

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: P964577

Luminaire Tested: **NAV-SB3C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964577
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-SB3C-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 17438.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 149.1
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

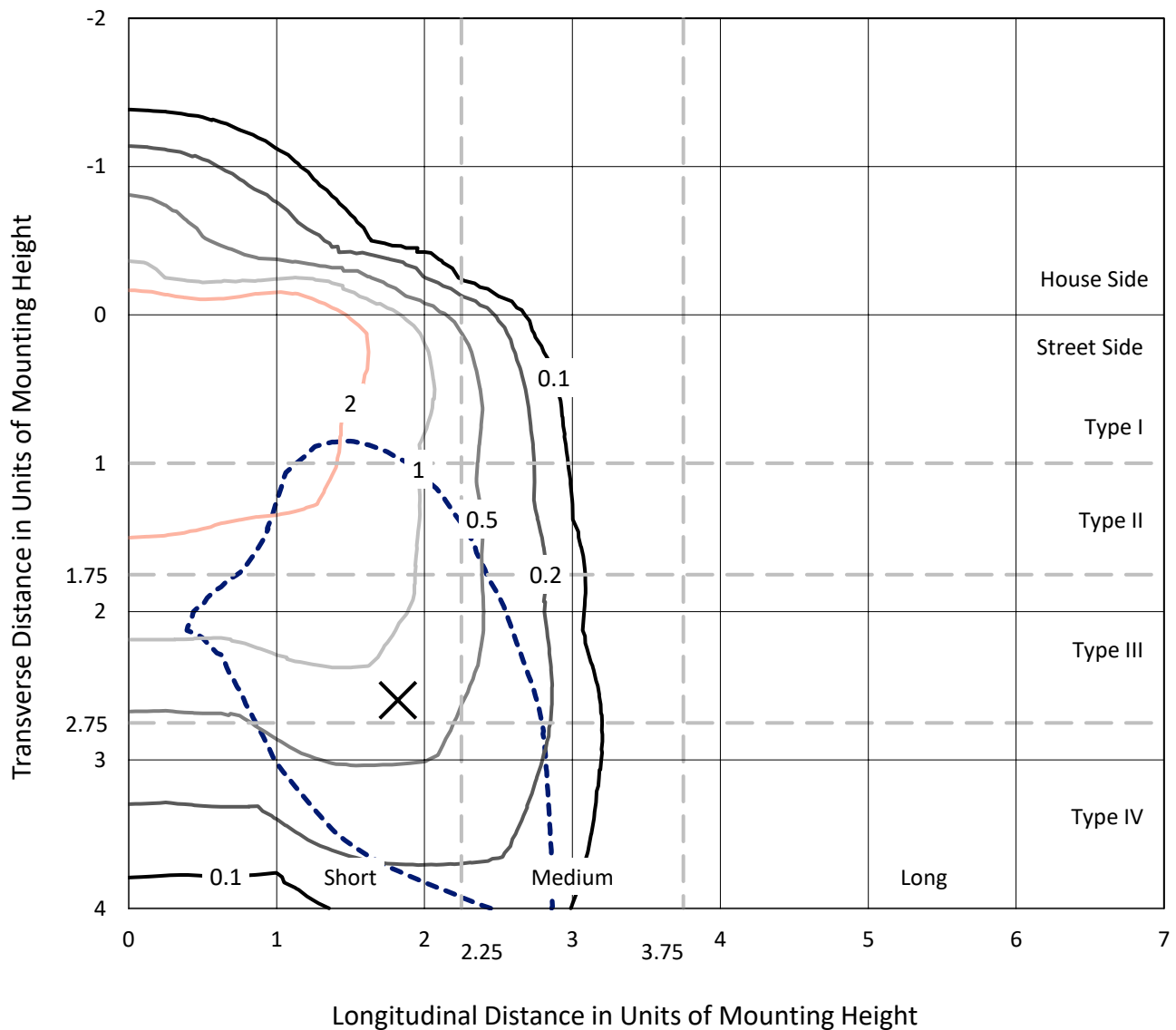


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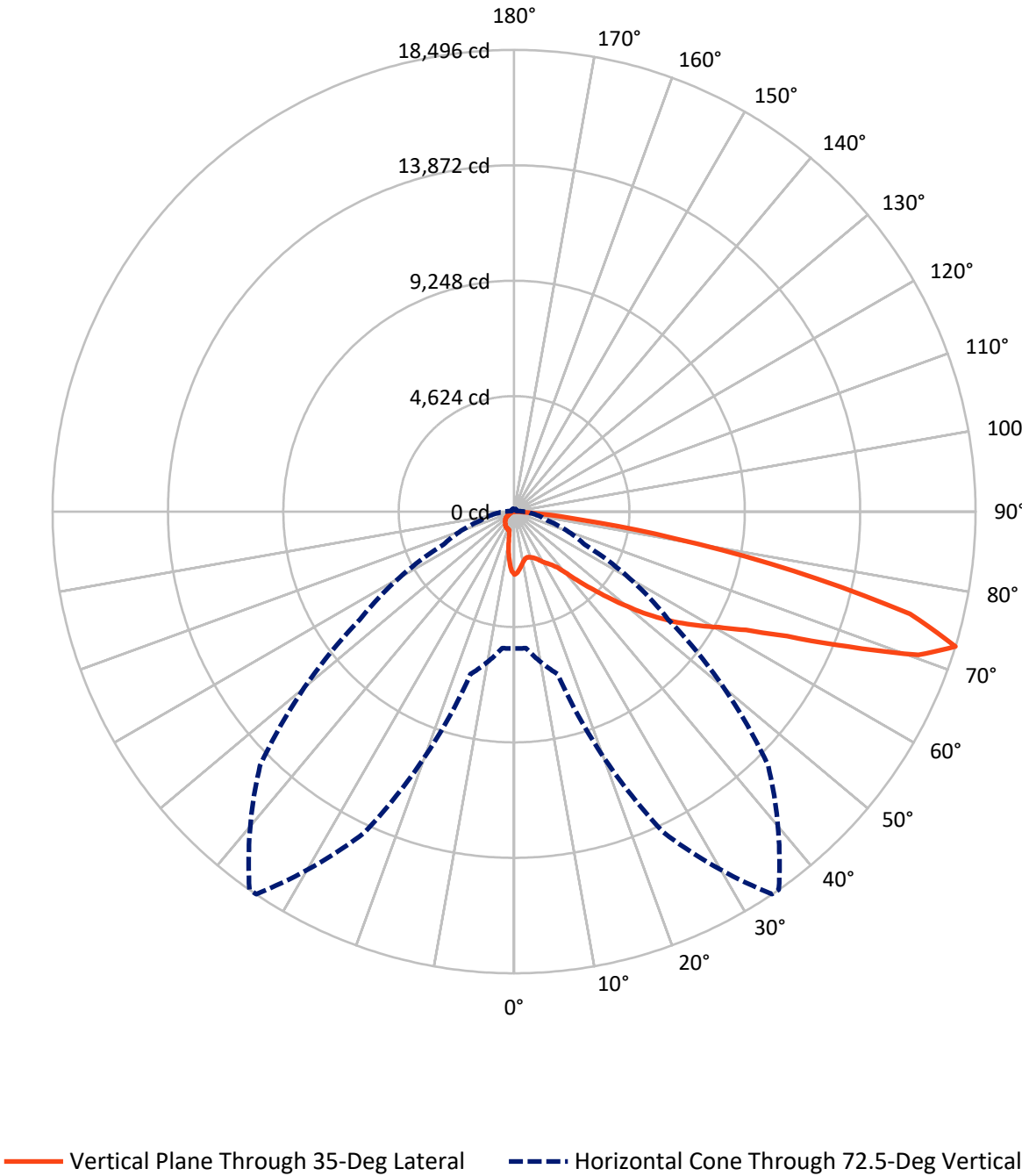
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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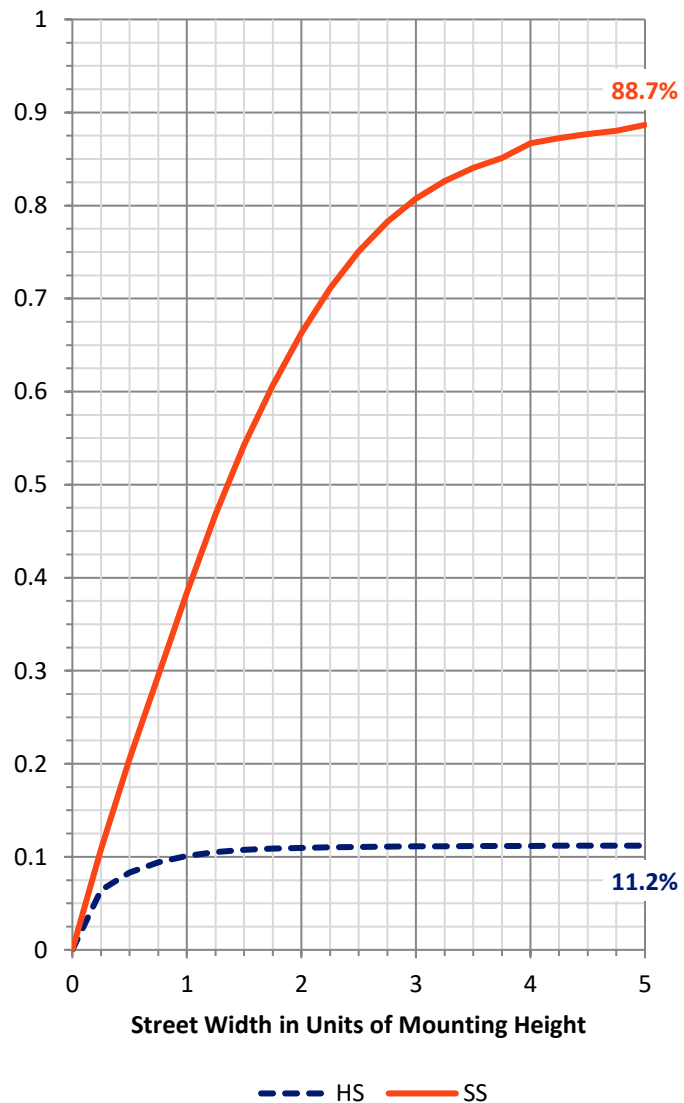
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1962.6	0.0	1962.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	15475.7	0.0	15475.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	17438.3	0.0	17438.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	1.2
10°-20°	485.9	2.8
20°-30°	789.3	4.5
30°-40°	1316.9	7.6
40°-50°	2491.5	14.3
50°-60°	3959.1	22.7
60°-70°	4897.6	28.1
70°-80°	3044.4	17.5
80°-90°	246.0	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°	17438.3	100.0
0°-180°	17438.3	100.0

Coefficient of Utilization



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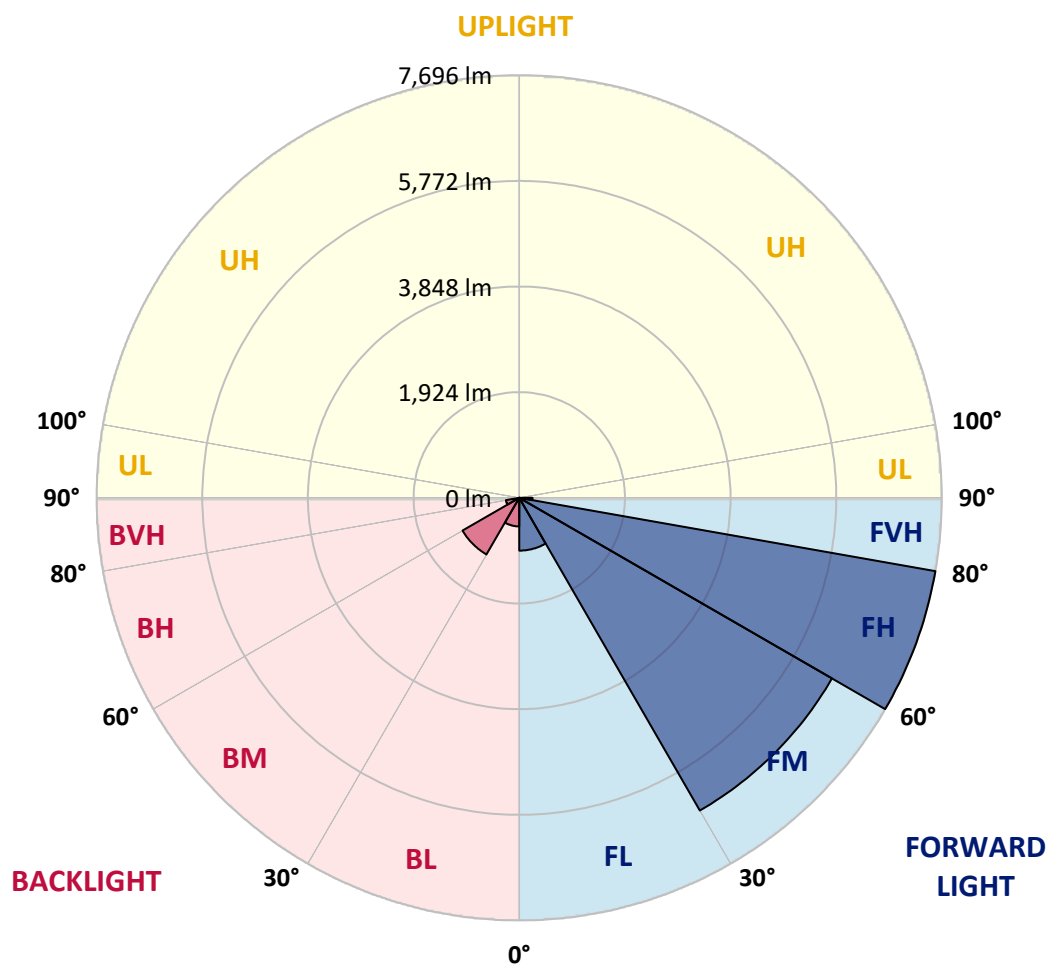
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	961.3	5.5			
FM	(30°-60°)	6576.0	37.7			
FH	(60°-80°)	7695.7	44.1			G4/12000
FVH	(80°-90°)	242.7	1.4			G3/500
BL	(0°-30°)	521.5	3.0	B2/1000		
BM	(30°-60°)	1191.5	6.8	B2/2500		
BH	(60°-80°)	246.3	1.4	B1/500		G1/500
BVH	(80°-90°)	3.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4
2.5°	2415.0	2435.4	2439.2	2445.6	2445.6	2453.3	2466.0	2484.0	2513.3	2528.7	2538.9
5°	2225.9	2241.2	2260.3	2275.7	2305.0	2308.9	2358.7	2407.3	2475.0	2526.1	2561.9
7.5°	2035.4	2053.4	2078.9	2116.0	2154.2	2165.8	2241.2	2323.0	2430.3	2526.1	2586.2
10°	1901.3	1902.6	1925.6	1962.7	2024.0	2038.0	2130.1	2246.3	2380.5	2510.7	2609.1
12.5°	1825.9	1834.9	1845.1	1873.2	1931.9	1940.9	2039.3	2176.0	2330.6	2501.8	2636.0
15°	1825.9	1832.3	1838.6	1852.8	1900.0	1907.7	1994.5	2131.3	2305.0	2505.7	2679.5
17.5°	1845.1	1855.2	1850.2	1866.8	1916.6	1921.8	1998.4	2118.5	2303.8	2529.9	2745.9
20°	1891.1	1898.7	1888.6	1898.7	1948.5	1958.8	2038.0	2142.8	2325.5	2572.1	2828.9
22.5°	1963.9	1967.7	1943.5	1951.1	2002.2	2015.0	2107.0	2211.7	2377.9	2639.9	2940.1
25°	2055.9	2063.5	2026.5	2035.4	2084.0	2099.3	2205.4	2315.3	2460.9	2733.2	3082.0
27.5°	2161.9	2165.8	2133.8	2132.6	2195.1	2216.9	2324.2	2443.1	2572.1	2850.6	3260.8
30°	2283.4	2294.9	2264.2	2259.1	2338.3	2356.2	2462.3	2600.2	2735.6	3027.0	3515.1
32.5°	2379.1	2388.1	2370.2	2383.0	2463.5	2477.5	2629.6	2822.5	2992.5	3277.4	3861.4
35°	2517.2	2522.3	2481.4	2504.4	2596.4	2632.2	2858.3	3134.3	3315.8	3591.8	4313.7
37.5°	3016.8	3016.8	2843.0	2729.3	2817.4	2849.4	3171.4	3526.6	3714.4	4013.4	4883.6
40°	3708.0	3696.6	3442.3	3209.7	3198.2	3260.8	3617.3	4021.1	4229.4	4519.4	5525.1
42.5°	4445.3	4427.4	4081.1	3851.1	3812.8	3834.5	4132.3	4630.5	4842.7	5136.6	6215.0
45°	5099.5	5094.5	4777.5	4468.3	4399.3	4468.3	4775.0	5343.5	5495.6	5804.9	6903.7
47.5°	5647.6	5647.6	5416.4	5214.5	5178.7	5219.6	5645.1	6134.5	6120.5	6516.5	7574.5
50°	6278.8	6273.8	6054.0	5967.1	6004.1	6061.6	6646.9	6967.6	6766.9	7215.5	8173.8
52.5°	6721.0	6751.7	6676.2	6662.2	6851.3	6950.9	7663.9	7782.8	7345.8	7878.7	8622.3
55°	7071.1	7106.8	7193.8	7292.2	7656.3	7786.6	8649.2	8555.9	7830.1	8453.6	8880.4
57.5°	7566.9	7515.7	7649.9	7844.1	8433.2	8590.3	9603.6	9285.5	8219.8	8920.0	8908.5
60°	8168.6	8176.3	8199.4	8444.7	9208.8	9410.6	10544.1	9975.4	8470.2	9206.2	8596.8
62.5°	8891.9	8903.4	8950.7	9327.6	10250.1	10440.5	11545.8	10540.2	8585.2	9125.7	7791.7
65°	8842.1	8890.6	9418.3	10707.6	11833.3	12021.1	12714.9	10936.3	8411.5	8389.7	6344.0
67.5°	8055.0	8134.2	9017.1	12355.9	14220.1	14429.6	14128.1	11014.2	7661.5	6524.2	4138.6
70°	7022.6	7050.7	8112.5	13838.1	16983.9	17196.0	15393.1	10156.8	5813.8	3639.1	1854.0
72.5°	5484.2	5490.5	6736.3	14181.8	18484.0	18495.5	14400.3	7540.0	3126.7	1397.9	644.0
75°	3917.6	3879.2	4511.7	11501.1	16261.9	16392.3	10795.7	3536.9	1194.7	660.6	320.7
77.5°	2100.6	2142.8	2553.0	6820.7	11234.0	11456.3	5890.5	1019.7	608.2	449.8	212.1
80°	649.1	684.9	1046.5	3122.9	6363.2	6497.4	2183.7	453.6	424.2	320.7	139.3
82.5°	204.5	212.1	488.1	1312.2	2641.1	2702.4	632.5	256.9	290.1	212.1	81.8
85°	58.7	60.1	217.2	489.3	652.9	665.7	177.6	99.6	166.2	131.6	42.1
87.5°	6.4	20.4	81.8	81.8	57.5	56.2	19.2	21.7	47.3	16.6	7.7
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°	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4
2.5°	2532.5	2533.8	2517.2	2489.1	2458.4	2432.8	2400.9	2375.3	2357.5	2352.4	2361.3
5°	2550.4	2541.5	2494.1	2408.5	2306.4	2218.2	2119.8	2041.9	1990.8	1969.0	1976.7
7.5°	2577.3	2551.6	2448.2	2279.5	2084.0	1910.3	1733.9	1597.2	1510.3	1466.9	1473.2
10°	2600.2	2549.1	2371.5	2092.9	1794.0	1530.7	1293.0	1128.2	1036.3	992.8	994.0
12.5°	2622.0	2547.8	2271.8	1872.0	1466.9	1144.8	923.8	842.0	816.5	807.5	805.0
15°	2662.8	2551.6	2146.7	1618.9	1141.0	865.0	784.5	783.3	788.3	785.9	784.5
17.5°	2719.0	2555.5	2004.8	1350.5	880.4	762.8	759.0	770.5	778.2	774.3	773.1
20°	2791.9	2570.8	1854.0	1084.9	756.4	737.3	746.2	756.4	762.8	756.4	755.1
22.5°	2894.1	2597.7	1689.2	871.5	716.8	721.9	729.6	741.1	747.5	738.5	737.3
25°	3019.3	2639.9	1526.9	757.7	697.6	704.1	715.6	728.4	735.9	727.0	725.8
27.5°	3181.6	2707.5	1377.4	732.2	678.4	682.3	698.9	718.1	728.4	716.8	716.8
30°	3416.7	2818.7	1248.3	743.6	667.0	658.0	681.0	707.9	719.3	709.2	707.9
32.5°	3728.4	2975.9	1169.1	761.6	661.8	630.0	651.7	686.1	705.3	698.9	698.9
35°	4137.4	3214.8	1138.5	782.0	658.0	600.5	615.9	652.9	686.1	692.6	692.6
37.5°	4633.1	3547.0	1147.4	790.9	646.6	576.3	583.9	615.9	659.3	679.8	684.9
40°	5196.6	3934.2	1198.5	782.0	633.8	555.9	557.1	581.4	619.7	650.4	660.6
42.5°	5778.0	4386.5	1293.0	748.8	622.3	537.9	534.1	550.7	576.3	598.0	606.9
45°	6331.3	4851.6	1386.3	702.7	608.2	520.1	511.1	517.5	522.6	531.6	536.7
47.5°	6814.3	5178.7	1359.6	660.6	589.1	499.6	484.3	481.7	466.4	465.1	463.8
50°	7147.7	5250.3	1207.4	618.4	561.0	476.6	452.3	437.0	410.2	397.4	398.6
52.5°	7253.8	4967.9	986.5	576.3	515.0	446.0	411.4	387.1	353.9	342.5	341.1
55°	7113.3	4414.7	788.3	525.1	451.0	405.1	366.7	334.8	307.9	293.9	293.9
57.5°	6769.5	3710.6	623.5	465.1	383.3	359.1	320.7	288.7	265.8	251.7	249.2
60°	6199.7	2946.5	493.2	393.5	327.1	309.2	269.6	249.2	228.7	212.1	208.3
62.5°	5334.6	2103.2	387.1	311.8	273.5	253.0	230.0	214.6	190.3	167.4	163.6
65°	4162.9	1286.7	299.0	228.7	219.8	209.5	195.5	181.4	152.0	129.0	125.3
67.5°	2625.7	609.5	213.4	172.5	173.7	168.6	162.3	150.8	129.0	108.6	106.1
70°	1156.4	295.2	140.5	131.6	129.0	129.0	134.2	130.4	109.9	90.7	86.9
72.5°	393.5	158.5	104.8	99.6	93.3	92.0	112.4	108.6	88.1	70.3	66.4
75°	205.7	106.1	76.7	71.5	56.2	67.8	89.5	84.4	62.6	46.0	42.1
77.5°	134.2	75.3	52.4	46.0	32.0	44.7	66.4	58.7	37.1	23.0	20.4
80°	84.4	49.8	30.6	21.7	15.4	24.3	35.8	25.5	14.0	5.1	3.8
82.5°	44.7	25.5	11.5	7.7	6.4	7.7	8.9	6.4	2.6	0.0	0.0
85°	17.9	8.9	3.8	2.6	1.2	0.0	2.6	1.2	0.0	0.0	0.0
87.5°	6.4	1.2	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)