

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: P962524

Luminaire Tested: **NAV-SB2C-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-750-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12412.8 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

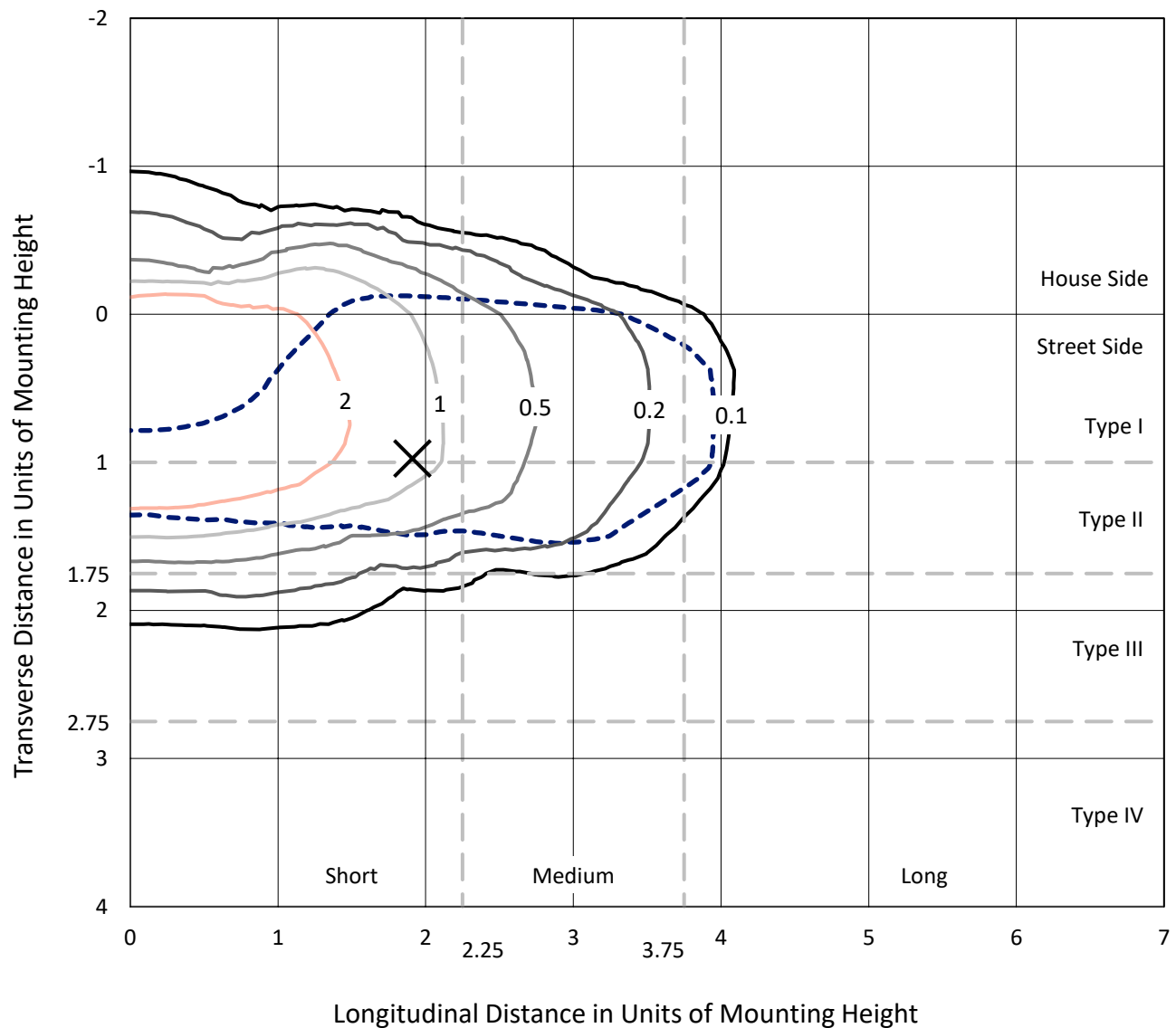


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Iso-Footcandle Lines of Horizontal Illumination

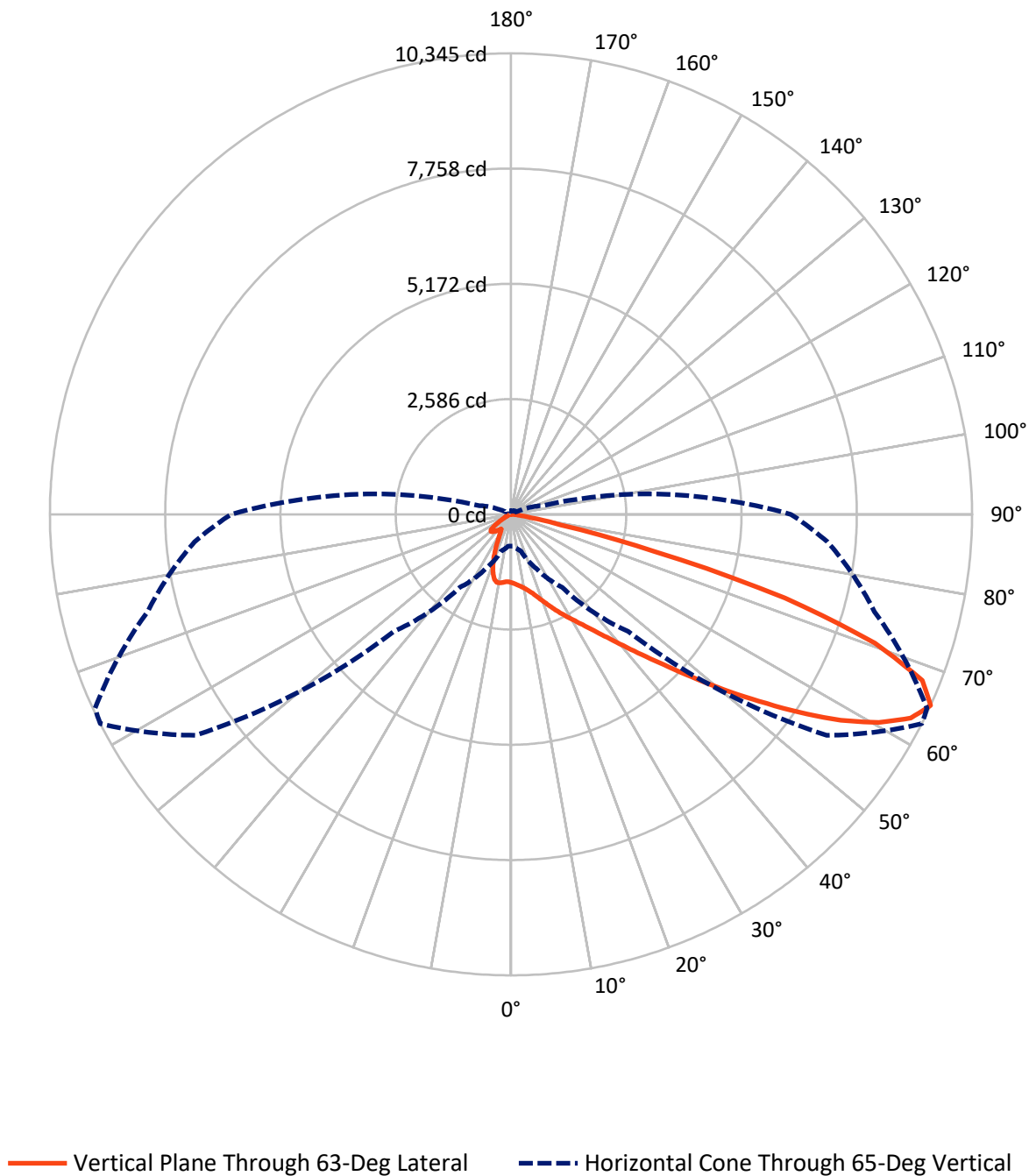
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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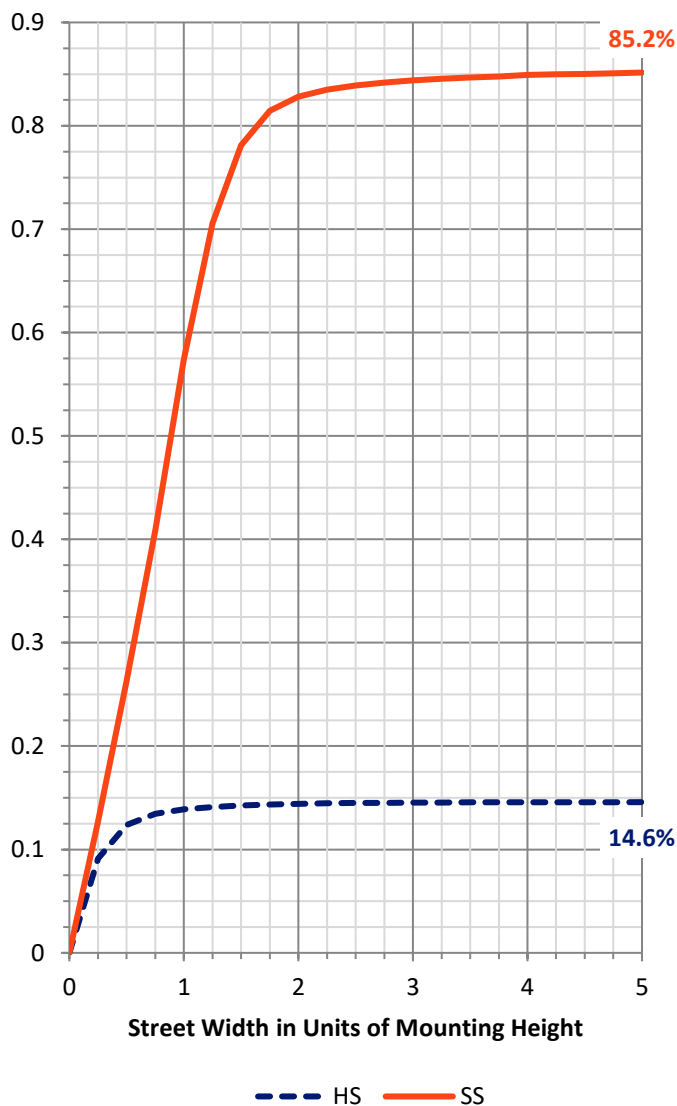
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1824.6	0.0	1824.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	10588.2	0.0	10588.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	12412.8	0.0	12412.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	1.2
10°-20°	400.5	3.2
20°-30°	697.4	5.6
30°-40°	1256.9	10.1
40°-50°	2492.9	20.1
50°-60°	3395.7	27.4
60°-70°	2710.4	21.8
70°-80°	1226.5	9.9
80°-90°	88.2	0.7
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°	12412.8	100.0
0°-180°	12412.8	100.0

Coefficient of Utilization



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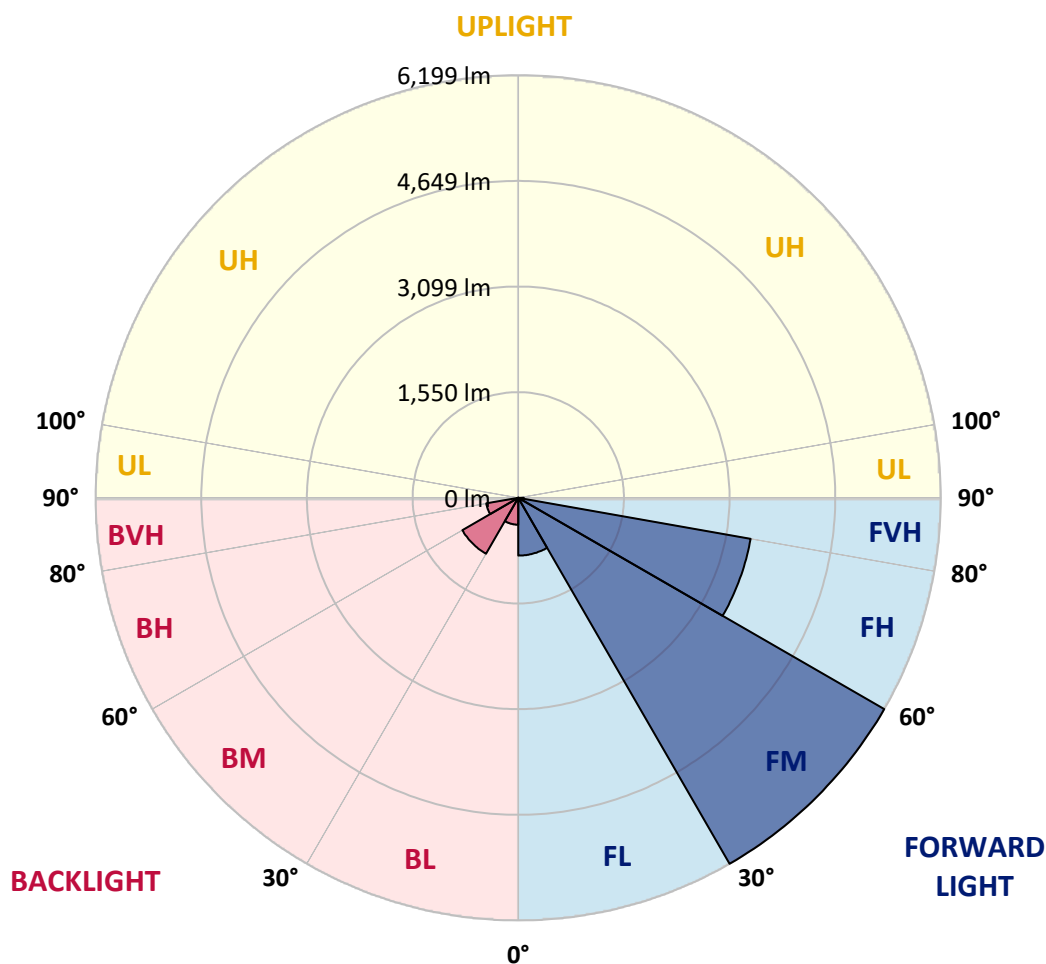
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	847.3	6.8			
FM	(30°-60°)	6198.6	49.9			
FH	(60°-80°)	3460.6	27.9			G2/5000
FVH	(80°-90°)	81.6	0.7			G1/100
BL	(0°-30°)	394.9	3.2	B1/500		
BM	(30°-60°)	946.9	7.6	B1/1000		
BH	(60°-80°)	476.3	3.8	B1/500		G1/500
BVH	(80°-90°)	6.5	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0
2.5°	1567.8	1563.5	1569.6	1567.0	1565.3	1561.9	1560.2	1558.4	1555.0	1552.5	1542.2
5°	1572.1	1569.6	1575.5	1580.7	1585.8	1590.9	1593.5	1596.8	1593.5	1586.6	1576.3
7.5°	1536.3	1534.5	1547.3	1562.7	1585.8	1605.5	1626.8	1638.7	1639.6	1637.0	1625.9
10°	1533.7	1529.4	1542.2	1561.0	1590.9	1625.9	1663.5	1689.1	1692.5	1703.7	1691.7
12.5°	1573.8	1569.6	1587.5	1607.9	1638.7	1675.5	1721.6	1757.4	1762.5	1777.9	1769.4
15°	1641.2	1635.3	1655.8	1682.2	1721.6	1763.4	1812.1	1844.5	1848.8	1867.5	1852.2
17.5°	1719.8	1713.9	1737.8	1766.0	1808.6	1865.8	1922.2	1958.1	1963.2	1975.2	1947.0
20°	1820.6	1812.9	1831.7	1857.3	1902.6	1970.9	2038.3	2089.6	2088.7	2088.7	2042.6
22.5°	1937.6	1925.7	1941.9	1962.4	2005.0	2087.9	2177.5	2238.2	2238.2	2214.3	2138.3
25°	2063.1	2051.1	2069.1	2087.9	2125.4	2219.4	2324.4	2399.5	2403.0	2362.0	2240.8
27.5°	2220.3	2204.9	2218.5	2240.8	2262.9	2358.6	2483.3	2570.4	2572.0	2508.9	2338.1
30°	2522.5	2479.0	2436.3	2412.3	2422.6	2517.4	2650.6	2747.1	2755.7	2668.6	2444.0
32.5°	3075.9	3067.3	2917.0	2720.7	2618.2	2688.2	2837.6	2953.7	2958.9	2847.0	2581.5
35°	3935.8	3925.5	3683.8	3309.8	2976.0	2917.0	3064.7	3202.3	3198.8	3072.4	2759.9
37.5°	4962.2	4952.8	4634.3	4133.9	3593.3	3262.9	3357.7	3502.0	3523.3	3357.7	2990.5
40°	5839.2	5804.3	5602.6	5120.2	4413.1	3836.8	3774.5	3870.1	3892.2	3695.8	3283.4
42.5°	6503.6	6473.7	6371.2	6069.8	5405.4	4685.6	4265.4	4302.1	4326.9	4091.2	3619.9
45°	6847.7	6841.0	6881.8	6853.8	6416.5	5727.4	4967.4	4814.5	4823.9	4529.3	4001.6
47.5°	6896.4	6893.0	7080.0	7344.7	7285.8	6902.4	5868.2	5453.3	5420.0	5023.7	4416.6
50°	6609.5	6602.6	6961.3	7457.5	7866.5	7889.5	6891.3	6173.2	6099.7	5535.2	4849.5
52.5°	5693.3	5691.5	6280.7	7106.5	8070.5	8753.7	7902.3	6963.8	6841.0	6076.6	5307.2
55°	4380.7	4412.3	5087.8	6063.8	7698.3	9169.6	8810.1	7841.8	7653.0	6621.4	5729.0
57.5°	3103.2	3149.3	3817.1	4686.4	6543.7	8923.6	9424.1	8721.3	8518.1	7164.5	6156.9
60°	1666.9	1707.9	2376.6	3414.1	4868.3	8006.6	9747.8	9484.7	9292.5	7680.3	6542.9
62.5°	993.1	1006.8	1283.5	2204.1	3292.8	6116.8	9610.2	10066.2	9908.3	8113.3	6878.5
65°	713.0	715.6	854.7	1345.8	1999.1	3716.3	8646.2	10344.6	10295.9	8439.4	7127.0
67.5°	600.3	598.6	656.7	894.1	1362.0	1861.6	6626.5	9951.0	10157.6	8646.2	7267.9
70°	515.0	517.5	585.8	655.0	1023.9	1053.8	3294.5	8664.1	9104.7	8700.8	7259.4
72.5°	383.5	392.0	455.1	596.9	772.8	725.0	1137.4	6424.2	7220.9	8197.8	6882.8
75°	270.7	275.0	320.2	502.1	576.5	527.8	580.7	3321.0	4342.3	6285.0	5633.4
77.5°	208.4	216.1	242.5	351.0	567.8	370.6	355.3	1149.4	1766.0	3796.6	3862.4
80°	112.7	126.4	175.1	253.6	398.8	262.2	175.9	457.7	598.6	1775.3	1489.2
82.5°	58.1	64.9	122.1	182.8	227.1	228.9	87.1	190.4	246.8	548.3	204.1
85°	23.1	28.2	82.0	100.8	117.0	112.7	39.3	76.9	88.8	152.0	62.3
87.5°	5.1	8.5	29.9	23.1	22.2	23.9	9.4	17.9	17.1	17.9	11.1
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°	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0	1532.0
2.5°	1541.4	1537.9	1528.6	1518.3	1506.3	1499.5	1495.3	1494.3	1488.4	1484.1	1488.4
5°	1567.0	1563.5	1545.6	1524.3	1501.2	1483.3	1466.3	1450.9	1428.6	1424.3	1422.7
7.5°	1618.2	1608.8	1579.8	1550.7	1507.2	1455.1	1391.9	1319.4	1254.4	1234.8	1225.4
10°	1681.4	1668.6	1631.9	1580.7	1484.1	1342.4	1189.5	1047.8	935.1	903.4	891.5
12.5°	1753.2	1742.0	1693.4	1598.6	1387.6	1130.6	896.7	720.7	611.4	584.0	576.5
15°	1838.5	1822.3	1754.8	1571.2	1215.1	859.1	615.7	511.5	472.2	467.1	462.0
17.5°	1929.0	1902.6	1809.5	1473.0	982.9	610.6	475.6	445.8	428.7	423.5	421.0
20°	2011.9	1977.7	1841.9	1324.5	734.4	475.6	426.1	406.5	391.1	385.1	381.7
22.5°	2094.7	2046.0	1841.9	1122.1	550.8	421.9	391.1	373.2	355.3	347.6	343.3
25°	2181.0	2116.1	1809.5	896.7	443.2	386.8	357.8	338.1	322.8	313.4	310.0
27.5°	2264.6	2174.9	1735.2	683.2	394.5	356.1	327.1	308.3	293.8	286.9	286.9
30°	2344.1	2233.1	1631.0	518.3	363.0	326.2	298.9	282.7	268.1	261.3	262.2
32.5°	2451.7	2306.5	1520.0	425.3	335.6	298.1	273.3	257.9	245.1	240.0	240.0
35°	2601.1	2414.9	1424.3	417.6	312.5	275.0	250.2	235.6	222.8	218.6	218.6
37.5°	2812.9	2590.0	1374.0	468.8	293.8	254.5	231.4	216.1	204.1	200.7	199.8
40°	3074.2	2827.4	1401.3	520.1	281.0	236.6	214.3	199.0	188.7	184.5	183.6
42.5°	3384.1	3120.3	1552.5	559.3	272.4	221.2	198.1	181.0	174.2	172.5	172.5
45°	3740.2	3442.3	1783.9	601.2	258.7	206.6	181.9	169.1	164.0	163.1	162.3
47.5°	4145.0	3795.8	2052.0	653.2	245.1	193.0	169.1	160.5	156.3	154.6	154.6
50°	4546.4	4151.9	2327.9	682.3	234.0	180.2	158.9	152.0	148.6	147.7	147.7
52.5°	4966.5	4518.2	2550.7	655.0	224.6	169.9	150.3	145.1	141.8	140.9	140.9
55°	5367.0	4814.5	2589.1	556.0	205.8	159.7	140.9	138.4	134.1	134.1	133.2
57.5°	5712.0	4963.0	2317.6	408.2	187.1	144.3	131.5	128.9	125.6	124.6	123.8
60°	6028.8	4920.4	1789.0	275.0	166.6	128.9	119.5	117.9	114.4	110.2	109.3
62.5°	6207.3	4732.5	1223.6	179.4	146.1	112.7	105.9	105.1	97.4	88.8	87.1
65°	6274.7	4346.5	763.4	130.7	122.1	96.5	91.3	89.7	78.5	69.2	68.3
67.5°	6215.8	3711.2	385.1	103.3	96.5	80.3	75.1	75.1	67.4	58.9	58.1
70°	5980.2	2782.2	162.3	82.8	74.3	61.5	61.5	64.9	57.2	47.9	46.9
72.5°	5468.6	1871.9	86.2	63.2	55.6	43.6	50.4	53.0	45.3	35.9	35.9
75°	4347.4	1141.7	59.8	46.9	35.1	30.7	38.4	40.2	30.7	23.9	23.1
77.5°	2973.4	655.8	40.2	29.9	22.2	17.9	26.4	24.8	16.2	11.1	12.0
80°	1305.6	273.3	23.1	13.6	8.5	6.9	9.4	6.9	5.1	3.4	3.4
82.5°	152.8	64.1	8.5	5.1	3.4	1.7	0.8	0.0	0.0	0.0	0.0
85°	31.6	7.7	4.3	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	1.7	0.8	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)