

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: P966874

Luminaire Tested: **NAV-SB4C-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966874
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-SB4C-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28479.6 lumens
Efficiency: N/A
Efficacy: 141.9 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): 200.7
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

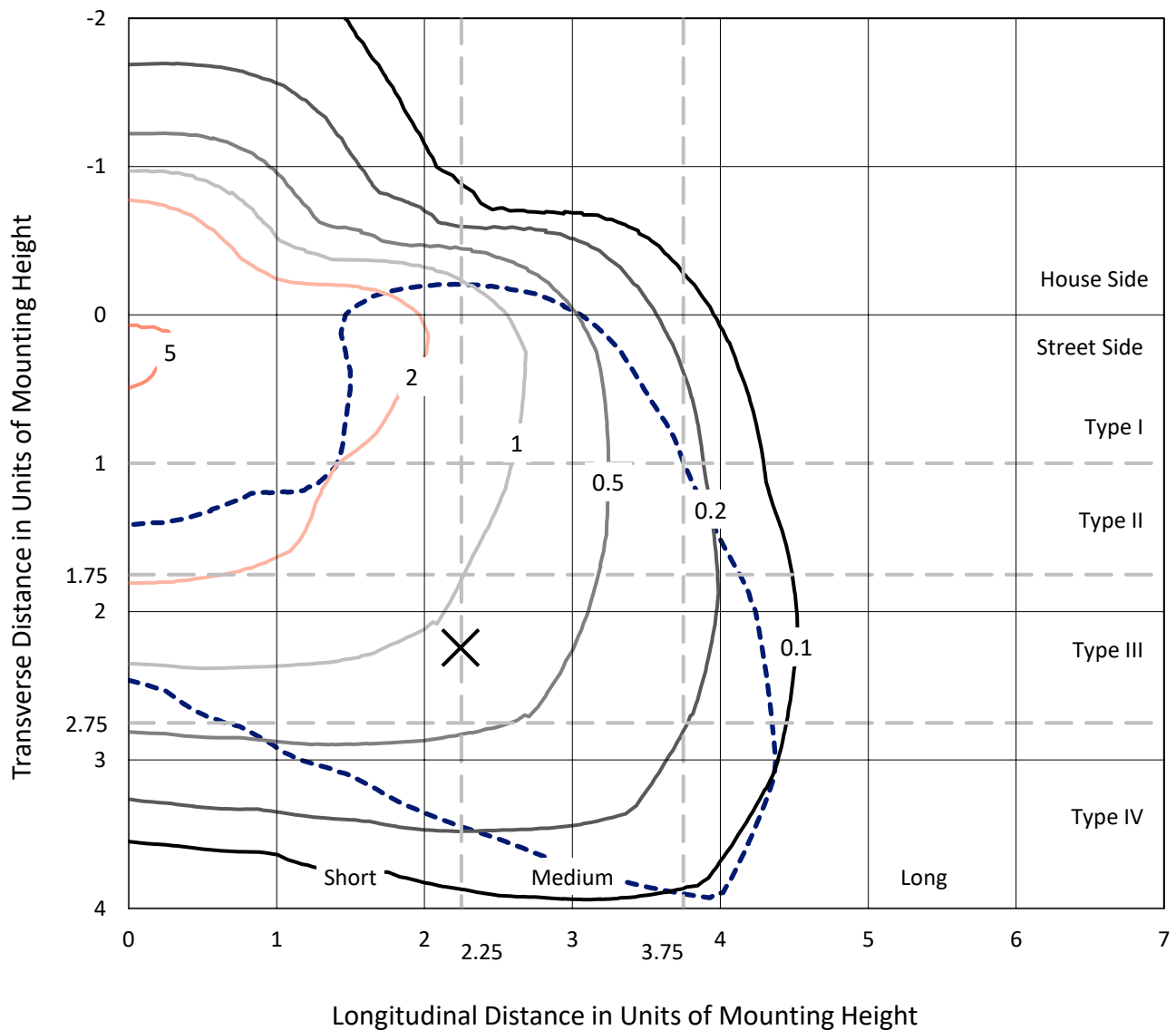


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Iso-Footcandle Lines of Horizontal Illumination

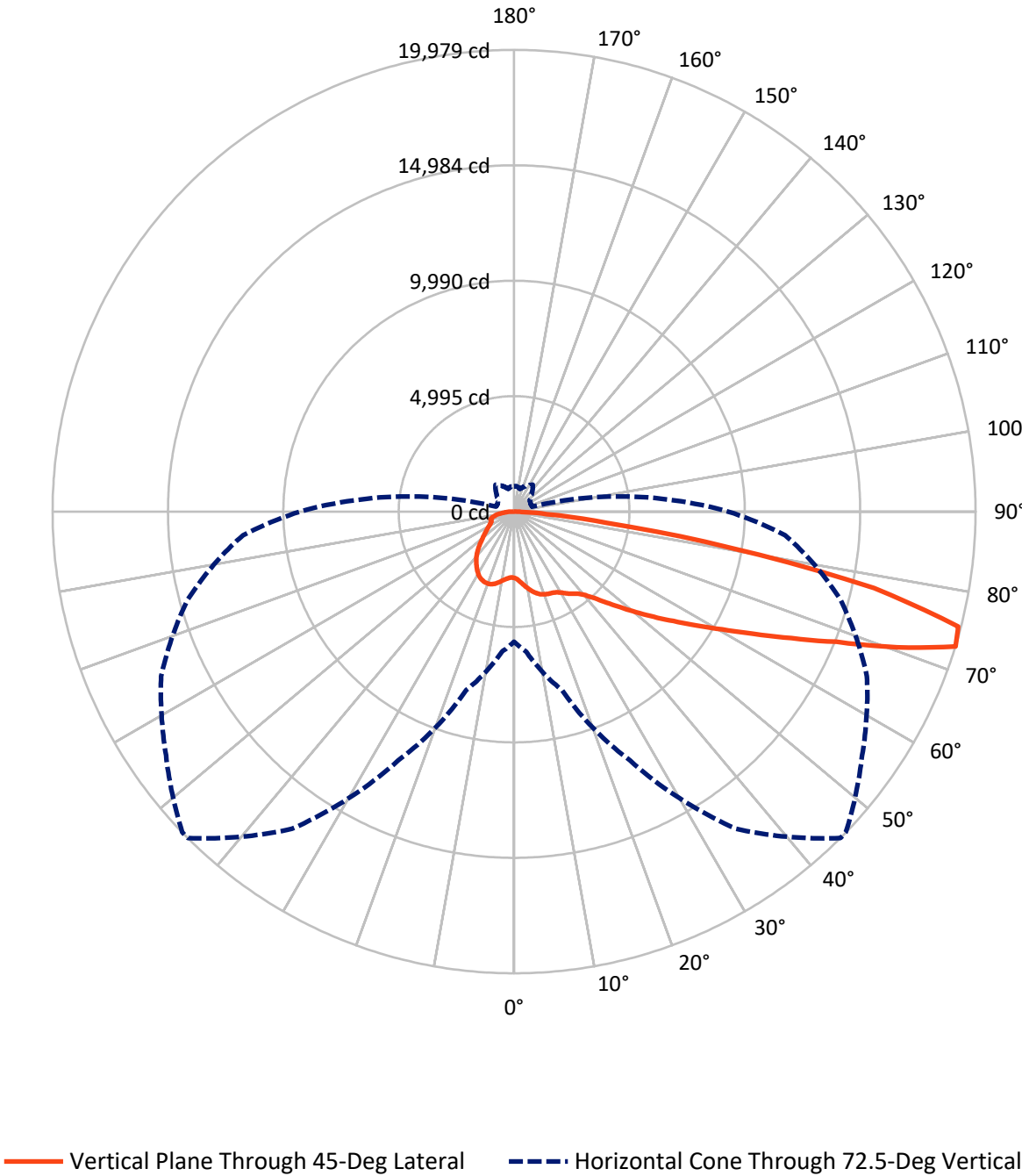
× Max cd
- - - 1/2 Max cd



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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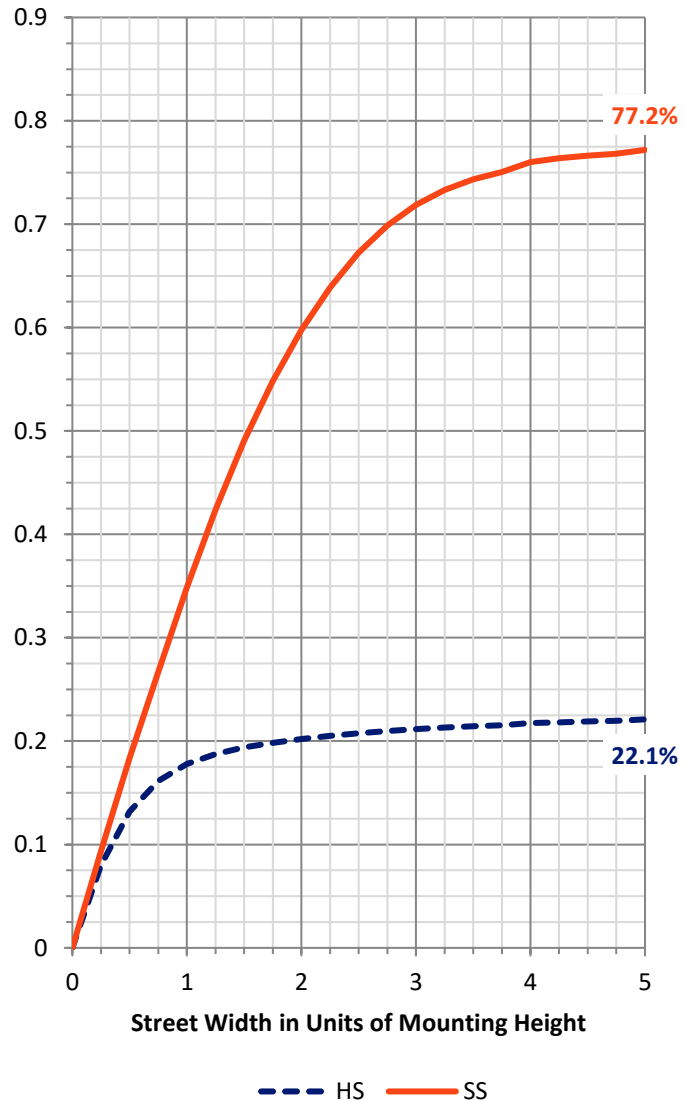
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6438.3	0.0	6438.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22041.4	0.0	22041.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	28479.6	0.0	28479.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	1.0
10°-20°	975.0	3.4
20°-30°	1696.0	6.0
30°-40°	2431.3	8.5
40°-50°	3423.4	12.0
50°-60°	5243.7	18.4
60°-70°	7596.3	26.7
70°-80°	6066.1	21.3
80°-90°	755.5	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°	28479.6	100.0
0°-180°	28479.6	100.0

Coefficient of Utilization



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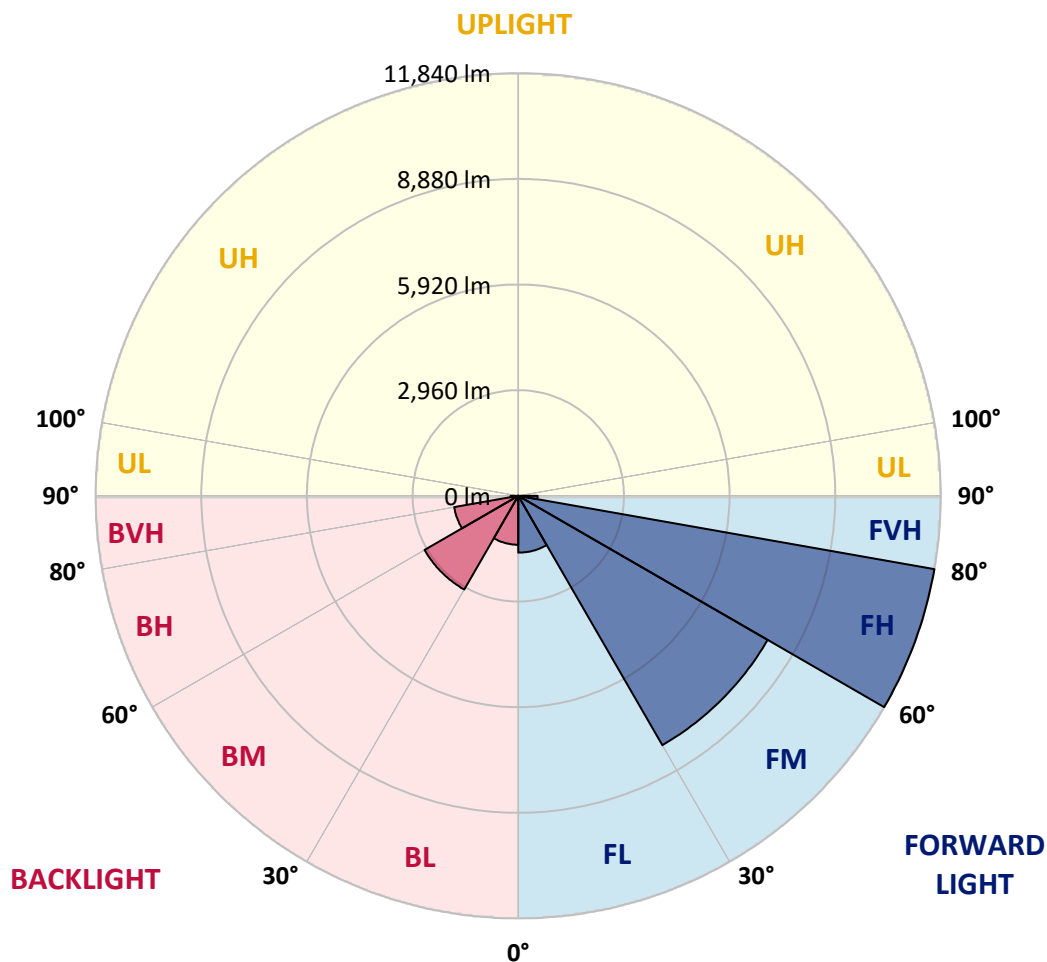
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1592.6	5.6			
FM	(30°-60°)	8066.9	28.3			
FH	(60°-80°)	11839.8	41.6			G4/12000
FVH	(80°-90°)	542.0	1.9			G4/750
BL	(0°-30°)	1370.8	4.8	B3/2500		
BM	(30°-60°)	3031.5	10.6	B3/5000		
BH	(60°-80°)	1822.5	6.4	B3/2500		G3/2500
BVH	(80°-90°)	213.5	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1
2.5°	2985.5	3005.1	2987.1	2970.6	2963.1	2943.6	2942.1	2930.1	2922.6	2901.6	2895.5
5°	3194.1	3219.6	3189.6	3156.6	3126.6	3078.6	3072.5	3038.1	2999.0	2954.0	2928.5
7.5°	3429.6	3452.1	3417.7	3368.2	3315.7	3236.1	3234.6	3171.6	3110.1	3033.6	2990.0
10°	3635.2	3665.2	3618.7	3551.2	3485.2	3395.1	3384.7	3312.6	3234.6	3135.6	3069.6
12.5°	3816.7	3837.7	3792.7	3710.2	3633.7	3543.6	3530.2	3450.7	3363.6	3251.1	3167.0
15°	3960.7	3987.8	3927.7	3839.2	3758.2	3669.7	3657.7	3585.7	3498.6	3380.1	3272.1
17.5°	4055.3	4077.8	4016.3	3917.2	3839.2	3765.7	3756.7	3696.7	3620.2	3500.2	3384.7
20°	4091.3	4115.3	4050.8	3950.2	3878.2	3821.2	3816.7	3773.2	3720.7	3611.2	3494.1
22.5°	4127.3	4149.8	4065.8	3960.7	3897.8	3861.7	3860.3	3831.8	3810.7	3720.7	3606.7
25°	4272.8	4278.8	4166.3	4014.7	3924.7	3893.3	3891.7	3890.2	3899.2	3828.7	3728.2
27.5°	4398.8	4397.4	4301.3	4158.7	4019.2	3953.2	3951.8	3966.7	3995.2	3936.7	3854.2
30°	4583.4	4566.9	4452.8	4304.3	4176.8	4074.8	4065.8	4052.2	4074.8	4028.2	3980.3
32.5°	4974.9	4922.5	4737.9	4473.8	4307.4	4229.3	4217.3	4133.3	4142.2	4113.7	4089.7
35°	5536.0	5467.0	5220.9	4795.0	4469.3	4358.3	4352.4	4245.8	4227.8	4202.3	4211.3
37.5°	6203.7	6118.1	5831.6	5260.0	4748.4	4508.4	4499.3	4403.3	4329.8	4302.8	4353.8
40°	6874.3	6766.2	6529.2	5827.1	5159.4	4758.9	4730.4	4584.8	4500.9	4455.9	4563.8
42.5°	7525.4	7435.4	7232.8	6463.2	5666.6	5125.0	5062.0	4812.9	4749.8	4707.9	4902.9
45°	8101.5	8020.5	7872.0	7142.8	6260.7	5623.0	5561.5	5154.9	5135.5	5135.5	5417.5
47.5°	8569.6	8551.6	8394.0	7836.0	6961.3	6190.2	6083.7	5630.5	5683.1	5764.1	6148.2
50°	9088.7	9039.2	8871.2	8518.6	7785.0	6839.8	6752.8	6214.2	6410.7	6632.8	7204.3
52.5°	9565.8	9592.8	9405.3	9229.7	8715.2	7564.4	7411.4	6902.8	7327.4	7695.0	8442.1
55°	10056.4	10057.9	10005.3	9981.3	9690.3	8365.5	8197.5	7731.0	8406.1	8862.2	9885.4
57.5°	10517.0	10520.0	10598.0	10809.5	10821.5	9289.8	9099.2	8748.2	9604.8	10069.9	11373.6
60°	10928.0	10949.0	11162.1	11657.2	11816.2	10348.9	10168.9	9949.9	10844.0	11312.1	12938.5
62.5°	11066.1	11142.6	11616.6	12320.3	12798.9	11648.2	11471.2	11340.6	12146.2	12581.4	14246.7
65°	10832.0	11007.6	11924.2	12868.0	13810.1	13192.0	13016.5	12873.9	13499.6	13909.1	15320.9
67.5°	10257.4	10484.0	11906.2	13442.6	15037.4	15049.4	14885.8	14551.2	14950.3	15107.9	15670.4
70°	8743.7	9082.7	10857.5	13657.1	16446.1	17589.3	17431.8	16570.7	16398.1	15636.0	14686.3
72.5°	5633.6	6089.6	7995.0	11891.2	16759.7	19979.3	19970.3	18393.4	16855.7	14609.7	11778.7
75°	2055.4	2334.4	3714.7	7463.9	14068.1	19857.7	19916.3	18081.4	15386.9	11285.1	7337.9
77.5°	748.7	819.2	1212.3	2868.6	8652.1	15933.0	16054.5	14455.2	10952.0	5663.5	2907.5
80°	393.1	432.0	621.2	1113.3	3707.2	9462.3	9652.8	8590.6	5147.4	1705.8	871.7
82.5°	217.5	235.5	348.1	604.6	1669.8	4046.3	4160.3	3393.7	1810.9	723.1	360.1
85°	117.1	124.5	163.5	330.0	816.1	1402.7	1434.3	1014.2	721.6	424.6	174.0
87.5°	34.5	42.0	54.0	105.1	319.6	315.1	322.6	201.0	285.1	214.5	57.0
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°	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1	2873.1
2.5°	2886.5	2882.0	2865.5	2858.0	2849.0	2847.6	2855.0	2856.6	2858.0	2859.5	2865.5
5°	2913.6	2898.5	2883.5	2874.5	2877.6	2879.0	2894.1	2904.5	2912.0	2918.1	2921.0
7.5°	2966.0	2954.0	2928.5	2927.1	2931.5	2945.0	2964.6	2988.6	3002.0	3012.6	3015.5
10°	3044.0	3021.6	2991.6	2996.1	3005.1	3024.6	3065.1	3084.5	3107.1	3126.6	3122.0
12.5°	3123.6	3104.1	3069.6	3072.5	3087.6	3122.0	3161.1	3185.1	3200.2	3215.1	3221.1
15°	3227.1	3192.6	3155.1	3155.1	3182.1	3219.6	3237.6	3257.1	3266.2	3282.7	3288.6
17.5°	3333.6	3288.6	3239.1	3236.1	3269.1	3287.1	3297.6	3300.6	3303.6	3321.6	3327.7
20°	3440.1	3390.6	3320.1	3314.1	3321.6	3318.6	3317.1	3314.1	3318.6	3341.1	3350.1
22.5°	3545.2	3488.2	3390.6	3363.6	3342.6	3314.1	3312.6	3311.2	3314.1	3336.6	3351.6
25°	3668.2	3599.2	3468.7	3387.6	3317.1	3278.2	3282.7	3284.1	3287.1	3305.1	3329.1
27.5°	3801.7	3725.2	3540.7	3380.1	3252.6	3225.6	3218.1	3222.6	3233.2	3261.7	3290.1
30°	3935.3	3845.2	3606.7	3350.1	3171.6	3134.0	3110.1	3120.6	3153.6	3182.1	3213.6
32.5°	4056.7	3966.7	3659.1	3284.1	3068.0	3009.6	2978.0	2991.6	3024.6	3035.0	3072.5
35°	4199.3	4097.2	3681.7	3179.1	2955.6	2865.5	2823.6	2804.0	2820.5	2810.0	2843.0
37.5°	4358.3	4251.8	3678.7	3041.1	2823.6	2720.0	2661.5	2588.0	2553.5	2517.5	2540.0
40°	4593.8	4440.8	3642.6	2874.5	2660.0	2565.5	2460.5	2336.0	2258.0	2187.5	2192.0
42.5°	4914.9	4703.4	3576.6	2691.5	2475.5	2386.9	2244.4	2098.9	1975.9	1858.8	1848.4
45°	5393.5	5047.0	3494.1	2496.5	2275.9	2188.9	2034.4	1870.8	1731.3	1581.3	1563.3
47.5°	6083.7	5509.1	3416.1	2274.5	2065.9	1986.3	1846.8	1695.4	1530.3	1384.8	1368.3
50°	7031.8	6172.1	3344.2	2058.4	1858.8	1798.9	1687.9	1533.3	1366.7	1249.8	1242.2
52.5°	8238.0	7073.8	3314.1	1849.8	1665.3	1642.8	1554.3	1410.3	1252.8	1153.7	1146.3
55°	9622.8	8152.5	3314.1	1650.4	1495.8	1503.3	1441.8	1308.2	1171.7	1083.2	1074.2
57.5°	11036.1	9244.8	3254.1	1465.7	1351.8	1383.2	1344.3	1227.2	1104.2	1012.7	997.7
60°	12338.3	10159.9	3011.0	1297.8	1224.3	1273.8	1248.2	1147.7	997.7	921.2	909.2
62.5°	13339.0	10676.0	2543.0	1164.2	1119.2	1176.2	1162.8	1042.7	978.2	946.7	936.1
65°	13840.1	10591.9	1944.3	1045.7	1030.7	1119.2	1090.7	1086.2	1035.1	999.2	987.2
67.5°	13532.6	9868.9	1410.3	958.7	979.7	1066.7	1176.2	1194.2	1099.7	1029.2	1017.2
70°	12183.8	8560.6	1050.2	876.2	915.2	1068.2	1341.2	1249.8	1078.7	996.2	982.7
72.5°	9268.8	6383.7	814.7	789.1	831.2	1075.7	1414.8	1224.3	1018.6	1101.2	1092.2
75°	5300.5	3504.7	654.2	682.6	726.1	1005.2	1377.3	1158.2	972.2	1011.2	1011.2
77.5°	2020.9	1347.3	540.1	577.6	583.6	877.7	1317.2	1153.7	925.7	903.1	823.7
80°	700.6	526.6	447.1	459.1	451.6	780.1	1263.2	1003.7	757.7	678.1	655.6
82.5°	286.6	262.5	354.0	339.1	321.0	606.1	1020.2	820.6	619.6	547.6	541.6
85°	124.5	166.6	234.0	205.5	186.0	420.0	817.6	694.6	523.6	451.6	450.1
87.5°	25.5	63.0	99.0	93.0	96.0	280.5	580.6	493.6	370.5	277.6	217.5
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)