

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: P960495

Luminaire Tested: **NAV-SB1C-830-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-830-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

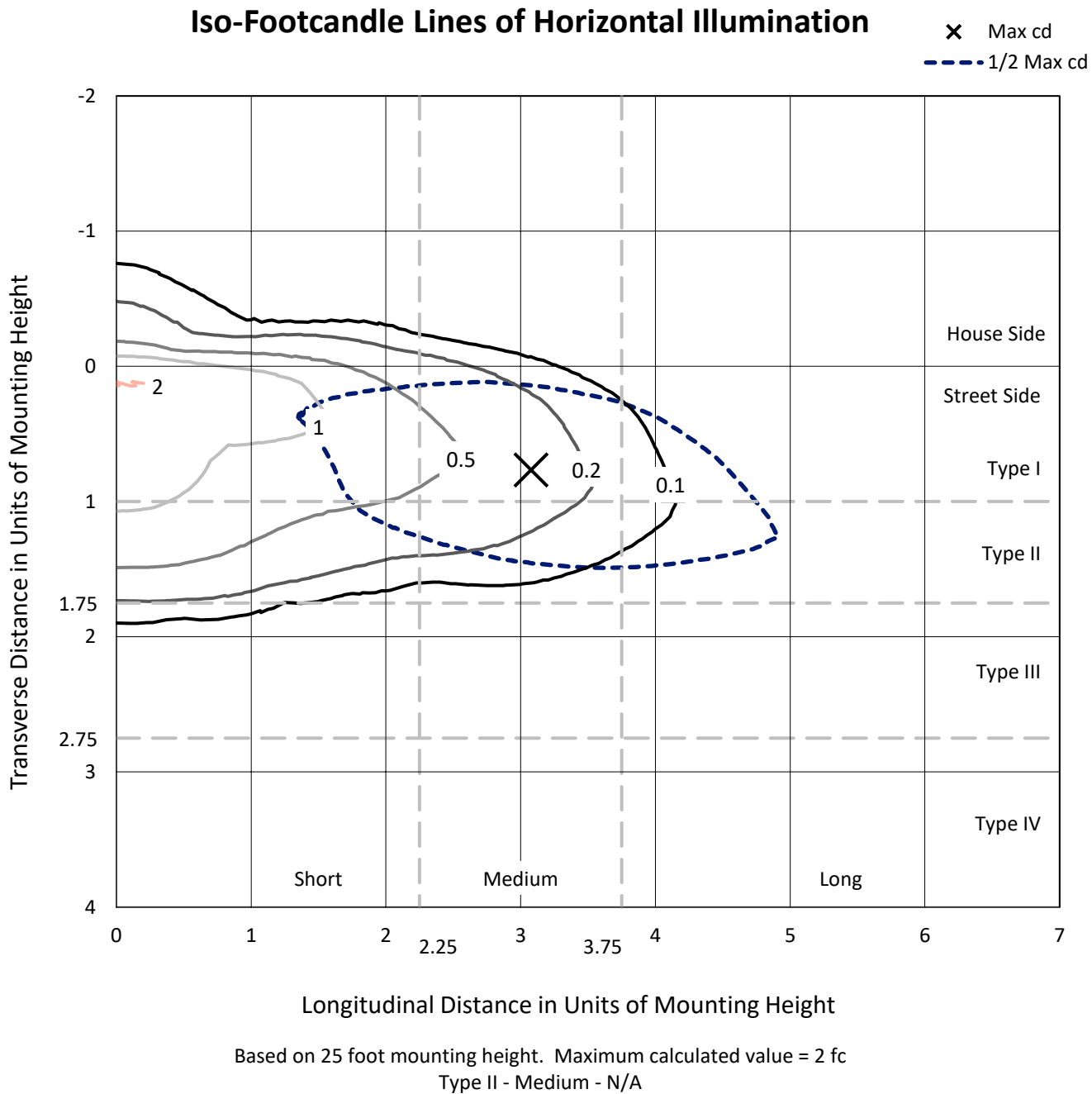
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5592.4 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - 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

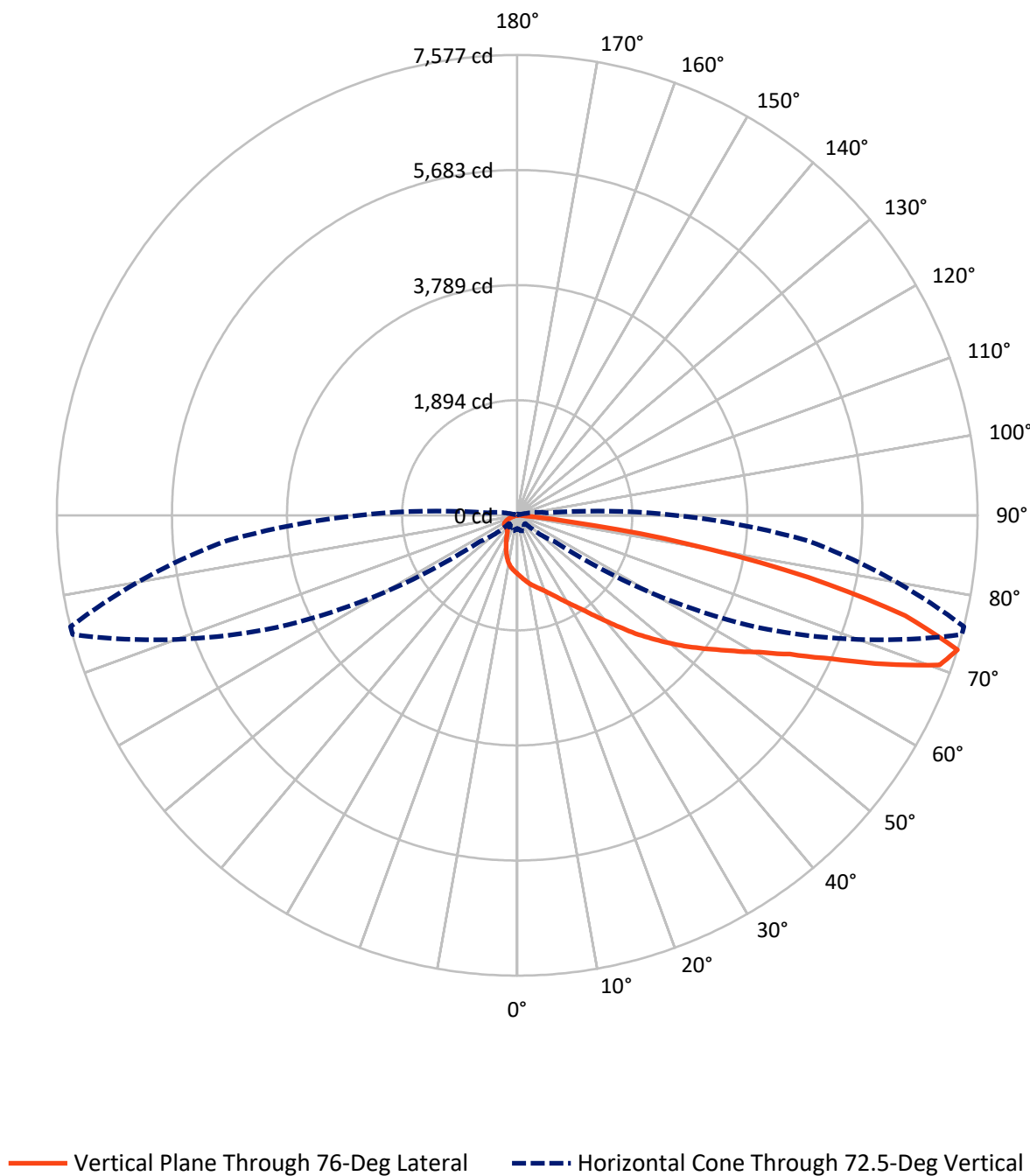


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Luminous Intensity Polar Plot



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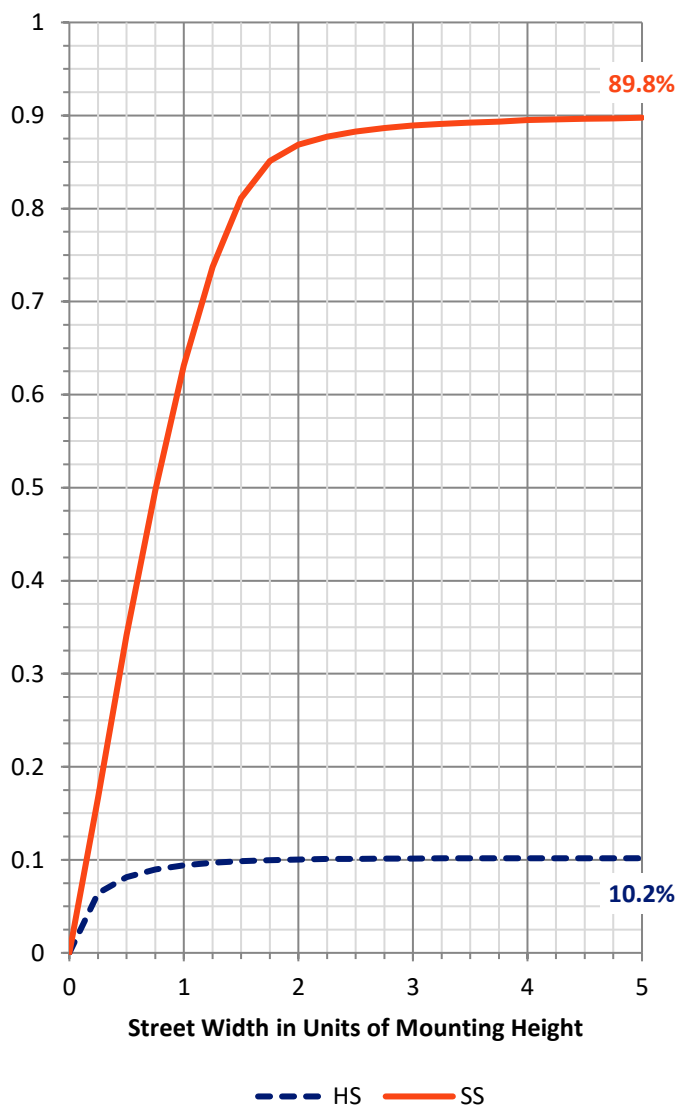
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	572.4	0.0	572.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5020.0	0.0	5020.0
	% Fixture	89.8	0.0	89.8
Total	Lumens	5592.4	0.0	5592.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.6
10°-20°	235.7	4.2
20°-30°	373.0	6.7
30°-40°	577.1	10.3
40°-50°	876.5	15.7
50°-60°	1208.4	21.6
60°-70°	1276.6	22.8
70°-80°	875.7	15.7
80°-90°	81.5	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°	5592.4	100.0
0°-180°	5592.4	100.0

Coefficient of Utilization



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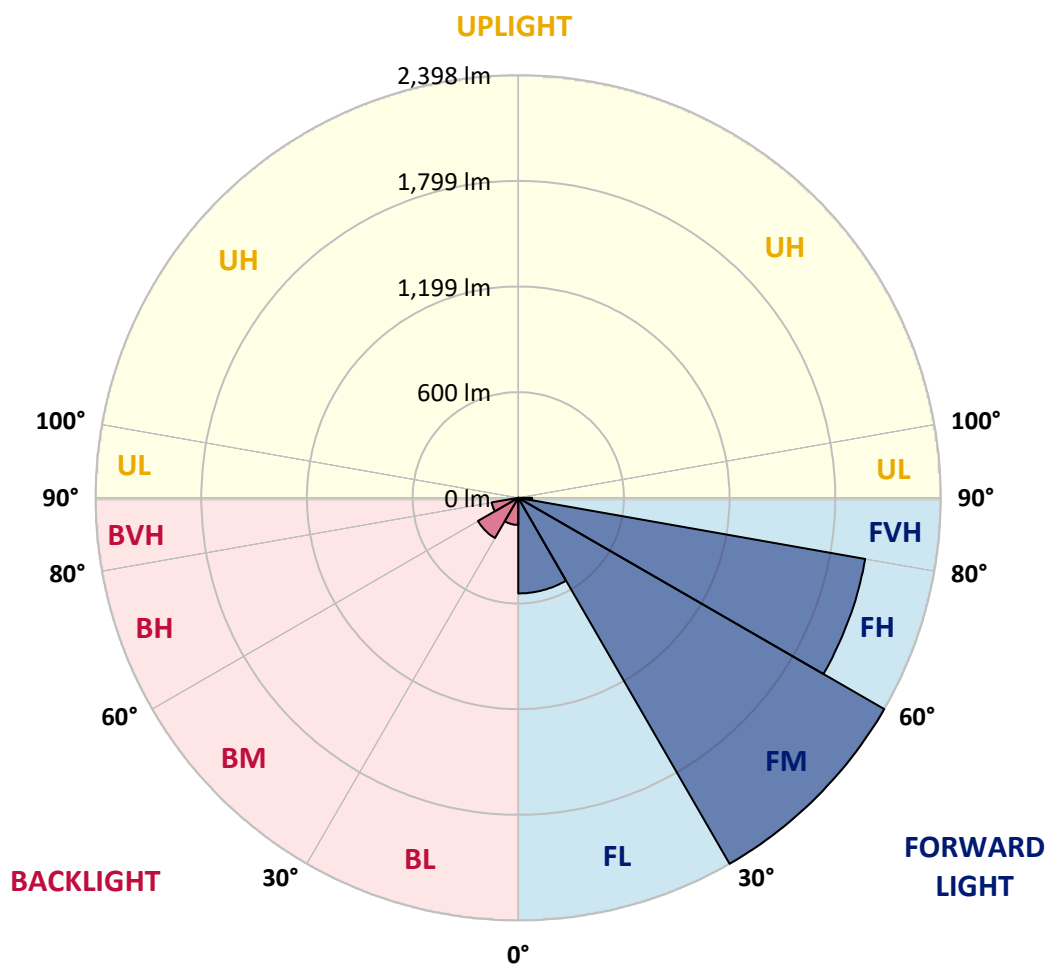
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	542.7	9.7			
FM	(30°-60°)	2398.4	42.9			
FH	(60°-80°)	1999.5	35.8			G2/5000
FVH	(80°-90°)	79.3	1.4			G1/100
BL	(0°-30°)	153.9	2.8	B1/500		
BM	(30°-60°)	263.5	4.7	B1/1000		
BH	(60°-80°)	152.8	2.7	B1/500		G1/500
BVH	(80°-90°)	2.2	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4
2.5°	1123.5	1108.6	1111.5	1096.6	1089.8	1073.1	1055.6	1032.8	1007.4	1007.4	982.8
5°	1241.8	1232.4	1232.4	1214.9	1201.5	1175.4	1144.2	1103.9	1056.1	1051.3	1004.5
7.5°	1314.4	1308.5	1312.1	1302.0	1291.1	1263.9	1226.9	1174.2	1106.5	1100.6	1030.2
10°	1328.5	1328.1	1338.2	1341.1	1348.4	1334.7	1301.6	1241.1	1156.1	1147.8	1052.4
12.5°	1273.7	1266.8	1291.8	1321.2	1362.5	1381.1	1364.0	1302.0	1201.5	1189.9	1073.1
15°	1183.7	1185.2	1209.1	1254.5	1323.4	1389.4	1411.5	1361.5	1247.5	1233.8	1092.6
17.5°	1132.2	1126.8	1147.5	1188.1	1264.2	1357.5	1433.7	1417.0	1296.5	1280.9	1112.6
20°	1126.1	1125.7	1130.4	1148.9	1206.9	1311.8	1431.1	1471.0	1354.2	1336.1	1141.2
22.5°	1168.8	1168.1	1164.1	1160.5	1176.5	1267.1	1420.2	1522.5	1423.1	1403.5	1181.9
25°	1234.5	1233.4	1227.2	1205.1	1189.5	1243.2	1410.1	1570.4	1504.8	1483.0	1231.2
27.5°	1314.7	1313.9	1302.7	1269.4	1229.1	1245.4	1405.0	1619.8	1599.1	1577.7	1288.2
30°	1413.0	1411.5	1388.4	1341.1	1288.5	1279.8	1411.9	1675.3	1697.4	1681.1	1353.8
32.5°	1536.4	1532.4	1501.8	1430.8	1357.1	1325.9	1425.0	1732.2	1813.8	1798.6	1441.7
35°	1631.7	1625.5	1607.8	1545.0	1436.5	1382.5	1455.4	1799.7	1953.9	1940.4	1553.7
37.5°	1713.7	1707.5	1693.0	1641.5	1550.5	1454.7	1504.4	1889.7	2119.3	2112.7	1690.5
40°	1802.3	1792.1	1785.1	1730.0	1647.7	1558.8	1574.4	1994.9	2309.7	2310.5	1854.8
42.5°	1870.4	1866.4	1867.1	1824.7	1741.7	1682.1	1667.3	2113.4	2537.9	2544.9	2052.6
45°	1928.8	1925.6	1939.0	1909.3	1836.3	1763.1	1776.1	2247.7	2787.5	2801.6	2273.9
47.5°	1973.8	1977.4	1996.7	1977.4	1934.7	1820.0	1872.6	2392.5	3049.8	3051.6	2502.3
50°	2018.8	2020.3	2052.2	2042.7	2025.3	1892.2	1961.4	2554.3	3326.2	3329.5	2716.0
52.5°	2033.0	2030.7	2081.6	2104.7	2105.6	1981.4	2076.4	2730.6	3597.2	3607.7	2935.9
55°	1960.4	1966.6	2048.6	2142.9	2180.3	2104.7	2231.7	2953.6	3886.0	3890.3	3153.5
57.5°	1605.7	1639.7	1821.1	2039.9	2228.5	2281.4	2454.9	3214.5	4219.3	4215.4	3374.1
60°	974.4	1015.1	1231.9	1710.8	2071.0	2458.9	2783.5	3618.7	4583.6	4572.3	3597.2
62.5°	544.9	557.2	626.5	1024.1	1575.1	2346.0	3104.6	4137.7	5072.6	5034.5	3816.7
65°	401.6	405.6	421.9	501.7	774.2	1804.4	3034.2	4758.5	5759.7	5691.8	4079.7
67.5°	349.0	353.0	368.9	379.9	345.7	947.9	2499.9	5102.7	6632.2	6543.3	4435.6
70°	293.9	296.0	321.7	329.0	247.4	360.6	1606.0	4996.4	7439.7	7376.2	4817.6
72.5°	219.1	227.9	265.2	282.6	198.4	191.6	756.0	4368.4	7576.4	7577.1	4791.8
75°	148.7	156.7	199.6	232.6	153.1	134.3	305.0	3262.1	6597.3	6597.3	4200.4
77.5°	101.6	108.1	139.0	182.4	116.1	92.1	158.2	2070.3	4733.0	4899.6	2993.9
80°	45.0	49.0	89.6	132.4	88.1	59.4	89.6	1133.6	2862.2	2827.1	1173.5
82.5°	22.1	25.4	57.3	82.7	57.0	36.6	47.2	539.0	927.6	881.5	183.2
85°	4.3	5.8	30.9	35.2	26.4	16.3	17.7	165.7	111.7	127.7	38.8
87.5°	0.0	0.0	9.4	6.6	2.9	3.6	3.6	14.9	8.7	10.1	10.1
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°	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4
2.5°	969.6	956.2	926.9	897.9	868.1	840.9	822.0	803.2	791.6	786.5	787.2
5°	977.3	950.1	888.5	823.9	760.0	697.6	650.8	606.9	593.2	570.3	571.7
7.5°	989.2	945.0	847.8	738.9	635.2	543.8	477.8	425.2	404.2	383.8	383.5
10°	997.2	935.6	794.1	648.6	508.2	405.6	342.5	304.3	290.6	278.3	277.9
12.5°	1000.5	918.2	732.5	547.5	395.4	309.0	271.3	253.6	248.9	244.5	244.5
15°	1003.4	901.1	663.5	449.9	312.3	258.6	243.7	238.0	234.7	231.9	231.9
17.5°	1005.9	879.3	584.8	365.7	263.7	238.3	231.0	224.9	222.4	219.1	219.1
20°	1014.6	858.3	514.4	301.9	237.3	223.9	215.9	209.3	207.2	205.0	205.3
22.5°	1030.9	841.2	446.2	258.6	221.3	209.0	198.7	191.6	190.1	188.6	187.6
25°	1050.6	820.2	382.0	230.7	205.7	191.9	180.7	174.5	173.0	173.4	172.7
27.5°	1075.6	797.0	326.9	213.0	191.9	176.0	163.3	158.6	159.3	160.7	160.0
30°	1103.2	775.6	283.7	200.6	179.6	161.7	149.1	145.9	148.4	150.6	149.9
32.5°	1144.2	756.8	253.6	190.9	168.7	150.2	140.0	136.0	139.0	141.9	141.1
35°	1200.1	747.3	236.6	182.4	159.3	141.1	131.0	128.0	131.0	131.7	131.3
37.5°	1268.6	746.6	229.3	175.6	150.6	133.5	122.3	121.2	123.3	123.7	123.0
40°	1357.1	751.3	223.9	170.5	141.4	124.7	114.3	113.2	113.9	116.4	116.1
42.5°	1469.2	770.9	216.2	164.0	131.7	116.1	107.7	105.2	104.9	107.7	107.4
45°	1610.0	814.1	206.0	153.4	123.0	108.9	100.4	97.6	96.5	97.3	98.3
47.5°	1763.4	867.0	195.9	143.7	116.8	103.0	94.7	91.0	89.3	89.3	89.3
50°	1912.1	926.9	189.0	133.5	112.4	97.6	88.6	84.9	82.0	81.3	80.9
52.5°	2059.4	985.6	183.6	123.3	107.4	90.7	82.7	78.7	75.4	74.0	73.3
55°	2193.7	1041.5	174.1	113.6	100.9	83.4	76.9	72.9	68.9	66.4	65.3
57.5°	2322.4	1087.9	156.7	103.4	90.7	76.6	70.7	66.4	61.7	58.4	57.0
60°	2439.6	1111.9	135.0	92.5	80.6	69.3	63.9	59.9	53.7	48.3	46.8
62.5°	2528.9	1102.5	111.4	80.2	70.0	62.7	55.9	51.9	44.6	38.1	35.6
65°	2620.3	1050.9	88.9	67.1	61.3	54.0	46.8	42.8	34.4	27.6	25.7
67.5°	2738.9	941.1	70.0	55.9	53.0	42.8	36.6	34.1	28.3	21.7	20.3
70°	2815.1	730.9	54.4	45.3	43.6	31.2	28.3	28.0	22.4	16.7	14.9
72.5°	2606.2	479.2	41.7	34.4	31.2	20.3	21.7	21.7	16.3	11.3	9.8
75°	2175.6	280.4	30.1	24.7	17.7	13.0	14.9	14.9	10.1	5.4	4.3
77.5°	1553.7	149.4	20.0	15.3	9.0	5.8	8.0	7.6	3.3	0.4	0.0
80°	594.2	51.6	9.4	6.1	2.6	1.1	0.7	0.4	0.4	0.0	0.0
82.5°	90.7	13.4	1.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)