

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: P960357

Luminaire Tested: **NAV-SB1C-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6021.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

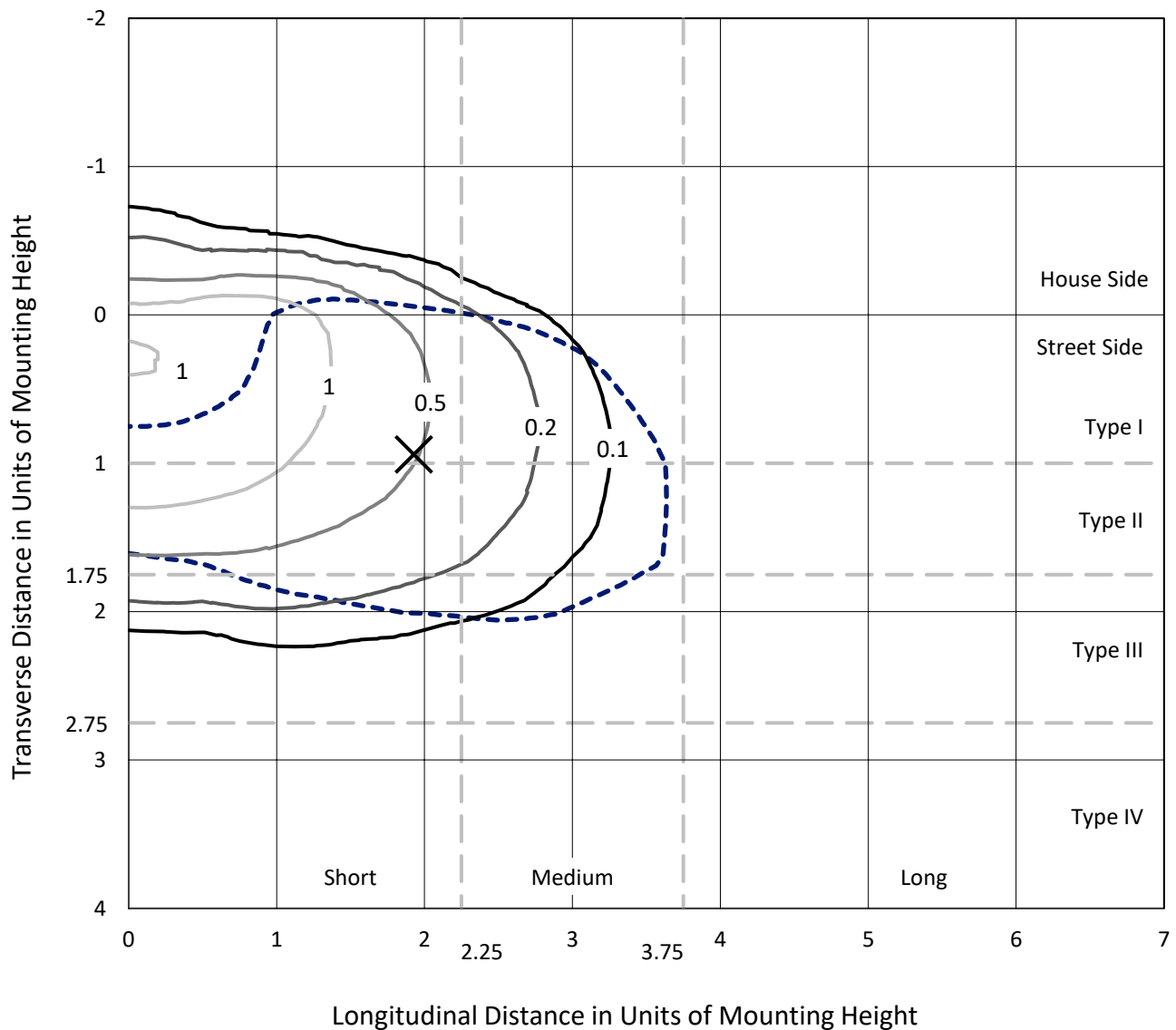


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

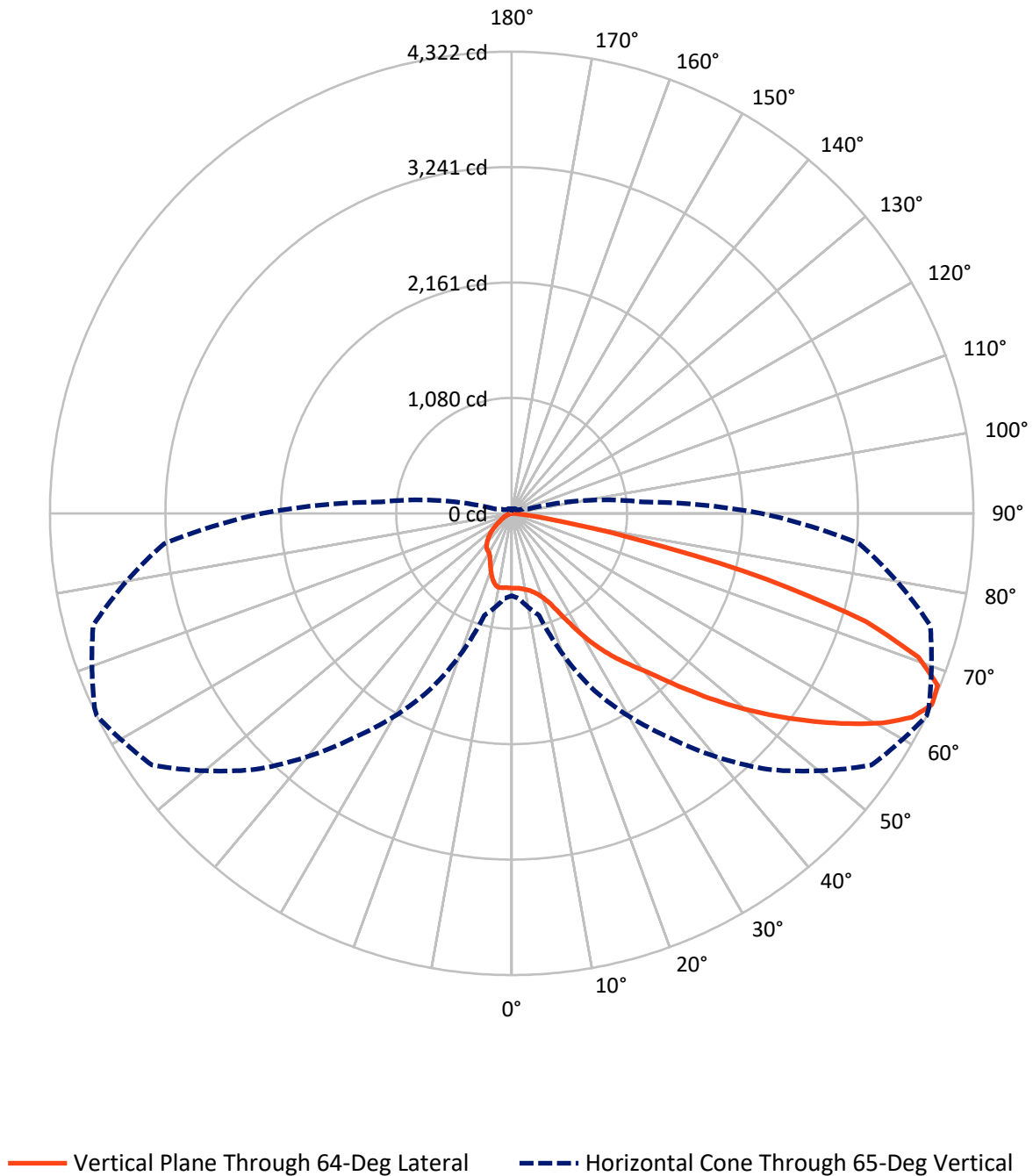


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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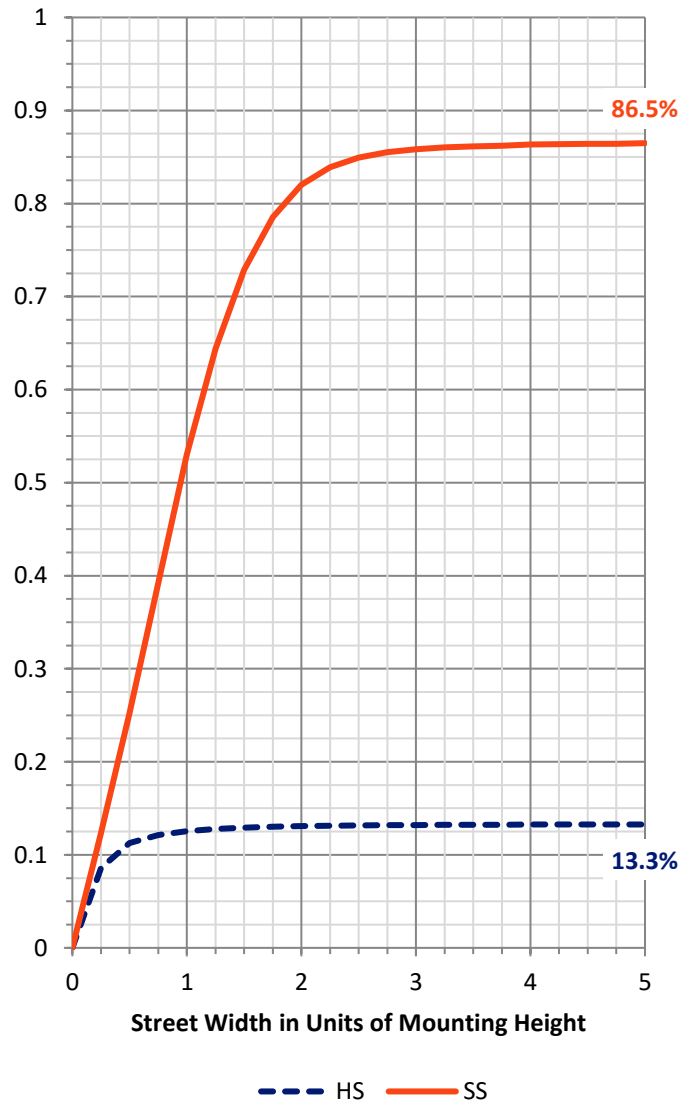
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	805.3	0.0	805.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	5216.6	0.0	5216.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	6021.9	0.0	6021.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	1.1
10°-20°	175.3	2.9
20°-30°	332.1	5.5
30°-40°	672.0	11.2
40°-50°	1144.8	19.0
50°-60°	1556.9	25.9
60°-70°	1462.0	24.3
70°-80°	585.7	9.7
80°-90°	28.4	0.5
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°	6021.9	100.0
0°-180°	6021.9	100.0

Coefficient of Utilization



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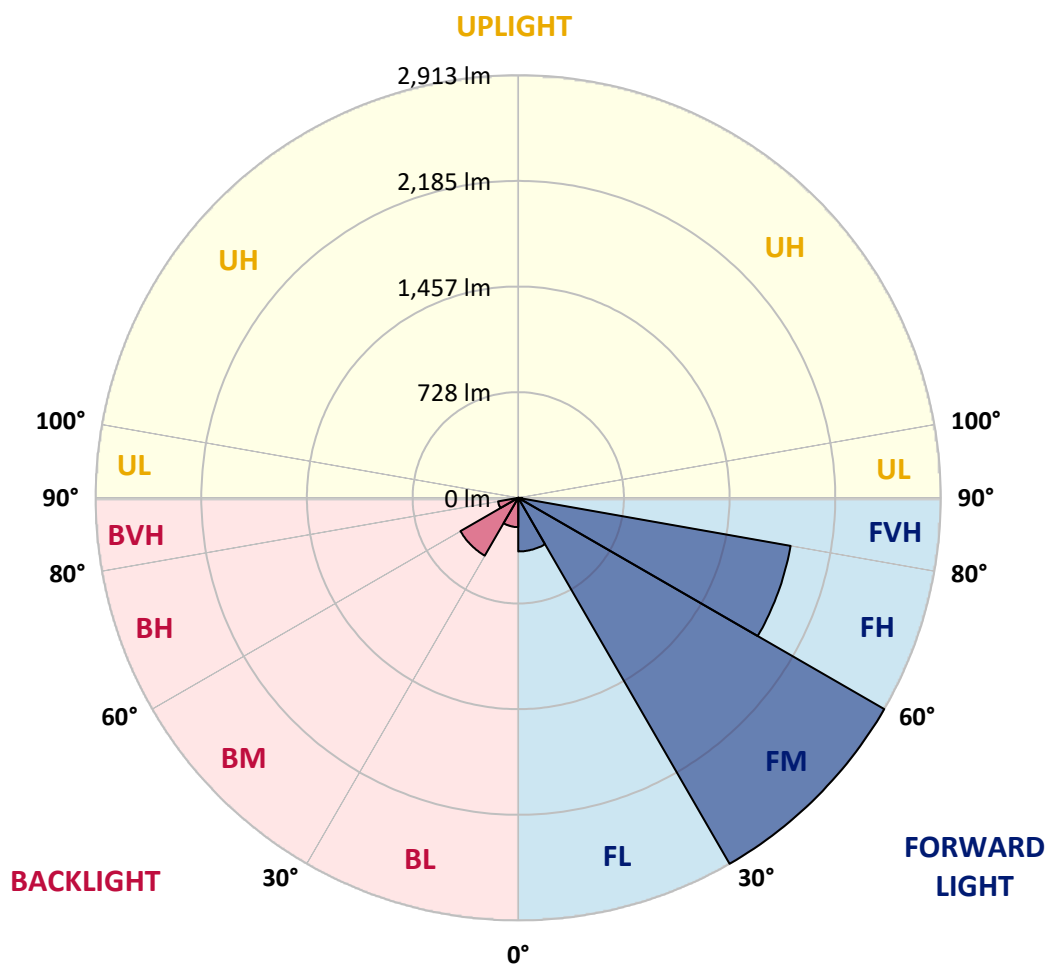
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.8	6.1			
FM	(30°-60°)	2913.4	48.4			
FH	(60°-80°)	1906.4	31.7			G2/5000
FVH	(80°-90°)	27.0	0.4			G1/100
BL	(0°-30°)	202.2	3.4	B1/500		
BM	(30°-60°)	460.4	7.6	B1/1000		
BH	(60°-80°)	141.3	2.3	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	698.0	702.8	701.6	700.4	700.0	700.8	701.2	700.8	700.8	700.8	701.2
5°	684.7	688.7	688.7	691.6	695.6	700.4	704.1	704.9	705.6	706.8	706.4
7.5°	659.3	662.5	664.9	674.1	684.3	697.2	708.1	713.7	714.5	718.9	720.6
10°	641.9	646.0	650.0	659.6	674.1	693.5	712.1	725.8	727.9	738.3	743.2
12.5°	641.0	645.1	650.4	660.8	677.8	698.4	721.0	740.8	744.5	759.7	769.9
15°	649.5	654.4	659.3	672.2	690.3	715.3	739.5	764.2	767.8	789.7	800.5
17.5°	666.9	673.3	677.0	689.9	709.3	737.2	769.1	797.2	800.5	825.9	839.7
20°	701.2	708.9	710.1	720.6	739.5	769.5	807.4	842.6	846.5	875.7	890.9
22.5°	772.2	783.2	773.5	778.7	795.7	825.5	866.7	911.1	916.8	949.9	963.6
25°	897.4	912.8	887.8	878.8	886.1	917.2	968.8	1025.0	1031.5	1058.1	1065.0
27.5°	1143.3	1123.5	1085.6	1048.4	1026.6	1044.4	1102.5	1171.9	1180.0	1205.8	1197.7
30°	1413.4	1395.9	1344.7	1262.4	1210.6	1207.9	1261.6	1339.1	1348.3	1373.0	1348.3
32.5°	1683.8	1667.3	1611.5	1510.2	1420.5	1376.2	1413.4	1499.3	1504.2	1519.9	1483.6
35°	1949.9	1932.8	1877.2	1773.5	1663.2	1562.3	1555.0	1651.9	1653.5	1670.0	1616.0
37.5°	2217.5	2203.3	2144.0	2042.3	1933.7	1794.4	1727.0	1796.4	1798.5	1814.6	1758.5
40°	2408.4	2414.5	2373.7	2295.0	2201.7	2049.6	1919.9	1950.3	1938.2	1965.1	1931.7
42.5°	2572.3	2584.4	2548.9	2509.3	2455.3	2321.2	2159.0	2153.7	2134.4	2148.8	2114.2
45°	2714.0	2724.1	2692.3	2682.9	2681.7	2587.7	2420.1	2388.7	2361.6	2358.7	2317.2
47.5°	2766.1	2785.4	2799.2	2830.3	2890.8	2851.2	2690.2	2641.3	2611.1	2588.8	2523.0
50°	2785.8	2806.4	2853.3	2943.7	3087.0	3104.0	2959.1	2904.1	2867.0	2826.6	2729.8
52.5°	2759.2	2796.0	2858.9	3011.1	3219.0	3306.6	3217.1	3169.0	3126.6	3060.8	2917.0
55°	2602.2	2639.0	2767.7	3010.3	3284.8	3448.7	3460.8	3439.5	3391.8	3288.1	3068.4
57.5°	2271.2	2325.6	2529.5	2907.8	3283.6	3571.1	3699.8	3715.2	3661.9	3513.3	3187.5
60°	1812.6	1886.4	2135.2	2680.5	3182.3	3637.3	3909.3	3986.0	3929.5	3735.4	3284.0
62.5°	1264.7	1350.3	1585.7	2324.5	2950.6	3589.7	4062.4	4204.0	4161.3	3934.0	3321.2
65°	771.4	798.9	988.6	1829.1	2556.6	3390.2	4109.6	4321.9	4307.8	4055.5	3266.3
67.5°	513.9	536.9	591.4	1254.3	1984.5	2991.8	3996.6	4301.3	4305.4	4035.7	3065.3
70°	309.7	329.4	364.9	729.5	1286.2	2368.1	3646.5	4038.9	4062.4	3771.3	2684.2
72.5°	127.6	140.9	173.2	330.7	666.0	1503.0	2903.7	3467.7	3522.2	3171.0	2060.0
75°	72.3	79.1	101.7	165.9	289.0	700.4	1758.9	2461.7	2542.1	2185.6	1239.3
77.5°	48.1	51.2	65.8	107.4	162.7	239.0	751.6	1282.6	1435.9	1193.7	536.5
80°	32.3	35.2	45.2	71.9	105.8	102.5	239.4	475.2	584.6	410.1	130.8
82.5°	21.8	22.2	32.3	47.3	67.0	49.6	70.6	147.7	185.7	118.7	49.6
85°	12.5	12.1	23.8	27.5	29.8	20.6	21.4	44.4	58.1	50.0	28.3
87.5°	1.6	2.5	9.3	7.3	4.0	4.4	4.4	7.7	11.3	12.1	6.0
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°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	701.2	700.8	699.6	698.4	695.6	693.9	694.7	693.9	693.5	693.9	695.6
5°	706.4	705.2	702.0	698.0	692.3	685.5	681.0	674.6	668.5	664.9	665.7
7.5°	720.6	719.3	714.9	703.7	685.5	656.8	630.6	607.5	590.2	580.2	580.6
10°	743.2	741.2	734.3	709.3	661.6	599.1	547.0	503.8	475.6	462.3	461.0
12.5°	769.9	767.4	755.3	704.1	616.4	518.8	446.9	398.8	372.6	360.9	359.7
15°	801.3	798.1	774.3	679.0	550.6	429.9	364.1	328.2	311.3	300.7	301.1
17.5°	840.5	834.9	788.4	641.4	479.2	362.1	313.2	286.2	271.3	261.2	260.3
20°	891.3	882.1	799.7	596.7	413.4	319.3	278.9	256.4	245.1	236.2	234.5
22.5°	962.4	949.0	813.4	548.2	367.0	289.9	253.5	237.0	227.7	217.6	216.0
25°	1050.4	1034.6	830.4	503.4	335.1	264.4	234.9	221.2	210.3	198.6	197.4
27.5°	1173.5	1145.2	850.5	466.7	307.6	242.6	218.0	202.6	190.1	180.4	178.5
30°	1310.8	1264.3	868.4	444.4	282.6	222.4	195.8	180.4	168.7	161.8	160.7
32.5°	1440.7	1377.8	880.1	434.8	259.9	199.5	171.6	155.0	146.2	144.1	145.3
35°	1563.5	1480.3	878.8	425.5	239.7	176.4	147.7	130.8	123.9	125.2	125.2
37.5°	1704.8	1589.8	870.3	410.9	223.2	155.4	127.2	112.2	106.2	106.6	108.2
40°	1869.1	1716.1	865.1	383.6	205.1	136.0	110.2	98.1	93.7	92.0	91.6
42.5°	2044.3	1838.4	865.9	352.4	182.4	118.7	98.5	88.5	84.4	83.1	82.7
45°	2220.4	1955.1	867.2	320.1	158.7	105.4	90.0	81.6	79.1	77.5	77.5
47.5°	2385.8	2054.4	844.5	285.4	135.2	95.2	83.1	77.5	75.4	73.5	73.5
50°	2540.1	2120.6	790.1	245.1	116.6	87.2	77.9	73.9	71.9	69.8	69.8
52.5°	2660.0	2131.1	700.0	203.5	103.7	81.2	74.7	71.0	68.7	66.6	66.2
55°	2713.2	2065.3	572.1	164.7	93.7	75.8	71.4	67.9	65.0	62.9	62.5
57.5°	2699.5	1926.8	446.1	132.4	83.9	70.6	67.4	65.0	61.8	58.5	58.1
60°	2632.1	1741.6	336.3	110.2	75.1	65.0	62.9	61.0	56.5	51.7	50.8
62.5°	2515.5	1508.6	239.7	91.2	65.4	58.5	57.7	56.1	49.6	40.8	40.0
65°	2337.0	1225.6	161.4	75.8	56.1	51.2	51.7	48.9	40.4	30.2	29.5
67.5°	2076.2	896.2	103.3	62.2	46.8	42.7	43.2	41.6	34.3	25.8	24.6
70°	1743.9	593.5	67.4	47.3	37.5	33.1	35.6	36.0	29.1	21.0	20.2
72.5°	1278.5	350.4	47.3	35.2	27.5	23.0	29.1	29.8	23.4	15.8	15.0
75°	728.7	166.4	35.6	25.4	16.9	16.2	22.7	22.7	16.2	10.5	9.7
77.5°	306.0	69.4	25.0	16.5	9.7	9.3	15.4	14.1	8.1	4.8	4.8
80°	88.5	31.1	13.3	8.1	4.0	3.6	6.0	4.4	2.0	0.8	0.8
82.5°	34.7	13.7	5.2	3.3	1.6	1.6	0.8	0.0	0.0	0.0	0.0
85°	20.6	5.6	2.5	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.2	0.8	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)