

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: P969881

Luminaire Tested: **NAV-SB6A-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29441.1 lumens
Efficiency: N/A
Efficacy: 172.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

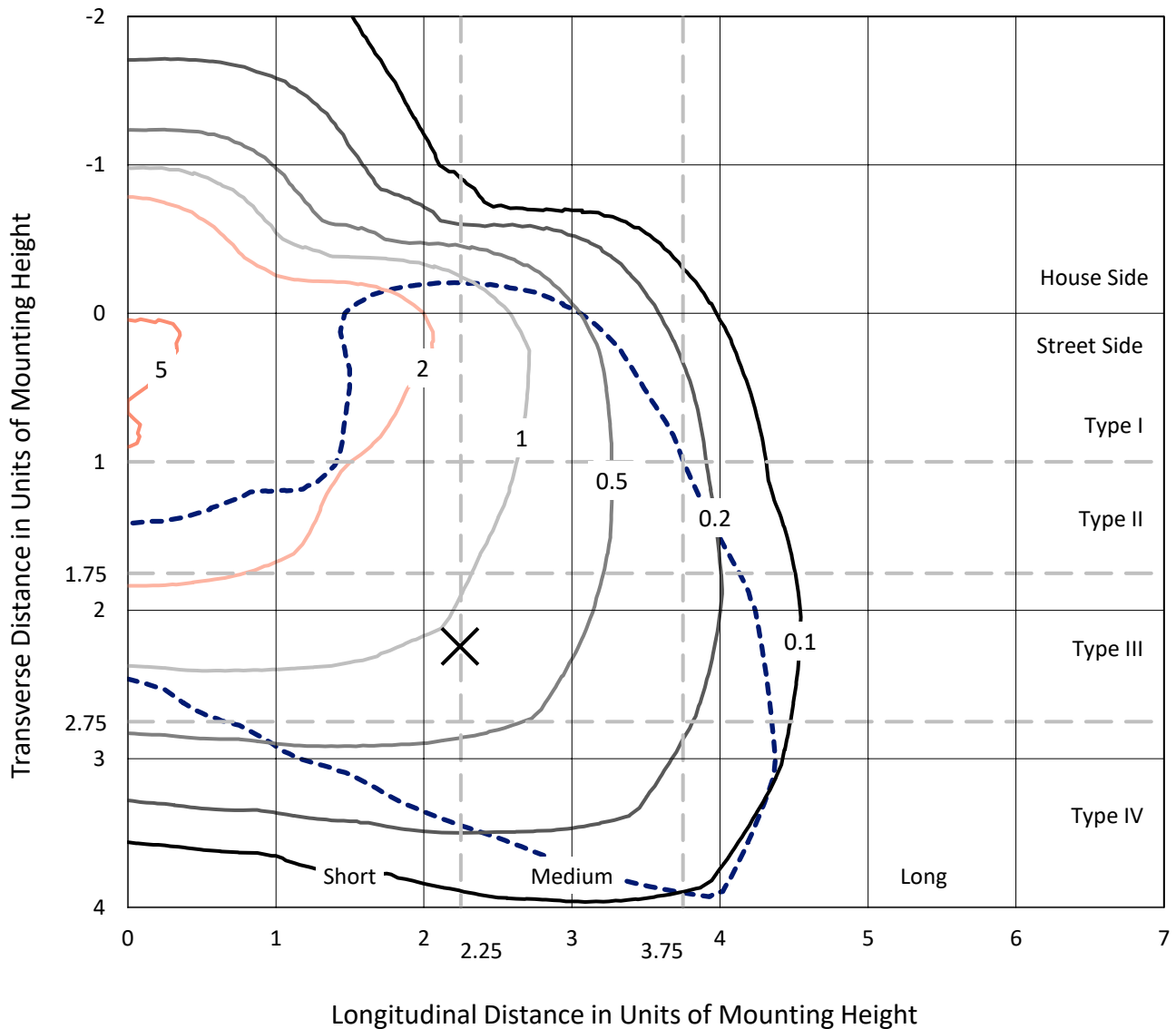


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Iso-Footcandle Lines of Horizontal Illumination

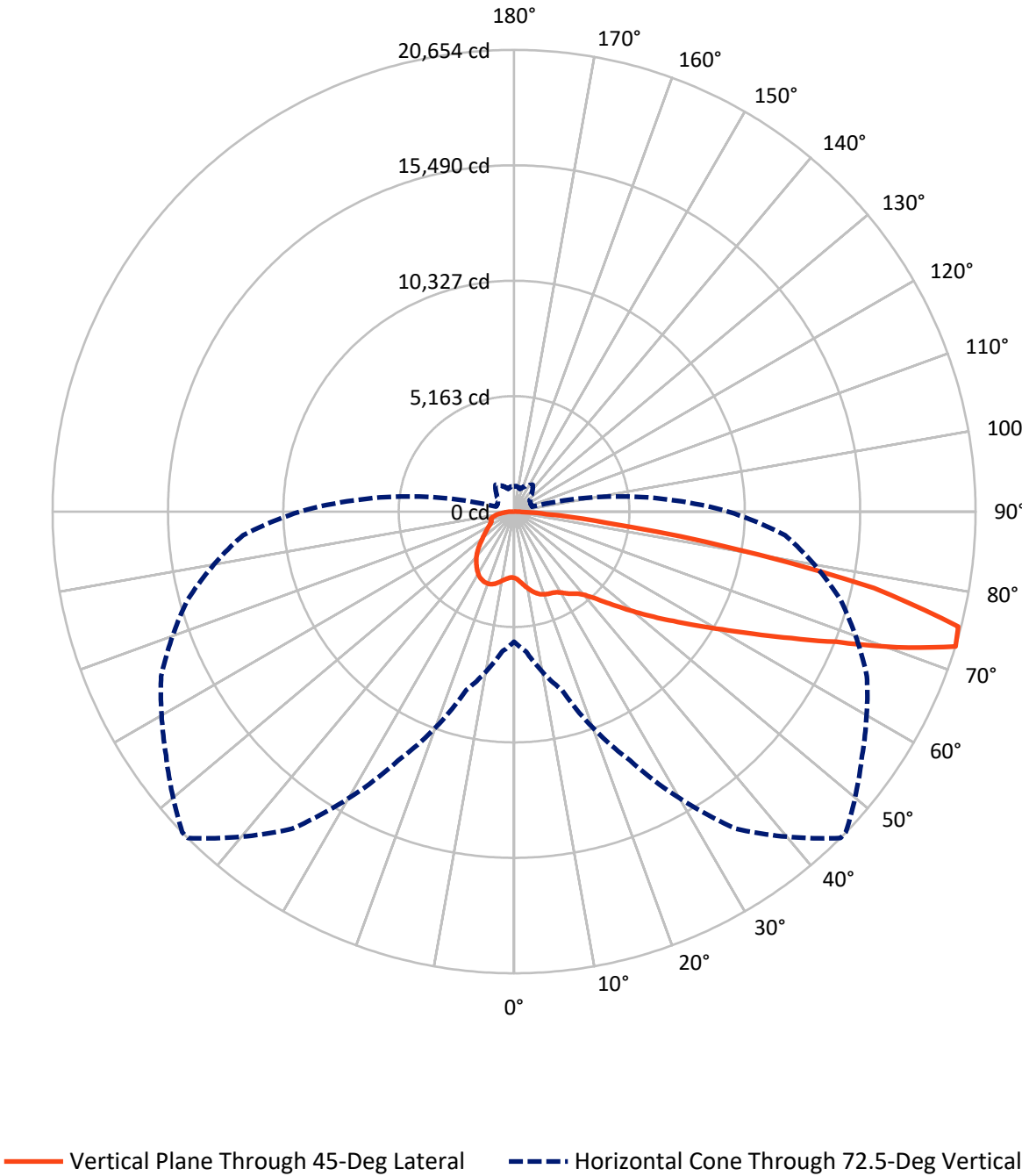
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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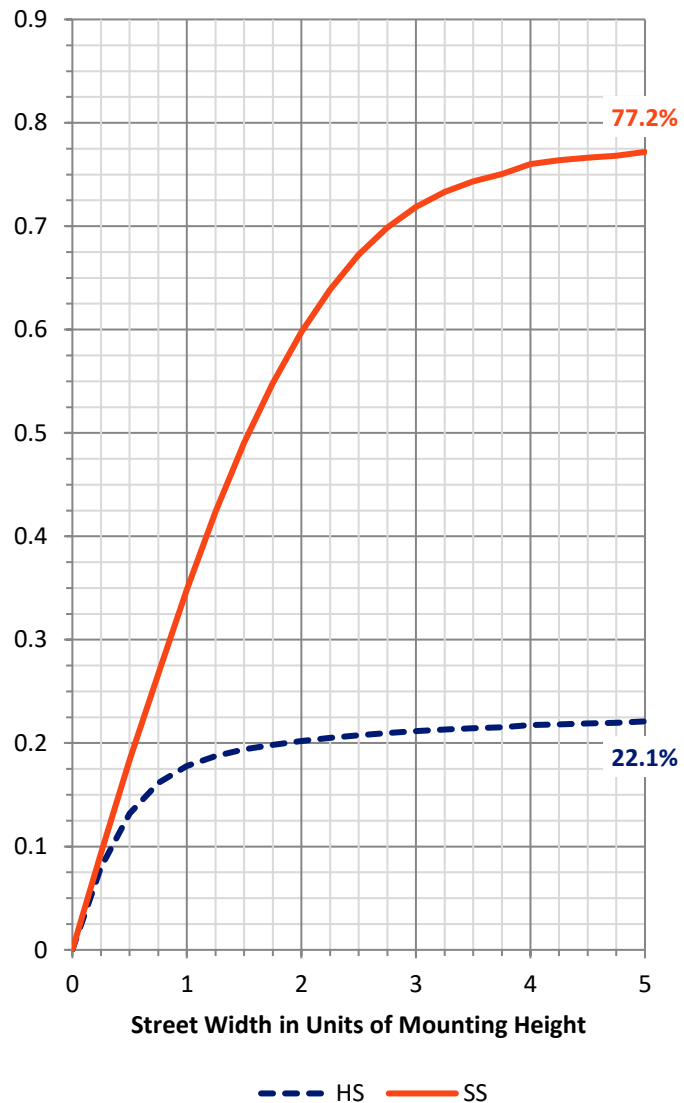
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6655.6	0.0	6655.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22785.5	0.0	22785.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	29441.1	0.0	29441.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	1.0
10°-20°	1007.9	3.4
20°-30°	1753.3	6.0
30°-40°	2513.4	8.5
40°-50°	3539.0	12.0
50°-60°	5420.7	18.4
60°-70°	7852.7	26.7
70°-80°	6270.9	21.3
80°-90°	781.0	2.7
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°	29441.1	100.0
0°-180°	29441.1	100.0

Coefficient of Utilization



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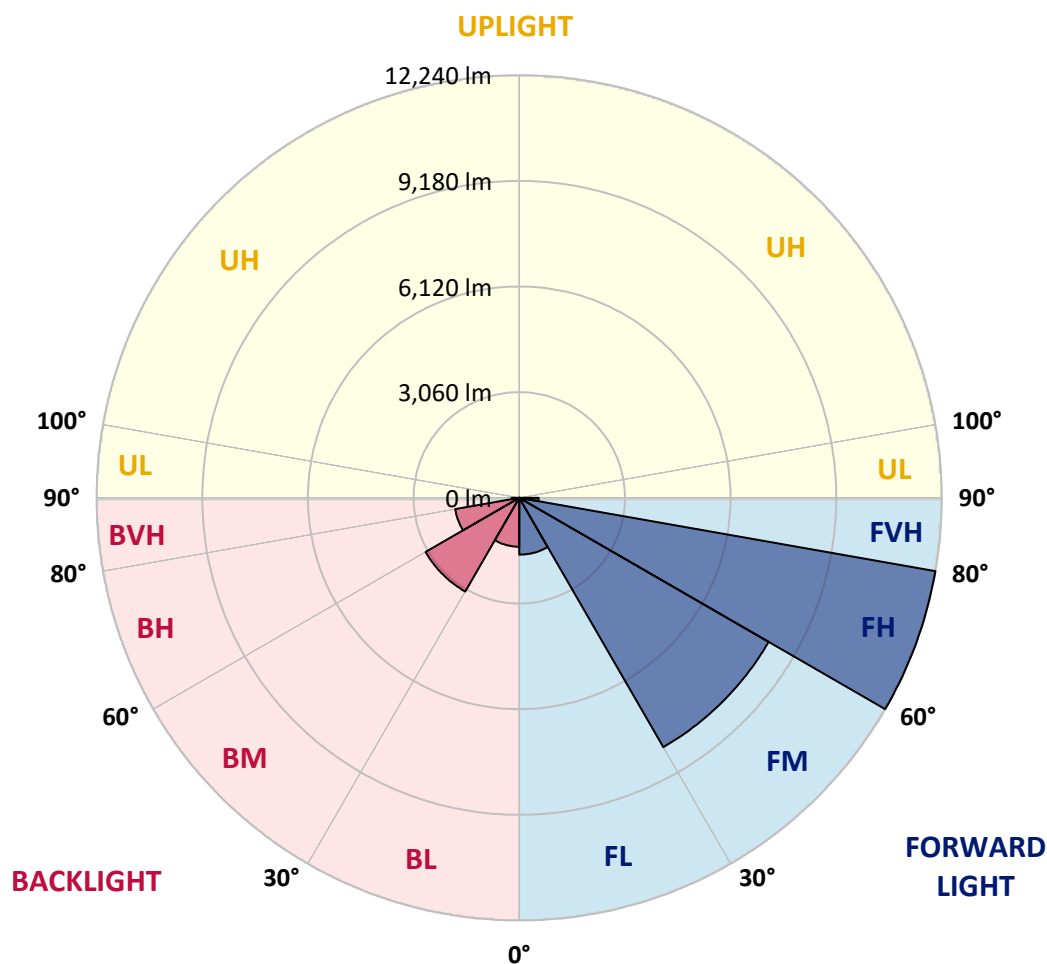
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1646.4	5.6			
FM	(30°-60°)	8339.2	28.3			
FH	(60°-80°)	12239.5	41.6			G5
FVH	(80°-90°)	560.3	1.9			G4/750
BL	(0°-30°)	1417.0	4.8	B3/2500		
BM	(30°-60°)	3133.8	10.6	B3/5000		
BH	(60°-80°)	1884.0	6.4	B3/2500		G3/2500
BVH	(80°-90°)	220.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0
2.5°	3086.4	3106.5	3087.9	3070.8	3063.1	3042.9	3041.4	3029.0	3021.2	2999.5	2993.3
5°	3301.9	3328.3	3297.3	3263.2	3232.1	3182.5	3176.3	3140.6	3100.3	3053.8	3027.4
7.5°	3545.5	3568.6	3533.0	3481.8	3427.6	3345.4	3343.8	3278.7	3215.1	3136.0	3091.0
10°	3757.9	3788.9	3740.8	3671.0	3602.8	3509.8	3498.9	3424.4	3343.8	3241.5	3173.2
12.5°	3945.5	3967.3	3920.7	3835.4	3756.3	3663.2	3649.3	3567.1	3477.2	3360.9	3274.1
15°	4094.5	4122.3	4060.3	3968.8	3885.1	3793.5	3781.1	3706.7	3616.8	3494.2	3382.6
17.5°	4192.1	4215.4	4151.9	4049.5	3968.8	3892.8	3883.5	3821.5	3742.4	3618.4	3498.9
20°	4229.4	4254.2	4187.5	4083.6	4009.2	3950.2	3945.5	3900.6	3846.3	3733.0	3612.1
22.5°	4266.6	4289.8	4203.0	4094.5	4029.3	3992.1	3990.5	3961.1	3939.4	3846.3	3728.4
25°	4417.0	4423.3	4306.9	4150.3	4057.3	4024.7	4023.1	4021.6	4030.9	3957.9	3854.1
27.5°	4547.3	4545.8	4446.6	4299.2	4154.9	4086.7	4085.1	4100.6	4130.1	4069.7	3984.4
30°	4738.1	4721.0	4603.2	4449.6	4317.8	4212.3	4203.0	4189.1	4212.3	4164.3	4114.7
32.5°	5142.8	5088.6	4897.9	4624.9	4452.7	4372.0	4359.6	4272.8	4282.1	4252.6	4227.8
35°	5722.9	5651.5	5397.2	4956.8	4620.2	4505.5	4499.2	4389.2	4370.5	4344.2	4353.5
37.5°	6413.1	6324.7	6028.4	5437.5	4908.7	4660.6	4651.2	4552.0	4476.0	4448.1	4500.8
40°	7106.3	6994.7	6749.6	6023.8	5333.7	4919.6	4890.1	4739.6	4652.8	4606.2	4718.0
42.5°	7779.4	7686.4	7477.1	6681.4	5857.9	5298.0	5232.8	4975.3	4910.3	4866.8	5068.4
45°	8375.1	8291.2	8137.7	7384.0	6472.1	5812.9	5749.3	5329.0	5308.9	5308.9	5600.4
47.5°	8858.9	8840.3	8677.4	8100.5	7196.3	6399.2	6289.0	5820.7	5874.9	5958.6	6355.7
50°	9395.6	9344.3	9170.7	8806.2	8047.8	7070.7	6980.8	6424.0	6627.1	6856.6	7447.5
52.5°	9888.7	9916.7	9722.7	9541.3	9009.3	7819.8	7661.6	7135.8	7574.7	7954.7	8727.1
55°	10395.9	10397.4	10343.2	10318.4	10017.4	8648.0	8474.3	7991.9	8689.8	9161.3	10219.0
57.5°	10872.0	10875.1	10955.8	11174.4	11186.8	9603.3	9406.4	9043.5	9929.1	10409.8	11757.6
60°	11296.9	11318.7	11538.9	12050.7	12215.1	10698.3	10512.2	10285.8	11210.1	11694.0	13375.2
62.5°	11439.6	11518.7	12008.9	12736.2	13231.0	12041.4	11858.4	11723.4	12556.4	13006.1	14727.6
65°	11197.7	11379.1	12326.8	13302.3	14276.3	13637.3	13455.9	13308.5	13955.3	14378.7	15838.1
67.5°	10603.7	10837.9	12308.2	13896.3	15544.9	15557.3	15388.3	15042.5	15455.1	15617.8	16199.5
70°	9038.9	9389.3	11224.1	14118.1	17001.3	18183.1	18020.2	17130.0	16951.7	16163.8	15182.1
72.5°	5823.7	6295.2	8264.9	12292.7	17325.5	20653.8	20644.4	19014.4	17424.7	15103.0	12176.4
75°	2124.8	2413.3	3840.1	7715.9	14543.1	20528.1	20588.6	18691.8	15906.4	11666.1	7585.6
77.5°	773.9	846.9	1253.2	2965.4	8944.3	16470.9	16596.5	14943.2	11321.7	5854.8	3005.7
80°	406.3	446.7	642.1	1150.8	3832.4	9781.7	9978.7	8880.6	5321.3	1763.4	901.1
82.5°	224.9	243.5	359.8	625.0	1726.2	4182.8	4300.7	3508.2	1872.0	747.5	372.2
85°	121.0	128.7	169.0	341.2	843.7	1450.2	1482.7	1048.5	746.0	438.9	179.9
87.5°	35.7	43.5	55.9	108.5	330.4	325.7	333.4	207.9	294.7	221.8	58.9
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°	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0	2970.0
2.5°	2984.0	2979.4	2962.2	2954.6	2945.2	2943.7	2951.4	2952.9	2954.6	2956.1	2962.2
5°	3011.9	2996.4	2980.9	2971.6	2974.7	2976.2	2991.8	3002.6	3010.3	3016.6	3019.6
7.5°	3066.2	3053.8	3027.4	3025.9	3030.5	3044.5	3064.6	3089.5	3103.4	3114.3	3117.3
10°	3146.9	3123.6	3092.5	3097.2	3106.5	3126.7	3168.6	3188.7	3211.9	3232.1	3227.5
12.5°	3229.1	3208.9	3173.2	3176.3	3191.8	3227.5	3267.8	3292.6	3308.1	3323.7	3329.8
15°	3336.1	3300.4	3261.7	3261.7	3289.5	3328.3	3346.9	3367.0	3376.4	3393.5	3399.6
17.5°	3446.2	3399.6	3348.5	3345.4	3379.5	3398.1	3408.9	3412.0	3415.2	3433.7	3440.0
20°	3556.2	3505.1	3432.2	3426.0	3433.7	3430.7	3429.1	3426.0	3430.7	3453.9	3463.3
22.5°	3664.9	3606.0	3505.1	3477.2	3455.5	3426.0	3424.4	3422.9	3426.0	3449.2	3464.8
25°	3792.0	3720.6	3585.8	3502.0	3429.1	3388.8	3393.5	3395.0	3398.1	3416.7	3441.5
27.5°	3930.1	3850.9	3660.2	3494.2	3362.4	3334.5	3326.7	3331.4	3342.2	3371.7	3401.2
30°	4068.1	3975.1	3728.4	3463.3	3278.7	3239.9	3215.1	3226.0	3260.0	3289.5	3322.1
32.5°	4193.7	4100.6	3782.8	3395.0	3171.7	3111.2	3078.6	3092.5	3126.7	3137.5	3176.3
35°	4341.1	4235.6	3806.0	3286.5	3055.3	2962.2	2918.9	2898.7	2915.7	2904.8	2939.0
37.5°	4505.5	4395.3	3802.9	3143.8	2918.9	2811.9	2751.3	2675.4	2639.7	2602.5	2625.7
40°	4748.9	4590.8	3765.6	2971.6	2749.8	2652.1	2543.5	2414.8	2334.1	2261.3	2265.9
42.5°	5080.8	4862.2	3697.4	2782.4	2559.0	2467.5	2320.2	2169.7	2042.6	1921.6	1910.7
45°	5575.6	5217.4	3612.1	2580.7	2352.8	2262.8	2103.1	1934.0	1789.8	1634.7	1616.1
47.5°	6289.0	5695.0	3531.4	2351.2	2135.6	2053.4	1909.2	1752.5	1582.0	1431.5	1414.4
50°	7269.2	6380.5	3457.0	2127.9	1921.6	1859.6	1744.8	1585.1	1412.9	1291.9	1284.1
52.5°	8516.1	7312.7	3426.0	1912.3	1721.5	1698.2	1606.8	1457.9	1295.0	1192.7	1184.9
55°	9947.6	8427.8	3426.0	1706.0	1546.3	1554.0	1490.5	1352.4	1211.2	1119.8	1110.5
57.5°	11408.7	9556.8	3363.9	1515.3	1397.4	1430.0	1389.6	1268.6	1141.4	1046.8	1031.4
60°	12754.9	10502.9	3112.7	1341.5	1265.6	1316.7	1290.4	1186.4	1031.4	952.2	939.8
62.5°	13789.3	11036.4	2628.8	1203.6	1157.0	1216.0	1202.0	1077.9	1011.2	978.7	967.8
65°	14307.4	10949.6	2010.0	1081.0	1065.5	1157.0	1127.5	1122.9	1070.1	1032.9	1020.5
67.5°	13989.4	10202.0	1457.9	991.1	1012.8	1102.7	1216.0	1234.5	1136.8	1063.9	1051.5
70°	12595.1	8849.6	1085.7	905.8	946.1	1104.2	1386.5	1291.9	1115.1	1029.8	1015.9
72.5°	9581.6	6599.3	842.1	815.8	859.3	1112.0	1462.6	1265.6	1053.1	1138.4	1129.0
75°	5479.4	3623.0	676.2	705.7	750.6	1039.1	1423.7	1197.3	1005.0	1045.3	1045.3
77.5°	2089.1	1392.8	558.3	597.1	603.3	907.3	1361.7	1192.7	956.9	933.7	851.5
80°	724.3	544.4	462.2	474.6	466.8	806.5	1305.8	1037.6	783.2	701.0	677.7
82.5°	296.2	271.4	366.0	350.5	331.9	626.6	1054.6	848.4	640.5	566.1	559.9
85°	128.7	172.2	241.9	212.5	192.3	434.3	845.2	718.1	541.3	466.8	465.2
87.5°	26.3	65.2	102.4	96.1	99.2	290.1	600.2	510.2	383.0	286.9	224.9
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)