

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: P962500

Luminaire Tested: **NAV-SB2C-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12296.9 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 100.9
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

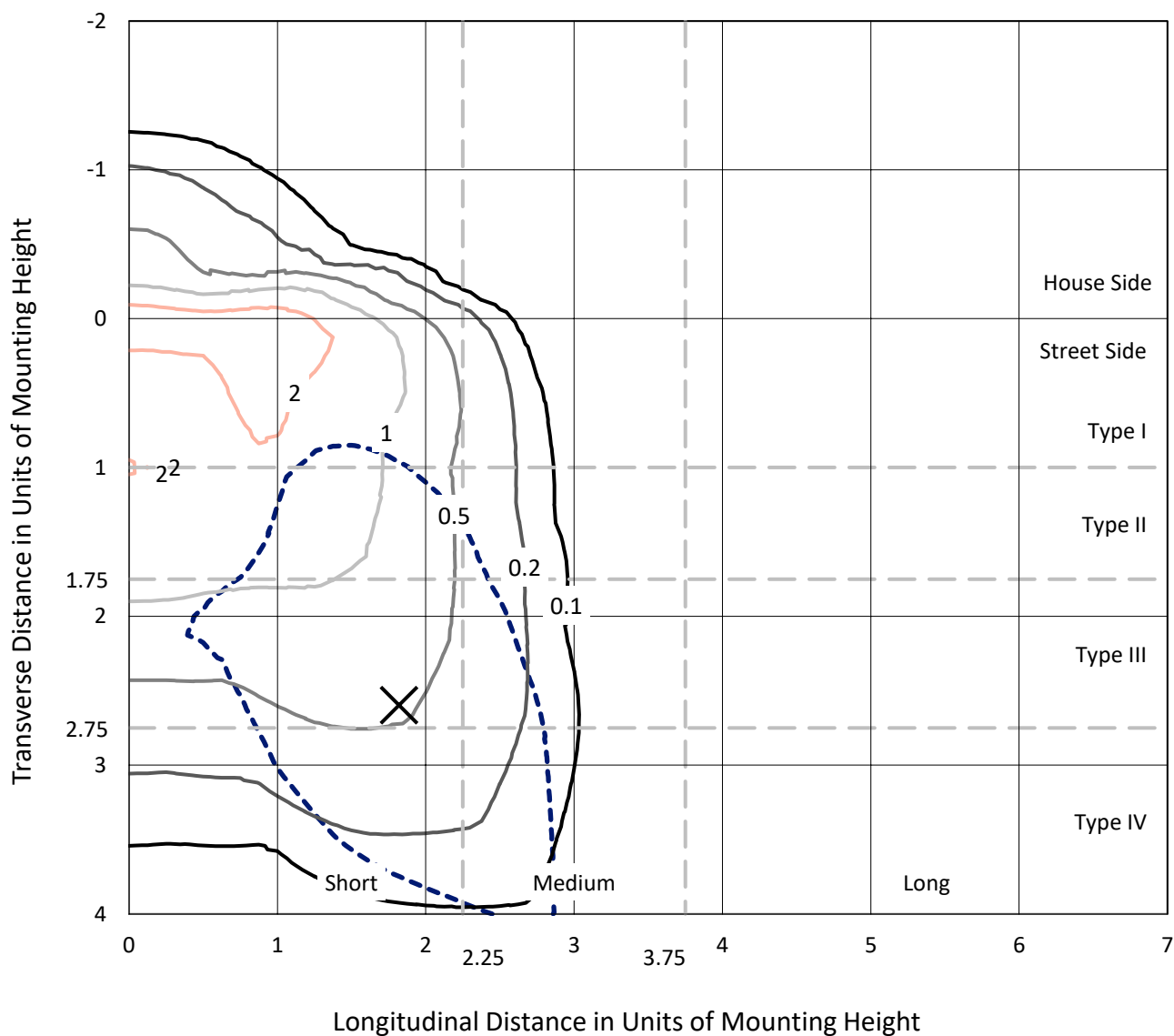


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Iso-Footcandle Lines of Horizontal Illumination

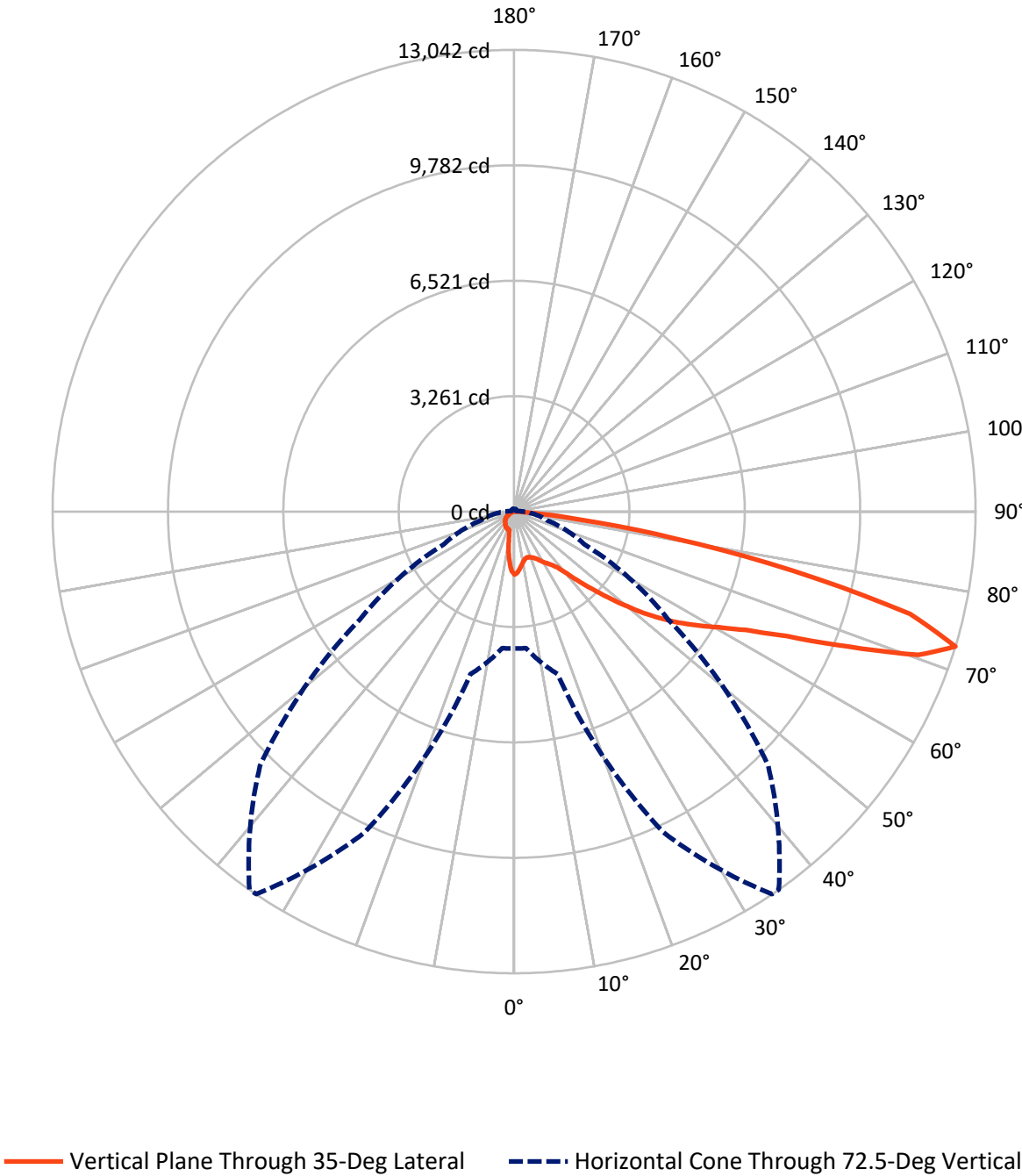
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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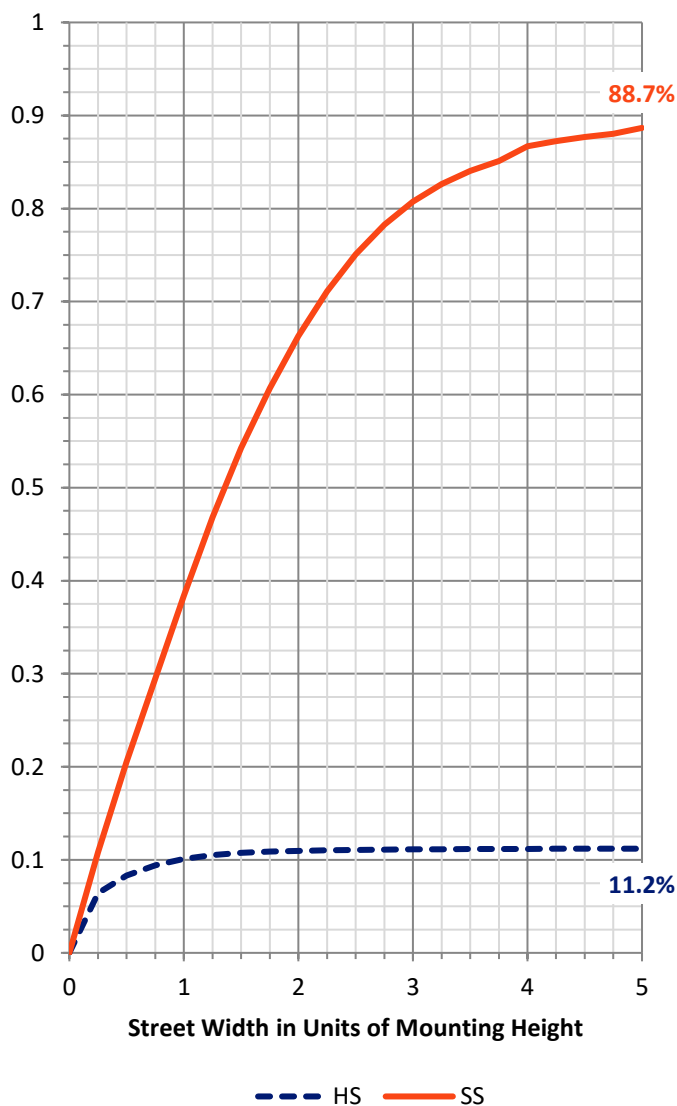
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.0	0.0	1384.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10913.0	0.0	10913.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	12296.9	0.0	12296.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	1.2
10°-20°	342.6	2.8
20°-30°	556.6	4.5
30°-40°	928.6	7.6
40°-50°	1757.0	14.3
50°-60°	2791.8	22.7
60°-70°	3453.7	28.1
70°-80°	2146.8	17.5
80°-90°	173.5	1.4
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°	12296.9	100.0
0°-180°	12296.9	100.0

Coefficient of Utilization



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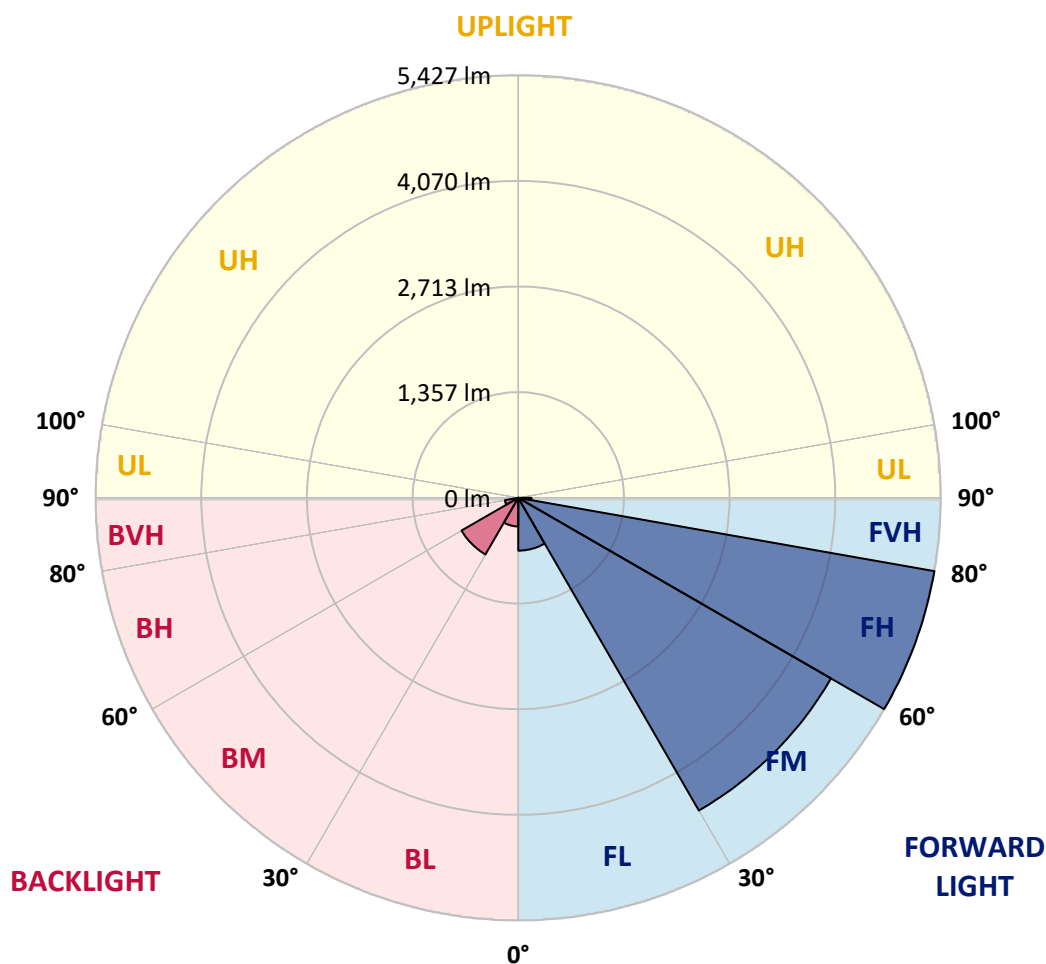
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	677.9	5.5			
FM	(30°-60°)	4637.2	37.7			
FH	(60°-80°)	5426.8	44.1			G3/7500
FVH	(80°-90°)	171.1	1.4			G2/225
BL	(0°-30°)	367.7	3.0	B1/500		
BM	(30°-60°)	840.2	6.8	B1/1000		
BH	(60°-80°)	173.7	1.4	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3
2.5°	1702.9	1717.4	1720.1	1724.6	1724.6	1730.0	1739.0	1751.6	1772.3	1783.1	1790.4
5°	1569.6	1580.4	1593.9	1604.7	1625.4	1628.1	1663.3	1697.5	1745.3	1781.3	1806.6
7.5°	1435.3	1447.9	1466.0	1492.1	1519.2	1527.2	1580.4	1638.1	1713.8	1781.3	1823.7
10°	1340.7	1341.6	1357.8	1384.0	1427.2	1437.2	1502.0	1584.0	1678.6	1770.5	1839.9
12.5°	1287.6	1293.9	1301.1	1320.9	1362.3	1368.7	1438.1	1534.4	1643.5	1764.2	1858.8
15°	1287.6	1292.1	1296.6	1306.5	1339.9	1345.2	1406.5	1503.0	1625.4	1766.9	1889.5
17.5°	1301.1	1308.3	1304.7	1316.4	1351.6	1355.2	1409.2	1493.9	1624.5	1784.0	1936.3
20°	1333.5	1339.0	1331.7	1339.0	1374.1	1381.3	1437.2	1511.1	1639.9	1813.7	1994.9
22.5°	1384.9	1387.5	1370.4	1375.9	1411.9	1421.0	1485.8	1559.6	1676.8	1861.5	2073.3
25°	1449.8	1455.2	1429.1	1435.3	1469.5	1480.4	1555.1	1632.6	1735.4	1927.3	2173.3
27.5°	1524.6	1527.2	1504.7	1503.8	1548.0	1563.3	1639.0	1722.8	1813.7	2010.2	2299.4
30°	1610.2	1618.3	1596.6	1593.1	1648.9	1661.5	1736.2	1833.6	1929.2	2134.6	2478.8
32.5°	1677.7	1684.1	1671.4	1680.4	1737.2	1747.1	1854.3	1990.3	2110.2	2311.2	2722.9
35°	1775.0	1778.7	1749.8	1766.0	1830.9	1856.1	2015.6	2210.2	2338.1	2532.8	3041.9
37.5°	2127.3	2127.3	2004.8	1924.6	1986.8	2009.3	2236.3	2486.9	2619.3	2830.1	3443.7
40°	2614.8	2606.7	2427.4	2263.4	2255.3	2299.4	2550.8	2835.6	2982.4	3186.9	3896.0
42.5°	3134.7	3122.0	2877.9	2715.7	2688.7	2704.0	2914.0	3265.3	3414.9	3622.1	4382.6
45°	3596.0	3592.4	3369.0	3150.8	3102.3	3150.8	3367.1	3768.1	3875.3	4093.3	4868.2
47.5°	3982.5	3982.5	3819.5	3677.1	3651.9	3680.7	3980.8	4325.8	4316.0	4595.3	5341.3
50°	4427.7	4424.1	4269.1	4207.8	4234.0	4274.5	4687.1	4913.3	4771.9	5088.1	5763.9
52.5°	4739.4	4761.0	4707.9	4698.0	4831.3	4901.7	5404.4	5488.2	5180.0	5555.7	6080.2
55°	4986.3	5011.5	5072.8	5142.2	5399.0	5490.9	6099.1	6033.3	5521.5	5961.2	6262.1
57.5°	5335.9	5299.9	5394.5	5531.4	5946.8	6057.6	6772.2	6547.8	5796.4	6290.1	6282.0
60°	5760.3	5765.7	5781.9	5954.9	6493.7	6636.1	7435.2	7034.4	5972.9	6491.9	6062.2
62.5°	6270.2	6278.3	6311.7	6577.5	7228.1	7362.3	8141.7	7432.6	6054.1	6435.2	5494.5
65°	6235.1	6269.4	6641.5	7550.7	8344.4	8476.9	8966.2	7711.9	5931.5	5916.2	4473.6
67.5°	5680.1	5736.0	6358.6	8712.9	10027.6	10175.3	9962.7	7766.8	5402.6	4600.6	2918.5
70°	4952.1	4971.9	5720.6	9758.1	11976.5	12126.1	10854.7	7162.3	4099.7	2566.1	1307.4
72.5°	3867.2	3871.7	4750.3	10000.5	13034.3	13042.4	10154.6	5317.0	2204.8	985.7	454.1
75°	2762.6	2735.5	3181.5	8110.2	11467.4	11559.3	7612.8	2494.0	842.4	465.9	226.1
77.5°	1481.3	1511.1	1800.2	4809.7	7921.8	8078.6	4153.7	719.0	428.9	317.1	149.5
80°	457.8	483.0	737.9	2202.1	4487.1	4581.8	1539.9	319.9	299.1	226.1	98.2
82.5°	144.1	149.5	344.2	925.4	1862.4	1905.7	446.0	181.1	204.5	149.5	57.7
85°	41.4	42.3	153.1	345.1	460.4	469.4	125.3	70.3	117.2	92.8	29.7
87.5°	4.5	14.5	57.7	57.7	40.6	39.7	13.5	15.3	33.3	11.7	5.4
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°	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3	1782.3
2.5°	1785.9	1786.8	1775.0	1755.2	1733.6	1715.5	1693.0	1675.1	1662.4	1658.8	1665.1
5°	1798.5	1792.1	1758.8	1698.4	1626.4	1564.1	1494.8	1439.8	1403.8	1388.5	1393.9
7.5°	1817.4	1799.4	1726.4	1607.4	1469.5	1347.1	1222.7	1126.3	1065.0	1034.4	1038.8
10°	1833.6	1797.5	1672.3	1475.9	1265.1	1079.4	911.8	795.6	730.7	700.1	701.0
12.5°	1848.9	1796.6	1602.1	1320.0	1034.4	807.3	651.5	593.8	575.7	569.5	567.6
15°	1877.7	1799.4	1513.7	1141.6	804.6	610.0	553.2	552.4	556.0	554.1	553.2
17.5°	1917.4	1802.1	1413.7	952.4	620.8	537.9	535.3	543.4	548.7	546.0	545.1
20°	1968.7	1812.9	1307.4	765.0	533.4	519.9	526.2	533.4	537.9	533.4	532.5
22.5°	2040.9	1831.8	1191.2	614.5	505.4	509.1	514.4	522.6	527.1	520.8	519.9
25°	2129.1	1861.5	1076.8	534.3	492.0	496.5	504.6	513.6	519.0	512.7	511.8
27.5°	2243.5	1909.3	971.3	516.3	478.5	481.1	492.8	506.4	513.6	505.4	505.4
30°	2409.4	1987.7	880.3	524.4	470.4	464.0	480.2	499.2	507.3	500.1	499.2
32.5°	2629.2	2098.5	824.4	537.0	466.7	444.2	459.5	483.9	497.3	492.8	492.8
35°	2917.6	2267.0	802.8	551.4	464.0	423.5	434.3	460.4	483.9	488.3	488.3
37.5°	3267.1	2501.3	809.1	557.7	455.9	406.4	411.7	434.3	464.9	479.4	483.0
40°	3664.5	2774.3	845.2	551.4	446.9	392.0	392.9	410.0	437.0	458.6	465.9
42.5°	4074.5	3093.2	911.8	528.0	438.8	379.4	376.6	388.4	406.4	421.7	428.0
45°	4464.6	3421.2	977.6	495.6	428.9	366.7	360.4	364.9	368.5	374.8	378.4
47.5°	4805.2	3651.9	958.7	465.9	415.3	352.3	341.5	339.7	328.9	328.0	327.1
50°	5040.3	3702.3	851.5	436.1	395.5	336.1	319.0	308.1	289.3	280.2	281.2
52.5°	5115.2	3503.2	695.6	406.4	363.2	314.5	290.2	273.1	249.6	241.5	240.6
55°	5016.0	3113.0	556.0	370.3	318.1	285.7	258.6	236.1	217.2	207.3	207.3
57.5°	4773.6	2616.6	439.7	328.0	270.3	253.2	226.1	203.7	187.4	177.5	175.7
60°	4371.8	2077.8	347.8	277.5	230.6	218.0	190.1	175.7	161.3	149.5	146.9
62.5°	3761.7	1483.1	273.1	219.9	192.8	178.5	162.2	151.4	134.3	118.1	115.3
65°	2935.6	907.3	210.8	161.3	155.0	147.8	137.9	127.9	107.2	91.0	88.3
67.5°	1851.7	429.8	150.5	121.7	122.6	118.9	114.4	106.3	91.0	76.6	74.8
70°	815.4	208.2	99.1	92.8	91.0	91.0	94.6	91.9	77.5	64.0	61.3
72.5°	277.5	111.7	73.9	70.3	65.8	64.9	79.3	76.6	62.2	49.5	46.8
75°	145.0	74.8	54.0	50.4	39.7	47.8	63.0	59.4	44.2	32.4	29.7
77.5°	94.6	53.2	36.9	32.4	22.5	31.6	46.8	41.4	26.1	16.2	14.5
80°	59.4	35.2	21.6	15.3	10.8	17.1	25.2	18.0	9.9	3.6	2.7
82.5°	31.6	18.0	8.1	5.4	4.5	5.4	6.4	4.5	1.8	0.0	0.0
85°	12.6	6.4	2.7	1.8	0.9	0.0	1.8	0.9	0.0	0.0	0.0
87.5°	4.5	0.9	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)