

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: P960461

Luminaire Tested: **NAV-SB1C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

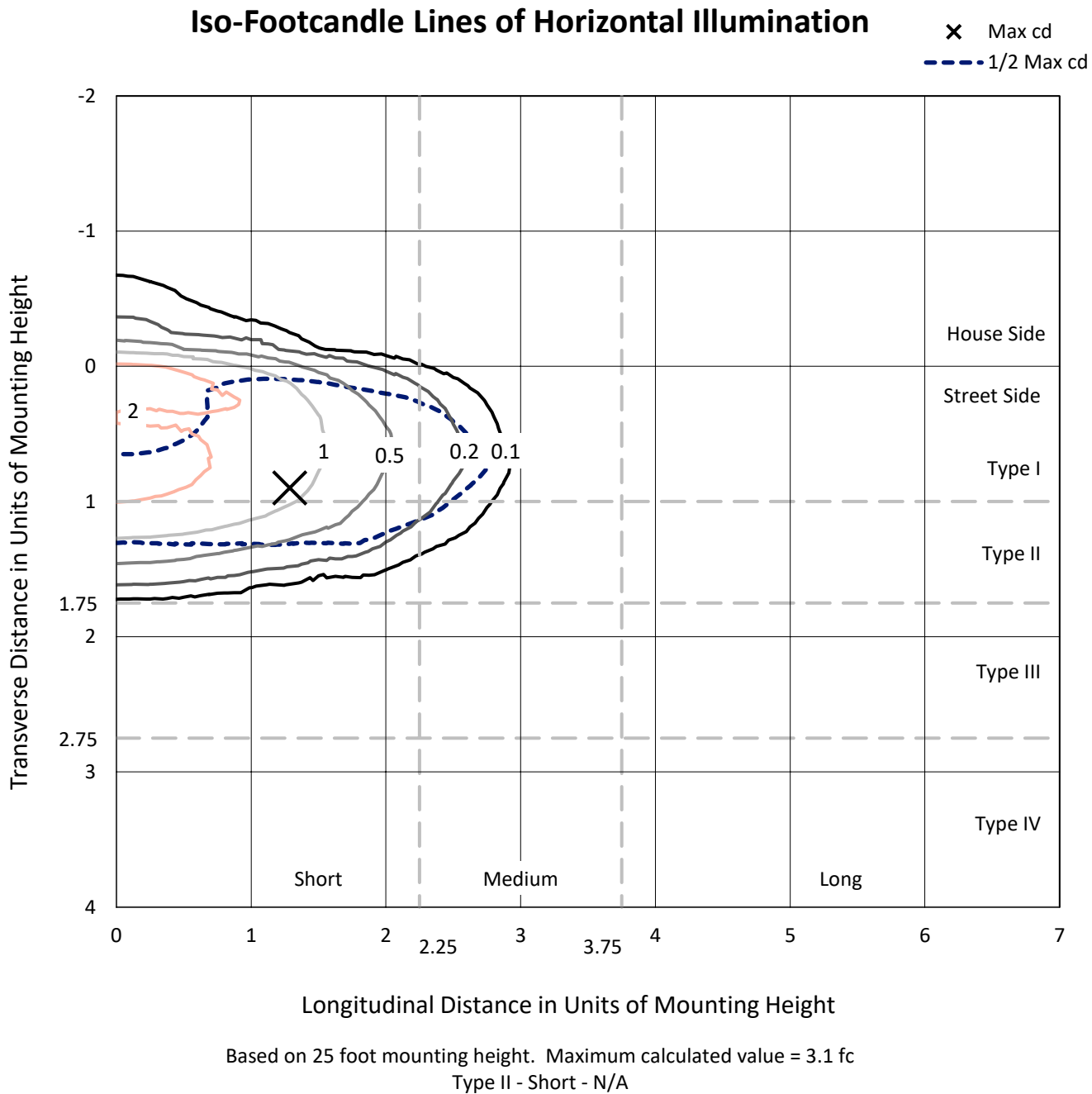
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5692.8 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

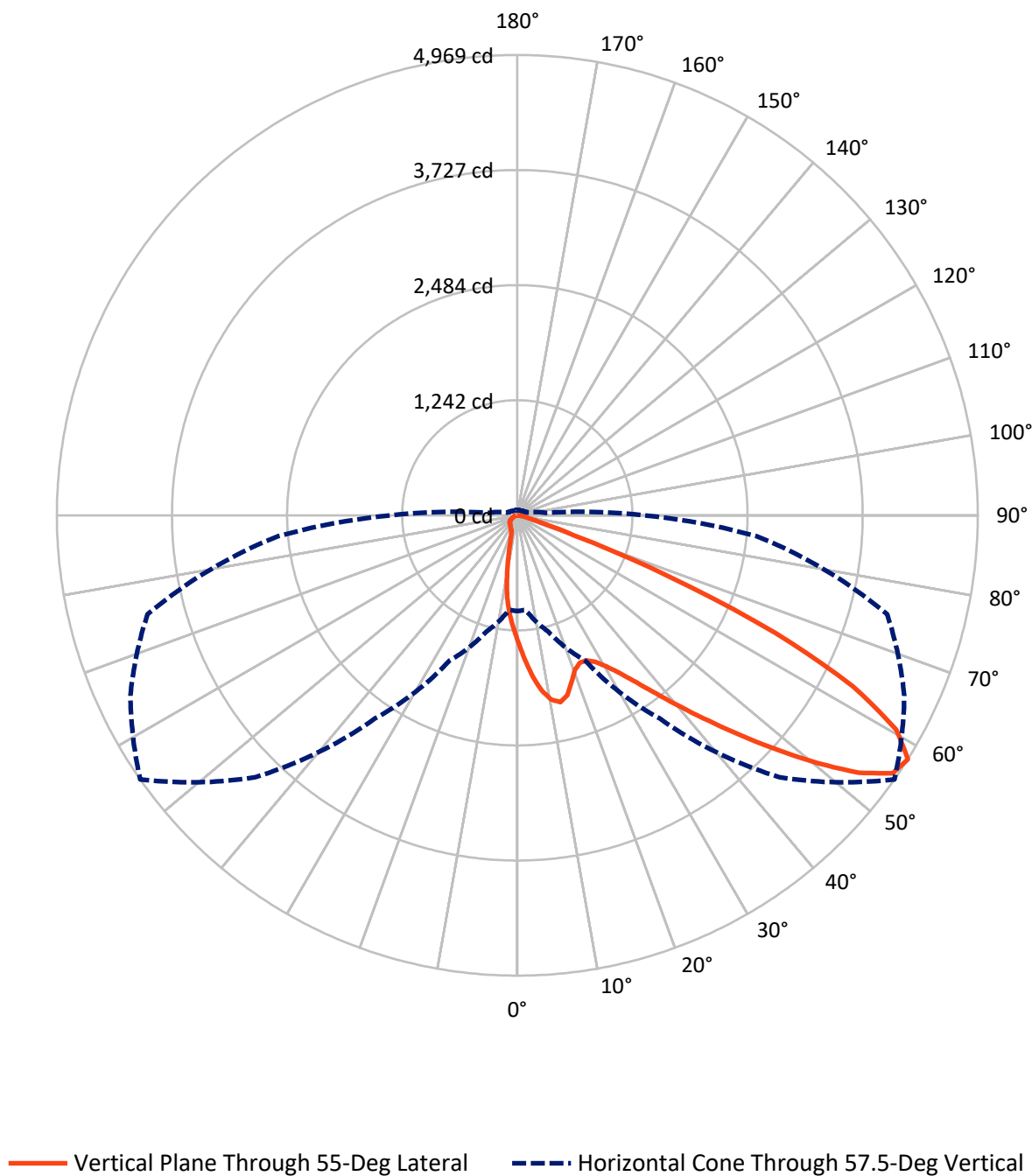


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Luminous Intensity Polar Plot



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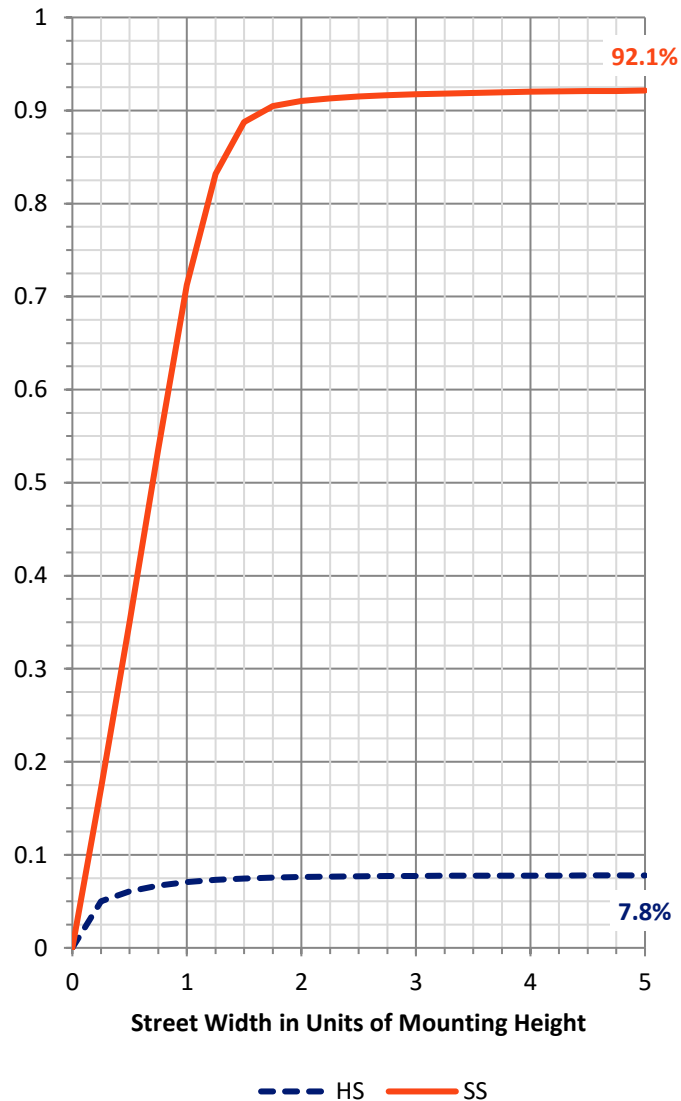
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.6	0.0	444.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	5248.3	0.0	5248.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	5692.8	0.0	5692.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	2.2
10°-20°	308.3	5.4
20°-30°	493.3	8.7
30°-40°	835.0	14.7
40°-50°	1370.8	24.1
50°-60°	1506.6	26.5
60°-70°	864.2	15.2
70°-80°	176.6	3.1
80°-90°	10.4	0.2
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°	5692.8	100.0
0°-180°	5692.8	100.0

Coefficient of Utilization



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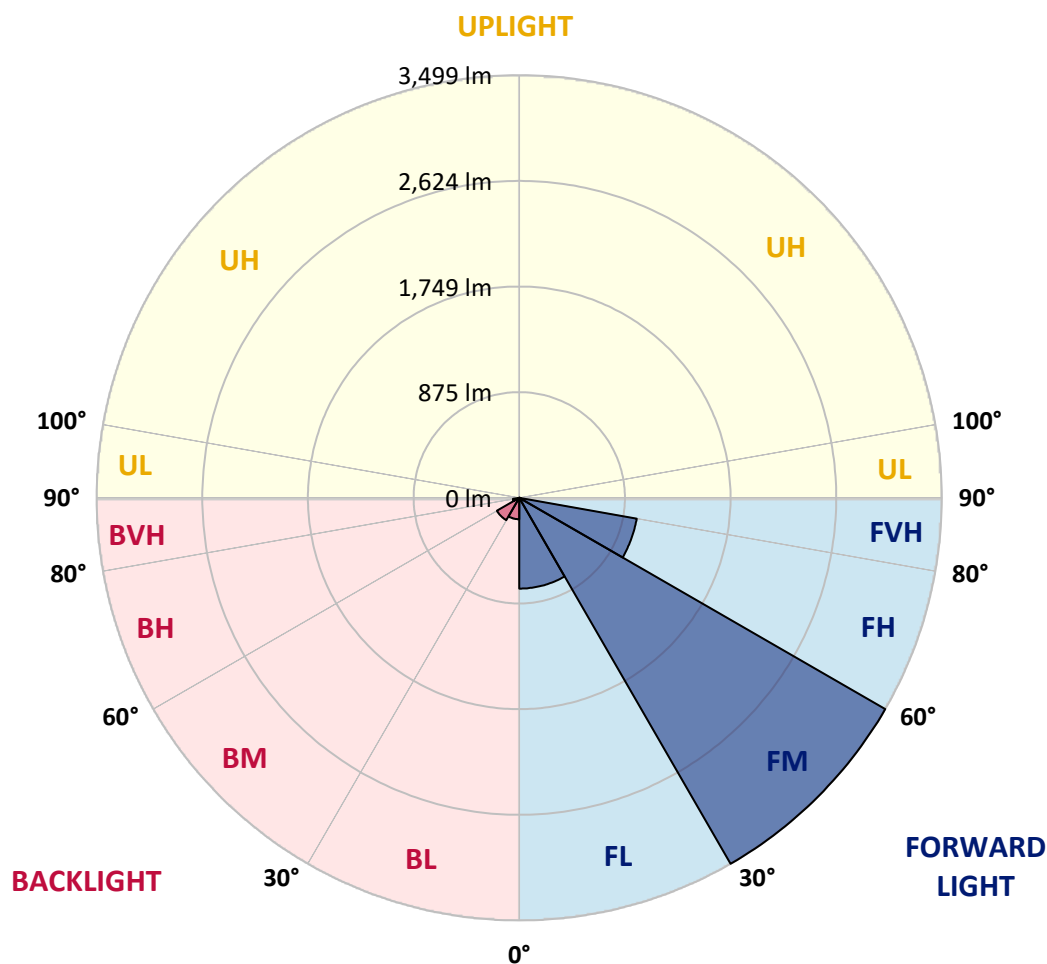
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	751.8	13.2			
FM	(30°-60°)	3498.9	61.5			
FH	(60°-80°)	987.9	17.4			G1/1800
FVH	(80°-90°)	9.7	0.2			G0/10
BL	(0°-30°)	177.5	3.1	B1/500		
BM	(30°-60°)	213.5	3.8	B0/220		
BH	(60°-80°)	52.9	0.9	B0/110		G0/110
BVH	(80°-90°)	0.7	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9
2.5°	1702.1	1680.8	1677.6	1673.4	1632.6	1602.1	1557.9	1509.4	1455.0	1399.5	1375.0
5°	1966.5	1949.7	1946.5	1926.8	1880.5	1828.5	1749.9	1650.6	1549.1	1429.8	1378.5
7.5°	2017.7	2014.5	2029.0	2028.3	2021.9	1980.9	1914.5	1796.2	1643.9	1467.0	1387.6
10°	1789.2	1797.3	1840.1	1877.7	1979.2	2038.1	2023.7	1926.1	1741.5	1509.4	1397.8
12.5°	1581.1	1571.5	1602.1	1644.6	1762.5	1938.1	2069.0	2034.6	1853.1	1557.5	1412.9
15°	1450.5	1446.6	1463.8	1483.5	1573.4	1750.3	2016.4	2122.7	1960.5	1614.4	1435.7
17.5°	1408.7	1405.6	1410.8	1415.7	1473.9	1610.9	1891.0	2176.8	2063.3	1679.4	1461.0
20°	1442.8	1438.5	1437.9	1434.0	1458.2	1551.5	1777.7	2180.6	2155.7	1738.3	1482.8
22.5°	1542.1	1537.2	1520.0	1504.5	1506.6	1559.6	1727.1	2142.0	2225.2	1793.4	1496.5
25°	1722.2	1714.1	1678.3	1626.4	1593.4	1615.8	1734.8	2091.1	2291.6	1836.6	1489.7
27.5°	1947.5	1937.0	1891.0	1813.7	1738.3	1710.9	1790.6	2056.0	2346.6	1869.6	1475.4
30°	2168.3	2154.7	2109.3	2049.3	1939.1	1852.8	1891.3	2071.4	2412.3	1904.0	1456.4
32.5°	2406.7	2393.7	2333.6	2259.2	2168.0	2051.7	2029.3	2147.0	2492.7	1952.1	1443.1
35°	2708.3	2687.9	2602.6	2501.1	2404.2	2286.7	2216.0	2277.1	2599.7	2025.5	1450.5
37.5°	3051.5	3024.2	2932.2	2792.1	2665.7	2534.1	2443.5	2456.2	2756.6	2123.8	1473.3
40°	3375.2	3350.2	3265.3	3133.3	2974.7	2815.0	2718.4	2690.3	2973.2	2243.4	1513.3
42.5°	3569.3	3546.8	3511.0	3455.2	3321.5	3158.6	3036.8	2976.1	3229.5	2386.7	1562.1
45°	3580.2	3560.5	3608.6	3673.6	3647.3	3538.8	3390.3	3279.0	3486.8	2521.1	1612.6
47.5°	3406.1	3392.7	3538.8	3765.5	3878.6	3924.2	3787.3	3556.6	3699.2	2617.6	1633.3
50°	2931.5	2926.6	3227.0	3643.4	3966.6	4261.8	4206.1	3815.0	3863.8	2667.5	1613.7
52.5°	2541.8	2524.0	2699.1	3252.3	3838.5	4439.5	4615.4	4068.4	3978.9	2677.0	1567.7
55°	1927.9	1912.0	2131.8	2598.0	3425.3	4376.3	4914.8	4330.0	4061.5	2652.8	1485.2
57.5°	1034.1	1024.3	1302.0	1729.2	2677.7	3997.2	4968.9	4606.6	4131.0	2588.5	1369.7
60°	402.6	400.9	504.8	839.0	1627.4	3252.0	4696.1	4772.6	4174.5	2509.5	1273.2
62.5°	243.6	248.9	265.8	376.7	718.9	2020.2	4067.4	4583.8	4203.6	2437.2	1193.5
65°	201.5	201.8	204.0	258.7	344.4	845.3	3062.1	3962.4	4131.7	2308.4	1080.5
67.5°	172.7	175.9	184.0	205.3	242.9	370.6	1762.9	3069.5	3693.9	2008.6	904.3
70°	136.2	140.4	150.6	168.8	187.5	232.1	651.5	2042.3	2821.9	1514.0	683.8
72.5°	114.8	114.4	119.7	137.2	148.8	163.2	250.6	1144.4	1640.0	722.7	338.4
75°	88.8	92.4	99.0	114.8	121.8	118.3	135.8	418.1	587.6	219.0	115.1
77.5°	69.5	72.3	78.3	93.7	100.8	83.9	78.3	149.5	188.8	78.6	52.0
80°	31.3	33.7	53.4	69.2	82.1	57.9	42.4	76.6	83.9	35.8	26.3
82.5°	5.6	9.4	31.3	36.5	42.1	37.5	22.1	39.7	41.1	14.3	9.1
85°	0.3	0.7	10.9	13.3	16.8	12.3	6.7	15.8	13.7	4.9	3.5
87.5°	0.0	0.0	0.0	0.3	0.3	1.7	2.2	2.8	2.2	1.7	1.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9
2.5°	1349.7	1299.9	1251.4	1211.8	1188.6	1149.3	1123.3	1119.1	1108.2	1117.7
5°	1323.8	1234.6	1144.4	1063.6	997.3	911.6	847.8	820.7	797.2	805.2
7.5°	1311.5	1170.7	1030.3	892.4	750.5	613.6	511.8	469.3	437.1	441.6
10°	1295.0	1104.3	884.3	673.6	483.7	348.6	278.4	252.4	238.0	238.3
12.5°	1282.3	1025.0	714.7	456.7	294.5	222.5	200.8	194.4	190.2	190.6
15°	1276.0	931.6	547.2	304.3	210.6	188.5	183.3	180.4	177.6	177.2
17.5°	1265.5	827.7	400.6	222.2	184.3	176.6	172.0	168.8	165.3	164.6
20°	1249.7	709.8	292.7	187.8	172.7	166.8	160.4	156.2	152.0	151.3
22.5°	1220.6	585.2	225.0	173.7	164.3	157.6	149.9	144.9	140.7	140.0
25°	1166.4	468.3	189.5	165.0	156.9	148.8	140.4	133.8	129.9	129.1
27.5°	1098.0	367.9	172.0	156.9	147.4	140.0	130.6	124.2	120.7	120.0
30°	1017.3	283.3	161.8	147.8	136.2	129.9	121.5	116.2	114.1	114.1
32.5°	930.2	226.4	157.6	138.7	126.4	119.3	112.6	110.6	109.9	109.6
35°	848.5	196.6	155.5	131.3	117.6	110.9	108.1	108.4	109.9	109.9
37.5°	775.8	187.1	154.5	126.0	109.9	103.9	105.7	108.9	107.4	107.4
40°	710.1	188.2	153.8	122.2	103.5	100.0	103.5	101.1	97.6	97.3
42.5°	659.9	196.9	152.3	119.0	99.7	97.3	95.8	91.9	91.6	92.4
45°	623.4	204.7	152.0	117.6	95.5	90.9	89.2	85.3	92.4	94.1
47.5°	580.3	204.7	152.0	112.6	88.5	86.7	83.9	79.6	86.7	88.5
50°	524.5	191.7	146.1	107.1	82.8	81.8	76.9	71.6	70.2	71.2
52.5°	453.9	168.1	130.9	99.3	77.2	75.1	69.2	65.3	64.3	64.3
55°	373.5	140.7	110.6	88.1	71.2	67.4	63.1	61.4	60.4	59.7
57.5°	303.6	115.5	88.8	78.3	65.6	60.7	59.3	57.2	55.5	54.4
60°	249.3	90.9	73.4	69.5	60.1	55.5	55.1	52.3	47.8	47.0
62.5°	192.4	66.7	61.8	60.4	54.4	50.5	49.8	44.3	37.2	35.8
65°	135.8	52.0	49.8	53.0	48.5	44.9	43.2	34.7	27.4	26.3
67.5°	95.5	43.6	39.4	46.3	42.1	37.5	36.5	29.5	22.9	22.1
70°	68.1	35.5	32.3	39.7	33.7	33.0	30.9	24.6	18.7	17.9
72.5°	48.1	27.1	24.9	34.4	23.2	28.4	25.3	19.0	14.0	13.3
75°	35.5	19.3	17.5	20.0	16.8	21.4	17.9	12.6	8.8	8.4
77.5°	25.9	12.3	10.6	9.8	9.8	13.3	9.8	5.2	3.9	3.5
80°	18.2	5.6	4.9	4.2	3.9	3.2	1.4	0.7	0.3	0.3
82.5°	10.9	2.5	2.5	1.7	1.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.3	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

(END OF REPORT)