

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: P959360

Luminaire Tested: **NAV-SB1A-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-750-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

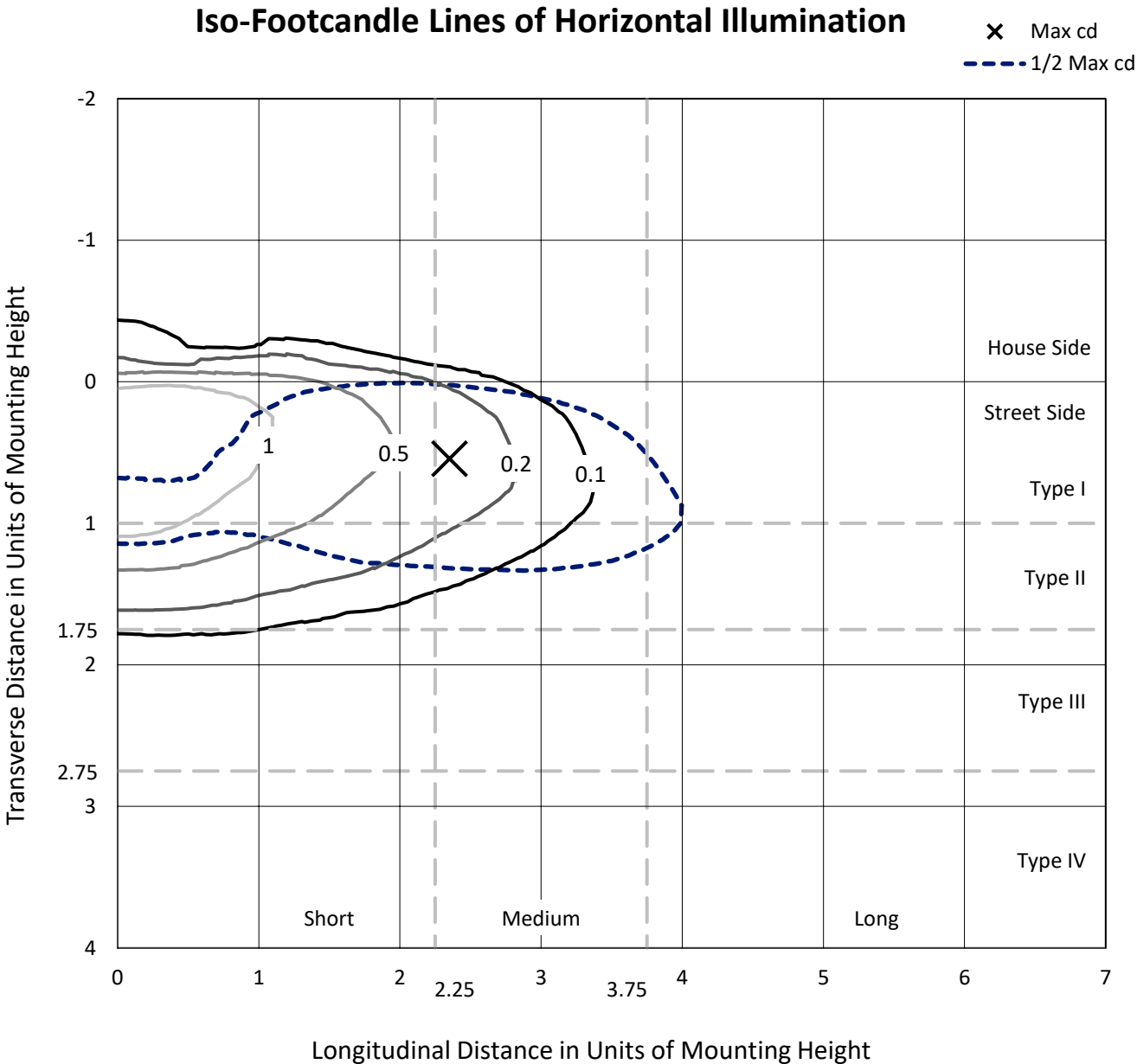
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4120.5 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 30.9
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



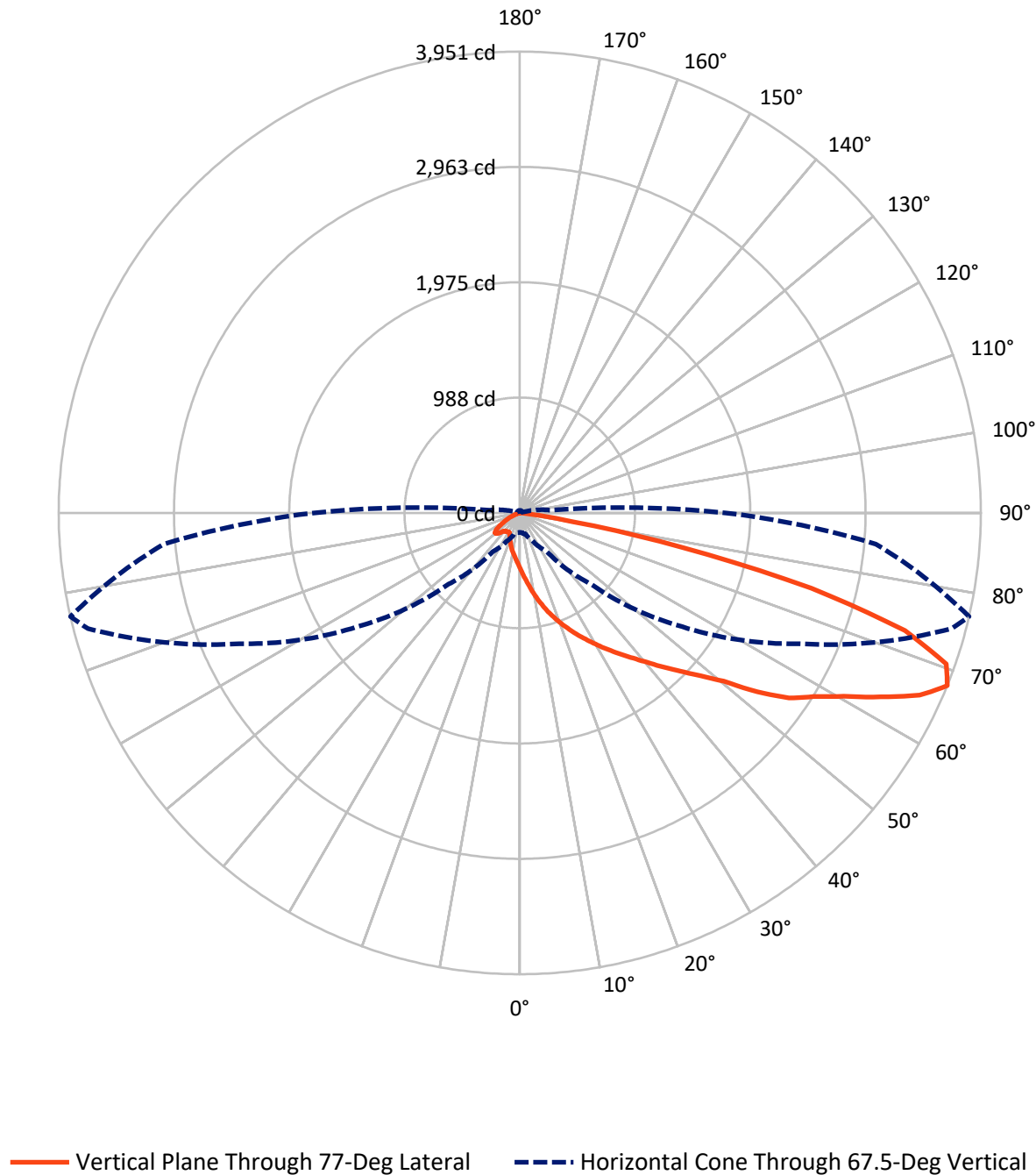
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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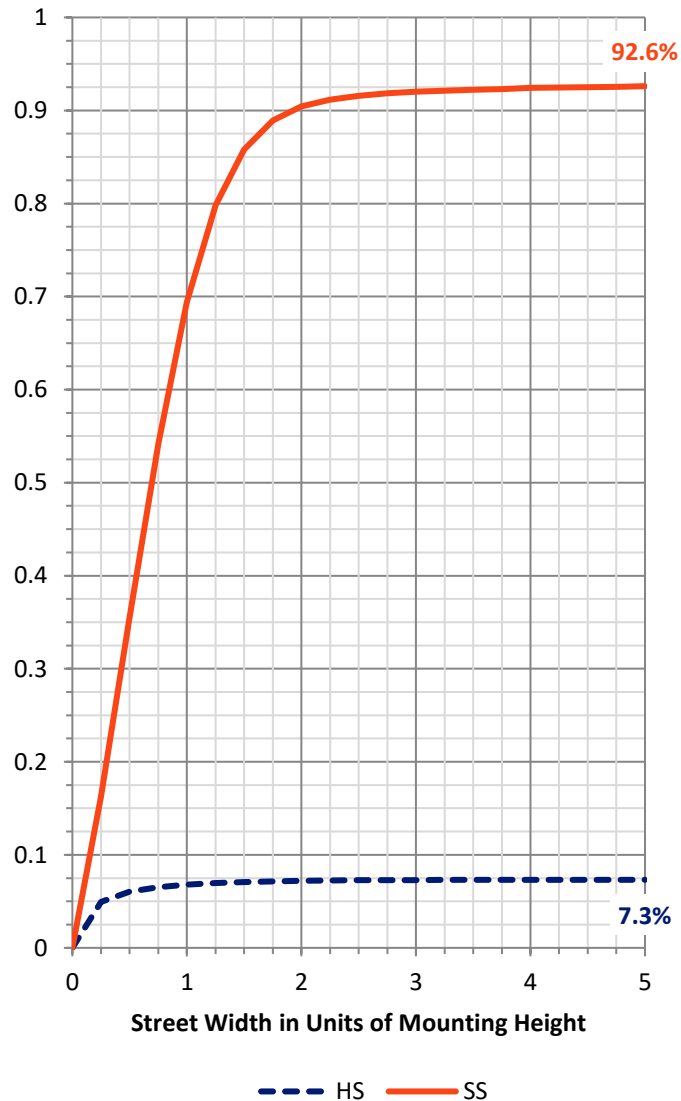
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.1	0.0	303.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	3817.3	0.0	3817.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	4120.5	0.0	4120.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.2
10°-20°	169.8	4.1
20°-30°	327.7	8.0
30°-40°	569.0	13.8
40°-50°	826.1	20.0
50°-60°	948.7	23.0
60°-70°	823.6	20.0
70°-80°	387.9	9.4
80°-90°	19.2	0.5
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°	4120.5	100.0
0°-180°	4120.5	100.0

Coefficient of Utilization



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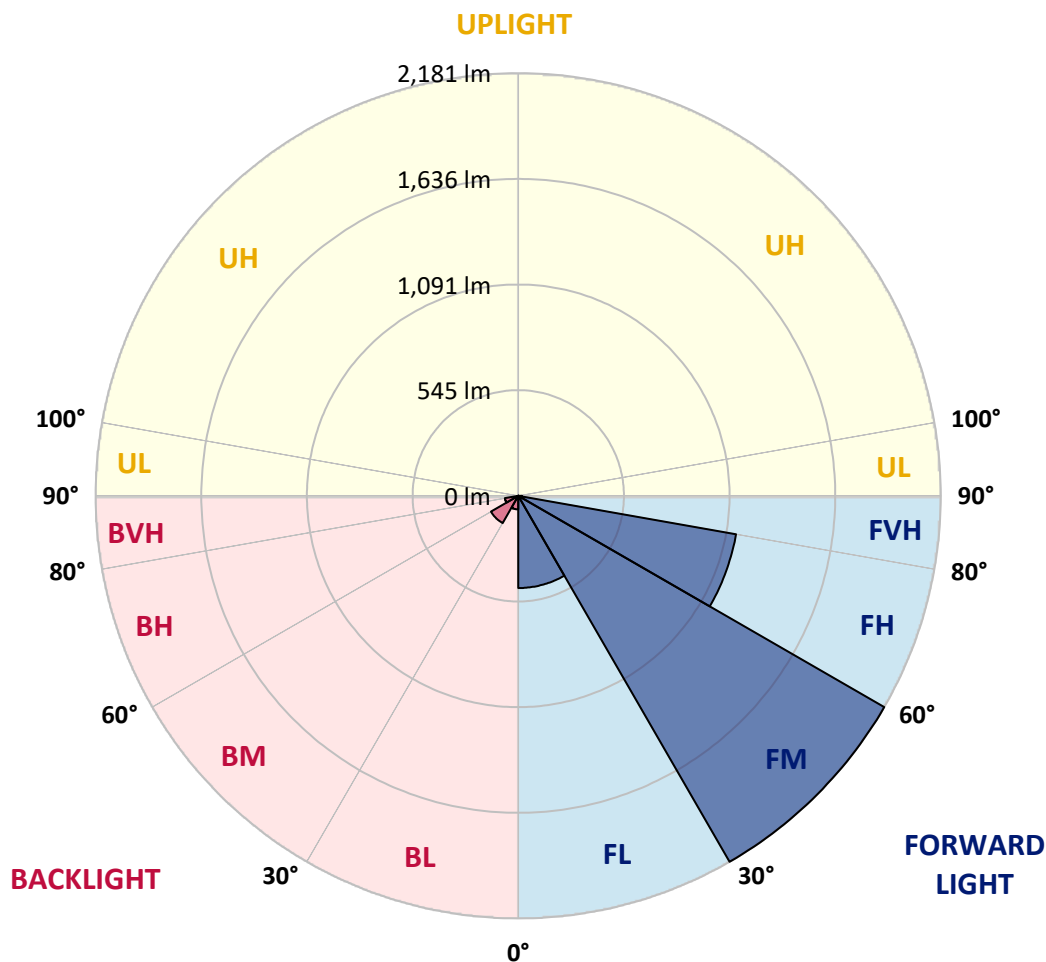
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.9	11.5			
FM	(30°-60°)	2181.3	52.9			
FH	(60°-80°)	1141.4	27.7			G1/1800
FVH	(80°-90°)	18.8	0.5			G1/100
BL	(0°-30°)	70.2	1.7	B0/110		
BM	(30°-60°)	162.4	3.9	B0/220		
BH	(60°-80°)	70.2	1.7	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2
2.5°	657.8	661.9	656.1	644.8	627.9	616.9	590.0	564.7	536.6	527.6	499.5
5°	801.9	805.4	798.8	786.6	764.0	742.5	707.2	654.3	599.2	581.6	531.7
7.5°	908.6	910.6	908.0	896.9	875.4	851.1	811.6	749.0	667.3	647.9	571.3
10°	985.3	992.0	991.3	986.9	972.5	952.8	910.9	839.5	743.5	718.5	616.1
12.5°	1036.3	1043.7	1048.1	1057.8	1057.0	1044.5	1007.6	932.1	819.6	790.2	666.6
15°	1051.1	1059.0	1075.6	1098.2	1118.2	1124.5	1098.7	1023.0	903.2	865.6	718.2
17.5°	1042.6	1054.9	1074.9	1110.5	1154.3	1183.2	1180.3	1110.7	979.2	936.2	768.9
20°	1061.4	1073.2	1088.8	1118.7	1169.6	1222.0	1243.0	1194.6	1054.7	1009.6	822.2
22.5°	1164.7	1162.7	1164.2	1169.1	1199.6	1251.4	1294.7	1270.9	1129.4	1083.3	878.4
25°	1328.5	1319.3	1303.7	1277.4	1269.7	1294.7	1339.8	1338.4	1208.3	1158.9	936.0
27.5°	1516.3	1514.7	1478.2	1414.7	1378.9	1369.2	1390.6	1404.2	1286.3	1233.6	993.8
30°	1696.2	1700.3	1650.9	1580.2	1514.5	1476.4	1456.9	1466.7	1365.6	1314.2	1053.4
32.5°	1852.8	1857.1	1803.4	1720.8	1639.4	1593.4	1552.4	1528.3	1452.1	1396.0	1118.9
35°	1985.0	1989.4	1927.7	1836.4	1749.7	1708.0	1661.6	1595.8	1539.0	1486.9	1191.9
37.5°	2103.3	2102.0	2019.4	1927.2	1842.0	1809.0	1784.7	1679.1	1628.6	1578.2	1272.7
40°	2173.1	2178.5	2107.9	2006.3	1923.6	1899.6	1898.1	1782.2	1732.0	1683.2	1361.2
42.5°	2193.6	2203.0	2151.9	2068.4	1993.5	1967.4	2007.6	1893.7	1852.3	1804.6	1461.2
45°	2156.7	2165.9	2142.7	2084.8	2041.1	2024.2	2101.8	2009.4	1980.7	1933.7	1574.1
47.5°	2049.3	2060.8	2066.4	2054.1	2053.6	2070.8	2186.1	2131.2	2133.2	2085.1	1704.9
50°	1841.2	1860.7	1912.3	1955.9	2023.1	2107.6	2268.3	2263.2	2305.1	2263.7	1875.2
52.5°	1463.1	1490.8	1668.8	1787.8	1939.0	2100.7	2358.6	2475.1	2606.8	2546.2	2115.6
55°	1175.8	1175.8	1320.5	1543.1	1774.7	2055.1	2398.0	2612.7	2812.3	2797.9	2284.7
57.5°	958.5	970.1	1062.4	1259.1	1537.0	1946.7	2422.4	2699.2	2977.8	2967.4	2450.0
60°	591.5	616.4	790.9	985.1	1266.6	1753.5	2407.0	2786.7	3178.7	3187.1	2649.0
62.5°	333.1	342.3	420.1	708.8	984.8	1493.7	2289.5	2835.6	3435.6	3471.4	2854.2
65°	230.0	234.6	264.6	441.2	682.6	1189.3	2060.0	2805.1	3693.0	3765.4	3028.3
67.5°	167.1	169.4	188.1	269.5	405.1	862.3	1700.3	2651.6	3829.4	3950.5	3061.5
70°	128.4	130.0	143.5	177.0	239.2	532.2	1234.8	2346.3	3730.6	3875.2	2891.1
72.5°	104.3	105.9	116.4	131.0	158.7	314.7	748.5	1905.5	3294.7	3450.7	2461.2
75°	88.0	90.1	99.5	109.0	124.3	202.1	351.1	1327.0	2477.6	2579.9	1711.5
77.5°	48.9	45.0	80.9	90.3	104.9	127.9	164.3	780.9	1387.5	1416.0	759.4
80°	30.4	31.5	64.3	72.7	80.6	64.5	75.2	300.6	481.0	456.9	147.1
82.5°	1.7	4.1	49.4	52.5	55.2	27.7	28.4	102.1	115.9	106.4	26.1
85°	0.0	0.0	22.5	18.1	19.2	7.9	8.2	23.8	15.6	16.9	5.1
87.5°	0.0	0.0	0.0	0.5	0.0	0.7	1.5	2.0	0.7	1.0	1.7
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°	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2	475.2
2.5°	481.5	463.6	427.3	391.8	362.8	336.0	316.7	298.6	289.4	288.8	288.3
5°	496.1	458.5	385.8	321.6	270.0	228.5	201.6	182.4	172.7	169.4	168.9
7.5°	516.6	460.0	349.5	260.2	199.4	163.8	148.4	142.3	140.2	138.0	137.5
10°	542.4	463.6	317.0	209.5	157.1	139.2	133.0	130.5	128.9	127.4	126.9
12.5°	571.3	467.0	284.7	173.9	138.2	128.9	124.6	121.6	119.5	117.7	117.2
15°	599.5	469.0	251.2	149.1	128.4	121.1	116.4	113.1	110.3	108.2	107.9
17.5°	627.4	471.8	219.8	134.4	120.5	113.1	108.4	104.3	102.1	99.8	99.5
20°	658.4	471.3	190.1	123.8	112.5	105.2	100.3	96.5	94.2	91.6	91.3
22.5°	687.1	468.7	164.0	114.9	104.3	97.3	91.8	88.0	85.7	83.6	83.4
25°	720.1	466.7	142.3	106.7	96.8	89.6	83.6	80.1	77.5	75.7	75.4
27.5°	751.7	463.6	126.4	99.3	89.3	82.4	76.8	72.7	70.3	69.1	69.1
30°	783.0	462.9	120.5	92.1	82.6	75.7	70.1	66.3	64.5	64.0	63.8
32.5°	820.6	464.9	123.1	89.6	76.5	69.6	64.3	61.4	59.7	59.7	59.7
35°	860.8	464.4	126.9	91.8	72.4	63.4	59.3	57.6	55.8	55.8	55.8
37.5°	911.1	465.1	130.0	95.7	70.8	58.3	56.1	53.7	52.7	52.7	52.7
40°	986.4	490.5	128.4	99.0	70.3	54.7	50.1	49.4	48.6	48.6	48.6
42.5°	1078.5	545.5	130.5	99.3	70.1	52.2	46.0	47.6	45.8	45.5	45.3
45°	1179.4	605.7	143.5	93.9	69.8	50.9	44.0	45.8	42.9	42.9	42.9
47.5°	1279.4	665.2	156.8	86.2	69.1	50.6	42.2	41.2	40.4	40.7	40.7
50°	1417.3	713.9	162.0	75.7	67.3	50.1	38.8	39.2	38.6	39.2	39.2
52.5°	1567.4	724.2	155.8	64.0	62.2	48.6	36.6	37.6	37.3	37.8	37.8
55°	1661.1	713.1	128.7	53.2	54.2	42.4	34.3	36.3	36.3	36.3	36.3
57.5°	1757.9	666.2	91.3	43.3	45.0	34.7	32.3	35.1	34.7	34.5	34.5
60°	1827.5	590.5	60.2	35.6	35.8	28.7	29.9	33.0	32.8	31.5	31.5
62.5°	1879.3	506.9	38.6	30.2	27.4	25.8	27.4	29.9	28.9	26.1	25.6
65°	1873.5	390.9	29.7	25.8	22.5	22.5	23.8	26.1	23.1	18.4	17.9
67.5°	1764.2	264.6	24.6	21.7	19.0	18.7	19.7	21.7	19.7	15.6	15.1
70°	1569.0	173.0	19.7	16.9	15.1	13.8	15.9	18.7	16.6	12.5	12.0
72.5°	1273.5	105.4	14.9	12.3	11.0	8.9	12.5	15.4	13.3	9.2	8.7
75°	823.9	53.7	10.2	7.9	5.8	5.3	9.2	11.5	9.2	5.6	4.8
77.5°	315.2	22.5	5.6	3.6	3.1	2.6	5.1	6.9	3.8	1.2	1.0
80°	60.7	9.4	2.8	1.7	1.5	1.0	0.7	0.5	0.0	0.0	0.0
82.5°	10.5	3.1	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	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)