

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: P964049

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17329.7 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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



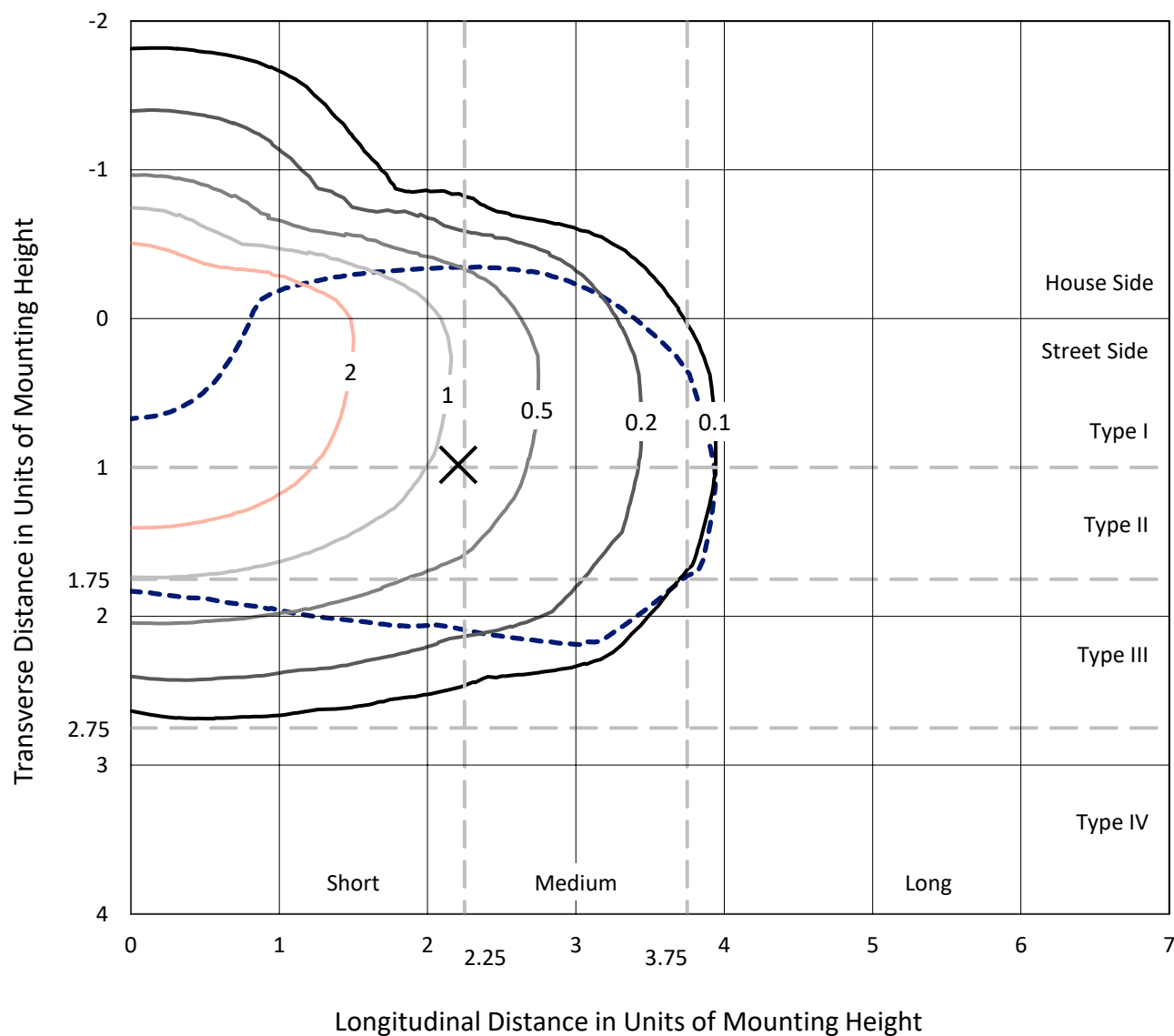
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

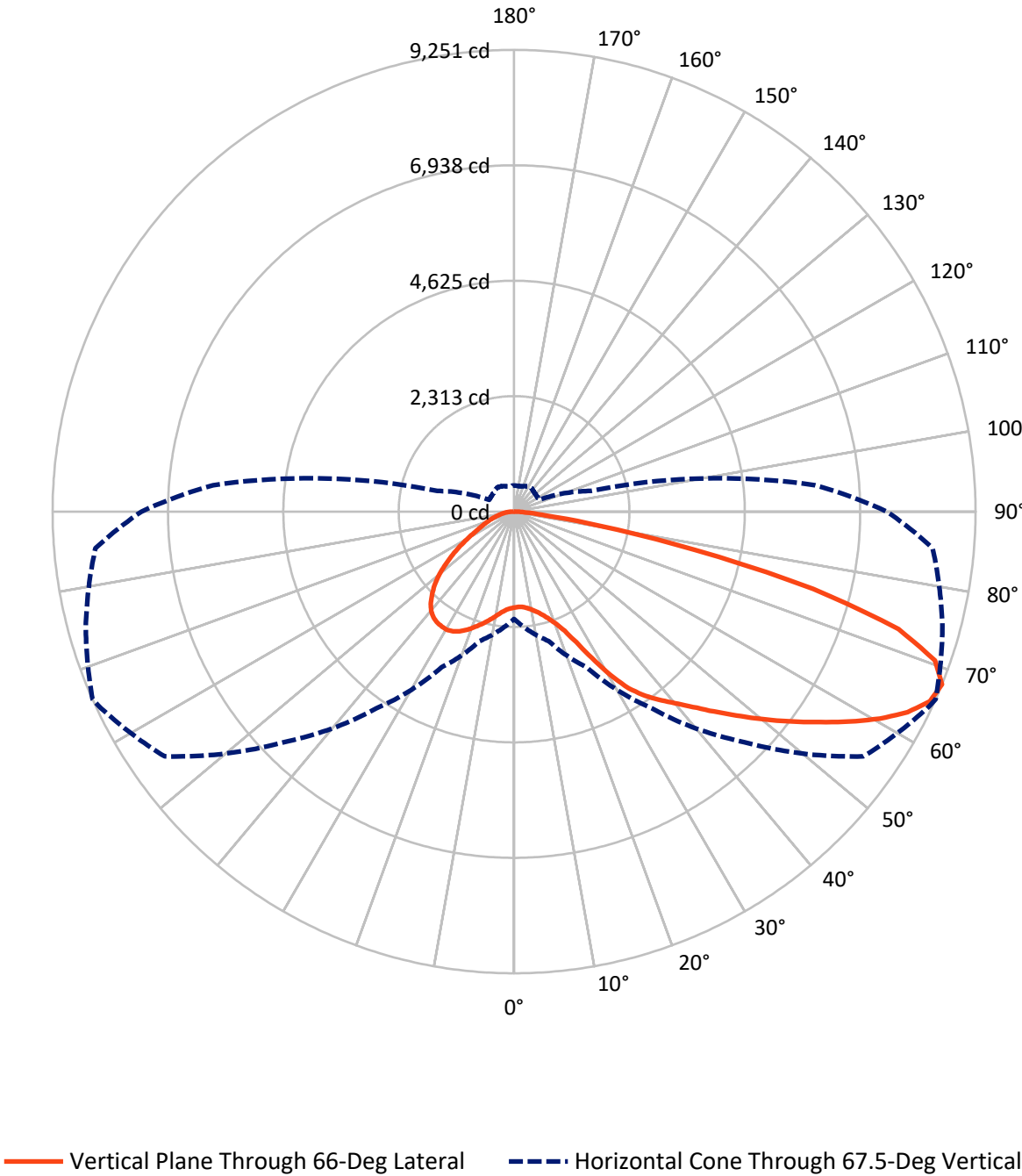


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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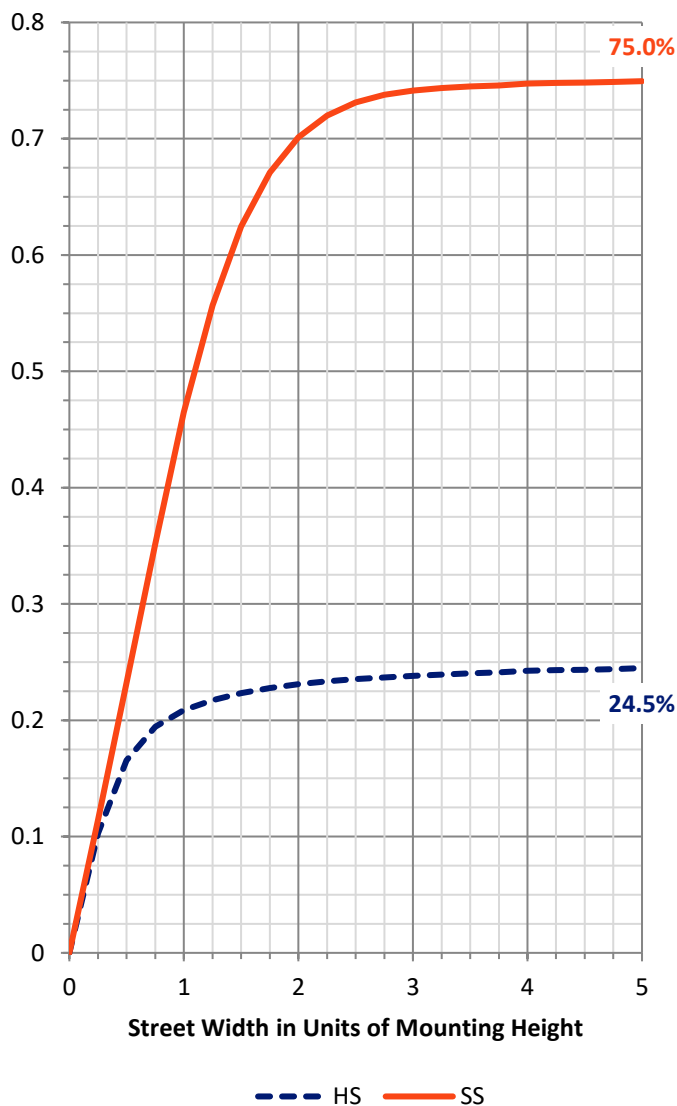
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4309.0	0.0	4309.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13020.7	0.0	13020.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	17329.7	0.0	17329.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.1
10°-20°	629.6	3.6
20°-30°	1213.5	7.0
30°-40°	2127.8	12.3
40°-50°	3163.3	18.3
50°-60°	4009.8	23.1
60°-70°	3923.5	22.6
70°-80°	1871.5	10.8
80°-90°	200.0	1.2
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°	17329.7	100.0
0°-180°	17329.7	100.0

Coefficient of Utilization



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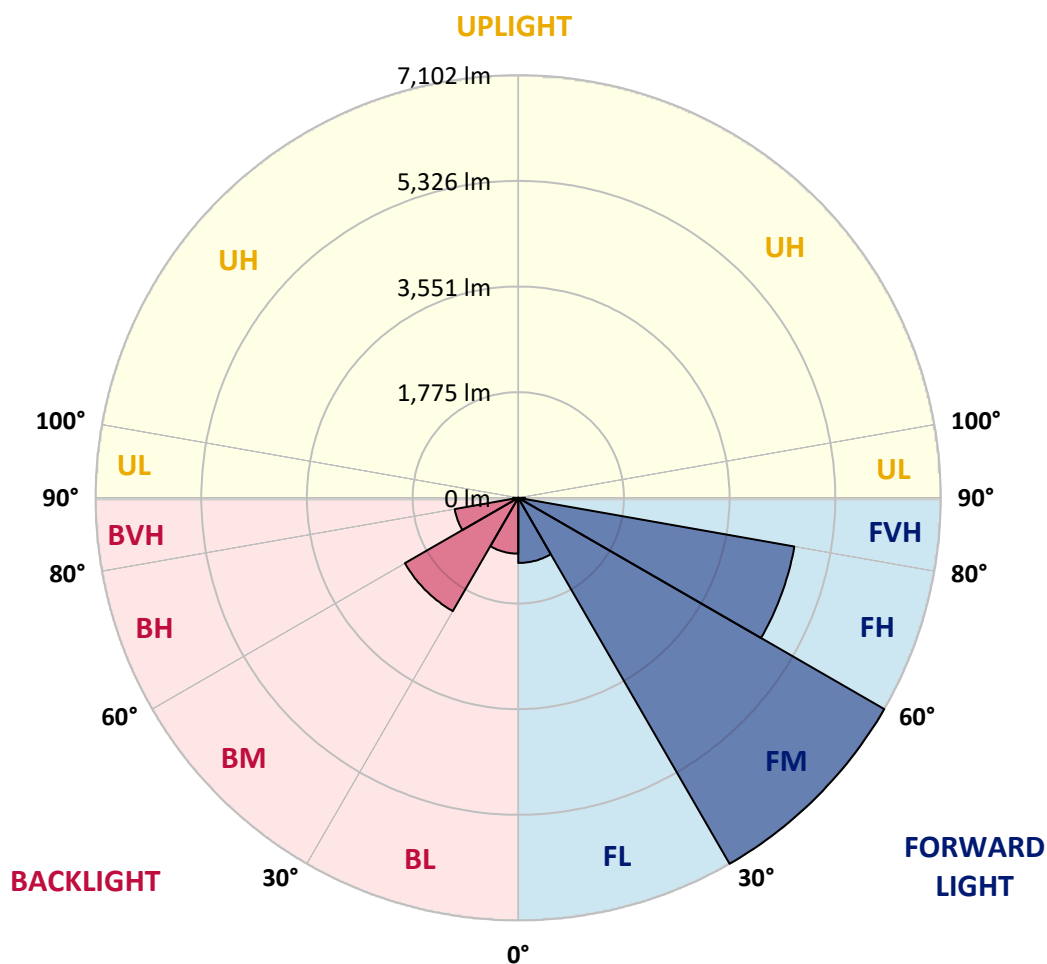
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1095.1	6.3			
FM	(30°-60°)	7101.6	41.0			
FH	(60°-80°)	4710.7	27.2			G2/5000
FVH	(80°-90°)	113.4	0.7			G2/225
BL	(0°-30°)	938.7	5.4	B2/1000		
BM	(30°-60°)	2199.3	12.7	B2/2500		
BH	(60°-80°)	1084.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	86.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1
2.5°	1902.1	1913.0	1910.3	1905.7	1904.8	1906.6	1909.4	1912.0	1911.2	1915.7	1923.0
5°	1896.6	1907.5	1906.6	1906.6	1910.3	1917.6	1922.1	1926.7	1922.1	1927.5	1937.6
7.5°	1900.2	1908.4	1912.0	1915.7	1924.8	1938.5	1949.4	1959.4	1954.0	1960.3	1973.1
10°	1946.7	1953.0	1956.7	1956.7	1963.1	1978.6	1989.4	2007.7	2003.2	2013.1	2029.5
12.5°	2031.3	2037.7	2037.7	2034.1	2038.6	2048.7	2052.3	2072.3	2064.1	2080.5	2096.9
15°	2135.2	2147.9	2137.8	2131.5	2133.3	2143.4	2142.5	2157.9	2149.7	2163.4	2177.9
17.5°	2249.9	2266.3	2249.9	2249.0	2245.4	2256.2	2257.2	2270.8	2256.2	2266.3	2276.3
20°	2385.6	2408.3	2394.6	2399.2	2391.0	2395.5	2400.1	2420.1	2397.4	2404.6	2401.9
22.5°	2576.7	2604.0	2589.5	2606.8	2601.3	2597.7	2596.7	2632.3	2596.7	2599.5	2573.1
25°	2855.3	2888.1	2862.6	2886.3	2886.3	2898.2	2911.8	2957.3	2898.2	2880.9	2812.6
27.5°	3266.9	3299.7	3249.7	3264.2	3259.6	3288.8	3274.2	3387.1	3323.4	3295.2	3157.6
30°	3762.3	3820.5	3725.8	3722.2	3717.6	3764.0	3785.0	3859.6	3795.1	3766.8	3601.0
32.5°	4297.6	4358.6	4245.8	4213.0	4195.6	4223.8	4206.6	4266.7	4222.1	4178.3	3973.5
35°	4863.9	4924.0	4816.6	4752.8	4683.6	4624.5	4562.6	4578.1	4536.1	4469.7	4257.5
37.5°	5399.3	5509.5	5395.7	5327.4	5199.9	5084.3	4911.3	4839.3	4800.2	4739.2	4525.3
40°	5944.7	6007.5	5921.0	5862.8	5724.4	5543.2	5266.4	5114.3	5061.6	5002.3	4821.2
42.5°	6346.3	6406.4	6359.9	6319.8	6211.5	6001.2	5643.3	5453.1	5376.5	5310.1	5156.3
45°	6665.0	6709.5	6680.4	6695.0	6648.6	6444.6	6034.0	5816.4	5737.1	5656.1	5535.0
47.5°	6793.3	6840.6	6887.1	6973.6	7052.8	6902.6	6453.7	6209.7	6125.9	6043.1	5923.8
50°	6778.7	6827.0	6961.8	7145.7	7391.6	7341.5	6896.2	6628.6	6551.1	6456.5	6346.3
52.5°	6662.2	6716.8	6889.8	7195.8	7587.3	7670.2	7346.9	7061.0	6988.1	6875.3	6765.1
55°	6356.3	6389.0	6648.6	7081.9	7633.7	7899.6	7788.6	7521.8	7448.9	7291.3	7171.2
57.5°	5789.0	5836.3	6214.3	6775.1	7517.1	8055.3	8176.4	8006.2	7936.1	7709.3	7583.7
60°	5048.7	5124.4	5556.8	6259.8	7220.4	8054.3	8528.7	8482.3	8424.1	8120.9	7989.8
62.5°	4211.1	4298.5	4714.6	5531.3	6701.3	7825.9	8749.1	8881.1	8851.1	8500.5	8333.0
65°	3234.2	3294.2	3708.6	4589.0	5893.7	7335.1	8774.6	9153.4	9158.8	8789.2	8512.4
67.5°	2153.3	2326.3	2686.0	3443.6	4812.1	6532.9	8550.7	9197.9	9250.8	8888.4	8422.2
70°	1050.7	1278.4	1630.8	2238.1	3443.6	5302.8	7965.2	8831.9	8949.4	8598.8	7885.0
72.5°	436.1	509.9	702.0	1104.4	1976.7	3578.3	6788.8	7839.5	8057.1	7619.1	6629.4
75°	294.1	318.7	401.5	566.3	900.5	1764.5	4895.8	5845.5	6196.0	5754.5	4703.7
77.5°	226.7	242.2	292.2	396.1	535.4	667.4	2620.4	3522.7	3703.9	3429.0	2447.5
80°	178.5	190.3	218.5	288.6	379.7	356.9	893.2	1596.1	1700.9	1426.8	786.7
82.5°	154.8	159.4	156.6	195.8	252.3	208.5	293.2	589.1	650.1	471.6	256.8
85°	112.0	124.7	130.2	121.1	133.9	105.6	120.2	208.5	229.5	204.9	144.7
87.5°	45.5	67.3	82.8	78.3	49.2	30.0	37.3	61.0	70.1	76.5	47.4
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°	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1	1922.1
2.5°	1923.9	1930.3	1934.8	1940.3	1943.9	1949.4	1960.3	1966.7	1967.6	1972.2	1971.3
5°	1941.2	1950.3	1960.3	1974.9	1991.3	2004.9	2025.9	2040.5	2045.9	2050.5	2049.6
7.5°	1978.6	1991.3	2009.5	2035.0	2058.7	2076.9	2102.4	2119.7	2136.9	2143.4	2144.3
10°	2034.1	2052.3	2078.7	2113.3	2138.8	2162.4	2188.9	2203.4	2220.8	2228.0	2231.6
12.5°	2103.3	2122.4	2157.0	2205.3	2229.0	2245.4	2254.4	2250.8	2254.4	2260.8	2262.6
15°	2182.5	2203.4	2242.6	2294.5	2310.9	2296.3	2276.3	2258.1	2255.3	2257.2	2263.5
17.5°	2276.3	2291.8	2337.3	2381.0	2369.2	2309.0	2265.4	2236.2	2221.7	2217.1	2223.4
20°	2407.4	2407.4	2444.7	2472.0	2392.9	2290.9	2222.6	2175.3	2145.1	2132.4	2129.6
22.5°	2566.7	2552.1	2575.8	2556.8	2388.2	2239.8	2145.1	2063.2	2017.7	1999.5	1996.8
25°	2768.8	2751.6	2745.2	2626.9	2355.4	2158.9	2004.9	1905.7	1865.6	1855.7	1857.4
27.5°	3073.9	3030.2	2947.3	2665.1	2295.4	2031.3	1841.1	1749.1	1726.3	1727.2	1730.0
30°	3480.0	3392.5	3189.5	2671.5	2197.1	1851.0	1673.5	1607.9	1597.1	1601.6	1617.0
32.5°	3856.0	3773.1	3437.1	2642.3	2045.9	1674.4	1523.3	1479.6	1463.2	1468.6	1475.9
35°	4151.0	4128.3	3666.6	2601.3	1860.2	1508.7	1388.6	1351.2	1319.4	1312.0	1317.5
37.5°	4429.6	4420.5	3838.7	2543.9	1676.3	1391.2	1280.2	1231.0	1184.6	1159.1	1160.0
40°	4735.6	4726.5	3951.6	2455.7	1513.3	1289.2	1182.7	1118.1	1060.8	1014.3	1018.8
42.5°	5079.7	5026.0	4005.3	2329.1	1374.8	1202.7	1103.5	1016.1	940.5	897.8	900.5
45°	5455.8	5334.7	4004.5	2168.0	1258.3	1123.6	1018.8	895.0	824.9	784.8	783.0
47.5°	5854.6	5629.7	3955.3	1989.4	1145.4	1036.2	887.8	793.0	746.6	722.0	716.6
50°	6266.1	5905.5	3871.5	1784.6	1029.8	937.0	805.8	741.2	705.6	682.9	674.7
52.5°	6653.1	6155.9	3770.5	1552.5	912.4	840.4	769.4	719.3	681.9	656.5	645.5
55°	7012.7	6371.8	3627.5	1314.8	816.7	775.7	752.0	710.2	667.4	637.3	625.6
57.5°	7332.3	6512.0	3380.8	1091.7	748.5	731.1	733.9	694.7	645.5	620.0	603.6
60°	7598.2	6614.8	3015.7	885.0	692.9	687.5	705.6	665.6	608.2	579.1	566.3
62.5°	7757.6	6613.1	2567.6	724.8	645.5	647.4	668.3	629.1	570.9	543.6	535.4
65°	7743.9	6450.9	2075.9	620.0	600.0	601.9	629.1	589.1	540.0	523.6	522.6
67.5°	7469.8	6055.8	1592.4	551.8	549.9	558.1	590.0	561.8	520.8	519.0	521.7
70°	6727.8	5235.4	1147.3	497.1	498.0	509.9	551.8	544.5	510.8	514.4	513.5
72.5°	5394.8	3991.7	770.3	439.8	440.6	459.8	515.4	530.8	500.8	549.0	556.4
75°	3592.8	2489.3	495.3	378.7	379.7	404.3	483.5	504.4	473.4	547.2	551.8
77.5°	1726.3	1119.0	358.7	318.7	318.7	341.4	417.9	451.6	403.3	425.2	389.7
80°	596.3	420.7	282.3	256.8	251.3	266.8	352.4	391.5	347.8	320.5	300.4
82.5°	234.9	218.5	226.7	199.4	181.2	191.2	274.1	323.2	255.8	231.2	230.3
85°	134.8	142.1	160.2	132.0	104.8	117.5	201.2	232.2	193.0	170.3	173.9
87.5°	36.4	50.1	73.8	68.3	47.4	50.1	95.6	128.4	111.1	85.6	88.4
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)