

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: P969942

Luminaire Tested: **NAV-SB6A-760-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-760-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22722.2 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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



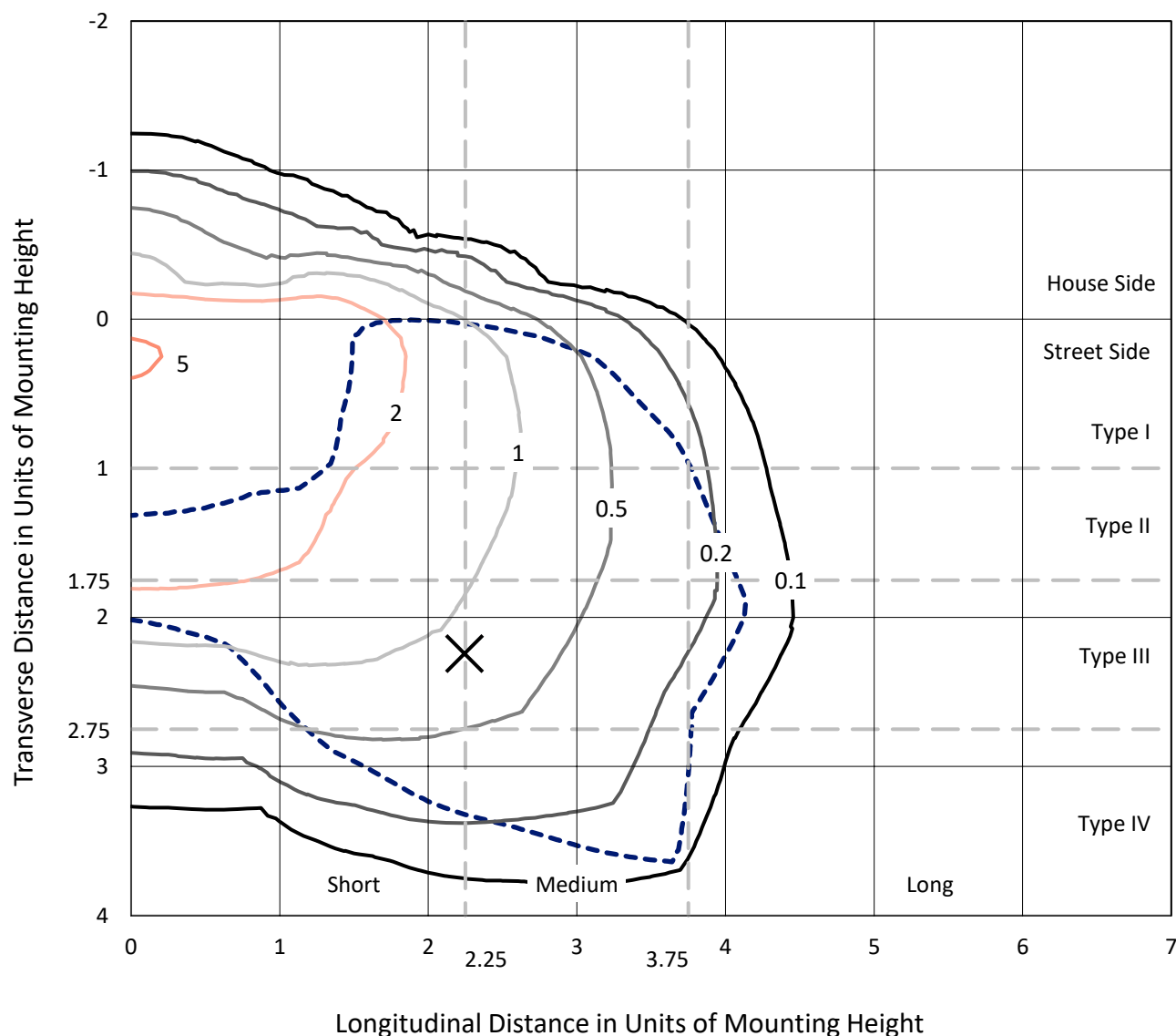
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

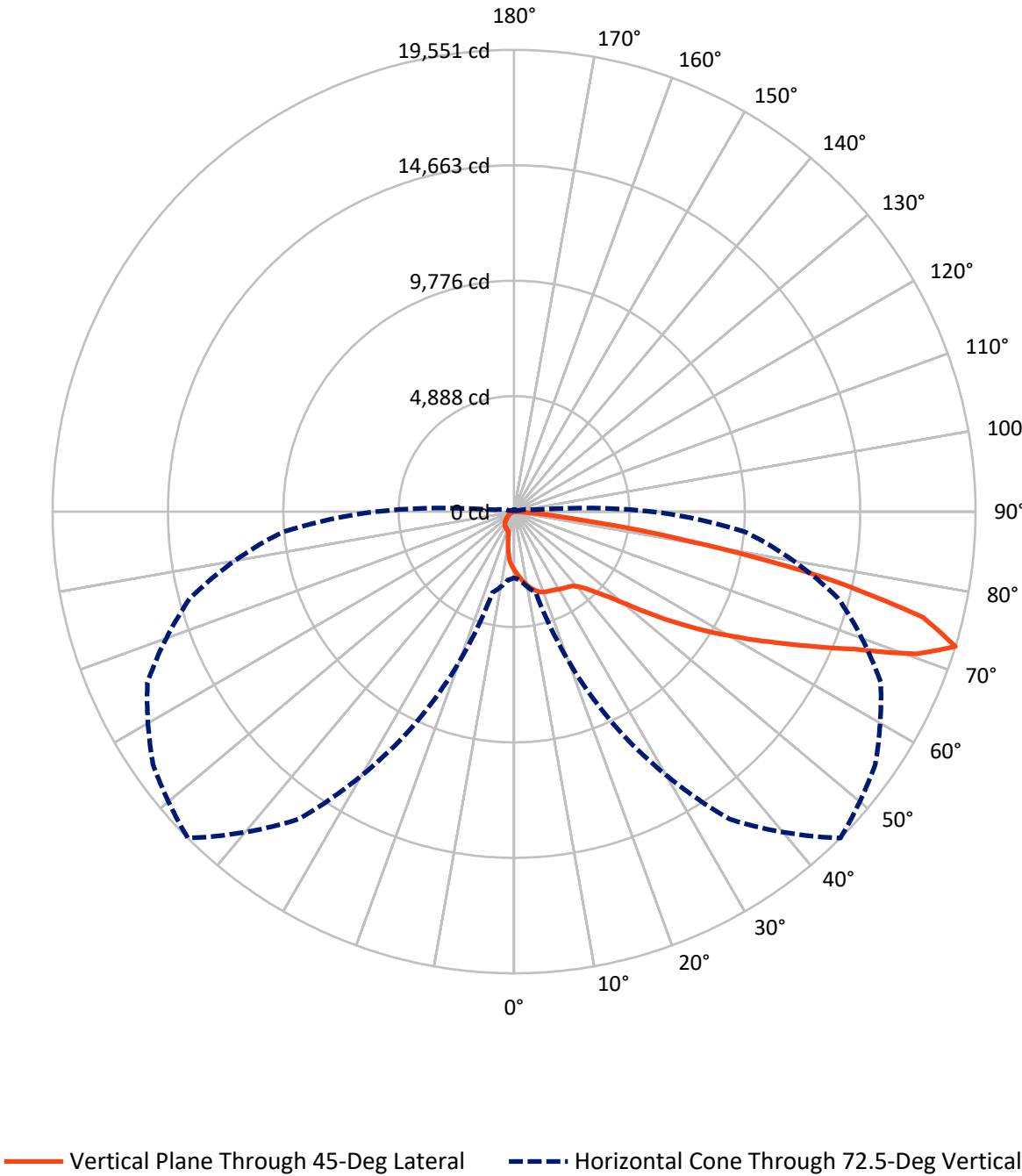


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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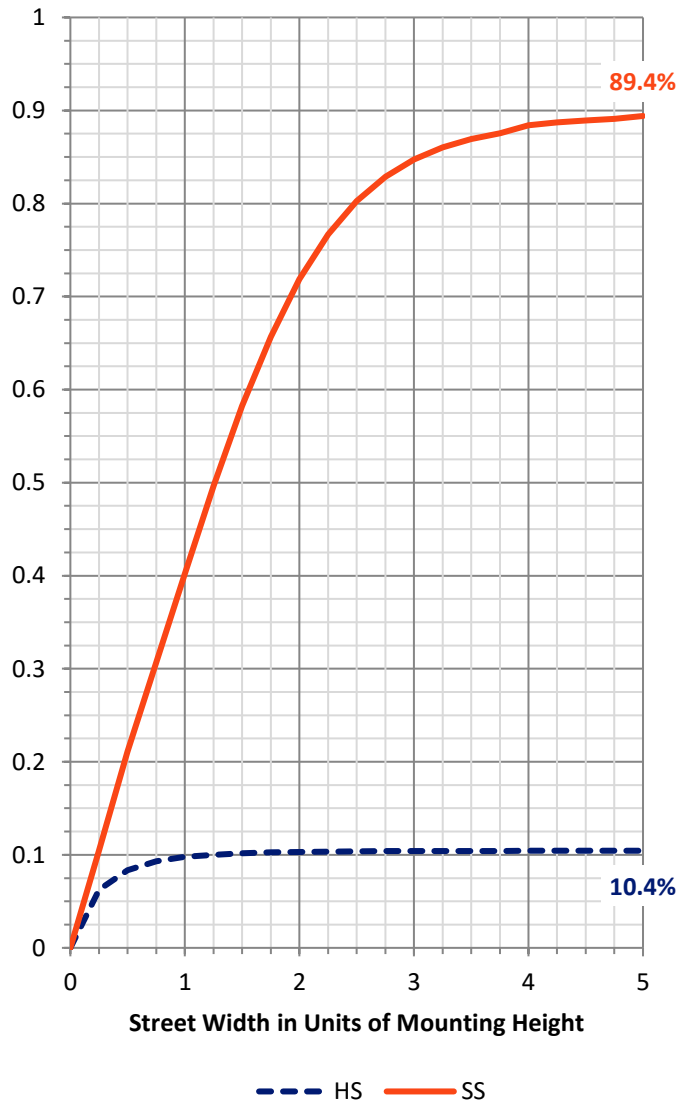
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.5	0.0	2387.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20334.7	0.0	20334.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	22722.2	0.0	22722.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	1.0
10°-20°	685.5	3.0
20°-30°	1125.6	5.0
30°-40°	1596.4	7.0
40°-50°	2638.7	11.6
50°-60°	4740.1	20.9
60°-70°	6581.9	29.0
70°-80°	4774.3	21.0
80°-90°	345.2	1.5
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°	22722.2	100.0
0°-180°	22722.2	100.0

Coefficient of Utilization



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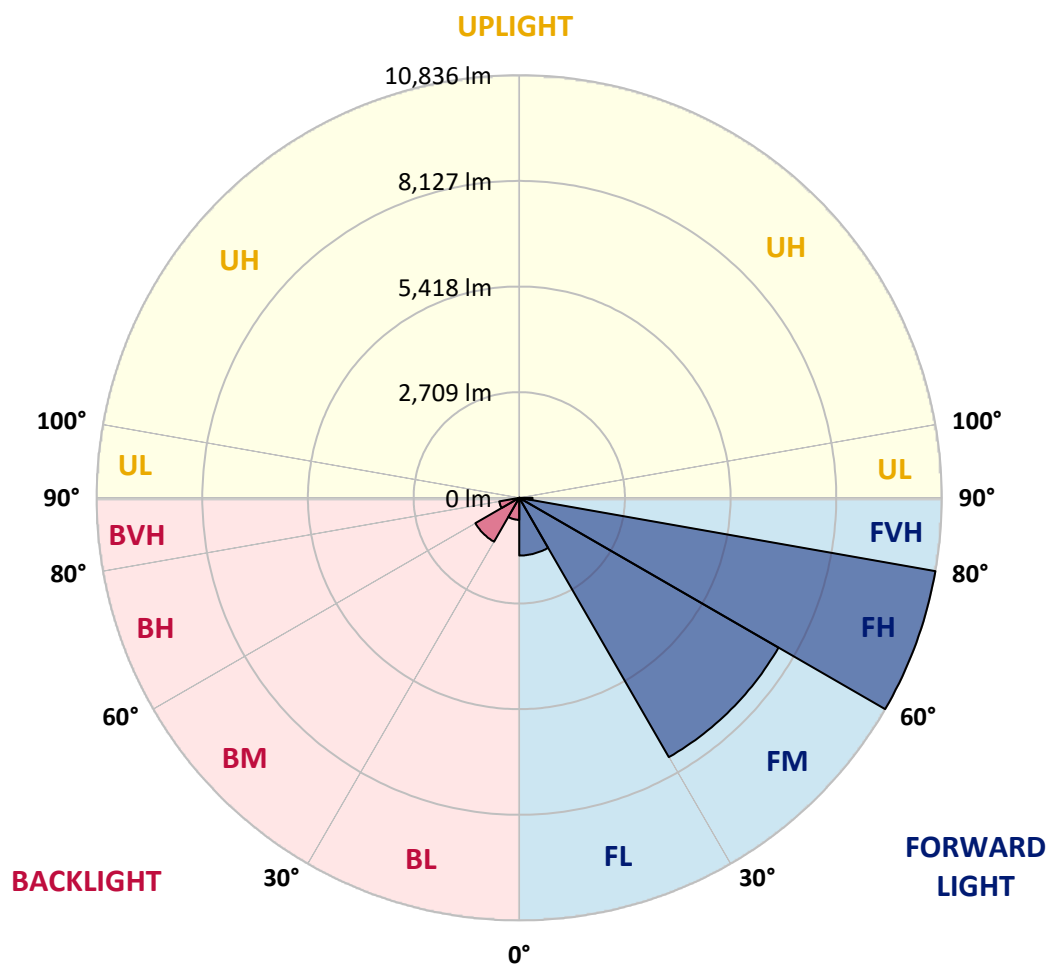
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.1	6.5			
FM	(30°-60°)	7676.8	33.8			
FH	(60°-80°)	10835.6	47.7			G4/12000
FVH	(80°-90°)	342.3	1.5			G3/500
BL	(0°-30°)	565.5	2.5	B2/1000		
BM	(30°-60°)	1298.4	5.7	B2/2500		
BH	(60°-80°)	520.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	2.9	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°	35°	45°	46°	55°	65°	75°	85°
0°	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3
2.5°	2718.8	2723.4	2720.4	2701.7	2670.7	2653.6	2644.4	2613.3	2593.1	2557.5	2520.3
5°	2968.5	2987.2	2976.3	2939.1	2880.1	2838.2	2825.8	2762.3	2704.9	2638.1	2560.7
7.5°	3233.7	3243.0	3222.9	3174.7	3095.7	3024.4	3013.5	2925.0	2833.6	2731.2	2625.7
10°	3463.3	3474.1	3443.1	3373.3	3283.4	3194.9	3179.4	3081.8	2973.1	2847.6	2712.6
12.5°	3655.6	3666.4	3626.1	3542.4	3443.1	3351.5	3336.1	3233.7	3114.3	2974.8	2807.2
15°	3801.3	3821.5	3767.3	3677.3	3570.3	3478.7	3471.1	3370.2	3253.9	3098.8	2920.4
17.5°	3886.7	3906.8	3855.6	3747.1	3655.6	3578.1	3568.7	3485.0	3376.5	3227.5	3030.5
20°	3900.6	3919.2	3865.0	3770.4	3694.3	3632.3	3627.7	3567.2	3488.1	3345.4	3149.9
22.5°	3858.7	3882.0	3832.4	3756.4	3703.6	3671.0	3664.9	3630.8	3585.8	3464.8	3261.7
25°	3815.4	3833.9	3796.7	3730.0	3702.1	3699.0	3703.6	3697.5	3688.2	3585.8	3391.9
27.5°	3812.2	3832.4	3790.6	3726.9	3711.4	3744.0	3748.6	3778.2	3785.8	3695.9	3517.5
30°	3838.6	3852.6	3812.2	3745.6	3737.8	3812.2	3813.8	3866.5	3878.9	3788.9	3641.6
32.5°	3895.9	3911.5	3871.1	3773.4	3762.6	3866.5	3871.1	3940.9	3961.1	3888.2	3771.9
35°	4030.9	4049.5	4003.0	3851.0	3812.2	3917.7	3931.6	4013.8	4054.2	3993.7	3906.8
37.5°	4367.4	4313.2	4249.5	4007.6	3925.4	3998.3	4021.6	4117.7	4189.1	4119.3	4068.1
40°	5203.4	5032.9	4834.3	4274.4	4124.0	4170.5	4189.1	4285.2	4383.0	4314.7	4289.9
42.5°	6458.1	6256.5	5937.0	4888.5	4423.3	4446.6	4460.5	4544.2	4682.3	4628.0	4634.2
45°	7576.4	7503.5	7177.8	5937.0	4983.1	4868.4	4885.5	4928.9	5132.1	5111.9	5152.3
47.5°	8435.5	8393.7	8142.5	7140.6	5929.2	5384.8	5432.9	5453.1	5746.3	5817.6	5926.1
50°	9096.3	9080.8	8855.9	8210.7	7165.4	6146.4	6163.4	6120.1	6559.0	6735.8	6942.0
52.5°	9719.8	9772.5	9606.5	9204.8	8485.3	7143.6	7140.6	6935.9	7528.3	7795.0	8147.1
55°	10282.8	10301.4	10318.5	10219.1	9812.8	8278.9	8249.5	7914.4	8652.7	8928.8	9310.3
57.5°	10811.6	10819.4	10971.4	11174.6	11194.7	9498.0	9443.7	9042.0	9881.1	10078.0	10312.2
60°	11166.8	11202.4	11523.6	12088.0	12334.6	10755.8	10726.3	10316.8	11131.1	11222.6	11179.2
62.5°	10655.0	10872.1	11681.7	12801.5	13411.0	12150.1	12136.1	11751.5	12446.4	12371.9	11999.7
65°	8624.8	8992.3	10416.2	13283.8	14467.2	13707.2	13727.4	13317.9	13797.2	13555.2	12666.5
67.5°	6033.2	6420.9	8105.2	13322.6	15647.4	15535.8	15652.2	15010.0	15231.8	14689.0	12824.8
70°	4172.1	4372.1	5468.6	12488.2	16567.2	18054.6	18051.5	17088.3	16658.7	15205.5	12018.2
72.5°	2805.6	2909.6	3551.6	9907.4	15891.0	19551.2	19461.3	18676.4	17139.4	14220.6	9819.0
75°	1183.4	1259.4	1644.0	5567.9	12571.9	17887.1	17643.5	16505.2	15228.7	11197.8	6126.2
77.5°	375.4	407.8	648.3	1993.0	6925.0	13445.1	13187.6	10307.6	10206.7	5617.5	2239.5
80°	178.4	207.9	364.5	800.3	2725.0	7312.7	7277.0	4676.0	4390.7	1516.8	449.8
82.5°	77.6	91.5	201.6	428.0	1219.0	2608.7	2661.4	1591.3	1316.7	575.4	138.1
85°	24.8	32.6	93.1	197.0	515.0	648.3	640.5	378.4	530.4	313.2	48.1
87.5°	0.0	0.0	31.1	45.0	52.7	37.2	41.9	32.6	147.3	86.8	17.0
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°	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3	2489.3
2.5°	2501.7	2476.8	2433.5	2393.1	2357.4	2321.7	2300.1	2269.0	2266.0	2266.0	2273.7
5°	2518.7	2478.4	2400.9	2318.7	2224.0	2134.0	2044.2	1957.3	1929.4	1909.2	1918.5
7.5°	2568.3	2504.8	2382.2	2225.6	2045.7	1848.7	1710.7	1561.8	1504.4	1473.4	1478.0
10°	2639.7	2552.9	2366.7	2092.2	1800.6	1532.4	1335.4	1174.0	1112.0	1085.7	1085.7
12.5°	2718.8	2611.8	2338.8	1926.3	1532.4	1211.2	1019.0	944.5	935.2	935.2	935.2
15°	2813.4	2683.1	2290.8	1730.8	1251.6	958.5	890.2	893.4	902.6	908.9	908.9
17.5°	2911.1	2759.1	2214.7	1512.2	1003.5	862.3	863.9	868.5	876.3	882.5	882.5
20°	3016.6	2835.1	2114.0	1279.5	860.8	834.5	839.1	843.7	849.9	853.0	854.5
22.5°	3129.8	2906.5	1994.5	1051.5	812.7	811.2	812.7	817.3	825.1	825.1	828.2
25°	3250.8	2985.5	1858.0	885.6	787.9	787.9	791.0	794.1	800.3	800.3	801.9
27.5°	3374.8	3058.5	1713.8	798.8	766.2	764.6	764.6	769.3	772.3	773.9	775.5
30°	3511.3	3143.8	1569.6	780.1	749.1	741.4	736.7	739.8	742.9	744.5	747.5
32.5°	3650.9	3226.0	1440.8	787.9	732.1	718.1	702.5	699.5	699.5	705.7	710.3
35°	3806.0	3315.9	1341.5	814.3	722.7	684.0	659.2	645.2	646.8	656.0	660.7
37.5°	3992.2	3424.5	1268.6	837.5	716.6	645.2	604.9	587.8	577.0	587.8	584.7
40°	4235.6	3584.2	1216.0	856.1	708.8	600.2	545.9	518.0	497.8	504.1	500.9
42.5°	4593.9	3835.4	1195.8	857.7	691.7	547.5	485.4	448.2	418.7	420.4	414.1
45°	5096.4	4232.5	1299.7	837.5	654.5	490.1	421.9	372.2	353.6	349.0	342.8
47.5°	5785.0	4811.0	1540.1	795.6	600.2	434.3	359.8	318.0	304.0	296.2	291.6
50°	6707.8	5554.0	1806.9	749.1	545.9	381.5	308.6	282.3	273.0	265.2	263.6
52.5°	7778.0	6307.6	2025.5	702.5	491.7	335.0	276.0	260.6	252.8	246.6	245.1
55°	8759.8	6827.2	2013.1	652.9	438.9	297.8	252.8	243.5	234.2	228.0	224.9
57.5°	9370.8	6900.2	1659.5	598.7	378.4	268.3	231.1	224.9	214.0	206.2	204.7
60°	9651.5	6484.5	1163.2	527.4	318.0	240.4	207.9	204.7	190.8	179.9	176.8
62.5°	9702.8	5712.1	775.5	438.9	265.2	214.0	184.6	179.9	161.3	142.7	133.4
65°	9494.9	4607.9	536.6	342.8	226.4	186.1	158.2	148.9	128.7	110.1	103.9
67.5°	8837.2	3235.3	373.8	246.6	192.3	147.3	125.7	122.5	107.0	91.5	86.8
70°	7632.2	1844.1	249.7	184.6	152.0	100.9	99.2	102.4	86.8	74.4	68.3
72.5°	5851.7	843.7	155.1	134.9	103.9	68.3	79.1	80.7	66.7	55.9	49.6
75°	3444.6	361.4	97.7	86.8	52.7	45.0	57.4	58.9	45.0	35.7	31.1
77.5°	1172.5	136.5	62.0	51.1	26.3	24.8	37.2	37.2	24.8	13.9	10.9
80°	266.8	51.1	31.1	20.2	12.4	10.9	12.4	10.9	6.3	1.5	0.0
82.5°	76.0	20.2	12.4	7.8	4.6	4.6	1.5	0.0	0.0	0.0	0.0
85°	21.7	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	1.5	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)