

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: P964609

Luminaire Tested: **NAV-SB3C-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24083.4 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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

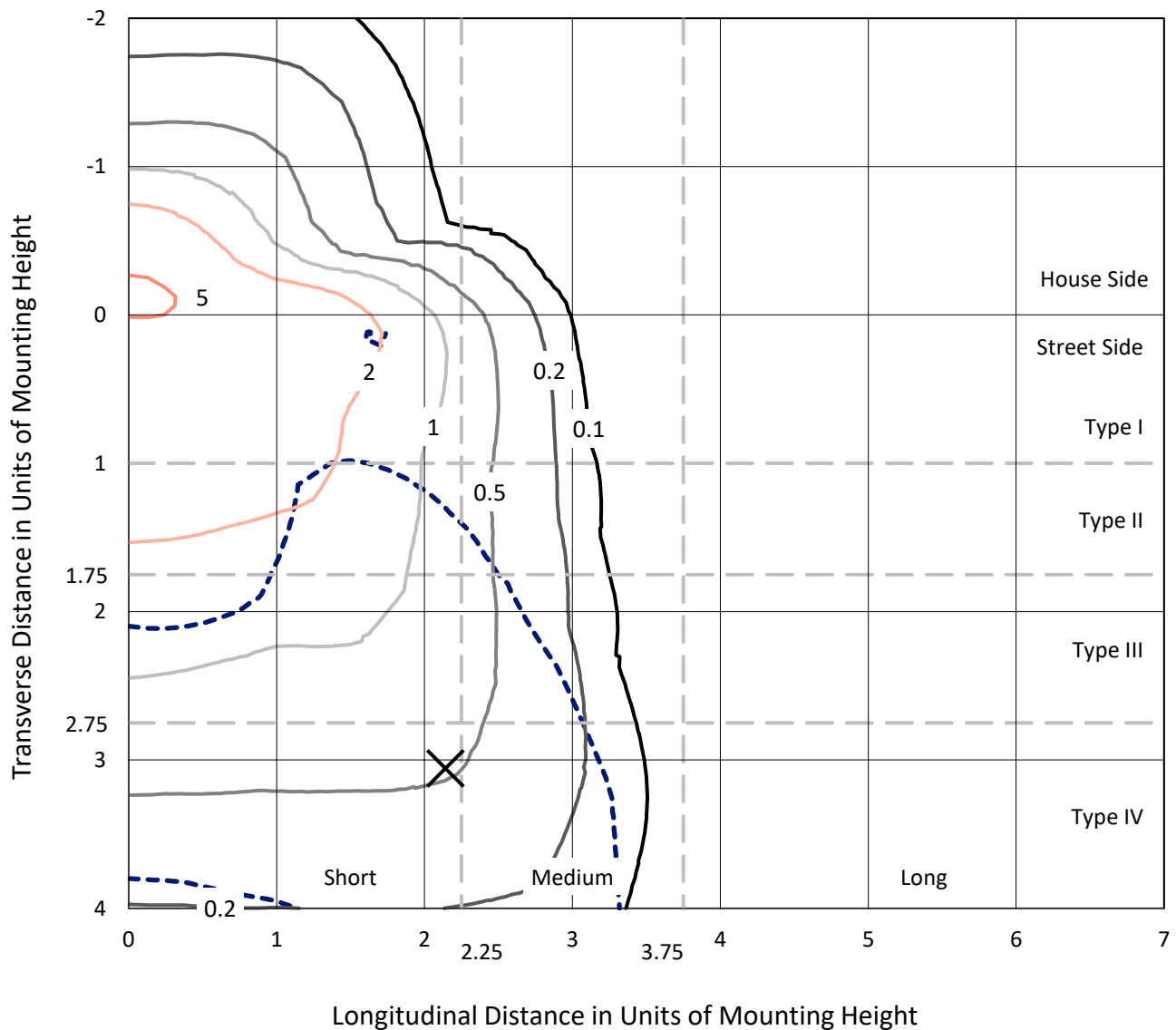


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Iso-Footcandle Lines of Horizontal Illumination

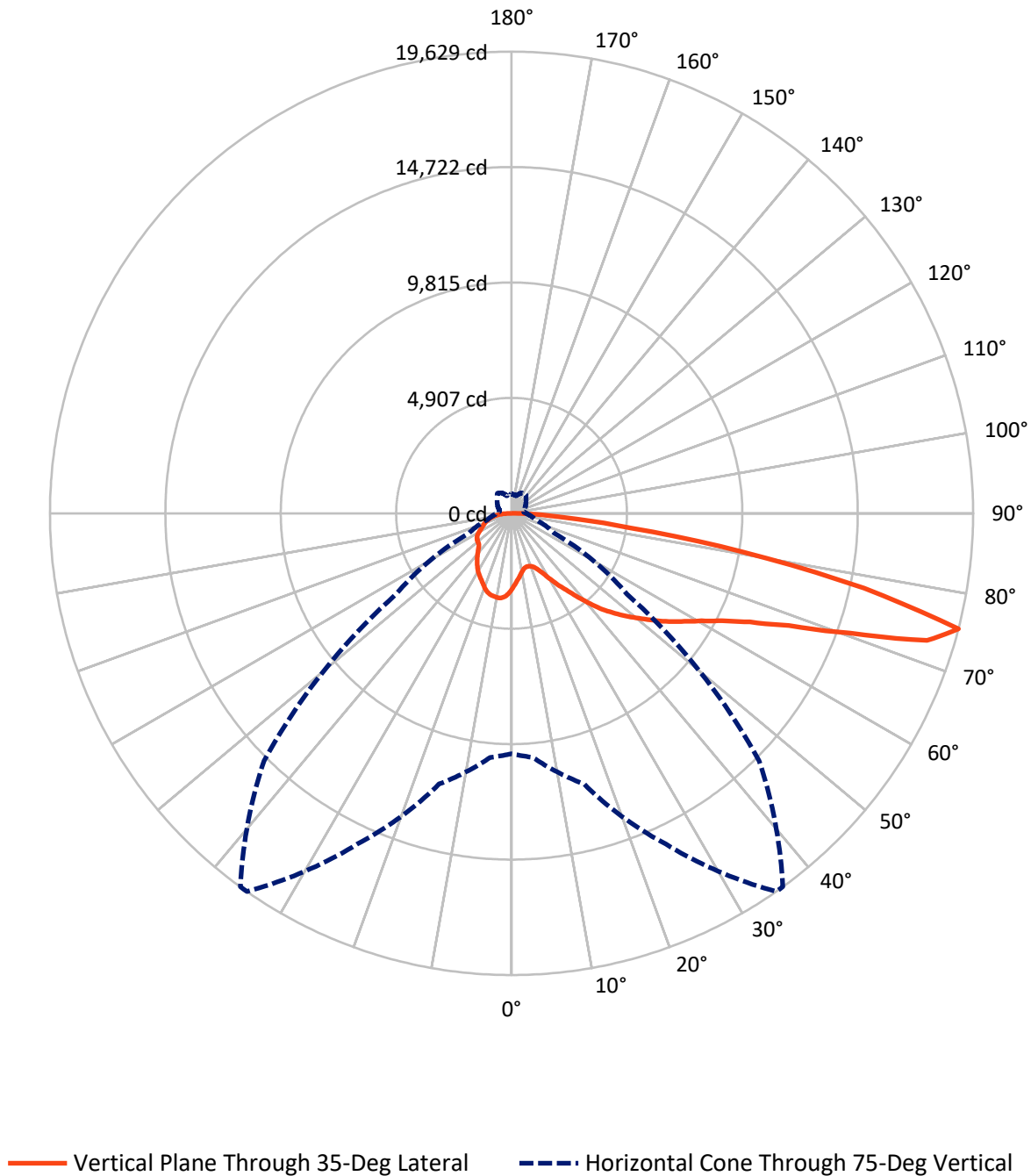
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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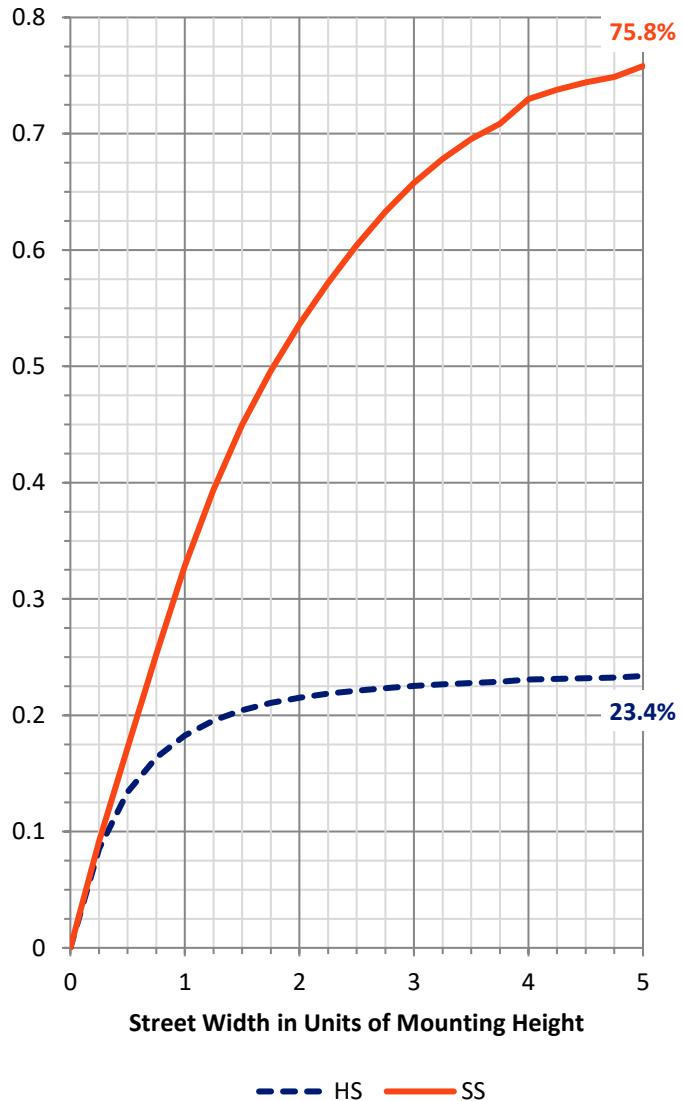
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5731.3	0.0	5731.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18352.1	0.0	18352.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	24083.4	0.0	24083.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	1.3
10°-20°	876.5	3.6
20°-30°	1471.8	6.1
30°-40°	2287.4	9.5
40°-50°	3395.0	14.1
50°-60°	4687.1	19.5
60°-70°	5686.5	23.6
70°-80°	4699.4	19.5
80°-90°	675.9	2.8
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°	24083.4	100.0
0°-180°	24083.4	100.0

Coefficient of Utilization



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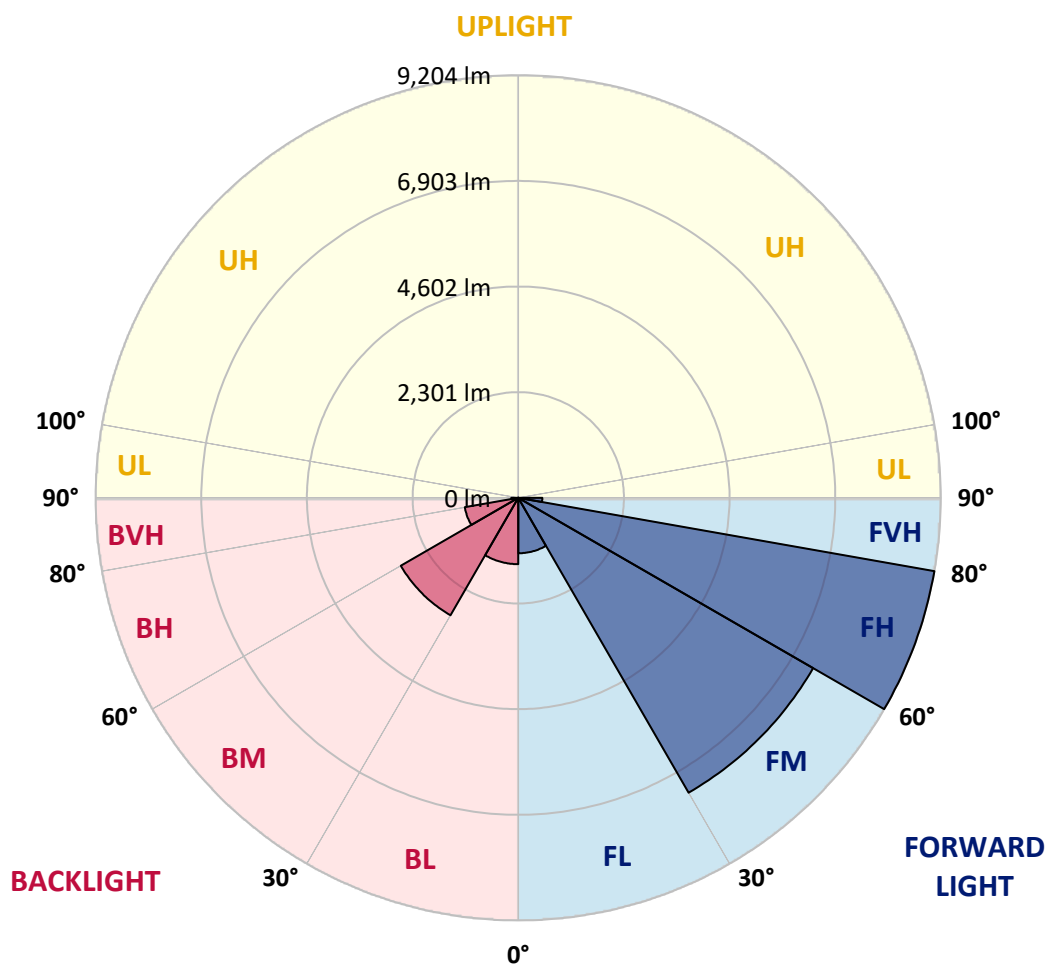
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1207.7	5.0			
FM	(30°-60°)	7416.4	30.8			
FH	(60°-80°)	9204.3	38.2			G4/12000
FVH	(80°-90°)	523.7	2.2			G4/750
BL	(0°-30°)	1444.4	6.0	B3/2500		
BM	(30°-60°)	2953.1	12.3	B3/5000		
BH	(60°-80°)	1181.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	152.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3
2.5°	2959.3	2977.5	2985.3	2981.4	3001.0	2998.3	3025.7	3059.5	3106.5	3152.0	3218.4
5°	2731.4	2751.0	2767.9	2783.6	2821.3	2833.0	2875.9	2941.0	3027.0	3114.3	3223.6
7.5°	2519.2	2536.2	2562.2	2590.9	2654.6	2666.3	2738.0	2839.6	2959.3	3086.9	3237.9
10°	2346.1	2363.0	2390.4	2422.9	2502.3	2516.7	2607.8	2743.2	2899.4	3060.9	3253.6
12.5°	2271.9	2277.0	2292.7	2325.2	2394.3	2403.4	2503.7	2658.5	2840.8	3041.3	3277.0
15°	2268.0	2278.4	2279.7	2296.6	2353.9	2357.8	2450.3	2603.9	2804.4	3037.4	3312.1
17.5°	2307.1	2314.9	2303.2	2313.5	2361.7	2368.3	2441.1	2577.9	2792.6	3054.3	3372.0
20°	2411.2	2417.7	2382.5	2368.3	2403.4	2408.5	2480.2	2594.8	2804.4	3089.5	3454.0
22.5°	2632.5	2636.4	2550.5	2491.9	2494.5	2497.1	2559.6	2663.8	2849.9	3153.3	3558.2
25°	2977.5	2975.0	2838.2	2725.0	2659.9	2645.5	2687.2	2775.7	2926.8	3237.9	3692.3
27.5°	3381.2	3361.6	3224.9	3055.6	2913.8	2892.9	2883.8	2921.6	3036.2	3349.9	3856.4
30°	3836.8	3818.5	3671.4	3450.2	3253.6	3219.7	3133.7	3114.3	3198.8	3502.2	4084.2
32.5°	4336.8	4325.0	4149.3	3881.1	3618.0	3579.0	3434.5	3382.4	3448.8	3732.6	4401.9
35°	4756.0	4745.5	4599.8	4323.8	4002.1	3953.9	3806.8	3748.3	3782.1	4028.1	4817.2
37.5°	5134.8	5129.6	5004.7	4787.3	4455.3	4396.6	4231.3	4211.7	4205.3	4417.4	5321.0
40°	5486.4	5473.3	5343.1	5228.6	4982.5	4929.1	4783.4	4766.4	4716.9	4896.6	5891.3
42.5°	5875.6	5841.8	5653.0	5599.7	5533.3	5489.0	5401.7	5404.3	5294.9	5436.9	6495.3
45°	6193.4	6173.8	5979.8	5948.6	6020.1	6001.9	6077.4	6097.0	5884.7	6003.2	7122.9
47.5°	6534.4	6516.2	6352.1	6330.0	6524.0	6529.2	6796.2	6802.6	6460.2	6591.7	7751.8
50°	6954.9	6928.9	6766.1	6793.5	7010.9	7030.5	7518.7	7474.4	6990.1	7189.4	8375.4
52.5°	7232.3	7247.9	7212.7	7257.0	7553.8	7572.1	8229.5	8116.3	7514.8	7779.0	8987.3
55°	7436.7	7467.9	7577.3	7678.8	8126.7	8145.0	8900.1	8726.8	7949.6	8325.9	9562.7
57.5°	7699.7	7655.4	7859.8	8057.7	8670.9	8719.1	9552.3	9315.4	8335.0	8797.2	9957.3
60°	8077.2	8045.9	8204.8	8497.8	9280.2	9357.0	10242.3	9845.2	8617.5	9170.9	10034.0
62.5°	8842.8	8764.7	8789.4	9048.5	10048.4	10149.9	11020.9	10307.4	8758.1	9316.6	9622.6
65°	9987.2	9853.0	9728.1	9907.8	11130.3	11230.5	11899.7	10670.7	8706.0	9034.1	8530.3
67.5°	11428.4	11295.6	11142.0	11311.2	12723.8	12803.3	12984.2	10875.0	8295.9	7945.7	6599.6
70°	12617.0	12567.6	12751.2	13447.7	15269.1	15271.7	14374.7	10705.8	7172.3	5633.5	3818.5
72.5°	12459.6	12429.6	13397.0	15550.4	18477.1	18408.1	15690.9	9424.8	4831.4	2541.4	1430.8
75°	10221.5	10415.5	11914.0	15512.6	19629.3	19620.2	14885.0	5991.5	1998.4	1053.3	739.5
77.5°	5481.2	5788.4	7734.9	11453.1	15323.9	15554.3	10464.9	2096.1	858.0	674.4	511.7
80°	1787.6	2055.7	3083.0	5831.3	9957.3	9914.2	4485.2	822.9	587.2	477.9	354.1
82.5°	759.0	790.3	1377.5	2753.6	5110.1	5030.7	1428.2	472.6	412.7	326.8	218.7
85°	296.8	332.0	608.0	1273.3	2213.3	2165.1	515.6	234.3	264.2	213.5	130.2
87.5°	97.7	118.5	217.4	436.1	688.7	664.0	126.3	80.8	114.6	97.7	46.8
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°	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3	3209.3
2.5°	3236.6	3257.4	3282.2	3318.6	3349.9	3375.9	3403.3	3420.2	3426.7	3446.3	3444.9
5°	3260.0	3305.6	3366.8	3426.7	3485.3	3520.5	3551.7	3567.3	3581.7	3592.0	3594.7
7.5°	3299.1	3357.7	3454.0	3532.2	3581.7	3610.3	3631.1	3625.9	3631.1	3633.7	3637.6
10°	3333.0	3415.0	3529.6	3603.8	3641.5	3642.8	3637.6	3619.4	3610.3	3611.6	3614.2
12.5°	3373.3	3464.5	3588.1	3650.6	3661.1	3632.4	3610.3	3579.0	3567.3	3562.1	3559.5
15°	3428.0	3532.2	3652.0	3675.3	3649.3	3612.9	3575.1	3524.4	3498.3	3477.5	3484.0
17.5°	3494.4	3608.9	3701.4	3684.5	3628.5	3568.6	3507.4	3430.6	3377.3	3355.1	3356.4
20°	3586.9	3689.7	3739.2	3665.0	3580.3	3489.2	3385.1	3291.3	3241.9	3219.7	3217.1
22.5°	3698.8	3797.7	3775.6	3631.1	3511.3	3365.5	3235.3	3166.3	3141.6	3125.9	3128.5
25°	3832.9	3917.6	3801.6	3581.7	3398.1	3201.5	3101.2	3079.1	3067.4	3055.6	3055.6
27.5°	4007.3	4053.0	3821.2	3508.7	3221.0	3027.0	2990.5	2994.4	2990.5	2971.1	2975.0
30°	4237.8	4228.7	3839.4	3390.3	3017.9	2869.5	2872.0	2889.0	2891.6	2878.6	2885.1
32.5°	4541.2	4448.7	3848.6	3236.6	2823.9	2731.4	2734.1	2752.3	2765.3	2743.2	2753.6
35°	4908.3	4705.2	3834.2	3043.9	2674.2	2600.0	2580.4	2585.7	2589.6	2568.8	2583.0
37.5°	5336.7	4993.0	3770.4	2830.4	2550.5	2471.1	2429.5	2394.3	2373.4	2353.9	2366.9
40°	5806.6	5306.7	3653.2	2622.1	2412.4	2334.3	2271.9	2205.5	2135.2	2109.1	2120.8
42.5°	6298.7	5629.6	3511.3	2422.9	2253.7	2189.8	2123.5	2027.1	1921.7	1868.3	1874.8
45°	6809.2	5960.3	3372.0	2226.3	2090.9	2063.5	1986.8	1870.9	1756.3	1688.6	1683.4
47.5°	7309.1	6272.7	3167.7	2028.4	1938.6	1968.5	1908.7	1801.8	1674.3	1567.5	1555.8
50°	7786.9	6565.6	2833.0	1827.9	1814.9	1939.9	1882.6	1729.0	1583.1	1446.5	1434.7
52.5°	8260.8	6802.6	2404.6	1645.6	1748.5	1932.1	1848.8	1679.5	1501.1	1357.9	1342.3
55°	8663.1	6925.0	1992.0	1489.4	1652.2	1865.7	1808.4	1620.9	1385.3	1233.0	1220.0
57.5°	8892.2	6826.1	1648.3	1335.8	1519.4	1756.3	1739.4	1495.9	1247.2	1130.1	1114.5
60°	8793.3	6425.1	1367.0	1201.7	1393.1	1637.8	1619.6	1372.3	1141.8	1031.1	1015.5
62.5°	8247.8	5660.9	1144.4	1084.6	1278.5	1516.8	1499.9	1277.1	1061.1	954.3	937.4
65°	7149.0	4604.9	971.3	986.9	1162.7	1370.9	1395.6	1197.8	997.3	893.1	876.2
67.5°	5452.5	3335.6	835.9	902.2	1049.4	1227.7	1299.3	1140.5	943.9	844.9	829.3
70°	3107.7	1894.3	721.3	820.2	949.1	1094.9	1225.1	1094.9	886.6	804.6	794.2
72.5°	1178.2	869.7	623.6	738.2	852.8	983.0	1143.1	1023.4	820.2	759.0	748.7
75°	628.8	529.9	524.7	641.9	742.1	873.6	1040.3	953.0	770.7	802.0	828.0
77.5°	428.3	374.9	438.8	549.4	621.0	752.6	930.9	846.2	667.9	665.3	613.3
80°	296.8	265.6	356.7	442.7	480.4	632.7	812.4	726.5	544.2	507.8	485.6
82.5°	178.4	173.1	266.9	330.7	339.8	488.2	673.1	609.3	445.3	388.0	390.6
85°	97.7	102.8	170.6	194.0	197.9	341.1	527.3	471.3	342.5	287.7	290.4
87.5°	27.4	35.2	62.5	76.8	95.0	177.0	313.8	279.9	171.9	119.8	119.8
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)