

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: P964734

Luminaire Tested: **NAV-SB3C-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15940.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

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

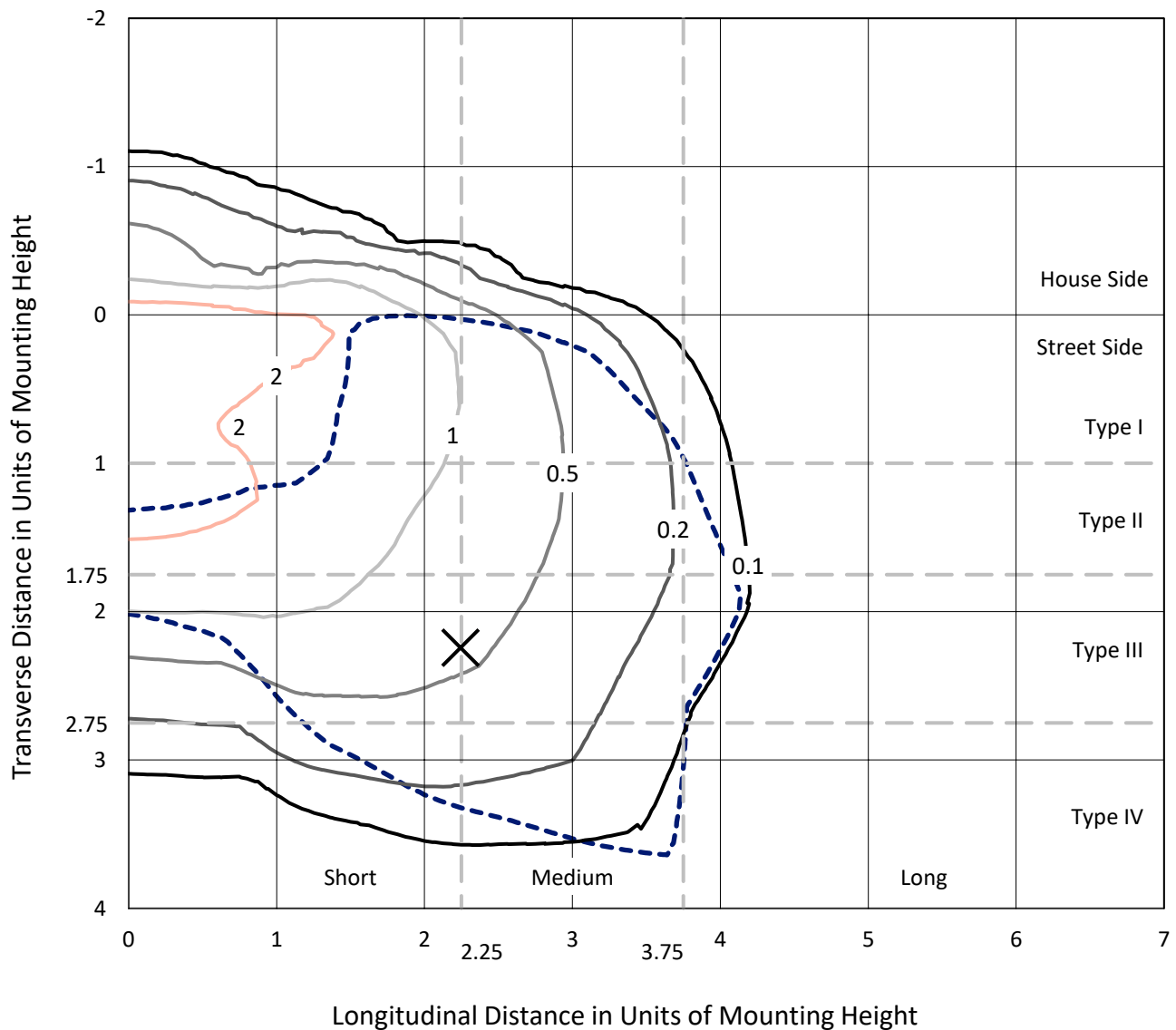


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

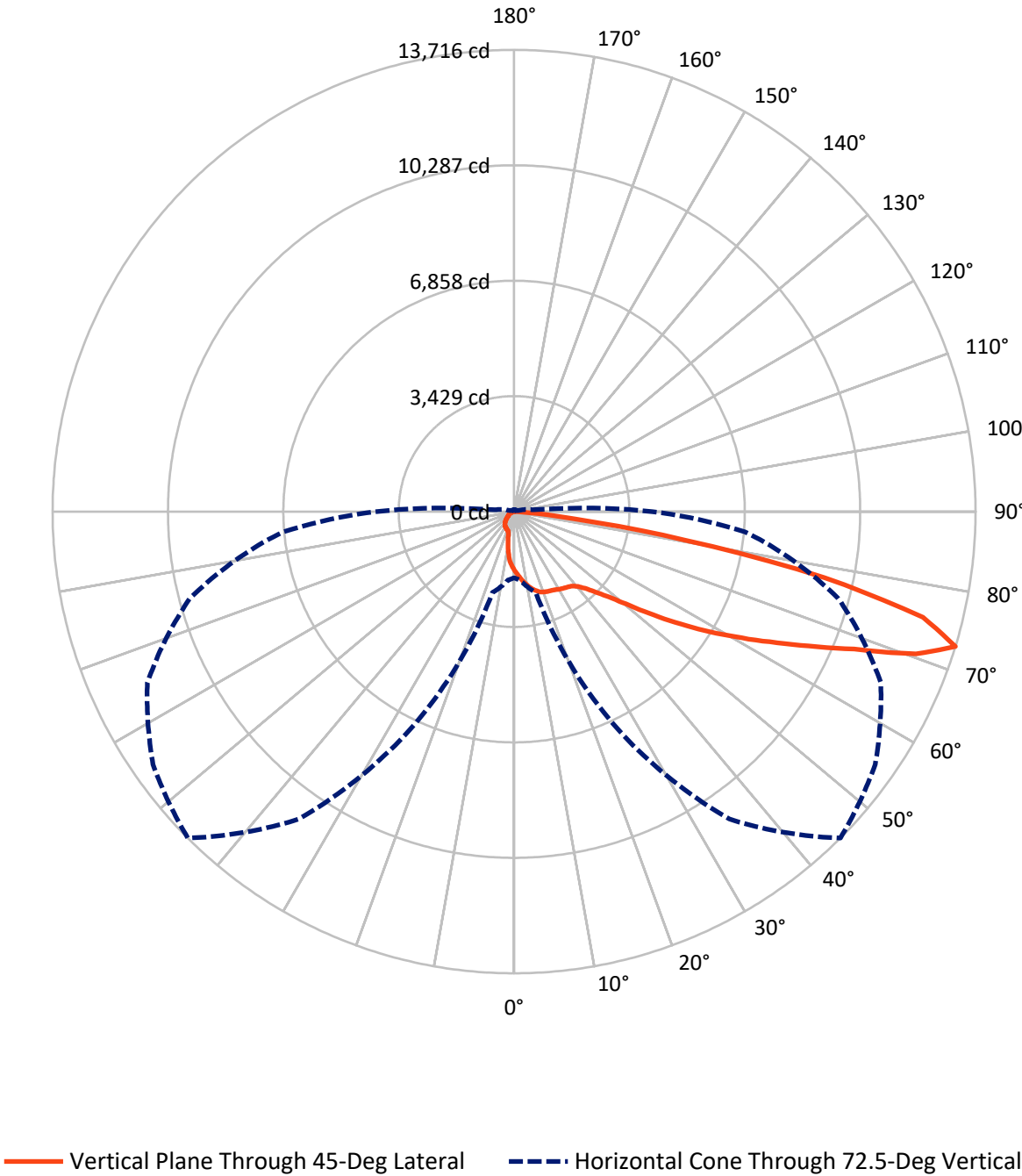


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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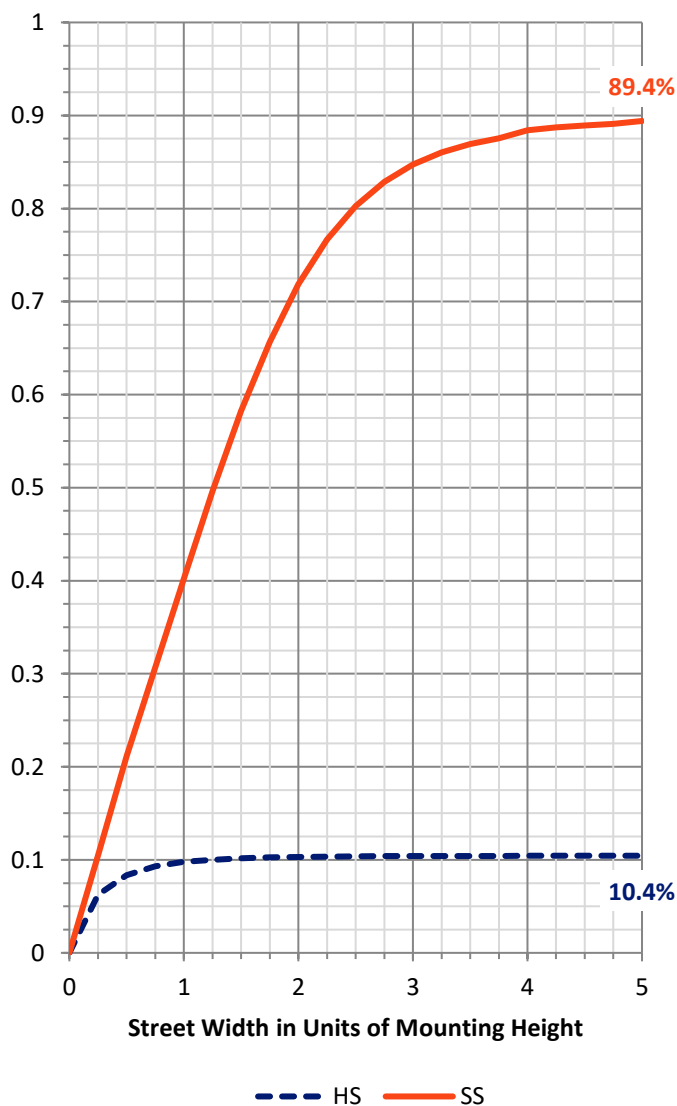
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.9	0.0	1674.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14265.9	0.0	14265.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	15940.8	0.0	15940.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.5	1.0
10°-20°	480.9	3.0
20°-30°	789.7	5.0
30°-40°	1120.0	7.0
40°-50°	1851.2	11.6
50°-60°	3325.4	20.9
60°-70°	4617.5	29.0
70°-80°	3349.4	21.0
80°-90°	242.1	1.5
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°	15940.8	100.0
0°-180°	15940.8	100.0

Coefficient of Utilization



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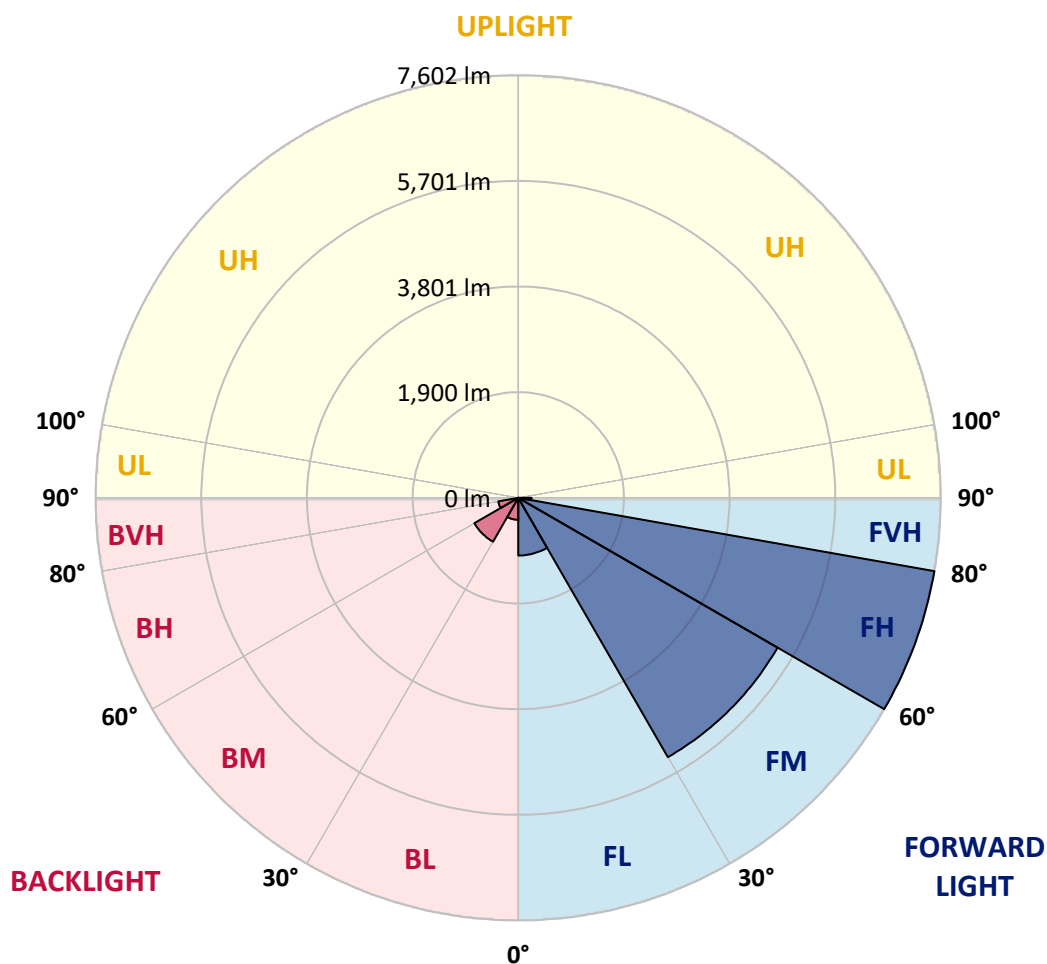
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1038.4	6.5			
FM	(30°-60°)	5385.6	33.8			
FH	(60°-80°)	7601.7	47.7			G4/12000
FVH	(80°-90°)	240.1	1.5			G3/500
BL	(0°-30°)	396.7	2.5	B1/500		
BM	(30°-60°)	910.9	5.7	B1/1000		
BH	(60°-80°)	365.2	2.3	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4
2.5°	1907.4	1910.6	1908.4	1895.4	1873.7	1861.7	1855.1	1833.4	1819.3	1794.3	1768.1
5°	2082.6	2095.6	2088.0	2061.9	2020.6	1991.2	1982.5	1937.9	1897.6	1850.8	1796.4
7.5°	2268.6	2275.2	2261.0	2227.3	2171.8	2121.8	2114.2	2052.0	1987.9	1916.1	1842.1
10°	2429.7	2437.2	2415.5	2366.5	2303.5	2241.5	2230.5	2162.0	2085.9	1997.7	1903.0
12.5°	2564.5	2572.2	2543.9	2485.1	2415.5	2351.4	2340.4	2268.6	2184.9	2086.9	1969.4
15°	2666.8	2681.0	2643.0	2579.8	2504.7	2440.5	2435.1	2364.4	2282.8	2173.9	2048.9
17.5°	2726.7	2740.8	2705.0	2628.8	2564.5	2510.1	2503.7	2444.9	2368.7	2264.2	2126.1
20°	2736.4	2749.6	2711.4	2645.1	2591.8	2548.3	2545.0	2502.5	2447.1	2346.9	2209.9
22.5°	2707.1	2723.4	2688.6	2635.3	2598.3	2575.4	2571.1	2547.1	2515.7	2430.8	2288.2
25°	2676.7	2689.7	2663.6	2616.8	2597.2	2595.0	2598.3	2594.0	2587.4	2515.7	2379.6
27.5°	2674.4	2688.6	2659.3	2614.7	2603.7	2626.6	2629.8	2650.5	2656.0	2592.8	2467.7
30°	2693.0	2702.7	2674.4	2627.7	2622.3	2674.4	2675.6	2712.6	2721.3	2658.1	2554.8
32.5°	2733.3	2744.1	2715.8	2647.3	2639.7	2712.6	2715.8	2764.7	2778.9	2727.8	2646.1
35°	2827.9	2841.0	2808.3	2701.7	2674.4	2748.4	2758.3	2815.9	2844.2	2801.7	2740.8
37.5°	3064.0	3025.9	2981.3	2811.6	2753.9	2805.0	2821.3	2888.9	2938.9	2889.9	2854.0
40°	3650.4	3530.8	3391.5	2998.7	2893.2	2925.9	2938.9	3006.3	3074.9	3027.0	3009.6
42.5°	4530.7	4389.3	4165.1	3429.5	3103.2	3119.5	3129.3	3188.1	3284.9	3246.8	3251.1
45°	5315.2	5264.1	5035.6	4165.1	3496.0	3415.4	3427.4	3457.8	3600.4	3586.3	3614.6
47.5°	5918.0	5888.6	5712.3	5009.5	4159.7	3777.7	3811.5	3825.6	4031.3	4081.3	4157.5
50°	6381.5	6370.7	6212.8	5760.2	5026.9	4312.0	4324.0	4293.5	4601.4	4725.5	4870.2
52.5°	6818.9	6855.9	6739.5	6457.7	5952.8	5011.6	5009.5	4865.9	5281.5	5468.6	5715.6
55°	7213.8	7227.0	7239.0	7169.3	6884.2	5808.1	5787.5	5552.4	6070.4	6264.0	6531.7
57.5°	7584.9	7590.3	7697.0	7839.5	7853.7	6663.3	6625.3	6343.4	6932.1	7070.2	7234.6
60°	7834.1	7859.1	8084.4	8480.4	8653.4	7545.7	7525.0	7237.8	7809.1	7873.2	7842.8
62.5°	7475.0	7627.3	8195.3	8980.9	9408.5	8523.9	8514.2	8244.3	8731.8	8679.5	8418.4
65°	6050.8	6308.6	7307.4	9319.3	10149.4	9616.3	9630.5	9343.3	9679.5	9509.7	8886.2
67.5°	4232.5	4504.6	5686.3	9346.5	10977.5	10899.1	10980.8	10530.3	10685.9	10305.0	8997.2
70°	2926.9	3067.3	3836.6	8761.1	11622.8	12666.2	12664.0	11988.3	11686.9	10667.4	8431.4
72.5°	1968.3	2041.2	2491.7	6950.5	11148.3	13716.1	13653.1	13102.5	12024.3	9976.5	6888.5
75°	830.1	883.6	1153.3	3906.2	8819.9	12548.7	12377.9	11579.2	10683.8	7855.8	4297.8
77.5°	263.3	286.2	454.8	1398.2	4858.2	9432.5	9251.9	7231.3	7160.5	3941.0	1571.1
80°	125.2	145.8	255.7	561.4	1911.7	5130.2	5105.2	3280.5	3080.3	1064.2	315.5
82.5°	54.4	64.2	141.4	300.3	855.3	1830.1	1867.1	1116.3	923.7	403.6	96.9
85°	17.4	22.9	65.3	138.2	361.2	454.8	449.4	265.5	372.1	219.8	33.7
87.5°	0.0	0.0	21.7	31.6	37.0	26.1	29.4	22.9	103.3	60.9	12.0
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°	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4	1746.4
2.5°	1755.0	1737.7	1707.1	1678.8	1653.8	1628.8	1613.6	1591.8	1589.7	1589.7	1595.1
5°	1767.0	1738.7	1684.3	1626.7	1560.3	1497.2	1434.1	1373.2	1353.5	1339.4	1345.9
7.5°	1801.8	1757.3	1671.3	1561.4	1435.2	1296.9	1200.2	1095.7	1055.4	1033.7	1036.9
10°	1851.9	1791.0	1660.4	1467.8	1263.2	1075.0	936.8	823.7	780.1	761.7	761.7
12.5°	1907.4	1832.3	1640.8	1351.4	1075.0	849.8	714.8	662.7	656.1	656.1	656.1
15°	1973.7	1882.3	1607.1	1214.3	878.1	672.4	624.5	626.7	633.2	637.7	637.7
17.5°	2042.3	1935.7	1553.8	1060.9	704.0	605.0	606.1	609.4	614.8	619.1	619.1
20°	2116.3	1989.0	1483.1	897.7	603.8	585.4	588.7	591.9	596.2	598.4	599.5
22.5°	2195.8	2039.0	1399.2	737.7	570.1	569.1	570.1	573.4	578.8	578.8	581.1
25°	2280.6	2094.5	1303.5	621.3	552.8	552.8	554.9	557.1	561.4	561.4	562.5
27.5°	2367.6	2145.6	1202.3	560.4	537.5	536.4	536.4	539.7	541.8	542.9	544.1
30°	2463.4	2205.5	1101.2	547.2	525.5	520.1	516.8	519.0	521.2	522.2	524.5
32.5°	2561.3	2263.2	1010.9	552.8	513.5	503.8	492.9	490.7	490.7	495.1	498.4
35°	2670.1	2326.2	941.2	571.2	507.1	479.8	462.4	452.6	453.8	460.2	463.5
37.5°	2800.7	2402.5	890.0	587.5	502.7	452.6	424.4	412.4	404.8	412.4	410.2
40°	2971.5	2514.5	853.0	600.6	497.2	421.1	383.0	363.5	349.3	353.6	351.5
42.5°	3222.9	2690.8	838.9	601.7	485.2	384.1	340.6	314.5	293.8	294.9	290.5
45°	3575.4	2969.3	911.8	587.5	459.2	343.8	295.9	261.2	248.0	244.8	240.5
47.5°	4058.5	3375.2	1080.5	558.2	421.1	304.6	252.5	223.0	213.3	207.9	204.6
50°	4705.9	3896.3	1267.6	525.5	383.0	267.6	216.5	198.0	191.5	186.0	185.0
52.5°	5456.7	4425.1	1421.1	492.9	344.9	235.0	193.7	182.8	177.3	173.0	171.9
55°	6145.4	4789.7	1412.3	458.1	307.9	208.9	177.3	170.9	164.3	159.9	157.7
57.5°	6574.1	4840.8	1164.2	420.0	265.5	188.2	162.2	157.7	150.2	144.7	143.6
60°	6771.0	4549.3	816.0	369.9	223.0	168.6	145.8	143.6	133.9	126.2	124.0
62.5°	6806.9	4007.3	544.1	307.9	186.0	150.2	129.5	126.2	113.2	100.1	93.6
65°	6661.2	3232.6	376.5	240.5	158.9	130.6	111.0	104.4	90.3	77.3	72.9
67.5°	6199.8	2269.8	262.2	173.0	134.9	103.3	88.1	86.0	75.0	64.2	60.9
70°	5354.4	1293.8	175.2	129.5	106.6	70.7	69.6	71.9	60.9	52.3	47.9
72.5°	4105.3	591.9	108.9	94.7	72.9	47.9	55.5	56.6	46.7	39.2	34.8
75°	2416.6	253.5	68.6	60.9	37.0	31.6	40.3	41.3	31.6	25.0	21.7
77.5°	822.6	95.7	43.6	35.9	18.4	17.4	26.1	26.1	17.4	9.8	7.6
80°	187.2	35.9	21.7	14.1	8.7	7.6	8.7	7.6	4.3	1.1	0.0
82.5°	53.3	14.1	8.7	5.4	3.3	3.3	1.1	0.0	0.0	0.0	0.0
85°	15.3	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	1.1	0.0	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)