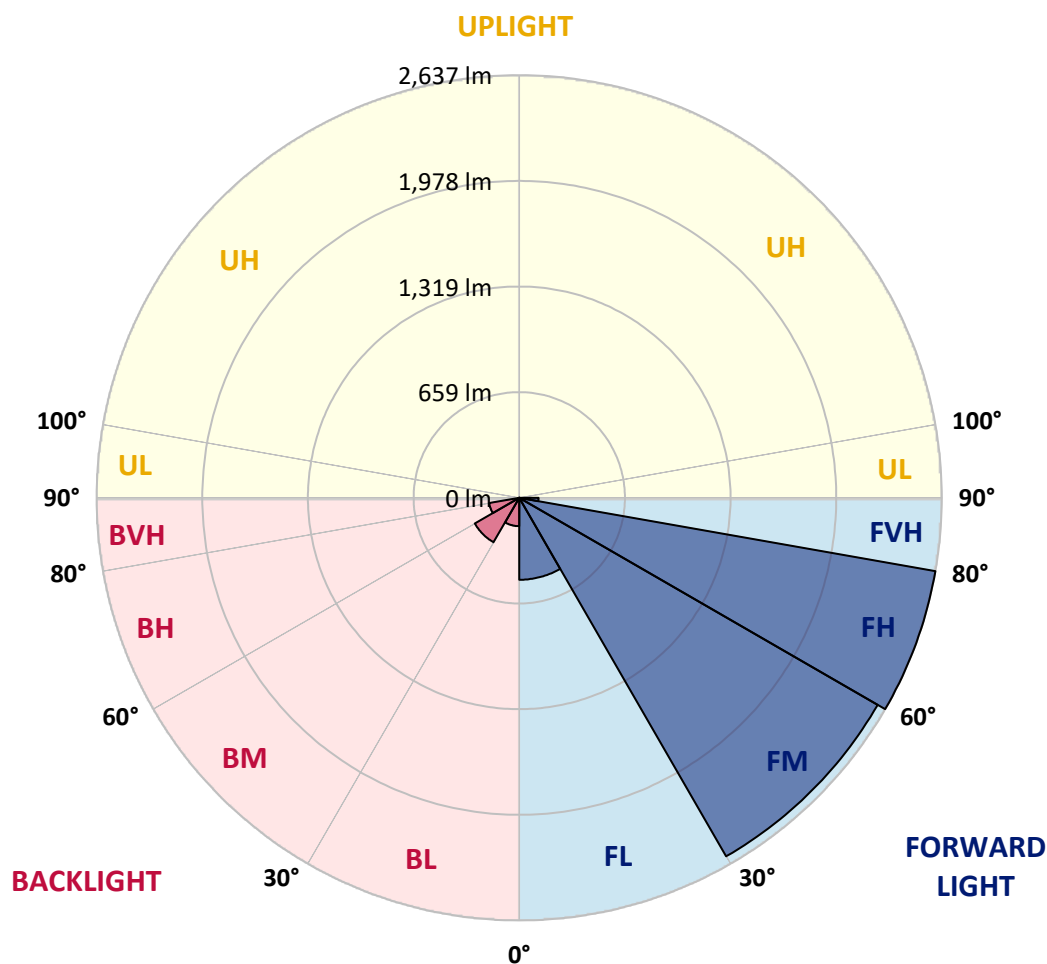
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.5	7.8			
FM	(30°-60°)	2582.9	39.5			
FH	(60°-80°)	2637.0	40.3			G2/5000
FVH	(80°-90°)	120.1	1.8			G2/225
BL	(0°-30°)	177.0	2.7	B1/500		
BM	(30°-60°)	320.4	4.9	B1/1000		
BH	(60°-80°)	190.6	2.9	B1/500		G1/500
BVH	(80°-90°)	3.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5
2.5°	1073.4	1067.4	1068.3	1058.0	1050.8	1043.1	1028.2	1026.0	1015.4	996.5	977.3
5°	1167.0	1163.2	1159.7	1148.2	1133.2	1114.4	1089.3	1080.2	1060.6	1028.2	990.6
7.5°	1235.3	1230.6	1232.4	1220.8	1208.8	1187.9	1153.3	1136.6	1110.6	1061.1	1004.2
10°	1248.6	1246.0	1257.1	1261.4	1261.4	1248.1	1214.4	1197.7	1159.7	1096.4	1018.3
12.5°	1174.2	1174.6	1202.4	1235.7	1279.3	1291.7	1269.1	1251.1	1213.5	1134.1	1036.3
15°	1087.5	1087.9	1114.9	1157.5	1228.9	1300.2	1318.1	1306.7	1267.8	1174.6	1057.2
17.5°	1035.5	1033.3	1051.2	1086.2	1161.0	1261.4	1348.1	1355.8	1324.2	1219.5	1080.2
20°	1028.2	1024.3	1033.7	1051.2	1104.6	1212.7	1351.5	1387.8	1382.2	1270.4	1106.7
22.5°	1072.6	1066.6	1061.5	1062.3	1085.0	1172.1	1343.0	1405.8	1442.1	1331.4	1143.1
25°	1160.6	1151.2	1134.5	1113.1	1108.4	1163.6	1337.0	1425.4	1497.6	1409.6	1190.8
27.5°	1268.2	1255.0	1222.9	1190.8	1163.6	1187.5	1349.4	1456.5	1560.4	1500.6	1246.4
30°	1386.5	1370.3	1338.2	1277.6	1234.0	1240.9	1378.8	1497.6	1640.7	1603.5	1316.0
32.5°	1560.4	1522.7	1466.9	1374.1	1316.5	1298.6	1423.2	1549.7	1740.2	1740.7	1416.9
35°	1709.5	1688.5	1632.1	1516.8	1398.5	1375.0	1481.7	1623.2	1878.2	1922.2	1557.8
37.5°	1807.3	1778.7	1729.1	1642.4	1525.8	1453.6	1559.9	1713.3	2024.3	2128.9	1731.6
40°	1916.6	1888.5	1822.7	1741.1	1673.5	1588.5	1658.7	1817.1	2184.5	2341.2	1930.3
42.5°	2048.6	2011.9	1934.2	1846.1	1775.6	1766.3	1787.6	1946.5	2348.9	2571.8	2137.0
45°	2203.6	2169.1	2079.8	1968.7	1906.8	1890.1	1950.0	2097.3	2532.2	2824.7	2345.9
47.5°	2348.9	2308.7	2212.7	2111.4	2042.6	1990.0	2122.5	2275.4	2739.7	3089.1	2543.2
50°	2472.3	2431.3	2343.4	2235.2	2188.7	2119.9	2292.1	2474.0	2945.6	3357.8	2723.5
52.5°	2556.9	2520.6	2417.3	2343.8	2312.2	2277.5	2490.8	2684.6	3150.6	3603.9	2901.6
55°	2537.7	2505.2	2414.3	2409.2	2407.0	2443.3	2728.2	2923.4	3359.5	3836.7	3078.9
57.5°	2476.6	2439.9	2326.2	2404.4	2480.0	2591.1	2985.3	3205.8	3588.4	4056.2	3249.8
60°	2296.8	2284.0	2214.7	2395.4	2510.7	2735.9	3279.2	3489.4	3836.3	4249.2	3401.4
62.5°	1916.2	1927.3	1926.9	2414.3	2566.3	2900.7	3546.2	3776.4	4078.4	4435.1	3536.4
65°	1434.8	1473.2	1522.3	2245.1	2640.6	3195.0	3865.3	4087.8	4324.5	4651.2	3673.5
67.5°	964.1	994.9	1028.2	1841.8	2419.4	3504.4	4395.4	4514.5	4619.2	4890.9	3827.7
70°	551.9	561.7	608.2	1150.4	1864.9	3418.9	5258.7	5301.8	5058.7	5186.0	3940.0
72.5°	309.2	305.9	367.4	545.9	1042.2	2927.7	5561.0	5981.8	5452.1	5181.3	3689.3
75°	206.7	207.2	252.9	344.3	406.2	2049.5	4792.2	5546.5	5216.3	4594.4	3014.4
77.5°	140.9	145.7	185.8	266.1	188.0	1000.0	3170.3	3885.4	4223.2	3547.9	2081.1
80°	61.1	61.5	122.6	191.0	126.9	318.3	1643.7	2081.5	2648.7	1992.2	824.4
82.5°	31.6	35.9	78.2	123.4	79.8	111.5	776.5	909.4	1111.4	584.8	169.1
85°	11.1	13.2	48.3	60.7	40.2	39.8	270.4	275.5	235.3	87.9	46.5
87.5°	0.0	2.2	18.8	15.0	5.1	4.7	32.1	27.0	21.3	12.4	15.4
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°	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5	967.5
2.5°	968.3	956.8	938.0	914.9	888.1	873.5	852.6	839.8	828.2	828.7	838.0
5°	969.6	950.4	902.6	851.8	795.4	753.9	707.8	675.4	650.6	644.5	653.5
7.5°	973.4	941.1	862.8	778.3	684.3	614.7	551.0	510.9	488.2	482.3	488.2
10°	978.6	930.8	817.9	688.6	571.9	488.2	435.2	409.6	399.3	391.7	396.4
12.5°	982.9	920.0	761.6	595.8	472.0	406.6	366.5	345.1	336.2	330.6	333.6
15°	990.1	906.0	700.5	509.6	404.5	351.2	313.1	297.2	294.7	295.6	296.8
17.5°	997.4	892.3	632.2	442.1	355.0	302.4	279.3	276.8	280.2	283.6	285.0
20°	1005.5	872.7	563.0	391.2	309.2	268.7	262.7	264.4	266.1	272.1	273.8
22.5°	1017.5	847.9	502.4	348.1	271.2	252.5	249.5	250.7	252.0	258.0	259.7
25°	1034.5	821.4	453.3	308.4	247.3	239.2	236.3	236.3	237.9	243.4	245.6
27.5°	1052.5	783.8	413.5	271.6	233.2	224.7	219.6	219.6	221.7	228.1	230.6
30°	1072.6	749.7	382.3	244.4	221.3	210.1	203.4	201.6	204.2	212.3	214.4
32.5°	1108.8	727.4	360.1	231.5	210.5	196.9	187.5	182.9	185.4	194.7	197.3
35°	1164.0	722.3	344.7	225.1	200.3	184.9	171.7	164.4	166.6	176.4	179.4
37.5°	1228.5	733.0	329.7	216.6	190.5	173.4	155.9	146.5	150.0	158.9	161.4
40°	1321.1	777.4	318.3	210.1	180.7	159.8	140.1	130.7	136.2	143.9	145.2
42.5°	1433.1	856.4	315.2	204.2	168.7	145.2	125.6	118.8	123.0	130.3	131.6
45°	1571.9	957.2	328.9	196.5	155.5	131.1	114.1	110.2	111.5	118.8	122.2
47.5°	1721.0	1060.6	366.5	189.6	143.9	119.6	105.1	101.7	100.8	107.6	111.9
50°	1871.8	1152.4	410.9	184.5	135.8	110.2	98.2	94.0	91.8	96.1	97.8
52.5°	2020.9	1225.5	439.9	176.0	127.7	100.8	92.2	85.9	82.0	84.2	85.9
55°	2172.1	1289.6	441.7	163.2	120.0	94.8	86.3	79.0	74.3	74.3	75.1
57.5°	2313.4	1345.9	416.5	146.1	109.4	89.3	78.2	72.2	67.0	65.4	65.8
60°	2438.6	1387.8	374.6	126.9	99.9	82.0	70.0	65.4	58.9	55.6	54.6
62.5°	2550.1	1408.4	317.3	107.2	88.5	73.5	62.3	57.2	48.7	44.4	44.0
65°	2644.5	1387.3	257.6	88.9	78.6	64.1	53.4	48.3	38.8	33.7	33.7
67.5°	2738.0	1291.7	194.7	74.7	68.4	53.8	44.0	39.3	32.5	28.2	28.2
70°	2750.0	1090.5	136.2	62.8	56.8	41.4	35.5	32.5	26.4	22.7	22.2
72.5°	2448.0	784.6	82.8	51.2	44.4	29.5	28.2	25.6	19.7	17.1	16.7
75°	1956.7	480.9	48.7	38.4	29.5	20.9	20.9	18.3	13.2	11.1	11.1
77.5°	1352.4	251.6	28.6	24.8	17.5	12.4	13.6	11.1	6.5	5.1	5.1
80°	541.6	95.6	15.4	11.6	8.1	5.5	4.7	2.6	1.3	0.8	1.3
82.5°	108.0	25.2	5.1	3.0	3.0	1.3	0.0	0.0	0.0	0.0	0.0
85°	27.8	5.5	1.3	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	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)