

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: P969992

Luminaire Tested: **NAV-SB6A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969992
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-SB6A-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA 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: 18294.2 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

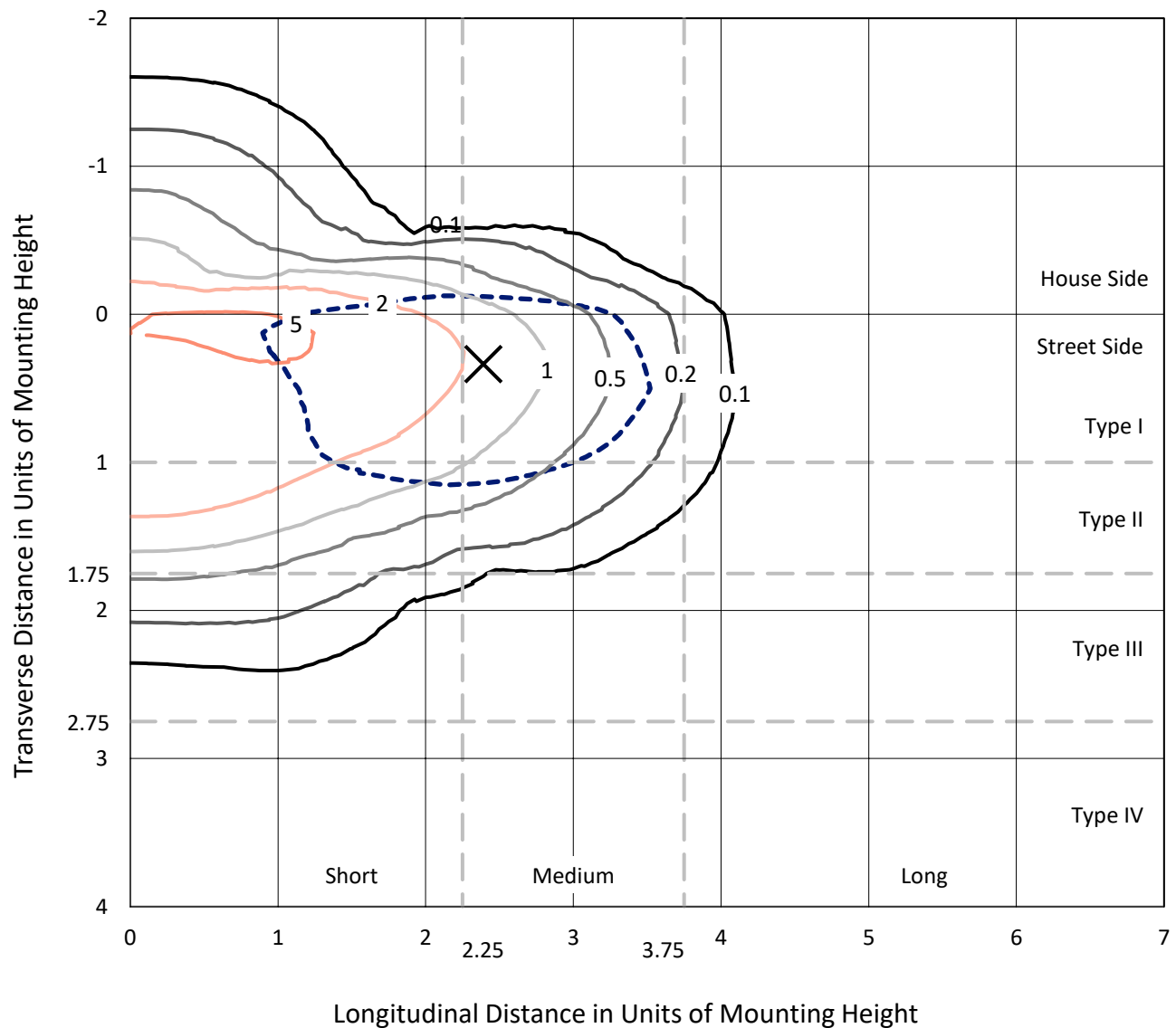


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Iso-Footcandle Lines of Horizontal Illumination

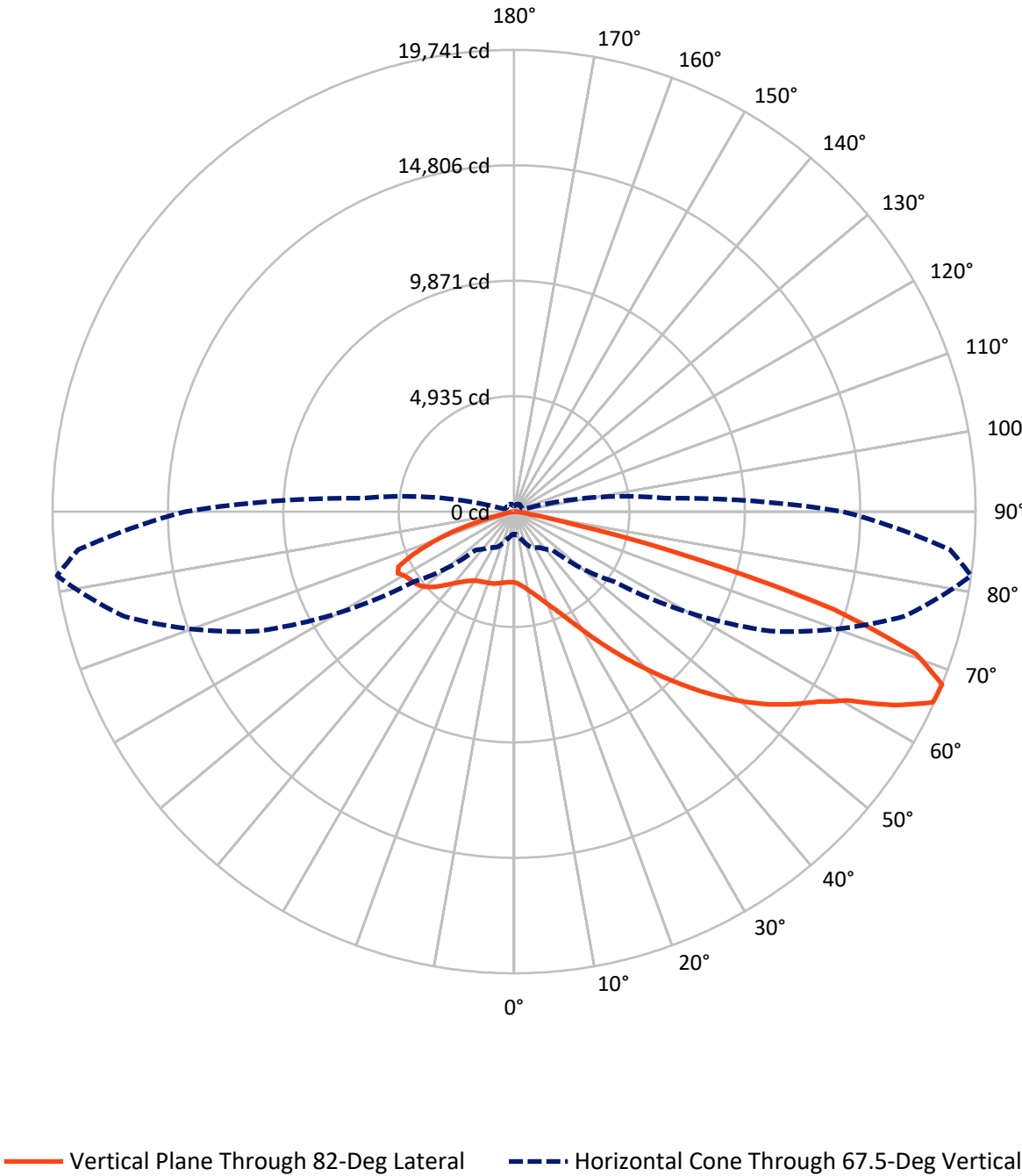
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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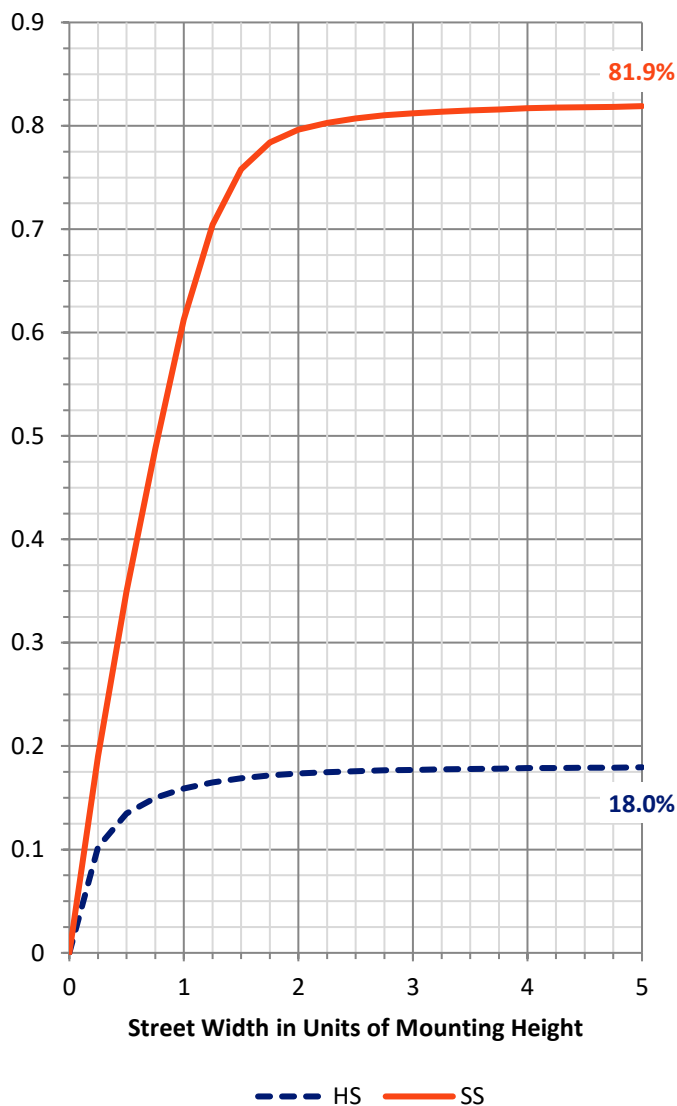
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3313.8	0.0	3313.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14980.4	0.0	14980.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	18294.2	0.0	18294.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	1.5
10°-20°	701.7	3.8
20°-30°	1123.8	6.1
30°-40°	1987.3	10.9
40°-50°	3481.9	19.0
50°-60°	4643.9	25.4
60°-70°	4323.2	23.6
70°-80°	1659.3	9.1
80°-90°	103.1	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°	18294.2	100.0
0°-180°	18294.2	100.0

Coefficient of Utilization



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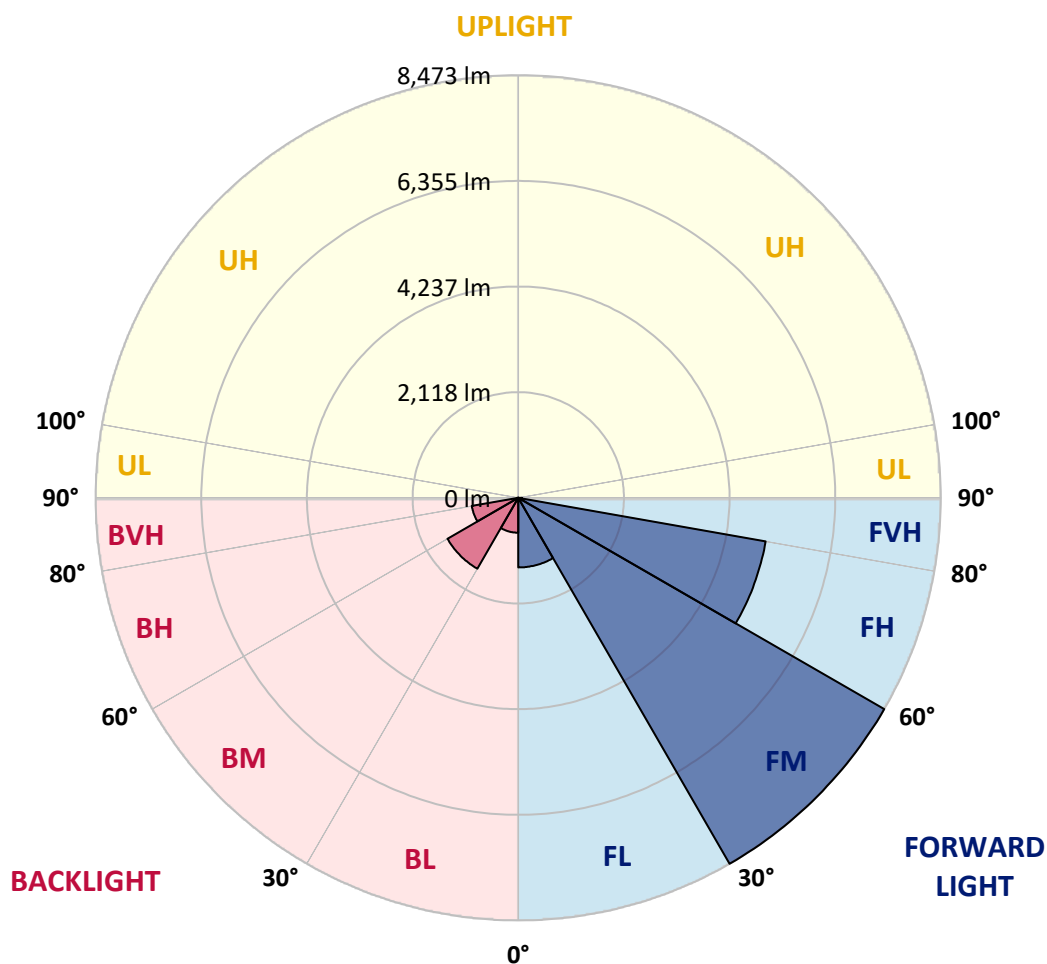
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1395.6	7.6			
FM	(30°-60°)	8473.1	46.3			
FH	(60°-80°)	5036.7	27.5			G3/7500
FVH	(80°-90°)	74.9	0.4			G1/100
BL	(0°-30°)	699.9	3.8	B2/1000		
BM	(30°-60°)	1640.0	9.0	B2/2500		
BH	(60°-80°)	945.8	5.2	B2/1000		G2/1000
BVH	(80°-90°)	28.1	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7
2.5°	3203.2	3221.7	3211.2	3205.9	3196.7	3183.5	3173.0	3140.1	3105.9	3083.4	3075.5
5°	3267.8	3286.3	3284.9	3290.2	3296.8	3300.7	3298.1	3261.2	3212.5	3174.3	3151.9
7.5°	3212.5	3233.6	3250.7	3277.0	3323.2	3371.8	3395.6	3387.6	3337.6	3284.9	3257.2
10°	3055.7	3078.2	3119.0	3180.9	3278.4	3383.7	3472.0	3512.8	3481.2	3423.2	3385.1
12.5°	2768.6	2791.0	2871.3	3005.7	3169.0	3352.2	3520.7	3630.0	3637.9	3580.0	3535.2
15°	2446.0	2468.3	2553.9	2722.5	2971.5	3265.1	3547.0	3753.9	3823.7	3773.6	3719.6
17.5°	2245.7	2265.5	2330.0	2465.6	2725.2	3091.3	3537.8	3885.6	4045.0	4005.4	3940.9
20°	2185.1	2202.2	2232.6	2327.4	2543.4	2910.9	3477.2	4009.4	4283.4	4260.9	4188.5
22.5°	2249.7	2265.5	2274.7	2316.8	2452.5	2792.3	3400.8	4135.8	4559.9	4562.6	4474.3
25°	2398.5	2414.3	2403.7	2430.1	2489.4	2755.4	3371.8	4284.6	4907.6	4936.6	4836.6
27.5°	2643.5	2644.8	2619.8	2618.5	2627.7	2810.8	3402.2	4444.0	5346.3	5400.2	5276.5
30°	3134.8	3115.1	3018.8	2914.8	2867.4	2976.7	3486.4	4632.4	5863.9	5960.1	5804.6
32.5°	3892.1	3863.1	3686.6	3437.7	3187.4	3244.1	3637.9	4847.0	6427.7	6601.5	6411.8
35°	4714.1	4706.1	4521.7	4151.7	3714.3	3624.7	3884.2	5128.9	7042.8	7319.3	7094.1
37.5°	5478.0	5474.0	5368.6	4932.7	4400.5	4155.6	4279.4	5497.7	7701.3	8101.7	7835.6
40°	6176.0	6187.9	6082.6	5692.6	5156.6	4836.6	4816.8	5953.4	8433.6	8953.9	8637.8
42.5°	6779.4	6792.5	6685.8	6397.3	5903.4	5589.9	5476.7	6511.9	9148.8	9869.3	9495.2
45°	7188.9	7270.6	7254.7	7024.3	6670.0	6344.6	6269.6	7212.6	9964.1	10840.0	10401.4
47.5°	7304.9	7379.9	7498.5	7530.1	7314.1	6994.0	7083.6	8056.9	10788.6	11812.1	11312.9
50°	7019.0	7088.8	7335.1	7663.1	7813.3	7714.5	7875.2	8961.8	11632.9	12781.4	12207.2
52.5°	6455.2	6526.4	6837.3	7356.2	7968.7	8279.5	8669.3	9853.5	12450.9	13699.5	13054.1
55°	5640.0	5715.1	6114.1	6701.6	7672.3	8512.6	9331.9	10743.8	13200.4	14525.4	13818.0
57.5°	4530.9	4586.3	5001.2	5823.0	6926.8	8280.9	9820.5	11716.0	13906.3	15336.8	14575.4
60°	2953.0	3001.7	3483.9	4400.5	5691.3	7506.4	9918.0	12799.9	14844.2	16391.8	15596.2
62.5°	1963.9	1996.8	2282.6	2955.7	4008.1	6019.3	9347.7	13665.3	16219.2	18227.9	17346.7
65°	1347.5	1380.4	1666.1	2135.1	2589.5	3981.7	7707.9	13550.7	17465.2	19685.9	18644.0
67.5°	961.6	989.1	1231.5	1674.0	1874.3	2312.9	5225.0	12086.1	17286.1	19741.2	18713.8
70°	688.9	704.7	904.9	1304.0	1489.6	1389.6	2905.6	9243.7	15135.3	18229.1	17288.8
72.5°	482.1	487.4	628.3	993.1	1199.9	1014.2	1383.0	6162.9	11447.2	14308.1	13403.2
75°	326.7	333.2	422.8	728.4	962.8	774.5	732.4	3304.7	6720.0	7920.0	7099.4
77.5°	200.2	202.8	272.6	497.8	720.5	590.1	471.5	1400.1	2600.0	2552.7	2175.9
80°	113.3	113.3	173.8	309.5	491.3	380.7	330.6	595.3	823.2	723.1	637.4
82.5°	63.2	64.6	126.5	192.3	325.3	225.2	181.7	275.3	355.7	314.8	274.0
85°	26.3	29.0	77.7	90.9	155.4	111.9	73.8	115.9	131.7	117.3	85.6
87.5°	2.7	4.0	23.7	17.1	18.4	22.3	10.6	22.3	18.4	18.4	13.2
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°	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7	3030.7
2.5°	3050.5	3030.7	2980.7	2922.7	2846.3	2809.4	2759.4	2725.2	2696.2	2698.8	2672.5
5°	3109.7	3059.7	2947.8	2808.1	2634.2	2510.4	2378.7	2287.9	2214.1	2198.3	2162.8
7.5°	3191.4	3112.4	2916.1	2664.6	2370.8	2148.3	1949.3	1821.6	1730.7	1701.7	1672.8
10°	3296.8	3182.2	2875.3	2484.1	2061.3	1778.2	1564.8	1464.6	1402.7	1381.7	1365.9
12.5°	3419.3	3262.6	2821.3	2264.1	1742.6	1470.0	1334.2	1284.2	1264.4	1257.9	1253.9
15°	3573.4	3362.6	2739.6	2003.4	1472.5	1281.6	1223.6	1217.0	1219.6	1217.0	1215.8
17.5°	3756.5	3472.0	2606.6	1734.7	1290.8	1185.4	1164.3	1169.6	1176.2	1174.9	1172.3
20°	3956.7	3580.0	2436.7	1496.3	1167.0	1116.9	1105.1	1110.4	1115.6	1112.9	1111.6
22.5°	4184.6	3695.8	2248.3	1310.6	1084.0	1053.7	1040.6	1041.8	1041.8	1036.6	1033.9
25°	4457.2	3823.7	2050.8	1178.9	1020.8	997.1	981.2	976.0	968.1	952.3	949.7
27.5°	4782.5	3959.3	1861.1	1086.6	970.8	948.3	929.9	916.8	897.0	870.6	868.0
30°	5148.7	4124.0	1700.4	1028.7	931.2	908.9	887.8	868.0	839.1	806.1	803.5
32.5°	5579.4	4300.5	1583.2	990.5	895.6	872.0	847.0	823.2	791.6	758.7	760.0
35°	6093.1	4513.8	1514.7	964.1	868.0	836.4	808.7	782.4	758.7	729.7	727.0
37.5°	6650.2	4740.4	1493.6	951.0	849.5	800.8	769.2	750.8	748.1	731.0	729.7
40°	7260.1	5009.1	1509.4	943.1	829.8	766.6	732.4	728.4	734.9	704.7	706.0
42.5°	7905.4	5327.8	1535.8	933.9	802.2	732.4	699.4	699.4	694.1	652.0	652.0
45°	8603.5	5695.3	1562.1	911.4	769.2	698.1	673.0	663.8	641.4	600.6	599.3
47.5°	9306.9	6069.3	1581.9	870.6	729.7	669.1	646.7	625.7	592.8	555.9	554.5
50°	9974.7	6405.2	1560.8	810.1	684.9	641.4	617.8	588.8	553.2	528.2	524.2
52.5°	10571.3	6696.3	1471.3	738.9	637.4	612.4	591.4	561.1	532.1	505.7	503.2
55°	11090.3	6932.1	1313.2	671.8	595.3	587.4	566.4	528.2	488.6	466.3	463.6
57.5°	11588.1	7111.2	1115.6	616.4	557.2	559.8	528.2	493.9	457.0	433.4	430.7
60°	12250.7	7350.9	915.4	565.1	516.3	524.2	489.9	464.9	418.8	388.6	384.6
62.5°	13309.6	7723.7	727.0	501.8	468.9	471.5	457.0	426.7	371.5	335.9	333.2
65°	14150.0	7586.7	573.0	433.4	414.9	418.8	418.8	385.9	326.7	285.8	281.9
67.5°	14055.1	6496.1	457.0	366.1	363.6	366.1	375.4	347.7	289.8	256.9	251.5
70°	12947.5	5167.1	366.1	304.2	316.1	309.5	335.9	317.4	260.8	227.9	224.0
72.5°	10564.8	3722.2	279.2	251.5	242.3	252.9	303.0	285.8	217.3	180.4	176.5
75°	6173.4	1986.2	208.1	198.8	175.2	210.7	268.7	243.6	165.9	133.0	129.0
77.5°	2009.9	692.8	152.8	146.2	130.4	169.9	229.2	205.5	135.7	105.4	101.4
80°	538.7	209.4	104.0	96.1	84.3	126.5	181.7	163.3	97.5	68.5	67.1
82.5°	216.0	88.3	60.6	54.0	46.1	86.9	143.6	131.7	72.5	43.5	43.5
85°	69.8	29.0	22.3	17.1	21.1	54.0	85.6	89.6	51.4	22.3	17.1
87.5°	9.2	4.0	4.0	5.2	4.0	9.2	26.3	25.0	14.5	2.7	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)