

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: P964753

Luminaire Tested: **NAV-SB3C-835-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-835-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15599.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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



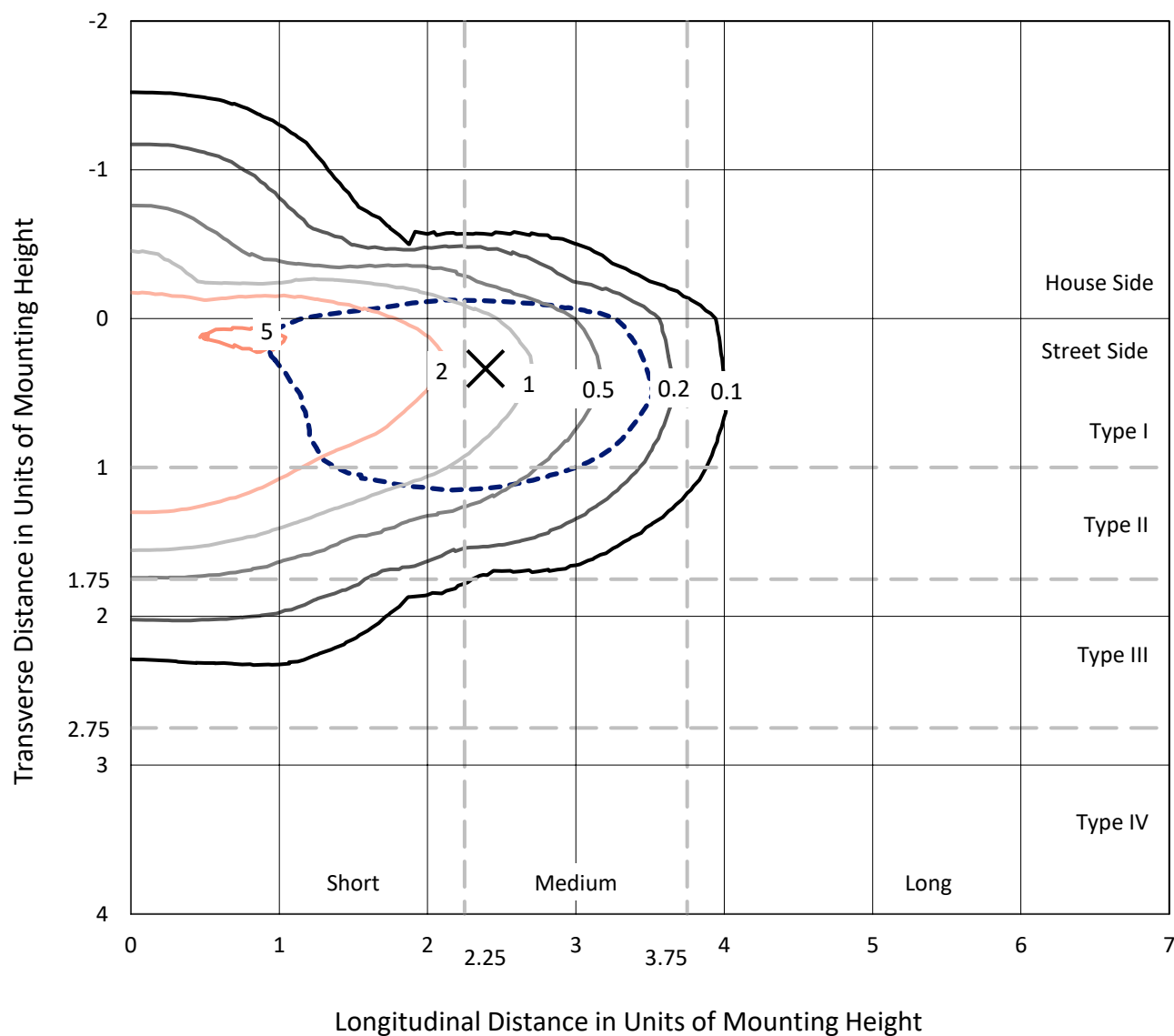
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

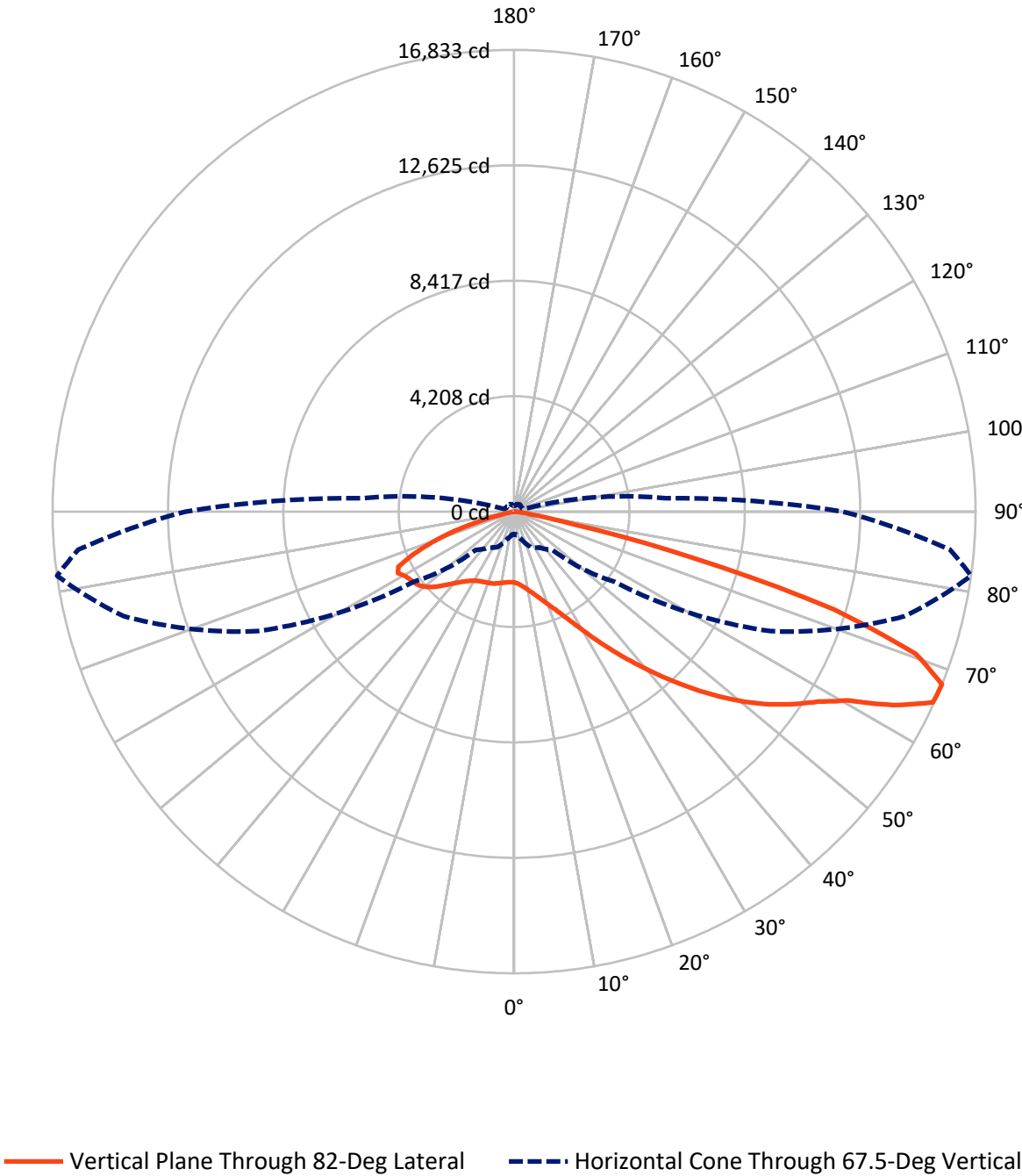
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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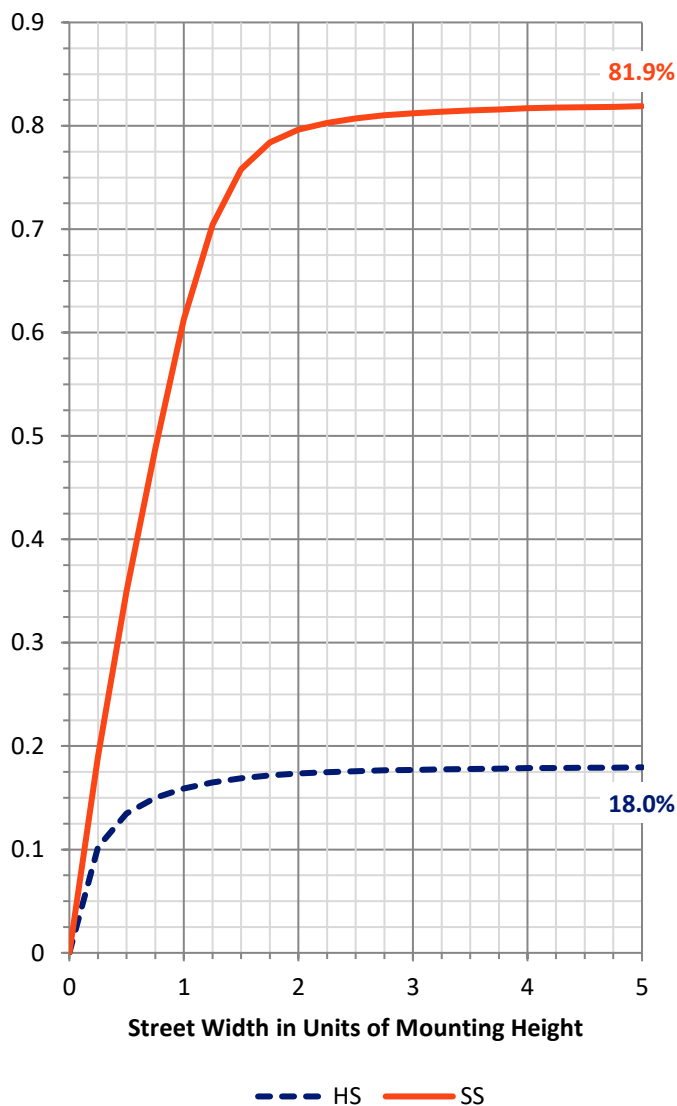
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2825.7	0.0	2825.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12773.8	0.0	12773.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	15599.5	0.0	15599.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	1.5
10°-20°	598.3	3.8
20°-30°	958.3	6.1
30°-40°	1694.6	10.9
40°-50°	2969.0	19.0
50°-60°	3959.9	25.4
60°-70°	3686.4	23.6
70°-80°	1414.9	9.1
80°-90°	87.9	0.6
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°	15599.5	100.0
0°-180°	15599.5	100.0

Coefficient of Utilization



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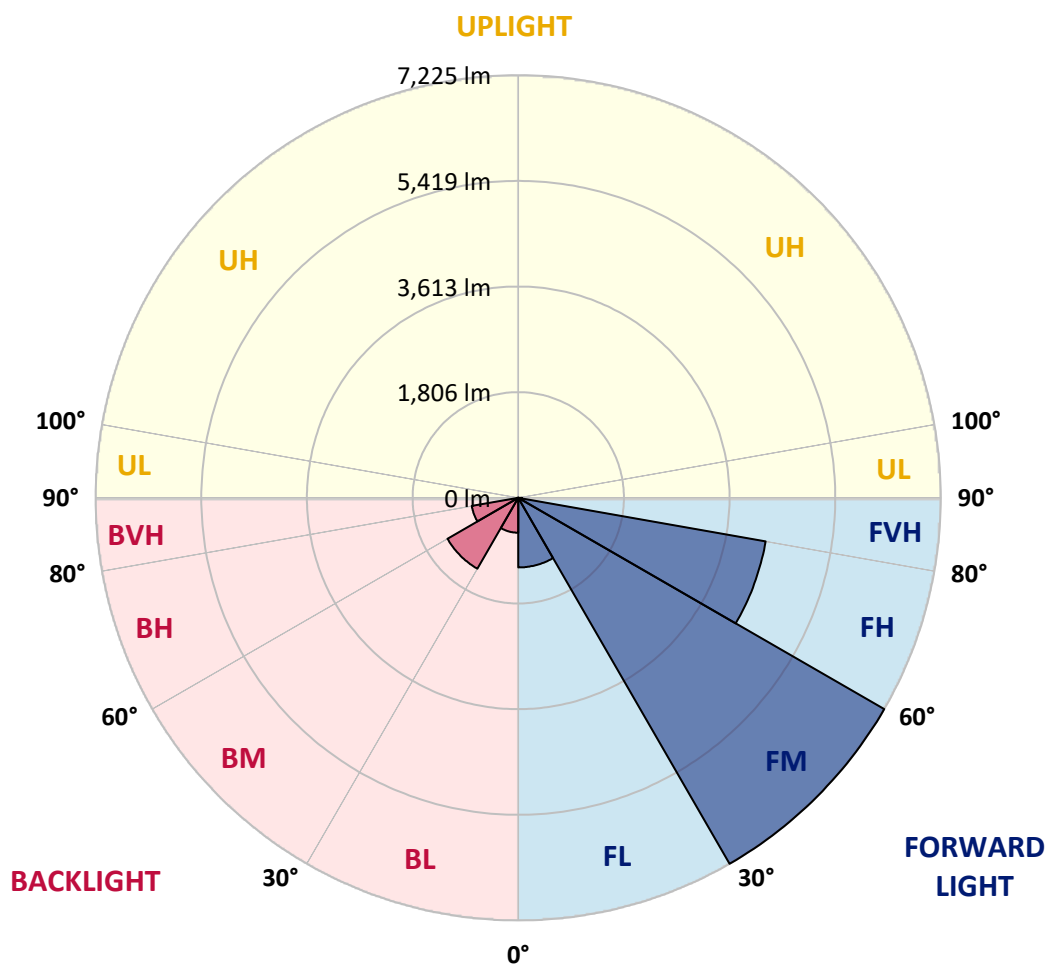
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.1	7.6			
FM	(30°-60°)	7225.0	46.3			
FH	(60°-80°)	4294.8	27.5			G2/5000
FVH	(80°-90°)	63.9	0.4			G1/100
BL	(0°-30°)	596.8	3.8	B2/1000		
BM	(30°-60°)	1398.4	9.0	B2/2500		
BH	(60°-80°)	806.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	24.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3
2.5°	2731.4	2747.2	2738.2	2733.7	2725.8	2714.6	2705.6	2677.5	2648.3	2629.2	2622.5
5°	2786.5	2802.1	2801.0	2805.5	2811.2	2814.5	2812.3	2780.8	2739.3	2706.7	2687.7
7.5°	2739.3	2757.2	2771.9	2794.4	2833.6	2875.2	2895.4	2888.7	2846.0	2801.0	2777.4
10°	2605.7	2624.7	2659.6	2712.4	2795.5	2885.3	2960.5	2995.4	2968.4	2919.0	2886.4
12.5°	2360.8	2379.9	2448.4	2563.0	2702.2	2858.3	3002.1	3095.3	3102.1	3052.7	3014.4
15°	2085.7	2104.7	2177.7	2321.5	2533.8	2784.2	3024.6	3200.9	3260.4	3217.8	3171.7
17.5°	1914.9	1931.8	1986.8	2102.5	2323.8	2636.0	3016.7	3313.2	3449.1	3415.4	3360.4
20°	1863.2	1877.9	1903.7	1984.6	2168.8	2482.1	2965.0	3418.8	3652.4	3633.3	3571.5
22.5°	1918.3	1931.8	1939.6	1975.6	2091.2	2381.0	2899.9	3526.6	3888.2	3890.5	3815.3
25°	2045.2	2058.7	2049.7	2072.1	2122.7	2349.6	2875.2	3653.5	4184.8	4209.5	4124.1
27.5°	2254.1	2255.2	2233.9	2232.8	2240.6	2396.8	2901.1	3789.4	4558.8	4604.8	4499.2
30°	2673.0	2656.2	2574.2	2485.4	2445.0	2538.2	2972.9	3950.0	5000.2	5082.2	4949.6
32.5°	3318.8	3294.1	3143.6	2931.4	2718.0	2766.3	3102.1	4133.1	5480.9	5629.1	5467.3
35°	4019.6	4012.9	3855.6	3540.0	3167.2	3090.8	3312.1	4373.5	6005.4	6241.2	6049.1
37.5°	4671.0	4667.7	4577.9	4206.1	3752.3	3543.4	3649.0	4687.9	6566.9	6908.3	6681.5
40°	5266.3	5276.4	5186.6	4854.1	4397.0	4124.1	4107.3	5076.5	7191.4	7635.0	7365.4
42.5°	5780.7	5792.0	5700.9	5455.0	5033.9	4766.6	4669.9	5552.7	7801.2	8415.6	8096.6
45°	6130.0	6199.6	6186.2	5989.6	5687.5	5410.1	5346.1	6150.2	8496.4	9243.3	8869.3
47.5°	6228.8	6292.9	6394.0	6420.9	6236.7	5963.8	6040.1	6870.2	9199.5	10072.2	9646.5
50°	5985.1	6044.6	6254.7	6534.4	6662.4	6578.1	6715.2	7641.7	9919.4	10898.8	10409.1
52.5°	5504.5	5565.0	5830.1	6272.6	6794.9	7060.0	7392.4	8402.1	10616.8	11681.6	11131.3
55°	4809.2	4873.3	5213.6	5714.5	6542.2	7258.7	7957.3	9161.3	11255.9	12385.8	11782.7
57.5°	3863.5	3910.7	4264.5	4965.3	5906.5	7061.1	8374.0	9990.2	11857.9	13077.7	12428.4
60°	2518.0	2559.6	2970.7	3752.3	4853.0	6400.7	8457.1	10914.5	12657.6	13977.3	13298.9
62.5°	1674.5	1702.6	1946.4	2520.3	3417.7	5132.7	7970.8	11652.4	13830.1	15542.9	14791.6
65°	1148.9	1177.0	1420.8	1820.6	2208.1	3395.2	6572.5	11554.7	14892.6	16786.2	15897.7
67.5°	819.9	843.5	1050.1	1427.5	1598.2	1972.2	4455.5	10305.8	14739.9	16833.4	15957.3
70°	587.4	600.9	771.6	1111.9	1270.3	1184.9	2477.6	7882.0	12905.8	15544.0	14742.1
72.5°	411.0	415.5	535.8	846.9	1023.2	864.8	1179.3	5255.1	9761.1	12200.5	11428.9
75°	278.5	284.1	360.5	621.0	821.0	660.4	624.4	2817.9	5730.2	6753.3	6053.6
77.5°	170.8	172.9	232.5	424.6	614.4	503.2	402.1	1193.9	2217.1	2176.6	1855.4
80°	96.6	96.6	148.2	263.9	418.9	324.6	281.9	507.7	701.9	616.6	543.6
82.5°	53.9	55.0	107.8	164.0	277.4	192.1	155.0	234.7	303.2	268.4	233.6
85°	22.4	24.7	66.2	77.5	132.5	95.4	62.9	98.8	112.3	99.9	73.0
87.5°	2.3	3.4	20.2	14.6	15.7	19.1	9.0	19.1	15.7	15.7	11.3
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°	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3	2584.3
2.5°	2601.1	2584.3	2541.6	2492.2	2427.1	2395.6	2353.0	2323.8	2299.1	2301.2	2278.8
5°	2651.7	2609.0	2513.5	2394.5	2246.3	2140.7	2028.4	1950.9	1887.9	1874.5	1844.2
7.5°	2721.4	2653.9	2486.5	2272.1	2021.6	1831.8	1662.2	1553.3	1475.8	1451.1	1426.4
10°	2811.2	2713.5	2451.8	2118.2	1757.7	1516.2	1334.2	1249.0	1196.2	1178.1	1164.7
12.5°	2915.6	2782.0	2405.8	1930.7	1485.8	1253.4	1137.8	1095.0	1078.2	1072.6	1069.2
15°	3047.0	2867.3	2336.1	1708.3	1255.6	1092.8	1043.3	1037.8	1040.0	1037.8	1036.7
17.5°	3203.1	2960.5	2222.6	1479.2	1100.6	1010.9	992.8	997.3	1003.0	1001.8	999.6
20°	3373.9	3052.7	2077.8	1275.8	995.1	952.4	942.3	946.8	951.3	949.0	947.9
22.5°	3568.1	3151.5	1917.2	1117.6	924.3	898.5	887.2	888.4	888.4	883.9	881.6
25°	3800.6	3260.4	1748.8	1005.2	870.4	850.2	836.7	832.2	825.5	812.0	809.7
27.5°	4078.1	3376.1	1587.0	926.6	827.8	808.6	792.9	781.7	764.9	742.4	740.2
30°	4390.3	3516.5	1450.0	877.2	794.1	775.0	757.0	740.2	715.4	687.4	685.1
32.5°	4757.5	3667.0	1350.0	844.6	763.7	743.5	722.2	701.9	675.0	646.9	648.0
35°	5195.5	3849.0	1291.6	822.2	740.2	713.2	689.6	667.2	646.9	622.2	619.9
37.5°	5670.6	4042.1	1273.7	810.9	724.4	682.9	655.9	640.2	638.0	623.3	622.2
40°	6190.7	4271.3	1287.1	804.1	707.6	653.6	624.4	621.0	626.7	600.9	602.0
42.5°	6741.0	4543.0	1309.5	796.3	684.0	624.4	596.3	596.3	591.8	556.0	556.0
45°	7336.2	4856.3	1332.0	777.2	655.9	595.2	573.9	566.0	546.9	512.2	511.1
47.5°	7936.0	5175.3	1348.9	742.4	622.2	570.5	551.4	533.5	505.4	474.0	472.8
50°	8505.4	5461.7	1330.9	690.7	584.0	546.9	526.7	502.0	471.7	450.4	447.0
52.5°	9014.2	5710.0	1254.5	630.1	543.6	522.2	504.3	478.5	453.8	431.3	429.1
55°	9456.6	5911.0	1119.7	572.8	507.7	500.9	483.0	450.4	416.7	397.6	395.3
57.5°	9881.2	6063.7	951.3	525.6	475.1	477.3	450.4	421.2	389.7	369.5	367.3
60°	10446.2	6268.2	780.5	481.9	440.2	447.0	417.8	396.5	357.1	331.3	328.0
62.5°	11349.1	6586.0	619.9	427.9	399.9	402.1	389.7	363.9	316.7	286.4	284.1
65°	12065.7	6469.2	488.5	369.5	353.8	357.1	357.1	329.0	278.5	243.7	240.4
67.5°	11984.8	5539.2	389.7	312.2	310.0	312.2	320.1	296.5	247.1	219.0	214.5
70°	11040.3	4406.0	312.2	259.4	269.6	263.9	286.4	270.7	222.4	194.3	191.0
72.5°	9008.5	3173.9	238.1	214.5	206.6	215.7	258.3	243.7	185.3	153.9	150.5
75°	5264.1	1693.7	177.4	169.6	149.3	179.7	229.1	207.8	141.6	113.5	110.1
77.5°	1713.9	590.8	130.3	124.6	111.2	144.8	195.5	175.2	115.7	89.9	86.5
80°	459.4	178.6	88.8	82.0	71.9	107.8	155.0	139.3	83.1	58.4	57.3
82.5°	184.2	75.2	51.7	46.0	39.4	74.1	122.4	112.3	61.8	37.1	37.1
85°	59.6	24.7	19.1	14.6	17.9	46.0	73.0	76.4	43.8	19.1	14.6
87.5°	7.9	3.4	3.4	4.5	3.4	7.9	22.4	21.3	12.4	2.3	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)