

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: P961562

Luminaire Tested: **NAV-SB2A-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

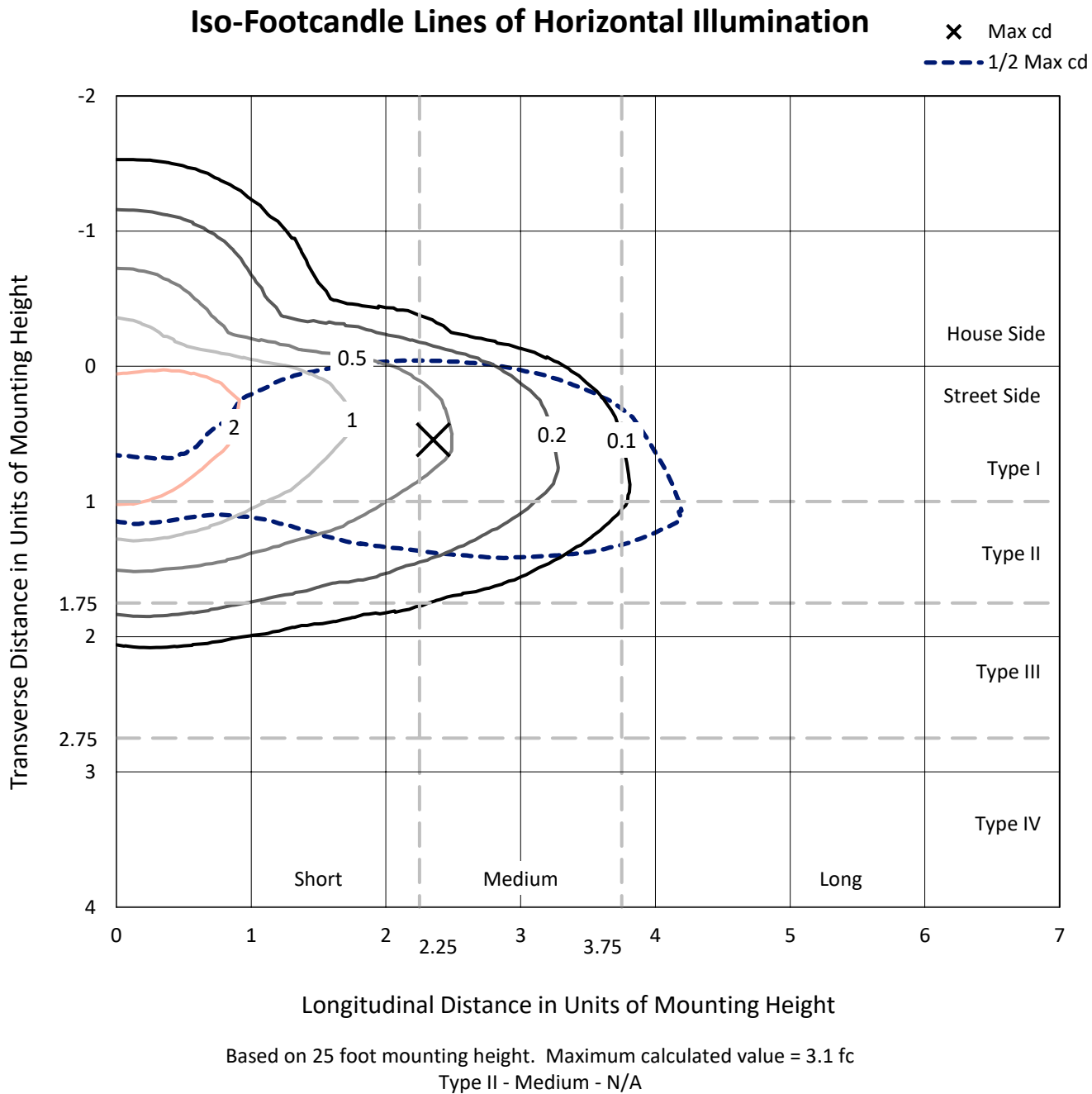
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8415.3 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

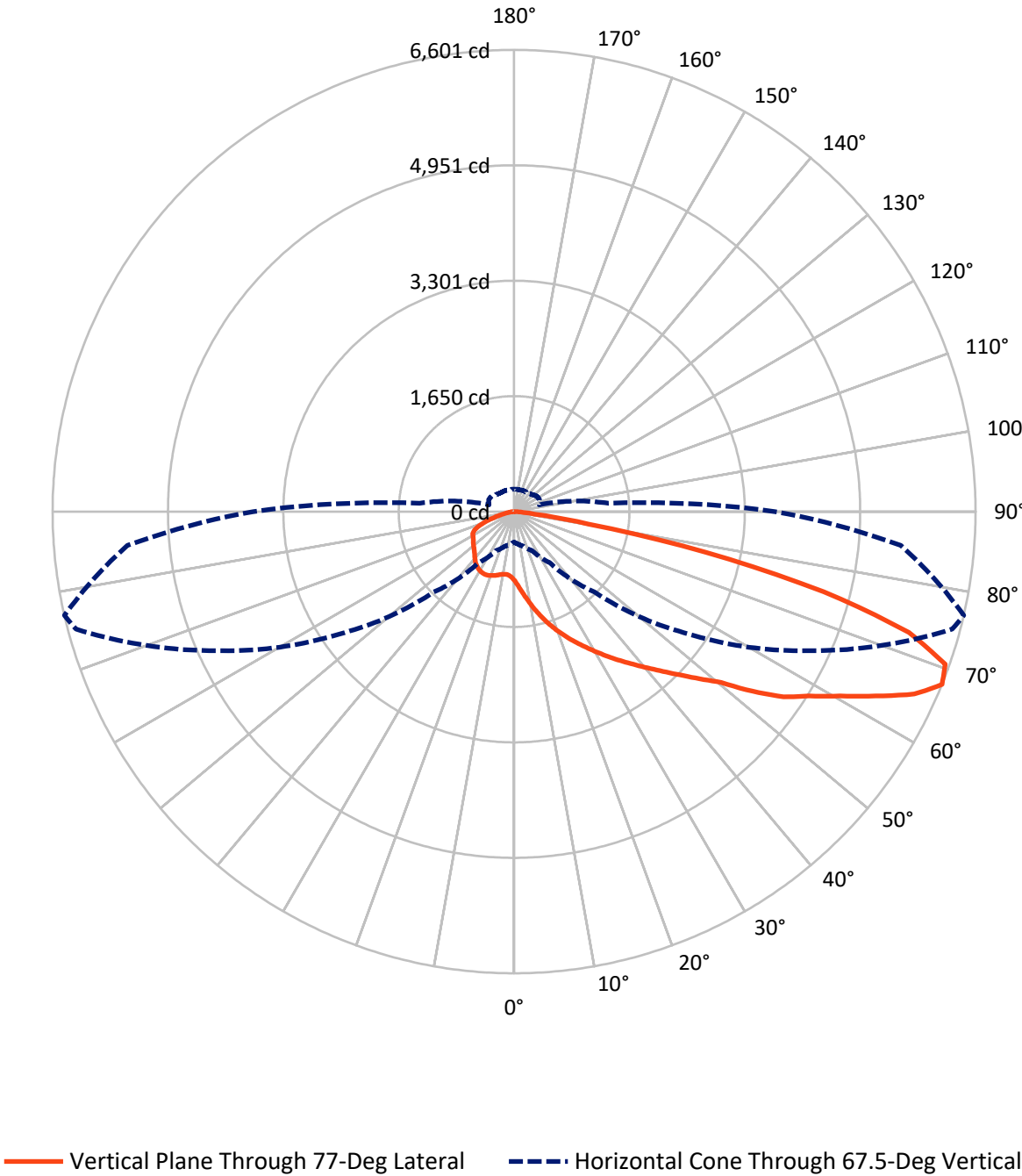


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Luminous Intensity Polar Plot



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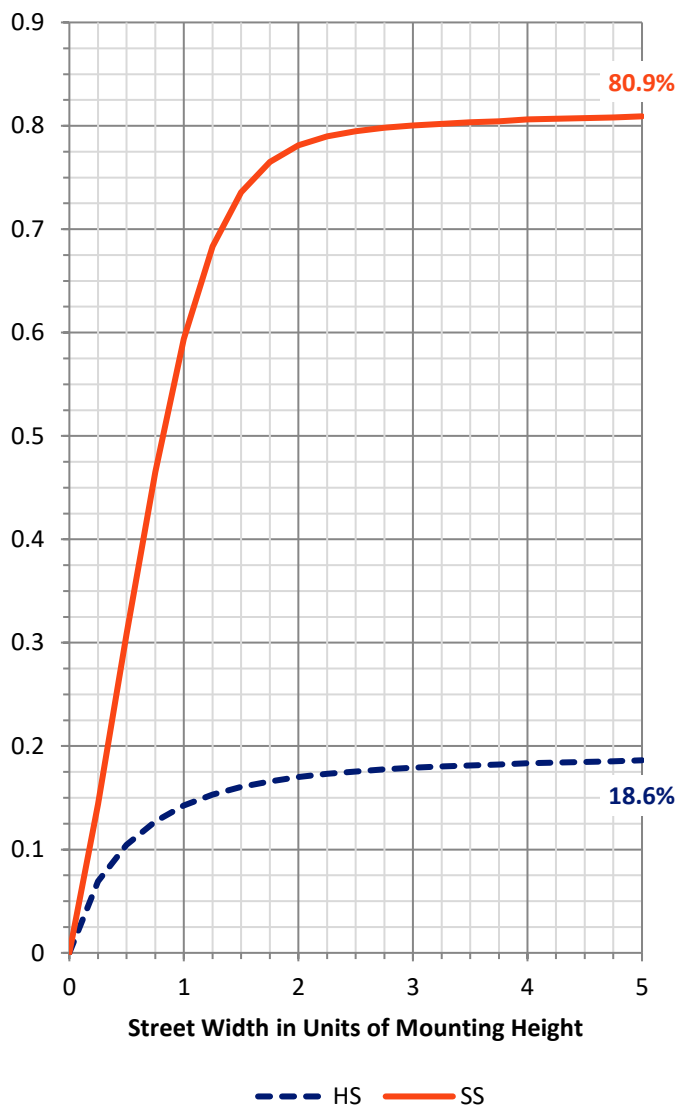
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1591.8	0.0	1591.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6823.4	0.0	6823.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	8415.3	0.0	8415.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.3
10°-20°	380.2	4.5
20°-30°	717.9	8.5
30°-40°	1156.5	13.7
40°-50°	1581.9	18.8
50°-60°	1784.4	21.2
60°-70°	1665.5	19.8
70°-80°	913.0	10.8
80°-90°	110.1	1.3
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°	8415.3	100.0
0°-180°	8415.3	100.0

Coefficient of Utilization



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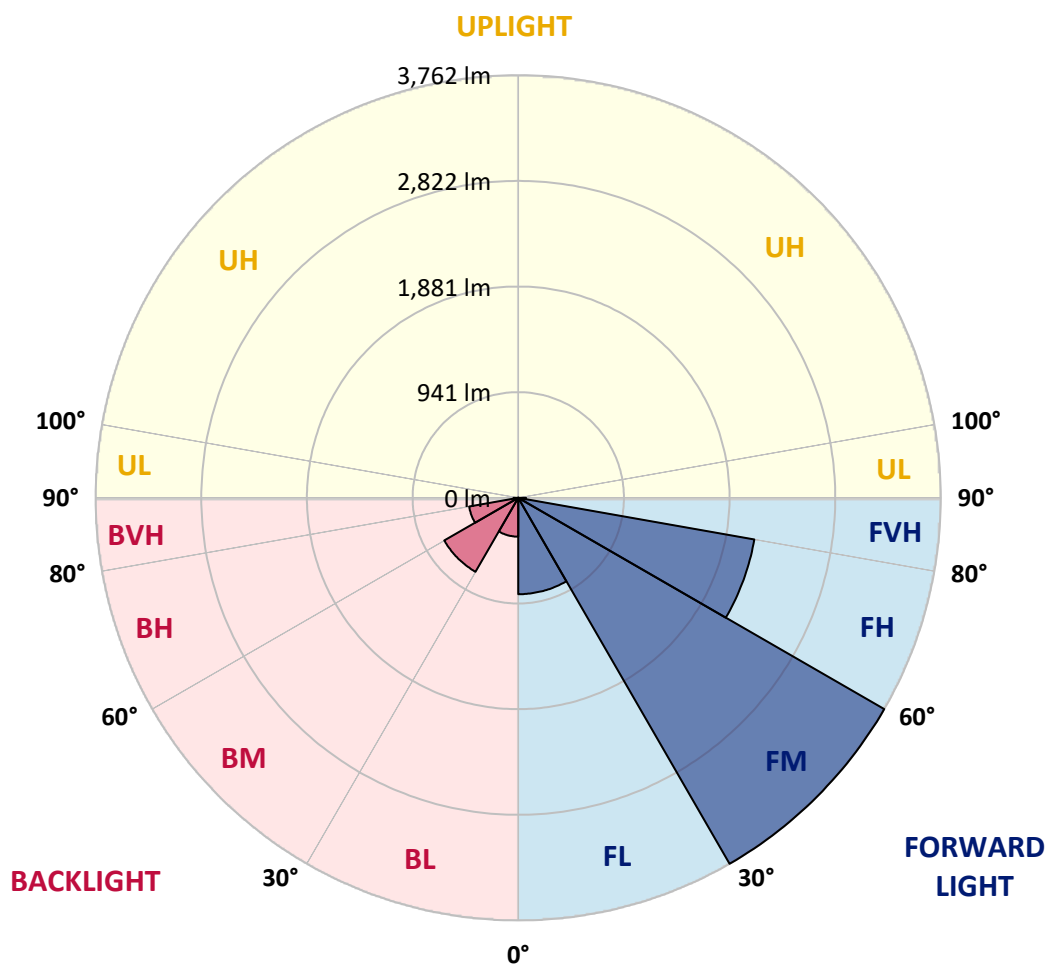
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	857.8	10.2			
FM	(30°-60°)	3762.4	44.7			
FH	(60°-80°)	2134.4	25.4			G2/5000
FVH	(80°-90°)	68.9	0.8			G1/100
BL	(0°-30°)	346.1	4.1	B1/500		
BM	(30°-60°)	760.4	9.0	B1/1000		
BH	(60°-80°)	444.1	5.3	B1/500		G1/500
BVH	(80°-90°)	41.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4
2.5°	1236.3	1245.0	1234.1	1234.1	1197.6	1178.5	1142.1	1114.2	1064.3	1055.5	1022.5
5°	1461.2	1472.1	1456.9	1450.5	1407.4	1367.9	1306.7	1246.3	1157.2	1148.1	1070.3
7.5°	1635.5	1649.4	1635.9	1628.9	1590.7	1546.4	1474.8	1390.5	1265.0	1247.1	1134.7
10°	1777.6	1779.7	1775.4	1778.0	1748.0	1711.5	1638.1	1540.0	1383.1	1358.7	1212.4
12.5°	1857.9	1867.9	1876.6	1892.3	1887.0	1864.4	1798.4	1681.1	1508.2	1476.9	1297.1
15°	1895.6	1913.1	1932.6	1968.6	1997.7	2003.4	1953.0	1832.7	1635.5	1597.7	1382.6
17.5°	1909.2	1925.7	1956.5	2008.6	2071.2	2113.3	2090.7	1980.0	1761.5	1718.0	1472.6
20°	1977.3	1982.1	2000.8	2050.3	2118.1	2188.1	2205.0	2121.5	1886.1	1837.0	1565.6
22.5°	2123.3	2113.8	2119.0	2141.5	2190.2	2258.0	2296.6	2246.7	2014.2	1957.7	1659.4
25°	2364.4	2336.6	2308.8	2282.7	2307.5	2345.7	2389.6	2371.7	2148.5	2076.9	1754.1
27.5°	2668.9	2635.0	2573.8	2488.2	2458.3	2471.7	2491.3	2487.8	2272.7	2200.2	1851.8
30°	2968.6	2929.1	2856.2	2732.3	2653.2	2617.6	2602.9	2592.8	2407.8	2330.5	1950.4
32.5°	3207.9	3176.7	3105.0	2966.5	2851.8	2791.0	2741.9	2706.2	2549.0	2471.7	2054.7
35°	3417.4	3388.2	3306.1	3155.0	3030.3	2965.6	2901.3	2825.3	2695.9	2617.6	2166.7
37.5°	3608.5	3579.4	3466.9	3309.6	3184.1	3139.4	3082.0	2953.0	2843.0	2769.2	2285.3
40°	3729.3	3722.7	3617.6	3439.5	3309.2	3287.1	3267.9	3101.1	3006.4	2937.8	2415.6
42.5°	3760.1	3774.5	3691.0	3544.7	3420.4	3402.6	3447.3	3268.8	3189.7	3124.1	2563.3
45°	3685.8	3727.1	3672.4	3572.8	3499.5	3489.9	3606.4	3452.1	3392.5	3332.7	2741.5
47.5°	3497.7	3567.6	3545.1	3531.1	3520.8	3562.0	3746.2	3646.7	3622.4	3570.3	2944.7
50°	3118.0	3250.6	3290.0	3377.8	3478.6	3618.0	3873.5	3859.1	3890.8	3838.3	3192.4
52.5°	2461.7	2644.1	2873.5	3093.3	3349.2	3599.4	4013.4	4164.1	4297.8	4269.2	3585.9
55°	2032.1	2114.2	2290.6	2693.7	3098.1	3520.8	4076.3	4410.4	4701.9	4676.3	3884.3
57.5°	1701.9	1775.4	1884.0	2220.6	2718.4	3342.2	4115.4	4560.6	4978.5	4976.0	4178.8
60°	1347.9	1425.7	1536.9	1775.4	2274.9	3033.8	4106.8	4731.8	5331.7	5353.5	4538.1
62.5°	948.2	1033.8	1157.2	1379.6	1821.8	2634.1	3929.5	4855.6	5747.4	5806.5	4970.3
65°	623.3	679.8	772.7	964.8	1357.5	2120.2	3591.1	4871.7	6192.2	6292.2	5376.0
67.5°	437.0	458.7	513.4	617.7	894.8	1626.0	3052.0	4705.4	6489.0	6601.4	5551.9
70°	341.0	351.9	379.7	421.4	562.1	1093.4	2338.7	4272.7	6425.5	6542.8	5368.2
72.5°	294.5	304.9	315.4	320.6	377.1	675.1	1584.2	3572.4	5828.3	5907.7	4667.5
75°	267.1	269.8	278.5	276.8	287.6	437.9	914.4	2602.9	4598.5	4571.1	3445.5
77.5°	224.6	228.1	242.4	240.3	255.4	299.3	474.8	1679.8	2981.2	2795.3	1917.9
80°	190.2	192.0	207.7	205.0	222.0	216.8	242.4	856.2	1264.5	1071.2	553.0
82.5°	66.0	81.7	158.6	163.3	169.4	131.2	139.9	349.2	386.2	295.8	116.0
85°	32.2	34.3	80.8	114.7	114.3	66.0	68.2	124.6	121.7	95.5	38.6
87.5°	5.2	6.6	9.5	44.8	35.7	17.4	23.5	24.3	25.2	21.7	8.7
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°	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4	987.4
2.5°	998.2	976.5	930.9	888.8	855.8	824.0	806.3	791.0	782.4	780.6	780.6
5°	1025.2	980.4	897.5	827.5	781.9	748.0	730.2	718.9	713.3	709.8	709.4
7.5°	1063.8	998.2	880.1	800.6	752.8	728.5	719.3	717.6	717.2	717.6	718.9
10°	1117.2	1027.4	878.3	794.1	754.1	740.7	740.2	740.7	742.4	742.8	743.2
12.5°	1175.1	1057.3	885.3	799.7	770.6	763.2	761.9	761.5	762.8	763.6	764.1
15°	1238.0	1096.9	897.0	811.9	788.8	781.0	779.7	777.2	776.6	776.2	775.8
17.5°	1302.8	1135.9	910.1	824.9	800.6	789.8	784.9	778.9	774.1	772.7	774.1
20°	1368.4	1174.5	919.2	831.4	801.4	786.3	776.6	766.3	758.0	753.3	755.0
22.5°	1438.3	1215.0	924.9	829.7	793.7	772.7	755.4	743.2	730.6	722.4	722.8
25°	1506.4	1250.2	924.3	820.6	778.4	751.9	729.8	714.1	696.8	688.1	688.1
27.5°	1572.0	1281.9	913.5	804.5	756.8	727.1	700.7	682.0	665.0	656.8	656.4
30°	1639.8	1308.4	896.6	781.0	731.0	698.5	669.4	653.3	638.2	630.3	629.9
32.5°	1707.1	1332.7	872.7	751.9	701.5	670.2	641.5	626.8	617.7	617.7	618.2
35°	1778.4	1349.6	841.0	718.0	670.2	640.3	617.7	609.1	608.1	602.9	601.7
37.5°	1853.5	1360.5	802.4	683.3	639.4	611.2	604.2	593.8	585.2	573.8	572.1
40°	1932.6	1371.3	755.8	647.3	606.8	591.2	588.1	574.3	549.5	521.7	517.8
42.5°	2028.6	1378.7	707.7	611.2	572.6	567.3	571.6	547.8	508.2	487.4	487.8
45°	2139.8	1390.9	663.3	575.5	537.3	537.3	555.6	524.3	491.7	478.7	480.8
47.5°	2284.0	1419.1	622.1	536.5	504.8	513.4	520.0	496.1	477.9	461.8	461.4
50°	2492.5	1487.0	579.4	496.9	480.0	497.3	488.2	474.4	453.0	440.0	438.7
52.5°	2751.4	1526.8	541.7	461.4	458.7	476.1	463.1	450.1	434.0	416.6	413.1
55°	2927.8	1534.2	509.9	435.2	444.3	442.6	437.9	426.1	417.5	394.4	394.8
57.5°	3125.0	1549.1	483.9	419.6	435.2	416.2	414.4	404.5	393.1	377.5	372.3
60°	3360.9	1572.0	461.4	413.6	427.4	398.7	390.1	386.2	374.8	367.1	369.2
62.5°	3618.0	1593.0	438.3	414.4	418.3	381.8	368.8	367.5	360.6	357.9	357.9
65°	3793.5	1536.0	409.6	413.6	404.0	364.5	348.0	347.5	341.8	341.0	340.6
67.5°	3732.3	1355.8	370.9	401.4	389.2	347.1	328.8	327.1	319.7	320.1	320.1
70°	3425.7	1098.6	317.5	371.4	370.9	331.5	308.8	303.2	293.3	295.0	296.7
72.5°	2850.4	814.1	245.9	321.4	341.8	317.1	285.9	276.8	264.1	265.9	265.4
75°	2058.6	553.4	179.0	244.6	297.6	300.1	263.2	247.6	232.4	235.0	235.9
77.5°	1053.4	313.6	131.6	168.5	233.7	272.8	242.8	222.0	218.5	242.8	239.3
80°	343.6	157.2	91.2	118.2	153.3	223.2	212.9	189.0	188.1	193.7	166.4
82.5°	102.5	66.4	58.6	77.8	84.7	171.2	183.8	142.9	122.9	129.5	133.8
85°	35.2	32.2	33.4	38.6	40.4	100.3	128.5	94.7	89.5	98.6	97.3
87.5°	8.3	11.3	9.5	8.7	8.7	24.3	49.9	39.6	54.7	36.5	35.2
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)