

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: P962073

Luminaire Tested: **NAV-SB2B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

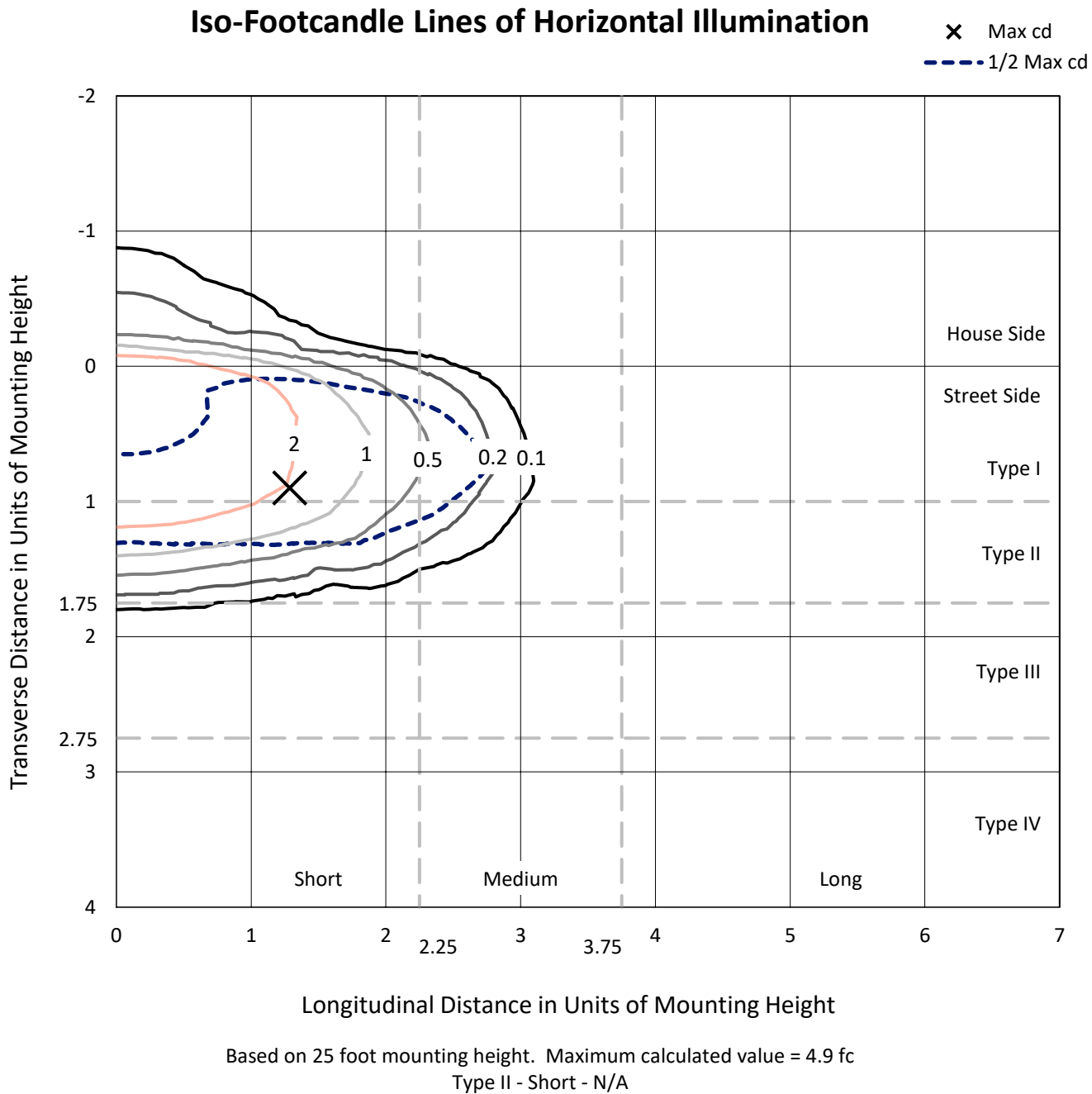
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8842.7 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.9
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



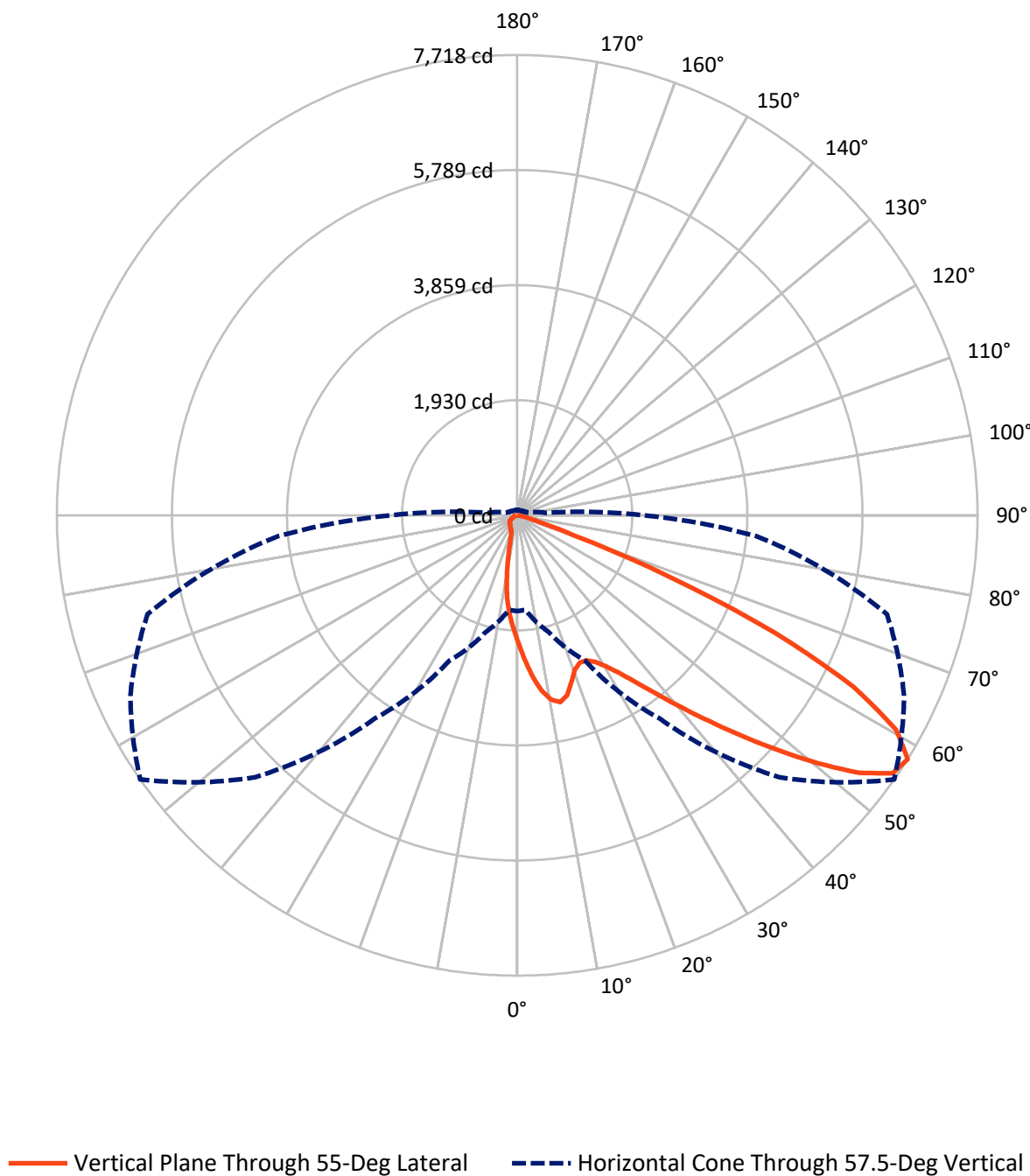
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Luminous Intensity Polar Plot



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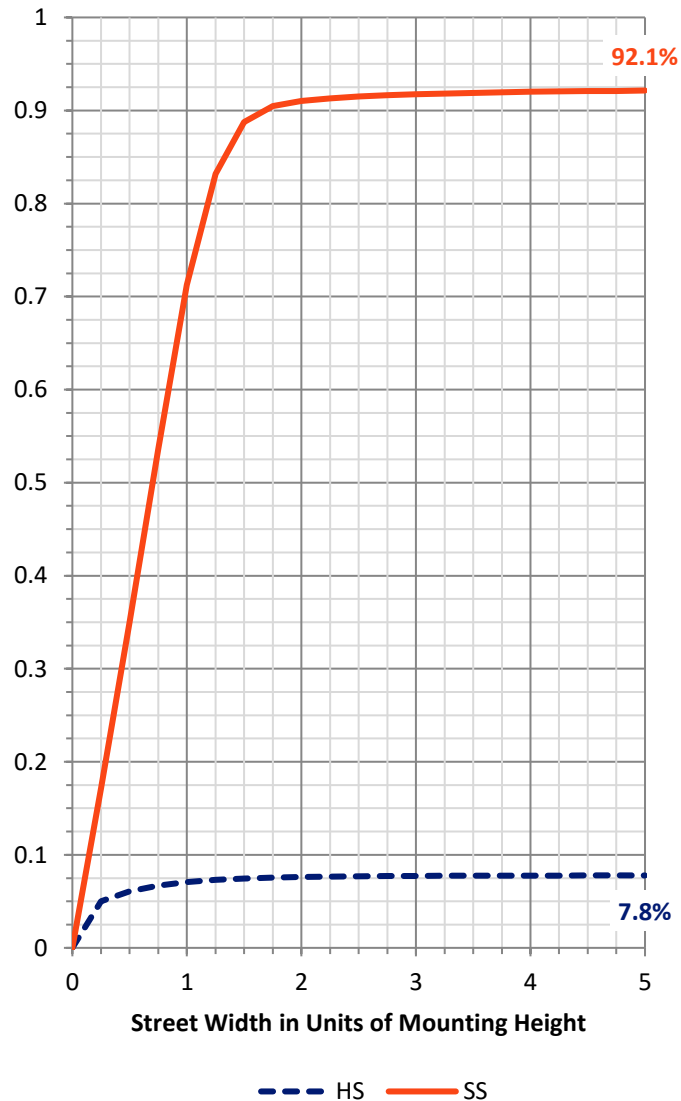
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	690.6	0.0	690.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	8152.1	0.0	8152.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	8842.7	0.0	8842.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	2.2
10°-20°	478.9	5.4
20°-30°	766.2	8.7
30°-40°	1296.9	14.7
40°-50°	2129.3	24.1
50°-60°	2340.2	26.5
60°-70°	1342.4	15.2
70°-80°	274.3	3.1
80°-90°	16.2	0.2
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°	8842.7	100.0
0°-180°	8842.7	100.0

Coefficient of Utilization



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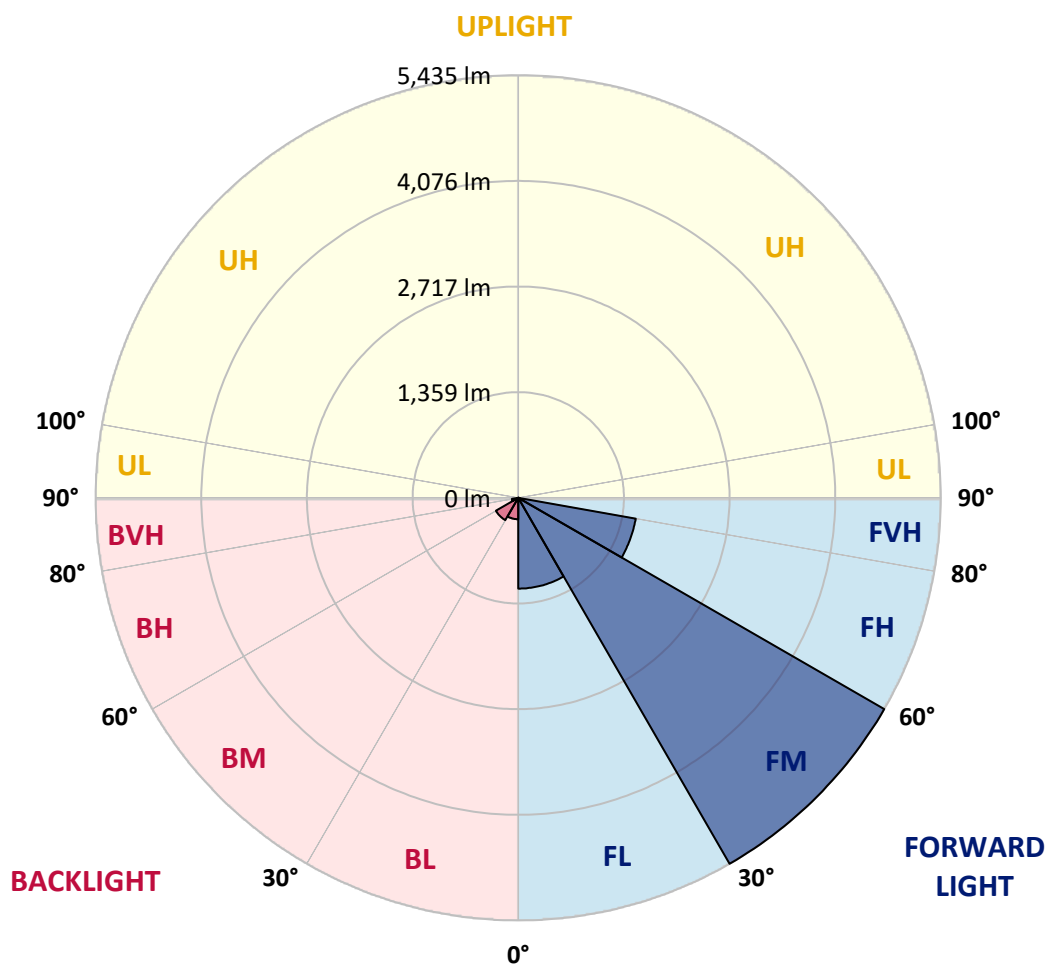
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1167.7	13.2			
FM	(30°-60°)	5434.8	61.5			
FH	(60°-80°)	1534.5	17.4			G1/1800
FVH	(80°-90°)	15.1	0.2			G1/100
BL	(0°-30°)	275.7	3.1	B1/500		
BM	(30°-60°)	331.7	3.8	B1/1000		
BH	(60°-80°)	82.1	0.9	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9
2.5°	2644.0	2610.7	2605.8	2599.2	2536.0	2488.6	2419.8	2344.6	2260.1	2173.9	2135.8
5°	3054.5	3028.4	3023.4	2992.9	2920.9	2840.3	2718.1	2563.8	2406.2	2220.9	2141.2
7.5°	3134.1	3129.2	3151.6	3150.5	3140.7	3076.8	2973.8	2790.0	2553.5	2278.7	2155.4
10°	2779.2	2791.7	2858.2	2916.5	3074.2	3165.8	3143.4	2991.9	2705.0	2344.6	2171.3
12.5°	2455.8	2441.1	2488.6	2554.5	2737.8	3010.3	3213.8	3160.3	2878.4	2419.3	2194.6
15°	2253.1	2247.0	2273.8	2304.3	2443.8	2718.6	3132.0	3297.2	3045.3	2507.7	2230.1
17.5°	2188.2	2183.2	2191.3	2199.0	2289.5	2502.2	2937.3	3381.2	3205.1	2608.5	2269.4
20°	2241.1	2234.5	2233.4	2227.4	2265.0	2410.1	2761.1	3387.1	3348.5	2700.2	2303.2
22.5°	2395.3	2387.6	2361.0	2337.0	2340.3	2422.6	2682.6	3327.2	3456.4	2785.7	2324.4
25°	2675.0	2662.5	2606.9	2526.2	2475.0	2509.8	2694.6	3248.1	3559.4	2852.8	2314.0
27.5°	3025.1	3008.7	2937.3	2817.3	2700.2	2657.6	2781.3	3193.6	3645.0	2904.0	2291.7
30°	3368.0	3346.8	3276.4	3183.2	3012.0	2877.9	2937.9	3217.6	3747.0	2957.4	2262.3
32.5°	3738.3	3718.1	3624.9	3509.3	3367.5	3187.0	3152.2	3334.8	3871.8	3032.2	2241.6
35°	4206.7	4175.0	4042.5	3885.0	3734.5	3551.8	3442.3	3537.1	4038.2	3146.1	2253.1
37.5°	4739.9	4697.4	4554.6	4337.0	4140.7	3936.2	3795.6	3815.2	4281.9	3298.8	2288.4
40°	5242.7	5203.9	5072.0	4867.0	4620.5	4372.4	4222.5	4178.8	4618.3	3484.7	2350.6
42.5°	5544.2	5509.3	5453.7	5367.0	5159.2	4906.3	4717.0	4622.6	5016.3	3707.2	2426.4
45°	5561.0	5530.6	5605.2	5706.1	5665.3	5496.8	5266.1	5093.2	5416.0	3916.0	2504.9
47.5°	5290.6	5269.9	5496.8	5849.0	6024.5	6095.5	5882.8	5524.5	5745.9	4066.0	2537.1
50°	4553.5	4545.8	5012.6	5659.2	6161.4	6620.0	6533.2	5925.8	6001.7	4143.5	2506.5
52.5°	3948.2	3920.4	4192.5	5051.8	5962.4	6895.9	7169.1	6319.5	6180.5	4158.1	2435.1
55°	2994.5	2970.0	3311.4	4035.4	5320.7	6797.7	7634.2	6725.7	6308.7	4120.5	2307.0
57.5°	1606.4	1591.1	2022.3	2685.9	4159.2	6208.8	7718.1	7155.4	6416.6	4020.8	2127.6
60°	625.5	622.7	784.1	1303.2	2527.9	5051.3	7294.4	7413.3	6484.3	3898.1	1977.6
62.5°	378.4	386.6	412.8	585.1	1116.7	3137.9	6317.9	7120.0	6529.5	3785.7	1853.9
65°	312.9	313.5	316.8	401.9	534.9	1313.0	4756.3	6154.8	6417.7	3585.7	1678.3
67.5°	268.2	273.2	285.7	319.0	377.3	575.7	2738.3	4767.7	5737.7	3120.0	1404.6
70°	211.6	218.1	233.9	262.3	291.2	360.4	1012.0	3172.3	4383.3	2351.7	1062.2
72.5°	178.4	177.7	185.9	213.2	231.2	253.6	389.3	1777.6	2547.4	1122.7	525.6
75°	138.0	143.4	153.8	178.4	189.2	183.8	211.0	649.4	912.8	340.2	178.9
77.5°	107.9	112.3	121.6	145.5	156.5	130.3	121.6	232.3	293.4	122.2	80.7
80°	48.5	52.4	82.9	107.4	127.6	90.0	66.0	118.9	130.3	55.7	40.9
82.5°	8.7	14.8	48.5	56.7	65.4	58.3	34.3	61.6	63.8	22.3	14.1
85°	0.5	1.1	16.9	20.7	26.1	19.1	10.4	24.5	21.2	7.6	5.4
87.5°	0.0	0.0	0.0	0.5	0.5	2.8	3.3	4.4	3.3	2.8	2.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9	2130.9
2.5°	2096.5	2019.0	1943.8	1882.2	1846.2	1785.1	1744.9	1738.3	1721.4	1736.1
5°	2056.1	1917.7	1777.6	1652.1	1549.1	1416.0	1316.8	1274.8	1238.3	1250.8
7.5°	2037.1	1818.5	1600.3	1386.0	1165.7	953.1	795.0	729.0	678.9	685.9
10°	2011.5	1715.3	1373.5	1046.3	751.3	541.4	432.3	392.1	369.7	370.2
12.5°	1991.8	1592.1	1110.2	709.4	457.5	345.7	311.9	302.1	295.5	296.1
15°	1982.0	1447.1	850.0	472.7	327.2	292.8	284.6	280.2	275.9	275.3
17.5°	1965.6	1285.8	622.2	345.1	286.3	274.3	267.2	262.3	256.9	255.7
20°	1941.1	1102.5	454.8	291.7	268.2	259.0	249.2	242.6	236.1	235.0
22.5°	1895.8	909.0	349.5	269.9	255.2	244.8	232.8	225.2	218.6	217.6
25°	1811.9	727.3	294.5	256.2	243.7	231.2	218.1	207.8	201.7	200.7
27.5°	1705.6	571.4	267.2	243.7	229.0	217.6	202.8	193.0	187.6	186.4
30°	1580.1	440.0	251.3	229.6	211.6	201.7	188.7	180.5	177.2	177.2
32.5°	1444.9	351.7	244.8	215.4	196.3	185.4	175.1	171.8	170.7	170.1
35°	1317.8	305.3	241.6	204.0	182.7	172.3	167.9	168.5	170.7	170.7
37.5°	1205.0	290.6	240.0	195.8	170.7	161.4	164.1	169.0	166.9	166.9
40°	1103.1	292.2	238.8	189.7	160.8	155.4	160.8	157.0	151.6	151.1
42.5°	1025.1	305.9	236.7	184.8	154.9	151.1	148.8	142.9	142.3	143.4
45°	968.4	317.9	236.1	182.7	148.3	141.2	138.5	132.5	143.4	146.2
47.5°	901.3	317.9	236.1	175.1	137.5	134.7	130.3	123.8	134.7	137.5
50°	814.6	297.7	226.8	166.3	128.6	127.0	119.4	111.2	109.1	110.7
52.5°	705.0	261.2	203.4	154.3	119.9	116.6	107.4	101.4	99.7	99.7
55°	580.2	218.6	171.8	136.8	110.7	104.7	98.2	95.4	93.8	92.7
57.5°	471.6	179.4	138.0	121.6	102.0	94.3	92.1	88.9	86.1	84.6
60°	387.1	141.2	114.0	107.9	93.3	86.1	85.6	81.3	74.1	73.1
62.5°	298.8	103.6	95.9	93.8	84.6	78.5	77.4	68.7	57.8	55.7
65°	211.0	80.7	77.4	82.3	75.2	69.8	67.0	54.0	42.5	40.9
67.5°	148.3	67.6	61.1	72.0	65.4	58.3	56.7	45.8	35.5	34.3
70°	105.8	55.0	50.1	61.6	52.4	51.2	48.0	38.1	28.9	27.8
72.5°	74.7	42.0	38.7	53.4	36.0	44.2	39.3	29.4	21.8	20.7
75°	55.0	30.0	27.3	31.1	26.1	33.2	27.8	19.7	13.6	13.1
77.5°	40.4	19.1	16.4	15.3	15.3	20.7	15.3	8.2	6.0	5.4
80°	28.4	8.7	7.6	6.6	6.0	4.9	2.2	1.1	0.5	0.5
82.5°	16.9	3.8	3.8	2.8	1.6	0.0	0.0	0.0	0.0	0.0
85°	3.8	1.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	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

(END OF REPORT)