

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: P964046

Luminaire Tested: **NAV-SB3B-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13581.2 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.2
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

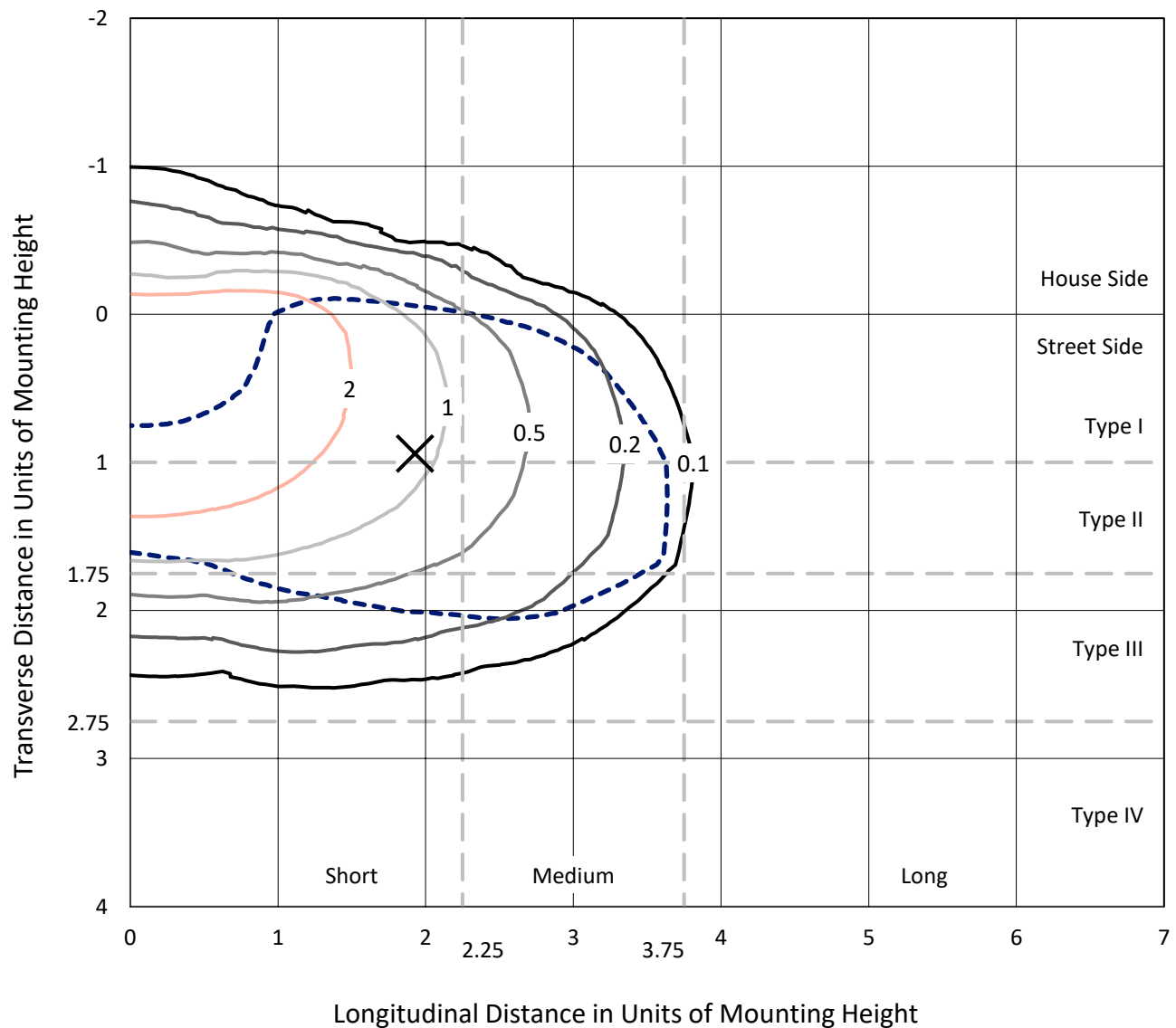


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

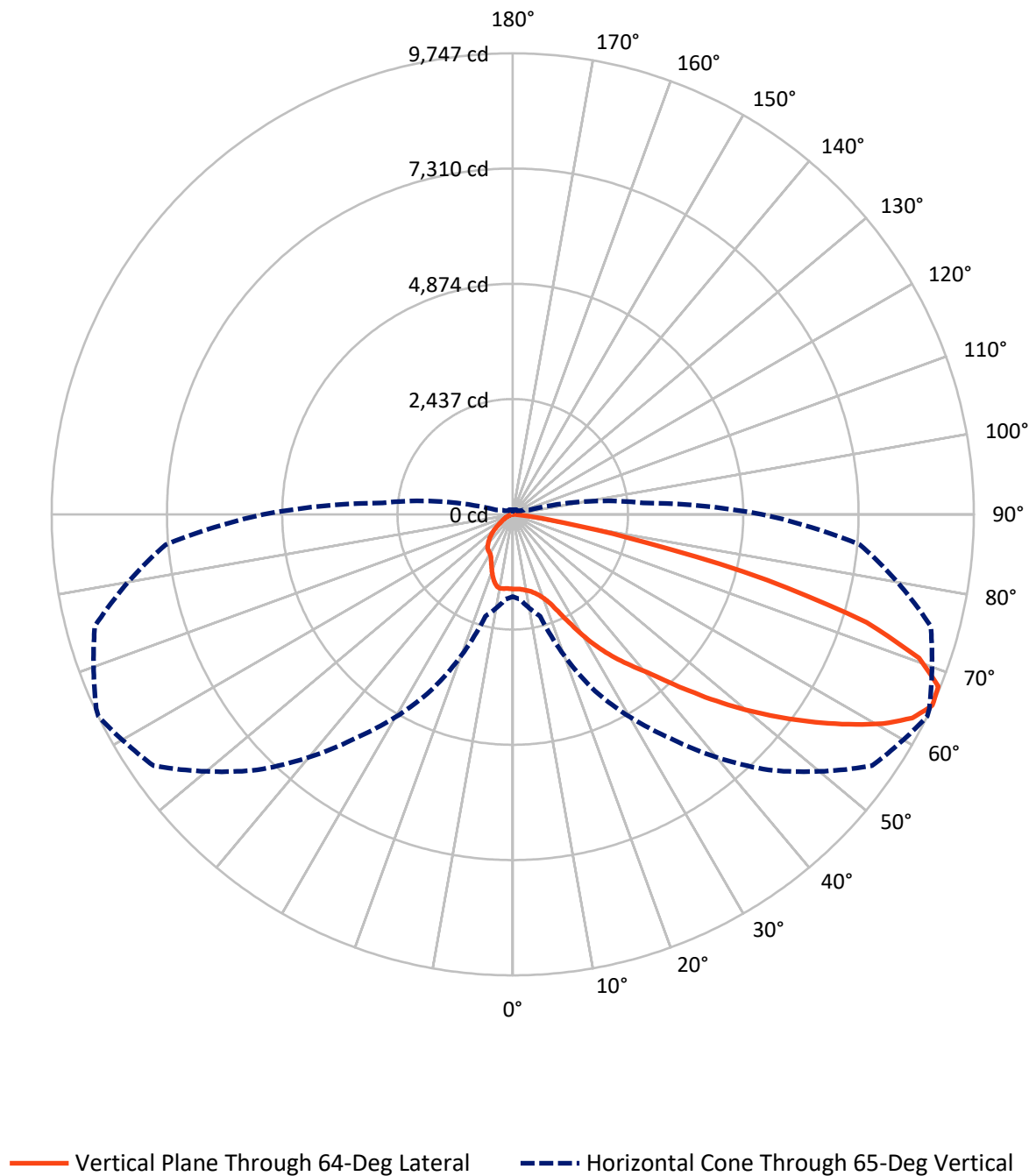


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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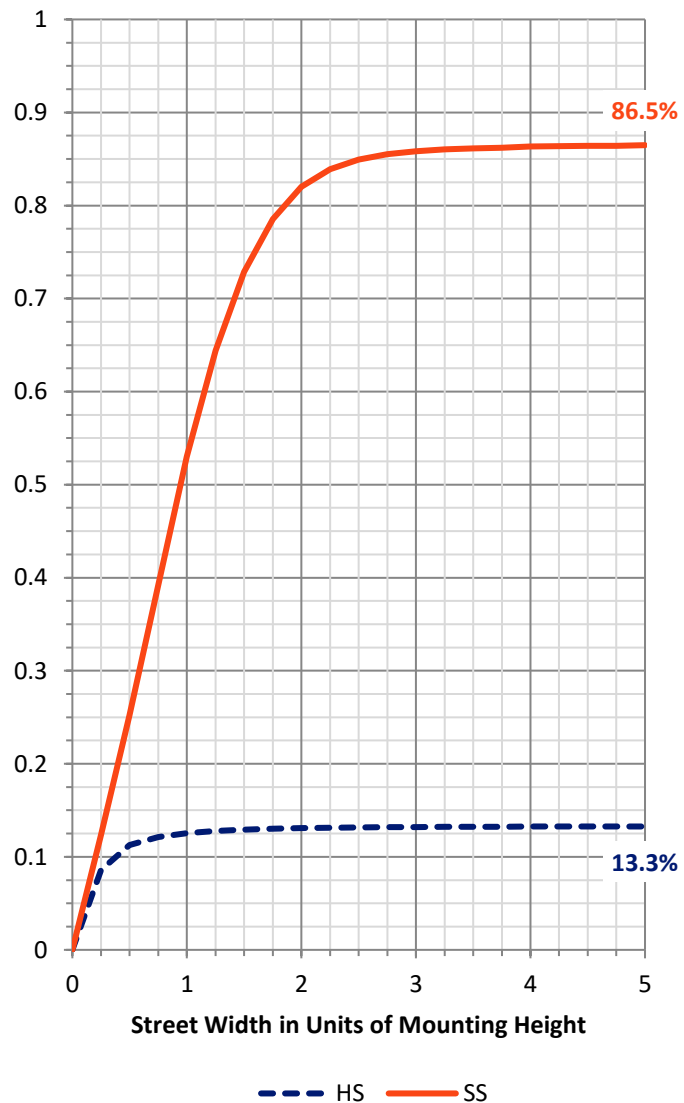
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1816.2	0.0	1816.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11765.0	0.0	11765.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	13581.2	0.0	13581.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.1
10°-20°	395.3	2.9
20°-30°	749.0	5.5
30°-40°	1515.7	11.2
40°-50°	2582.0	19.0
50°-60°	3511.3	25.9
60°-70°	3297.3	24.3
70°-80°	1321.0	9.7
80°-90°	64.0	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°	13581.2	100.0
0°-180°	13581.2	100.0

Coefficient of Utilization



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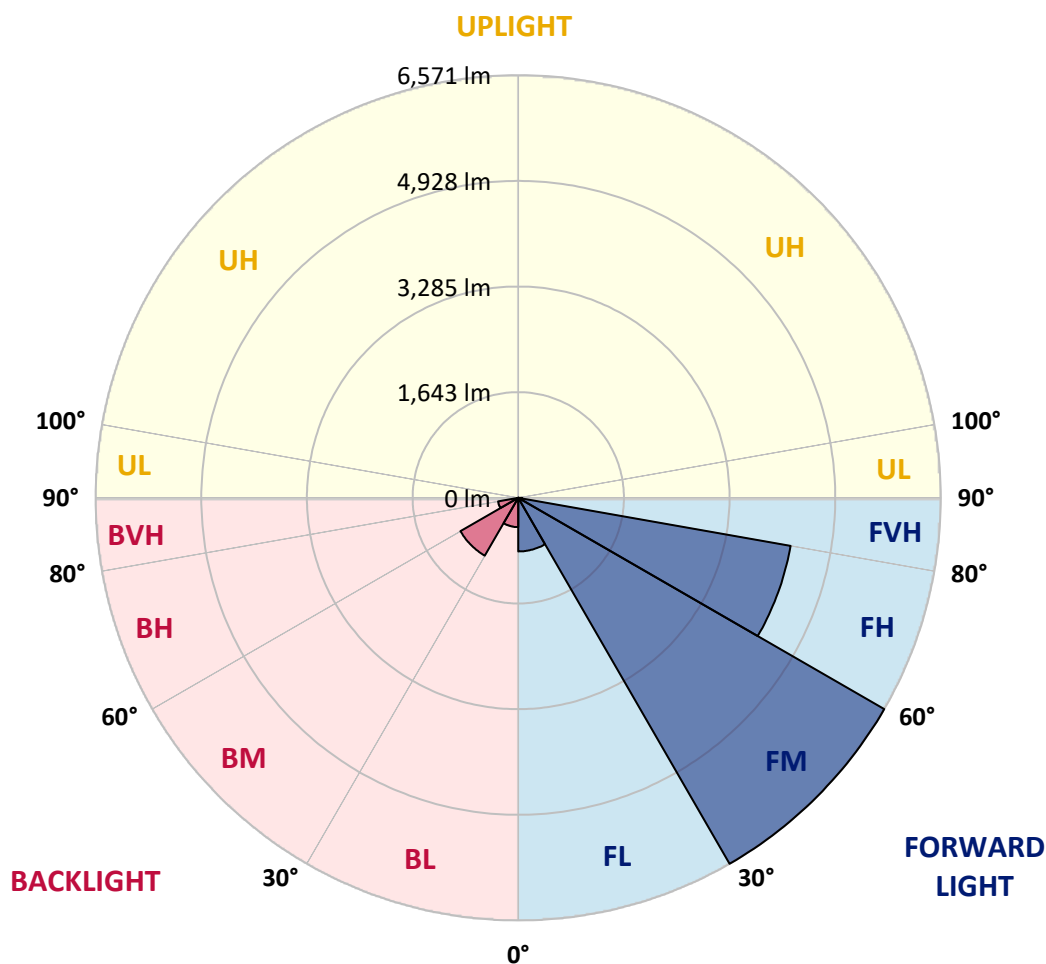
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.0	6.1			
FM	(30°-60°)	6570.6	48.4			
FH	(60°-80°)	4299.5	31.7			G2/5000
FVH	(80°-90°)	60.9	0.4			G1/100
BL	(0°-30°)	456.0	3.4	B1/500		
BM	(30°-60°)	1038.3	7.6	B2/2500		
BH	(60°-80°)	318.8	2.3	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1574.2	1585.1	1582.4	1579.6	1578.7	1580.6	1581.5	1580.6	1580.6	1580.6	1581.5
5°	1544.2	1553.3	1553.3	1559.6	1568.8	1579.6	1587.8	1589.7	1591.5	1594.2	1593.3
7.5°	1486.8	1494.0	1499.5	1520.5	1543.2	1572.4	1596.9	1609.7	1611.5	1621.6	1625.1
10°	1447.6	1456.7	1465.9	1487.7	1520.5	1564.1	1606.1	1637.0	1641.5	1665.2	1676.2
12.5°	1445.8	1454.9	1466.8	1490.5	1528.7	1575.1	1626.1	1670.6	1678.8	1713.5	1736.2
15°	1464.9	1475.9	1486.8	1515.9	1556.9	1613.4	1668.0	1723.5	1731.7	1780.8	1805.4
17.5°	1504.1	1518.6	1526.8	1555.9	1599.7	1662.4	1734.4	1798.2	1805.4	1862.8	1893.8
20°	1581.5	1598.8	1601.5	1625.1	1668.0	1735.3	1820.9	1900.1	1909.3	1974.8	2009.4
22.5°	1741.7	1766.3	1744.4	1756.2	1794.5	1861.9	1954.8	2054.9	2067.6	2142.4	2173.3
25°	2024.0	2058.5	2002.1	1982.0	1998.4	2068.6	2185.1	2311.7	2326.2	2386.3	2401.8
27.5°	2578.4	2533.8	2448.2	2364.5	2315.3	2355.3	2486.4	2643.1	2661.3	2719.5	2701.3
30°	3187.5	3148.4	3032.8	2847.0	2730.5	2724.0	2845.2	3020.0	3041.0	3096.4	3041.0
32.5°	3797.5	3760.2	3634.5	3406.0	3203.8	3103.7	3187.5	3381.5	3392.3	3427.9	3345.9
35°	4397.5	4359.2	4233.7	3999.7	3751.1	3523.4	3507.0	3725.6	3729.3	3766.6	3644.6
37.5°	5001.2	4969.3	4835.4	4606.0	4361.1	4047.0	3894.9	4051.5	4056.1	4092.5	3965.9
40°	5431.8	5445.4	5353.5	5175.9	4965.6	4622.3	4330.1	4398.4	4371.1	4432.1	4356.6
42.5°	5801.4	5828.8	5748.6	5659.4	5537.4	5235.1	4869.2	4857.3	4813.6	4846.4	4768.1
45°	6121.0	6143.7	6071.8	6050.9	6048.1	5836.0	5458.2	5387.2	5326.2	5319.7	5226.1
47.5°	6238.5	6282.1	6313.1	6383.2	6519.8	6430.5	6067.3	5957.1	5888.8	5838.7	5690.4
50°	6283.0	6329.5	6435.1	6639.0	6962.2	7000.4	6673.7	6549.9	6466.0	6375.0	6156.5
52.5°	6223.0	6305.8	6447.9	6791.1	7260.0	7457.6	7255.5	7147.1	7051.5	6903.1	6579.0
55°	5868.8	5951.7	6242.0	6789.3	7408.4	7778.0	7805.4	7757.1	7649.7	7415.7	6920.4
57.5°	5122.2	5245.1	5704.9	6558.1	7405.6	8053.9	8344.3	8379.0	8258.7	7923.7	7188.9
60°	4087.9	4254.6	4815.4	6045.4	7177.2	8203.2	8816.8	8989.9	8862.4	8424.5	7406.5
62.5°	2852.5	3045.5	3576.2	5242.4	6654.5	8095.8	9162.0	9481.5	9385.0	8872.4	7490.3
65°	1739.8	1801.7	2229.7	4125.3	5765.9	7646.0	9268.5	9747.3	9715.5	9146.5	7366.5
67.5°	1159.0	1210.9	1333.8	2828.8	4475.8	6747.4	9013.5	9700.9	9710.0	9101.8	6913.1
70°	698.3	742.9	823.1	1645.2	2900.7	5340.8	8224.2	9109.1	9162.0	8505.4	6053.6
72.5°	287.7	317.8	390.6	745.7	1502.2	3389.7	6548.9	7820.9	7943.7	7151.6	4646.0
75°	163.0	178.5	229.4	374.2	651.9	1579.6	3966.9	5551.9	5733.1	4929.2	2795.1
77.5°	108.3	115.6	148.4	242.2	367.0	538.9	1695.2	2892.5	3238.5	2692.3	1210.0
80°	72.9	79.2	102.0	162.1	238.5	231.2	539.9	1071.6	1318.4	925.1	295.0
82.5°	49.2	50.1	72.9	106.5	151.1	112.0	159.3	333.2	418.8	267.6	112.0
85°	28.2	27.3	53.7	61.9	67.3	46.4	48.3	100.1	131.1	112.9	63.8
87.5°	3.7	5.4	20.9	16.4	9.1	10.0	10.0	17.3	25.5	27.3	13.6
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°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1581.5	1580.6	1577.8	1575.1	1568.8	1565.1	1566.9	1565.1	1564.1	1565.1	1568.8
5°	1593.3	1590.6	1583.3	1574.2	1561.4	1545.9	1536.0	1521.4	1507.7	1499.5	1501.3
7.5°	1625.1	1622.5	1612.4	1586.9	1545.9	1481.3	1422.1	1370.2	1331.1	1308.3	1309.2
10°	1676.2	1671.6	1656.1	1599.7	1492.2	1351.2	1233.7	1136.2	1072.6	1042.4	1039.8
12.5°	1736.2	1730.8	1703.4	1587.8	1390.3	1169.9	1007.9	899.5	840.4	814.0	811.2
15°	1807.3	1800.0	1746.3	1531.4	1241.9	969.6	821.2	740.2	701.9	678.2	679.2
17.5°	1895.5	1882.8	1778.2	1446.7	1080.8	816.7	706.5	645.5	611.8	589.1	587.2
20°	2010.3	1989.3	1803.6	1345.6	932.3	720.2	629.1	578.1	552.7	532.6	529.0
22.5°	2170.5	2140.5	1834.5	1236.4	827.6	653.7	571.7	534.4	513.5	490.8	487.1
25°	2369.0	2333.5	1872.8	1135.3	755.6	596.3	529.9	499.0	474.4	447.9	445.3
27.5°	2646.7	2583.0	1918.3	1052.5	693.7	547.1	491.7	457.0	428.9	406.9	402.4
30°	2956.2	2851.5	1958.4	1002.4	637.3	501.6	441.6	406.9	380.6	365.1	362.3
32.5°	3249.5	3107.4	1984.8	980.5	586.3	449.8	386.9	349.6	329.5	325.0	327.8
35°	3526.2	3338.6	1982.0	959.6	540.8	397.9	333.2	295.0	279.5	282.3	282.3
37.5°	3844.9	3585.3	1963.0	926.8	503.5	350.5	286.8	253.1	239.4	240.4	244.1
40°	4215.4	3870.3	1951.1	864.9	462.5	306.8	248.6	221.2	211.3	207.6	206.6
42.5°	4610.6	4146.2	1952.9	794.8	411.5	267.6	222.1	199.4	190.2	187.6	186.7
45°	5007.5	4409.3	1955.7	722.0	357.8	237.6	203.1	183.9	178.5	174.8	174.8
47.5°	5380.8	4633.3	1904.7	643.7	305.0	214.8	187.6	174.8	170.3	165.7	165.7
50°	5728.6	4782.6	1781.8	552.7	263.1	196.7	175.7	166.6	162.1	157.5	157.5
52.5°	5999.0	4806.3	1578.7	458.9	234.0	183.0	168.4	160.2	154.8	150.3	149.3
55°	6119.1	4657.9	1290.1	371.5	211.3	171.2	161.1	152.9	146.6	142.1	141.1
57.5°	6088.2	4345.6	1006.0	298.6	189.4	159.3	152.0	146.6	139.3	132.0	131.1
60°	5936.2	3927.7	758.4	248.6	169.3	146.6	142.1	137.5	127.5	116.5	114.7
62.5°	5673.1	3402.4	540.8	205.7	147.5	132.0	130.2	126.6	112.0	91.9	90.1
65°	5270.7	2764.1	364.2	171.2	126.6	115.6	116.5	110.2	91.0	68.3	66.4
67.5°	4682.5	2021.2	233.1	140.2	105.6	96.6	97.4	93.8	77.4	58.2	55.6
70°	3933.1	1338.3	152.0	106.5	84.7	74.6	80.2	81.1	65.6	47.4	45.5
72.5°	2883.4	790.3	106.5	79.2	61.9	51.9	65.6	67.3	52.8	35.5	33.7
75°	1643.4	375.2	80.2	57.4	38.2	36.4	50.9	50.9	36.4	23.7	21.8
77.5°	690.1	156.6	56.5	37.3	21.8	20.9	34.6	31.9	18.2	11.0	11.0
80°	199.4	70.1	30.0	18.2	9.1	8.2	13.6	10.0	4.5	1.8	1.8
82.5°	78.3	31.0	11.8	7.3	3.7	3.7	1.8	0.0	0.0	0.0	0.0
85°	46.4	12.7	5.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	2.8	1.8	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)