

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: P965131

Luminaire Tested: **NAV-SB3D-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965131
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-SB3D-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 900mA 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: 25966.3 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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



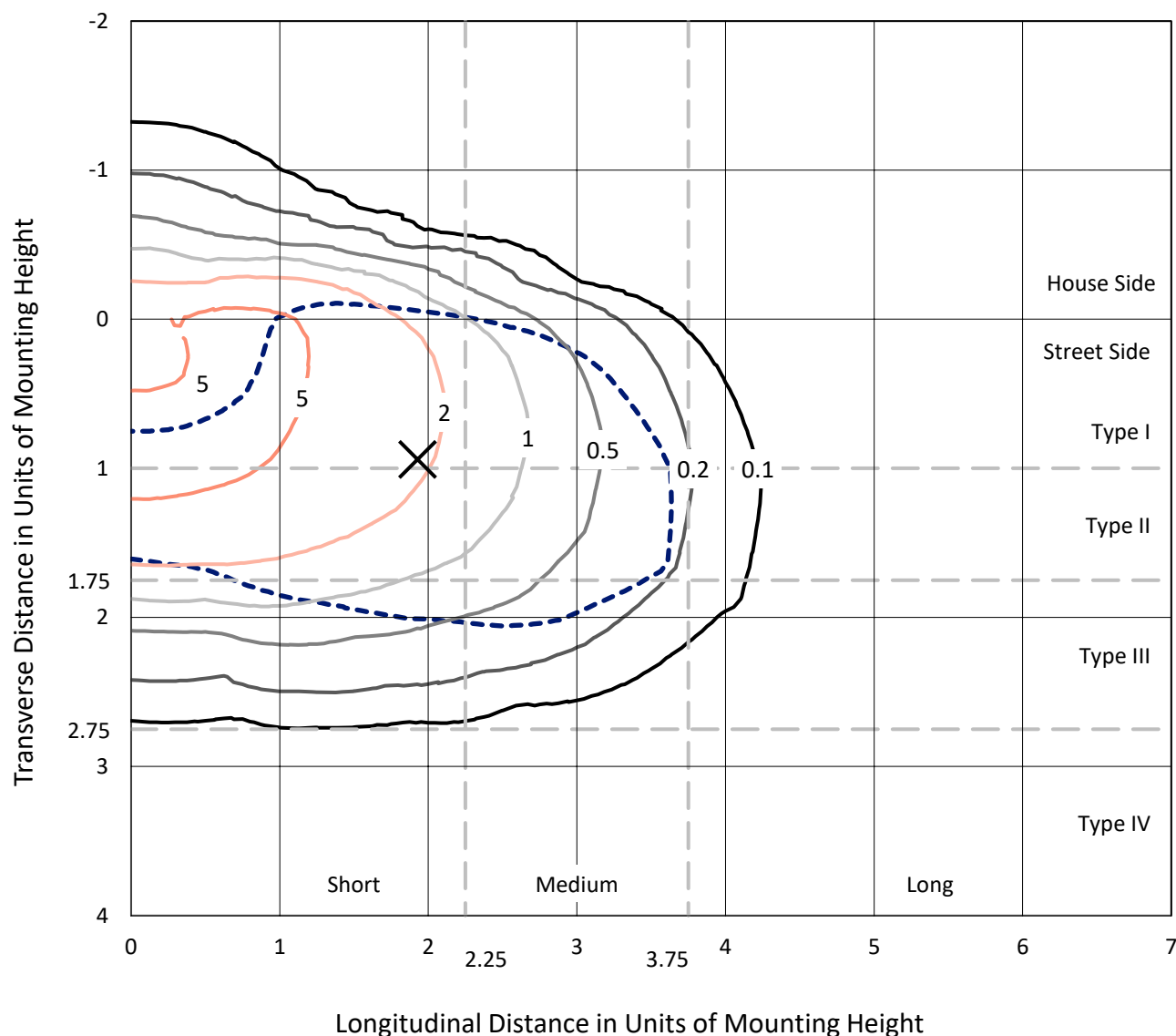
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



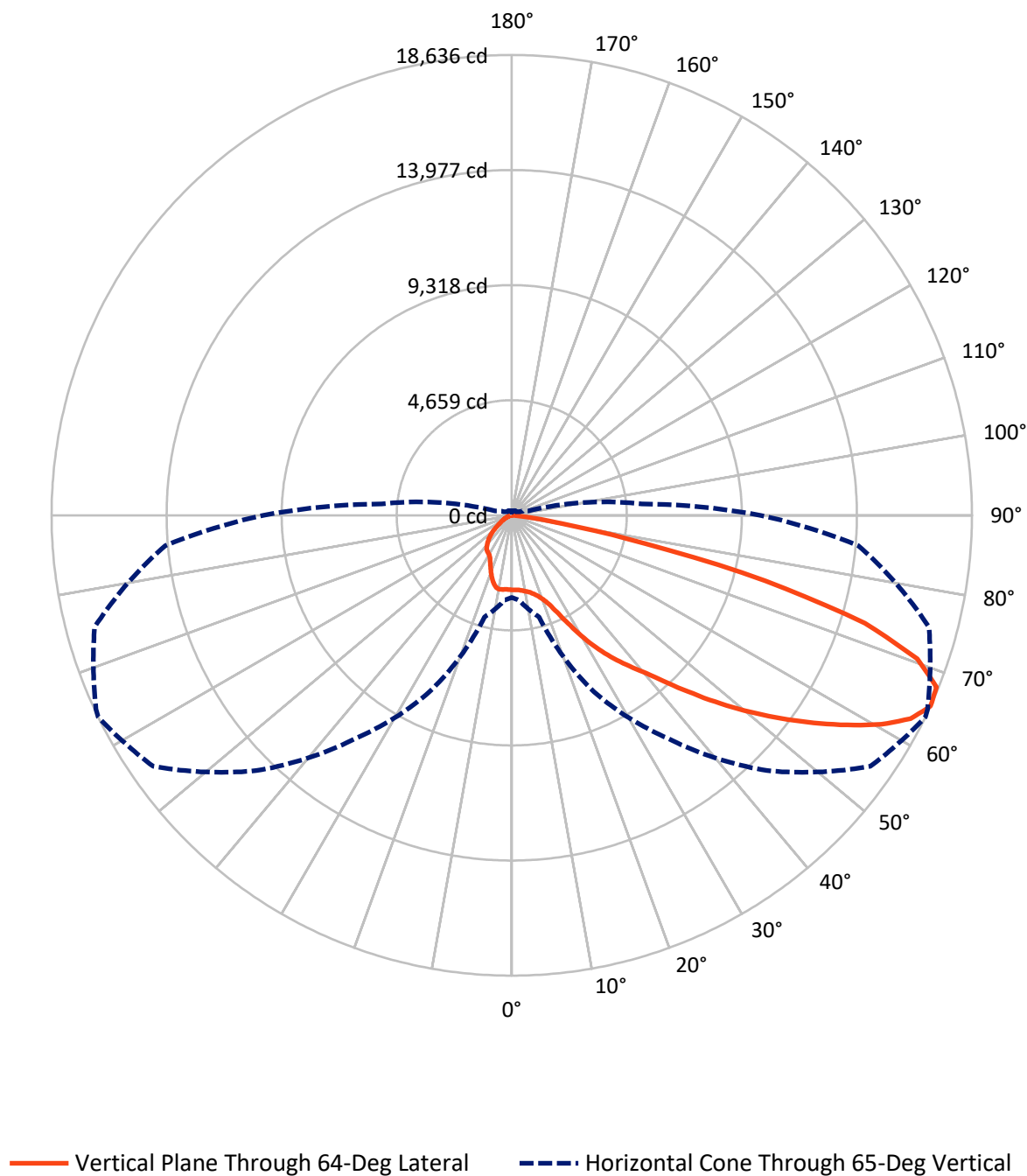
Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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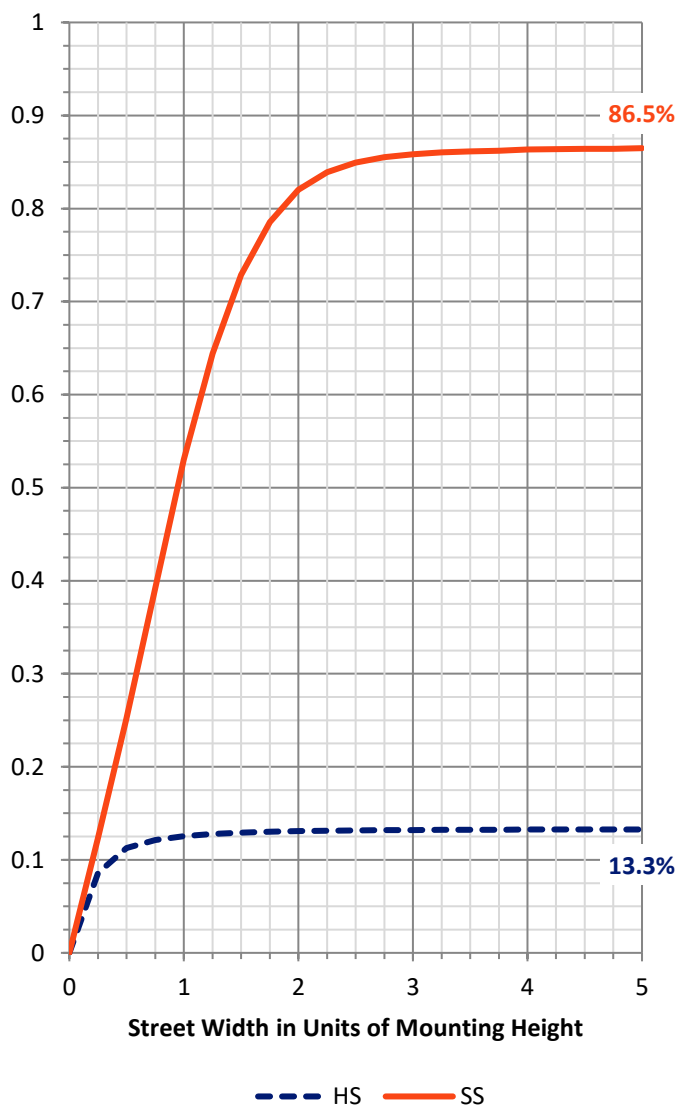
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3472.5	0.0	3472.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22493.8	0.0	22493.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	25966.3	0.0	25966.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	1.1
10°-20°	755.8	2.9
20°-30°	1432.1	5.5
30°-40°	2897.9	11.2
40°-50°	4936.5	19.0
50°-60°	6713.3	25.9
60°-70°	6304.1	24.3
70°-80°	2525.7	9.7
80°-90°	122.4	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°	25966.3	100.0
0°-180°	25966.3	100.0

Coefficient of Utilization



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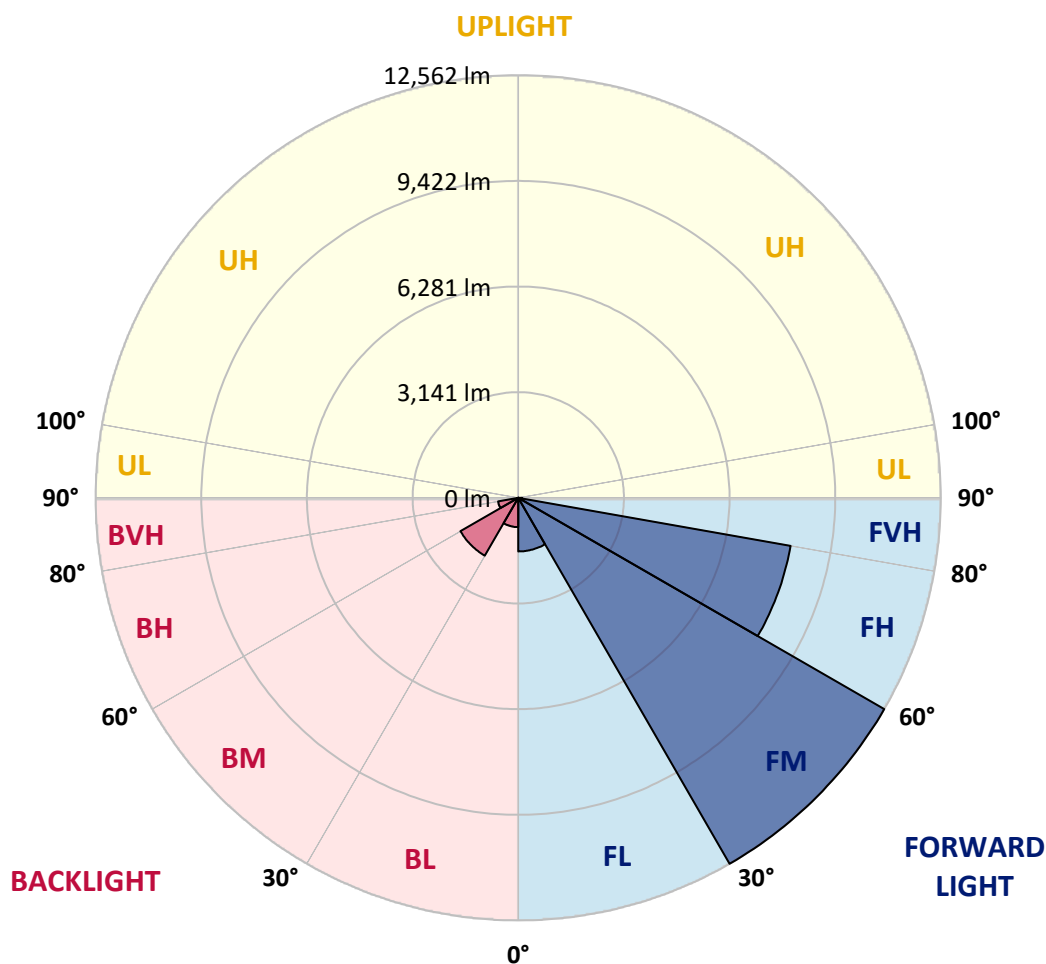
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1594.6	6.1			
FM	(30°-60°)	12562.5	48.4			
FH	(60°-80°)	8220.3	31.7			G4/12000
FVH	(80°-90°)	116.4	0.4			G2/225
BL	(0°-30°)	871.8	3.4	B2/1000		
BM	(30°-60°)	1985.2	7.6	B2/2500		
BH	(60°-80°)	609.5	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2
2.5°	3009.7	3030.6	3025.4	3020.2	3018.4	3021.9	3023.6	3021.9	3021.9	3021.9	3023.6
5°	2952.3	2969.6	2969.6	2981.8	2999.3	3020.2	3035.8	3039.3	3042.8	3048.0	3046.3
7.5°	2842.6	2856.6	2866.9	2907.0	2950.6	3006.2	3053.3	3077.6	3081.0	3100.2	3107.2
10°	2767.7	2785.1	2802.6	2844.4	2907.0	2990.5	3070.6	3129.8	3138.5	3183.8	3204.7
12.5°	2764.2	2781.6	2804.3	2849.6	2922.7	3011.4	3108.9	3194.2	3209.9	3276.0	3319.6
15°	2800.8	2821.7	2842.6	2898.3	2976.6	3084.5	3189.0	3295.2	3310.9	3404.8	3451.9
17.5°	2875.6	2903.5	2919.2	2974.9	3058.5	3178.5	3316.1	3438.0	3451.9	3561.6	3620.7
20°	3023.6	3056.8	3061.9	3107.2	3189.0	3317.8	3481.4	3632.9	3650.3	3775.6	3841.8
22.5°	3330.0	3377.0	3335.2	3357.9	3431.0	3559.8	3737.4	3928.8	3953.2	4095.9	4155.1
25°	3869.6	3935.8	3827.9	3789.5	3820.9	3955.0	4177.7	4419.7	4447.6	4562.5	4592.0
27.5°	4929.7	4844.5	4680.8	4520.7	4426.7	4503.2	4754.0	5053.4	5088.1	5199.5	5164.8
30°	6094.2	6019.4	5798.3	5443.3	5220.4	5208.2	5439.8	5773.9	5814.0	5920.2	5814.0
32.5°	7260.6	7189.1	6949.0	6512.0	6125.6	5934.1	6094.2	6465.1	6485.9	6553.8	6397.1
35°	8407.7	8334.6	8094.3	7647.0	7171.8	6736.6	6705.2	7123.0	7130.0	7201.3	6968.2
37.5°	9561.8	9500.8	9245.0	8806.3	8338.1	7737.5	7446.8	7746.2	7754.9	7824.5	7582.5
40°	10385.2	10411.2	10235.4	9896.0	9493.9	8837.7	8278.9	8409.4	8357.2	8473.9	8329.4
42.5°	11091.8	11144.1	10990.9	10820.3	10587.1	10009.1	9309.4	9286.7	9203.2	9265.9	9116.1
45°	11702.8	11746.4	11608.8	11568.9	11563.6	11158.0	10435.6	10299.8	10183.3	10171.1	9991.7
47.5°	11927.4	12010.9	12070.2	12204.2	12465.3	12294.8	11600.1	11389.6	11259.0	11163.3	10879.6
50°	12012.7	12101.5	12303.4	12693.4	13311.3	13384.4	12759.5	12522.7	12362.6	12188.6	11770.8
52.5°	11897.8	12056.3	12327.8	12984.1	13880.6	14258.3	13871.8	13664.7	13481.9	13198.2	12578.5
55°	11220.7	11379.1	11934.4	12980.6	14164.3	14871.0	14923.2	14830.9	14625.5	14178.2	13231.2
57.5°	9793.3	10028.3	10907.3	12538.4	14159.0	15398.5	15953.7	16019.8	15790.1	15149.5	13744.7
60°	7815.8	8134.4	9206.7	11558.4	13722.1	15683.9	16857.1	17187.9	16944.2	16107.0	14160.8
62.5°	5453.7	5822.7	6837.6	10023.1	12722.9	15478.5	17516.8	18127.8	17943.3	16963.3	14320.9
65°	3326.5	3444.9	4263.1	7887.2	11024.0	14618.6	17720.5	18636.1	18575.3	17487.3	14084.2
67.5°	2215.9	2315.2	2550.2	5408.4	8557.4	12900.4	17233.1	18547.4	18564.8	17402.0	13217.3
70°	1335.2	1420.4	1573.6	3145.5	5546.0	10211.0	15723.9	17415.9	17516.8	16261.8	11574.1
72.5°	550.1	607.5	746.8	1425.7	2872.2	6480.7	12521.0	14952.8	15187.8	13673.4	8882.9
75°	311.6	341.2	438.7	715.4	1246.4	3020.2	7584.3	10614.9	10961.3	9424.3	5344.0
77.5°	207.2	221.1	283.7	463.0	701.5	1030.5	3241.3	5530.3	6191.7	5147.3	2313.4
80°	139.3	151.4	195.0	309.9	456.0	442.2	1032.3	2048.9	2520.6	1768.5	564.0
82.5°	94.0	95.7	139.3	203.7	288.9	214.1	304.6	637.1	800.7	511.8	214.1
85°	53.9	52.2	102.7	118.4	128.8	88.8	92.2	191.5	250.7	215.9	121.9
87.5°	7.0	10.5	40.1	31.4	17.4	19.2	19.2	33.1	48.8	52.2	26.1
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°	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2	3020.2
2.5°	3023.6	3021.9	3016.7	3011.4	2999.3	2992.3	2995.8	2992.3	2990.5	2992.3	2999.3
5°	3046.3	3041.1	3027.1	3009.7	2985.3	2955.8	2936.6	2908.7	2882.6	2866.9	2870.4
7.5°	3107.2	3102.0	3082.8	3034.1	2955.8	2832.2	2719.0	2619.8	2545.0	2501.4	2503.2
10°	3204.7	3196.0	3166.3	3058.5	2853.1	2583.2	2358.6	2172.4	2050.6	1993.1	1987.9
12.5°	3319.6	3309.1	3256.9	3035.8	2658.1	2236.9	1927.0	1719.8	1606.7	1556.2	1551.0
15°	3455.4	3441.4	3338.7	2927.9	2374.3	1853.9	1570.1	1415.2	1342.1	1296.8	1298.6
17.5°	3624.2	3599.8	3399.6	2766.0	2066.2	1561.4	1350.8	1234.2	1169.7	1126.3	1122.8
20°	3843.5	3803.5	3448.4	2572.8	1782.5	1376.9	1202.8	1105.4	1056.6	1018.3	1011.4
22.5°	4149.9	4092.4	3507.6	2363.9	1582.3	1249.9	1093.2	1021.8	981.7	938.3	931.3
25°	4529.4	4461.5	3580.6	2170.6	1444.8	1140.2	1013.1	953.9	906.9	856.4	851.3
27.5°	5060.3	4938.4	3667.7	2012.3	1326.5	1046.2	940.0	873.8	819.9	778.1	769.4
30°	5652.2	5452.0	3744.3	1916.5	1218.5	959.1	844.3	778.1	727.6	698.0	692.8
32.5°	6212.6	5941.1	3794.8	1874.7	1121.0	859.9	739.8	668.4	630.2	621.5	626.7
35°	6741.8	6383.2	3789.5	1834.7	1034.0	760.7	637.1	564.0	534.4	539.7	539.7
37.5°	7351.1	6855.0	3753.0	1772.0	962.6	670.1	548.4	483.9	457.8	459.5	466.5
40°	8059.6	7399.8	3730.4	1653.7	884.3	586.6	475.2	423.0	403.8	396.9	395.1
42.5°	8815.0	7927.2	3733.9	1519.7	786.8	511.8	424.8	381.2	363.8	358.5	356.8
45°	9574.0	8430.3	3739.1	1380.4	684.1	454.3	388.2	351.6	341.2	334.3	334.3
47.5°	10287.7	8858.6	3641.6	1230.7	583.1	410.8	358.5	334.3	325.5	316.8	316.8
50°	10952.6	9144.0	3406.6	1056.6	503.1	376.0	336.0	318.6	309.9	301.1	301.1
52.5°	11469.6	9189.2	3018.4	877.3	447.4	349.9	322.1	306.4	295.9	287.2	285.5
55°	11699.3	8905.5	2466.6	710.2	403.8	327.3	308.1	292.4	280.2	271.5	269.8
57.5°	11640.2	8308.4	1923.5	570.9	362.0	304.6	290.7	280.2	266.3	252.4	250.7
60°	11349.5	7509.5	1450.1	475.2	323.8	280.2	271.5	262.8	243.7	222.8	219.4
62.5°	10846.4	6505.1	1034.0	393.4	282.0	252.4	249.0	242.0	214.1	175.8	172.3
65°	10077.1	5284.8	696.3	327.3	242.0	221.1	222.8	210.6	174.0	130.6	127.1
67.5°	8952.6	3864.4	445.7	268.0	201.9	184.5	186.2	179.3	148.0	111.4	106.2
70°	7519.9	2558.9	290.7	203.7	161.8	142.8	153.1	154.9	125.4	90.5	87.0
72.5°	5512.9	1511.0	203.7	151.4	118.4	99.2	125.4	128.8	101.0	67.9	64.4
75°	3142.0	717.2	153.1	109.7	73.1	69.6	97.5	97.5	69.6	45.3	41.8
77.5°	1319.5	299.4	107.9	71.3	41.8	40.1	66.1	60.9	34.8	20.9	20.9
80°	381.2	134.1	57.4	34.8	17.4	15.7	26.1	19.2	8.7	3.5	3.5
82.5°	149.8	59.1	22.7	13.9	7.0	7.0	3.5	0.0	0.0	0.0	0.0
85°	88.8	24.4	10.5	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	5.2	3.5	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)