

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: P960431

Luminaire Tested: **NAV-SB1C-760-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-760-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8262.5 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

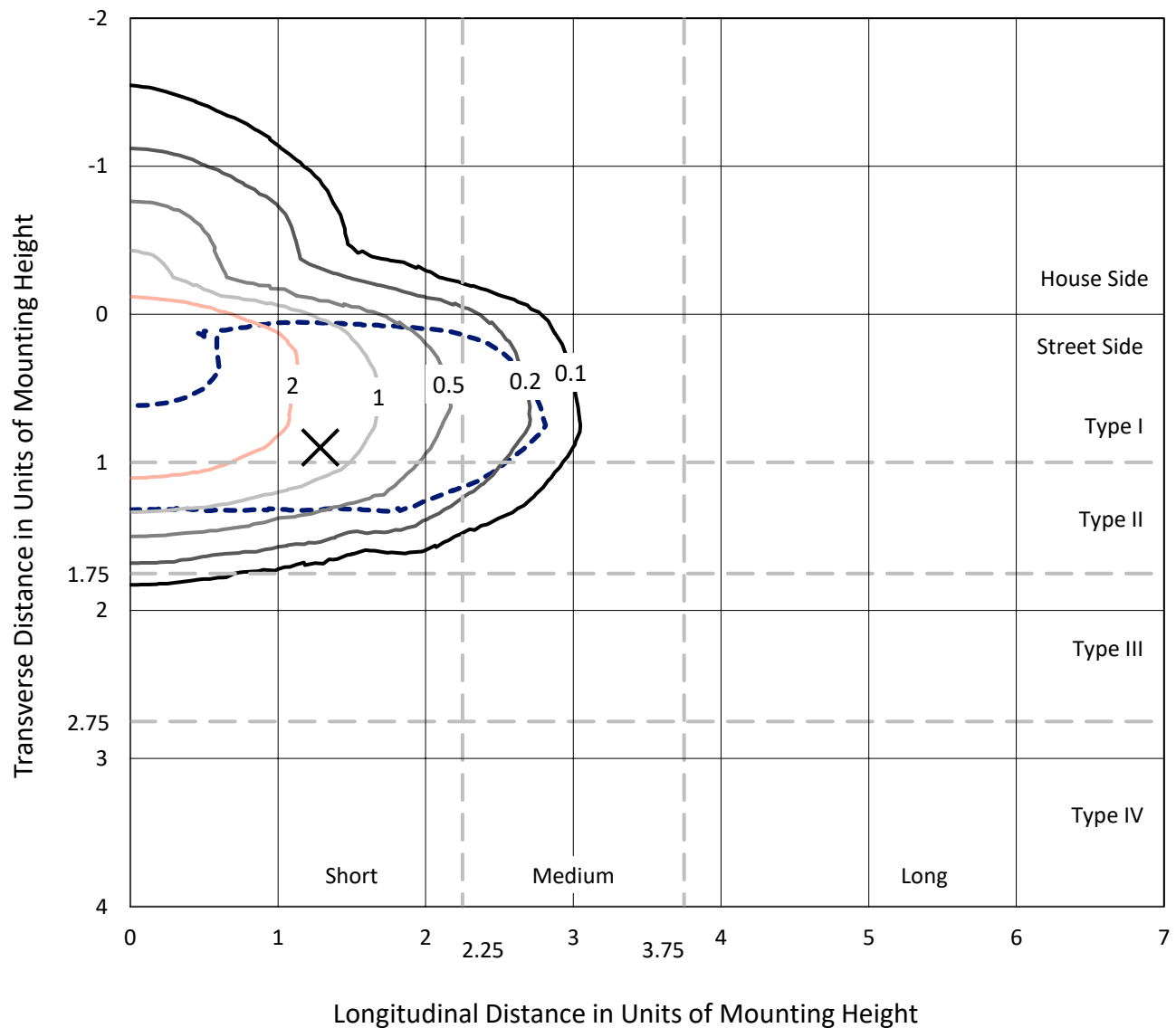


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Iso-Footcandle Lines of Horizontal Illumination

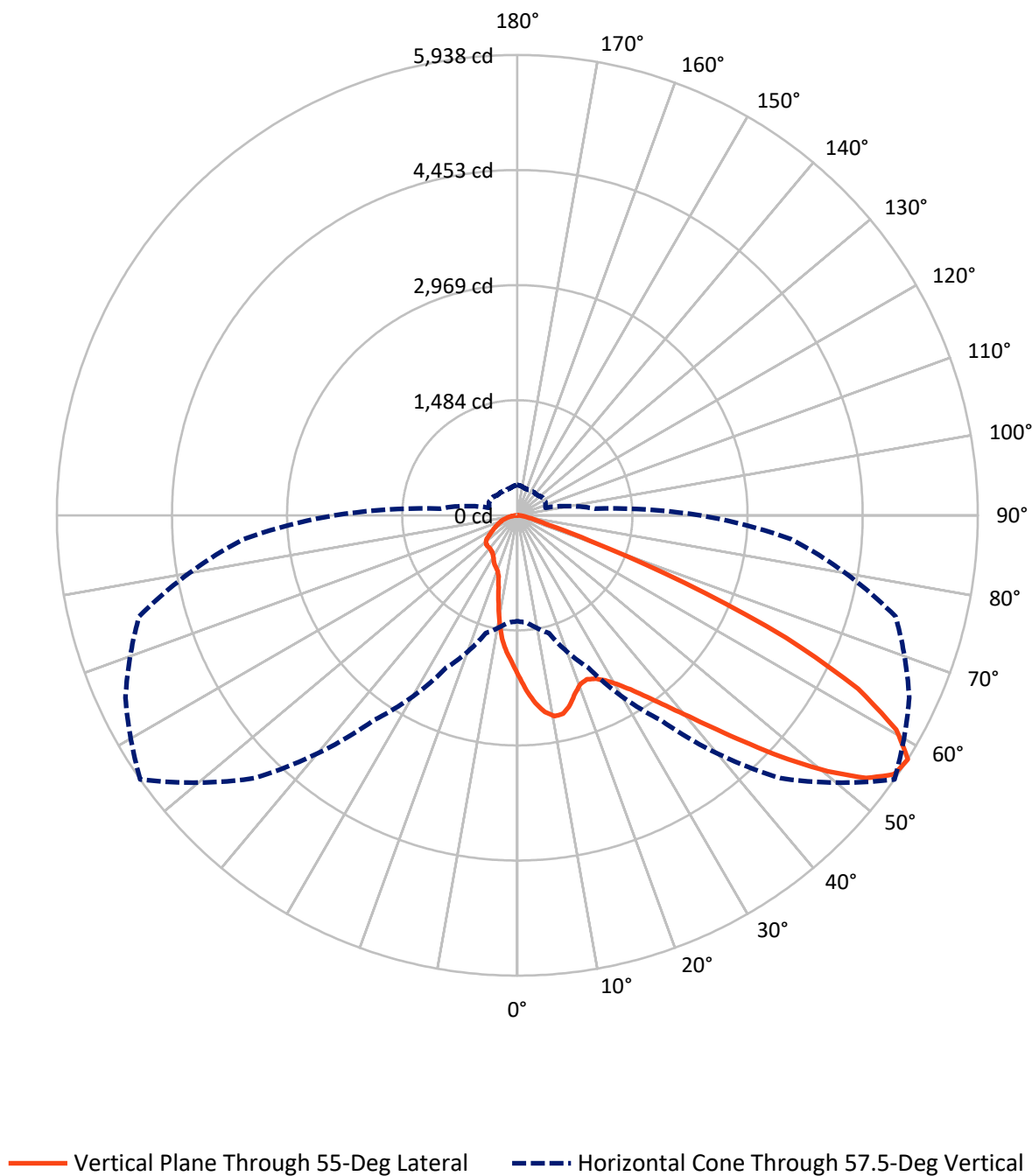
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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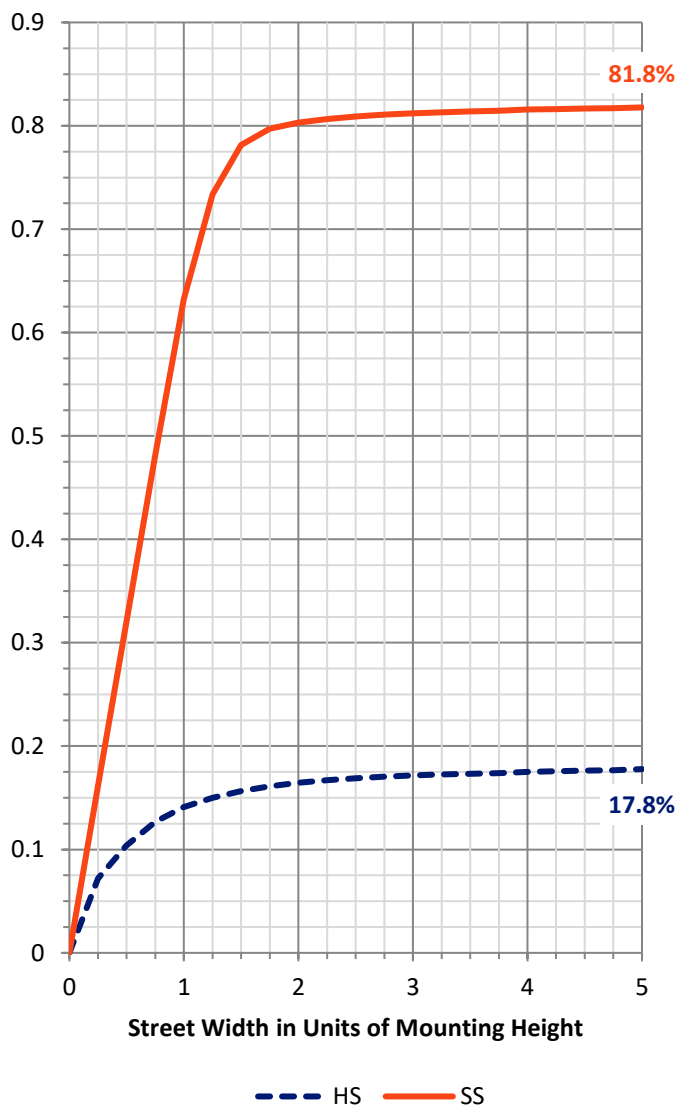
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.1	0.0	1495.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6767.5	0.0	6767.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	8262.5	0.0	8262.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	2.3
10°-20°	484.9	5.9
20°-30°	773.8	9.4
30°-40°	1225.1	14.8
40°-50°	1875.1	22.7
50°-60°	2008.4	24.3
60°-70°	1263.5	15.3
70°-80°	373.6	4.5
80°-90°	66.1	0.8
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°	8262.5	100.0
0°-180°	8262.5	100.0

Coefficient of Utilization



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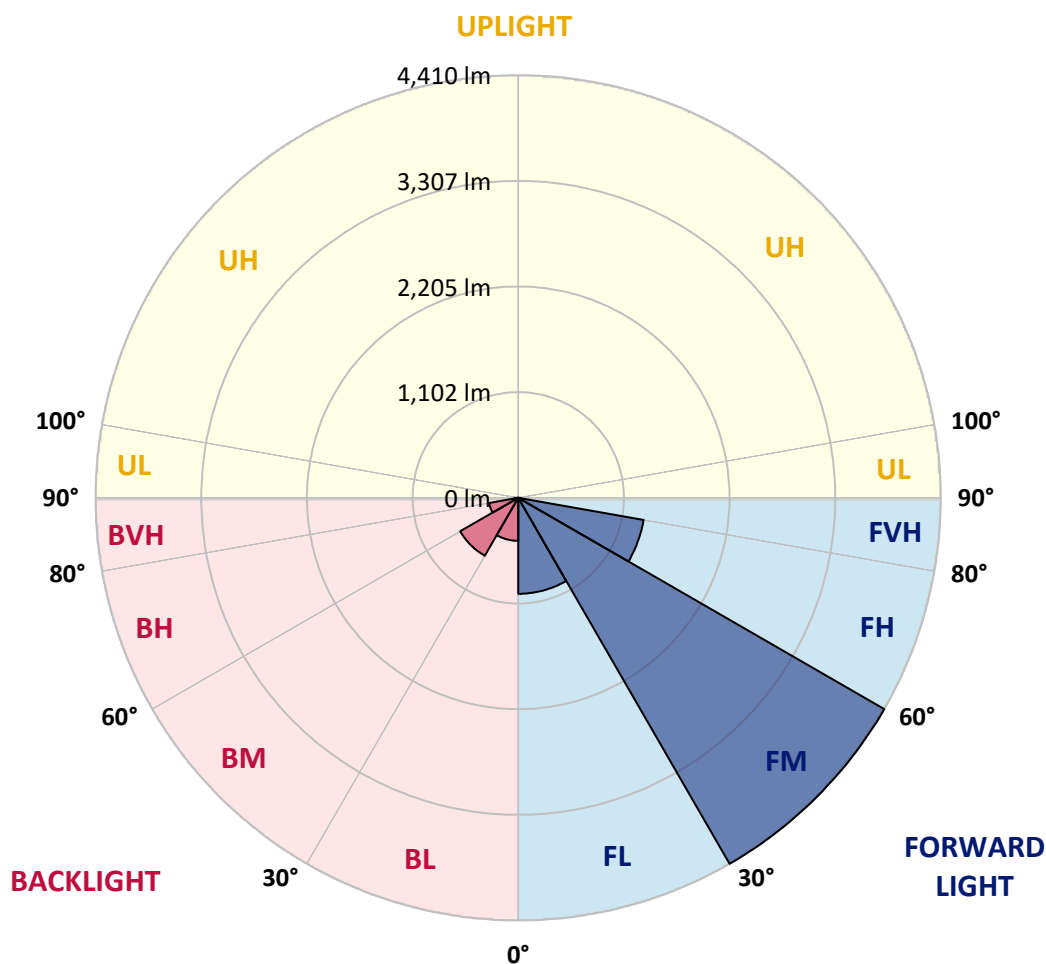
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1001.4	12.1			
FM	(30°-60°)	4409.8	53.4			
FH	(60°-80°)	1328.4	16.1			G1/1800
FVH	(80°-90°)	27.9	0.3			G1/100
BL	(0°-30°)	449.4	5.4	B1/500		
BM	(30°-60°)	698.8	8.5	B1/1000		
BH	(60°-80°)	308.8	3.7	B1/500		G1/500
BVH	(80°-90°)	38.2	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3
2.5°	2375.3	2373.6	2383.0	2350.9	2329.2	2299.7	2260.8	2211.2	2157.9	2101.5	2077.2
5°	2589.3	2574.4	2584.1	2560.2	2536.4	2491.9	2434.3	2353.5	2254.8	2142.6	2082.7
7.5°	2555.5	2545.3	2570.5	2591.8	2609.8	2604.2	2562.0	2477.4	2350.1	2186.9	2100.2
10°	2283.5	2271.9	2307.4	2381.3	2489.7	2584.1	2635.4	2582.9	2447.5	2235.6	2117.3
12.5°	2043.4	2037.9	2061.4	2121.1	2241.6	2422.7	2626.0	2675.1	2548.7	2293.3	2140.4
15°	1940.9	1934.1	1949.0	1979.4	2056.3	2225.0	2540.6	2738.4	2648.2	2360.0	2177.1
17.5°	1918.3	1910.6	1917.0	1932.7	1982.4	2110.9	2411.6	2769.5	2752.0	2434.3	2207.8
20°	1960.1	1953.8	1954.6	1953.8	1988.3	2090.4	2321.9	2757.6	2842.5	2502.5	2237.8
22.5°	2061.4	2050.7	2051.1	2028.5	2047.2	2126.3	2298.5	2725.6	2923.3	2562.4	2260.4
25°	2226.2	2207.0	2210.8	2153.2	2148.1	2206.6	2335.2	2700.8	3003.7	2610.3	2264.6
27.5°	2451.8	2430.0	2418.4	2332.6	2291.6	2320.6	2409.9	2709.3	3079.6	2651.7	2254.0
30°	2733.7	2707.1	2683.7	2562.0	2487.7	2476.9	2526.1	2765.7	3169.3	2695.2	2235.6
32.5°	3079.2	3048.5	3005.7	2844.3	2739.6	2683.7	2676.4	2866.1	3274.4	2750.8	2226.2
35°	3490.5	3450.4	3389.8	3180.9	3048.5	2934.0	2874.6	3010.8	3418.4	2834.4	2236.9
37.5°	3914.3	3869.0	3813.4	3564.8	3402.1	3233.4	3116.4	3207.3	3610.2	2948.1	2265.0
40°	4305.1	4254.3	4202.6	3981.3	3806.6	3603.3	3412.3	3456.0	3844.7	3083.9	2312.9
42.5°	4535.7	4498.1	4478.5	4358.9	4223.9	4017.6	3780.6	3750.7	4108.2	3240.2	2367.6
45°	4525.5	4510.1	4570.8	4620.3	4588.3	4473.8	4211.9	4076.5	4372.5	3375.6	2418.0
47.5°	4283.7	4294.0	4429.4	4707.8	4830.4	4890.3	4703.2	4396.5	4602.4	3476.9	2440.6
50°	3625.9	3634.4	3948.0	4548.5	4892.8	5229.9	5190.5	4708.7	4780.5	3538.8	2435.5
52.5°	3105.2	3110.8	3245.4	4076.1	4686.9	5400.7	5629.6	5003.0	4910.8	3555.9	2406.9
55°	2338.9	2358.2	2509.0	3198.0	4151.4	5265.3	5897.0	5306.3	4993.2	3557.6	2377.0
57.5°	1366.4	1387.3	1573.6	2170.7	3226.6	4793.3	5937.6	5575.4	5049.2	3543.9	2359.0
60°	669.3	678.2	759.4	1140.8	1989.6	3883.9	5611.3	5705.7	5080.3	3536.7	2358.2
62.5°	451.1	449.8	453.2	562.9	980.3	2495.4	4931.3	5477.6	5063.7	3508.9	2349.7
65°	387.9	383.1	370.3	395.1	507.9	1141.3	3810.0	4796.7	4936.8	3439.3	2291.2
67.5°	335.3	335.7	336.2	328.5	362.6	526.6	2328.3	3778.5	4481.5	3109.5	2065.6
70°	277.7	281.5	283.2	283.2	295.6	345.5	993.9	2589.8	3534.9	2438.1	1663.7
72.5°	252.9	244.8	245.6	241.3	241.3	263.1	400.3	1468.1	2227.1	1371.6	1015.3
75°	206.3	211.5	212.3	209.3	199.5	200.8	237.5	615.9	952.9	569.0	501.8
77.5°	178.1	178.1	179.8	177.7	170.0	150.4	158.5	238.7	324.2	233.2	250.7
80°	143.1	142.7	150.0	154.2	142.3	111.0	101.3	132.0	143.9	102.5	130.3
82.5°	69.6	73.9	102.9	117.5	108.0	80.3	61.9	82.0	76.9	45.3	58.5
85°	40.6	38.4	46.1	65.4	61.9	44.4	29.9	42.7	40.2	23.1	23.5
87.5°	12.8	12.0	9.4	22.2	17.9	12.4	8.1	12.4	11.1	5.1	5.1
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°	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3
2.5°	2046.8	1996.4	1946.5	1900.8	1873.0	1855.0	1837.1	1817.0	1809.3	1797.8
5°	2026.3	1928.9	1842.2	1767.5	1699.6	1646.2	1592.3	1548.8	1529.1	1542.4
7.5°	2014.3	1873.4	1739.7	1602.6	1470.7	1365.1	1273.3	1208.8	1179.8	1187.1
10°	2003.7	1810.7	1606.9	1390.3	1200.7	1070.0	976.0	926.9	908.6	912.4
12.5°	1993.8	1740.1	1446.7	1161.8	960.2	873.9	847.0	847.5	850.9	853.4
15°	1992.2	1655.2	1267.7	961.9	830.4	824.8	853.8	872.2	882.0	885.0
17.5°	1989.6	1553.5	1085.4	825.6	798.8	836.3	863.3	875.2	882.9	883.3
20°	1979.4	1424.4	917.1	760.8	791.9	824.4	841.0	850.4	856.8	859.0
22.5°	1947.7	1280.9	786.0	731.6	764.5	790.6	810.3	820.9	824.8	827.4
25°	1890.9	1120.3	695.4	703.9	726.5	759.4	775.2	777.4	776.1	779.9
27.5°	1816.6	948.2	639.0	666.4	695.4	723.5	732.2	730.8	728.3	732.6
30°	1726.9	793.7	603.1	624.0	663.8	689.4	697.1	694.1	689.0	693.6
32.5°	1632.1	667.2	573.7	594.6	637.8	662.9	670.6	667.6	663.8	667.6
35°	1543.6	578.8	546.3	574.9	617.3	642.0	651.8	652.2	652.2	656.9
37.5°	1462.5	527.1	523.7	562.5	603.1	625.4	639.4	640.3	621.9	623.2
40°	1387.3	505.3	513.4	554.4	589.5	610.8	611.6	563.9	530.0	529.2
42.5°	1325.8	501.0	516.4	553.6	579.6	580.5	520.3	483.1	473.7	474.2
45°	1268.1	499.8	523.3	553.6	565.1	501.4	460.8	451.1	451.9	455.3
47.5°	1203.7	494.7	524.5	545.9	523.3	446.0	434.0	429.7	427.9	428.9
50°	1133.1	476.2	508.3	530.5	451.5	422.0	407.0	405.8	408.0	409.2
52.5°	1058.8	446.4	480.5	502.8	418.6	401.1	384.4	387.4	396.8	399.7
55°	1010.1	411.3	443.8	447.2	395.5	381.4	367.4	374.1	391.7	397.2
57.5°	997.3	374.1	401.9	398.1	366.0	364.4	355.8	361.8	384.0	392.1
60°	993.5	340.8	360.9	357.9	337.4	345.5	343.4	346.4	354.1	356.7
62.5°	963.6	314.4	324.2	319.9	311.8	326.0	331.1	324.6	330.6	333.6
65°	887.5	293.0	288.3	285.4	288.7	301.6	311.8	299.0	304.5	313.1
67.5°	762.0	263.9	251.1	254.6	265.3	272.0	285.4	270.8	275.5	290.1
70°	616.3	227.2	215.7	225.5	235.7	249.9	252.0	242.2	253.3	269.5
72.5°	436.1	190.0	181.9	202.0	205.4	223.9	219.1	214.4	229.8	235.3
75°	302.4	153.3	148.6	164.0	176.4	192.2	188.8	194.3	226.8	229.4
77.5°	191.4	119.2	116.1	126.0	143.1	160.6	166.2	229.4	387.4	402.8
80°	111.0	88.9	85.4	93.1	108.0	124.3	160.2	281.5	255.4	252.5
82.5°	61.9	61.1	56.8	58.9	72.2	89.7	226.4	198.2	161.0	166.2
85°	29.0	35.9	30.7	29.5	40.6	105.1	151.2	113.2	75.1	73.5
87.5°	7.7	6.9	6.9	7.7	17.1	90.5	60.3	48.3	28.6	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)