

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: P962650

Luminaire Tested: **NAV-SB2C-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14108.1 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 100.9
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



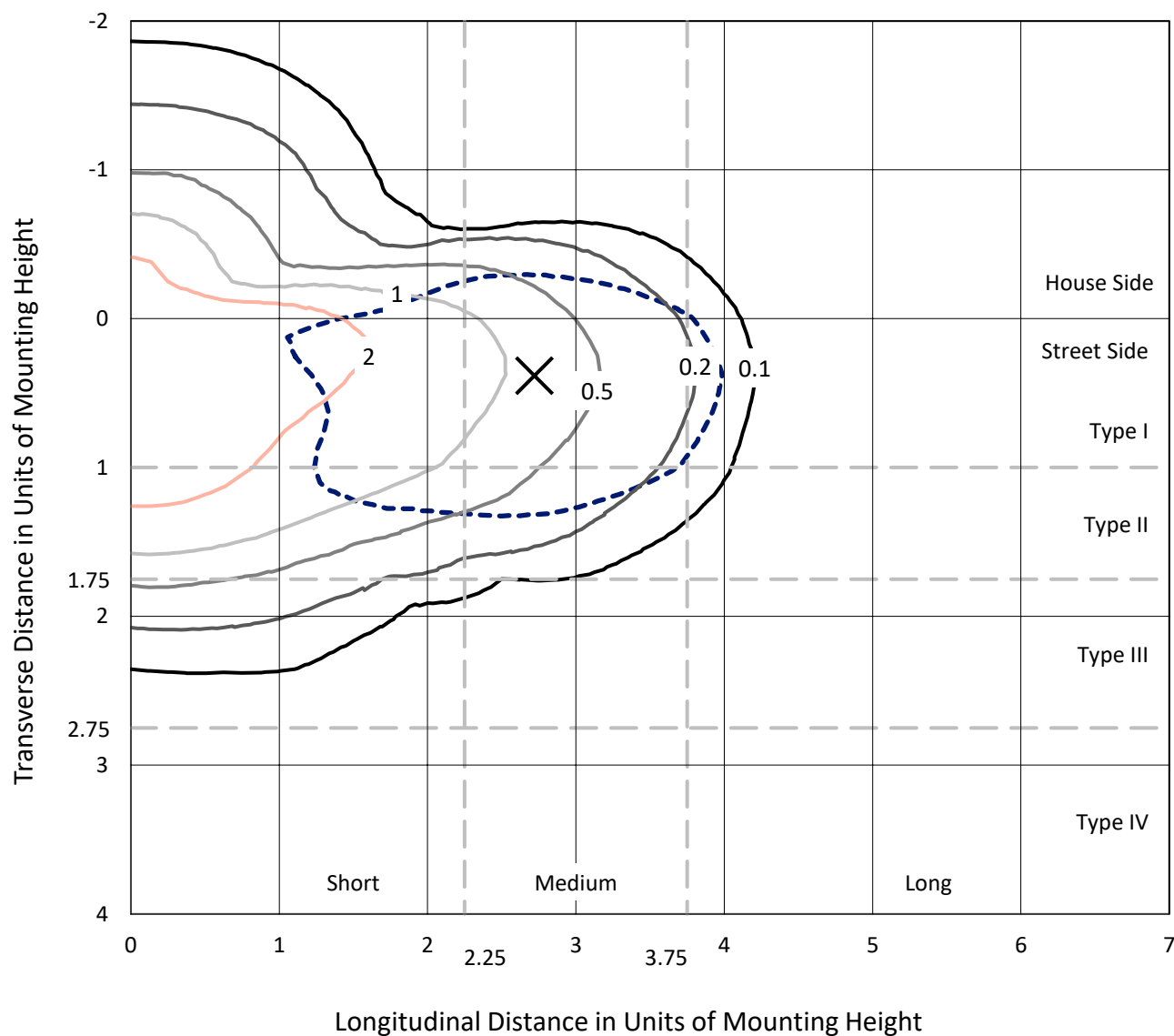
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

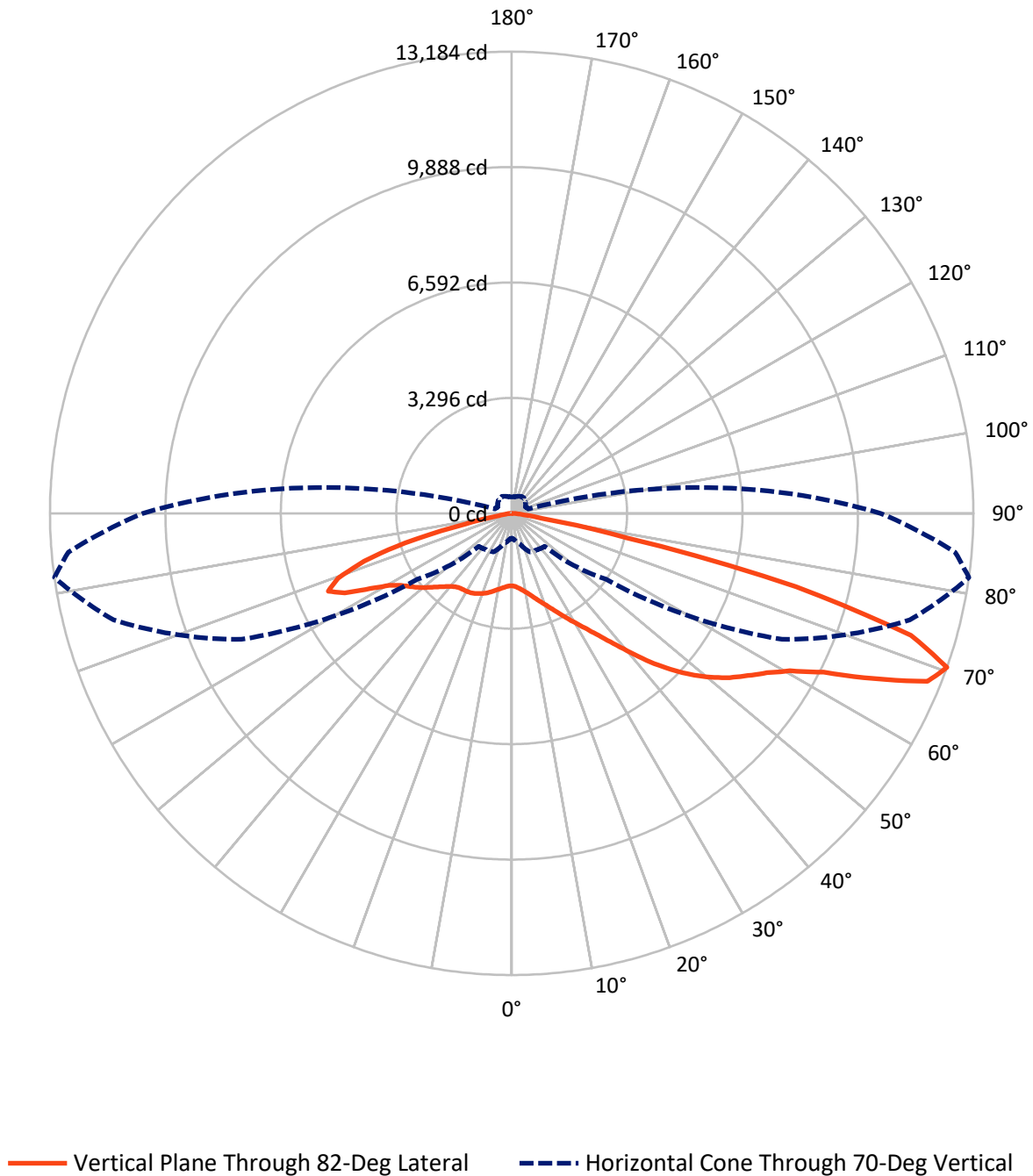
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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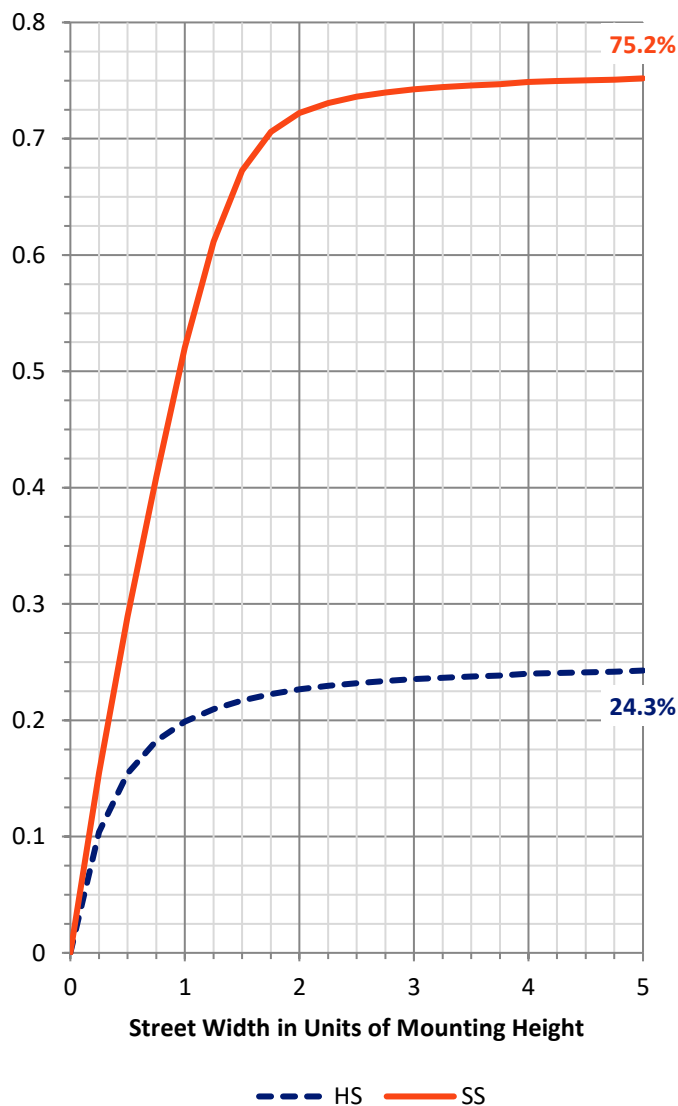
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3478.0	0.0	3478.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10630.1	0.0	10630.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	14108.1	0.0	14108.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	1.4
10°-20°	561.1	4.0
20°-30°	938.7	6.7
30°-40°	1466.4	10.4
40°-50°	2335.5	16.6
50°-60°	3250.1	23.0
60°-70°	3399.7	24.1
70°-80°	1776.9	12.6
80°-90°	184.5	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°	14108.1	100.0
0°-180°	14108.1	100.0

Coefficient of Utilization



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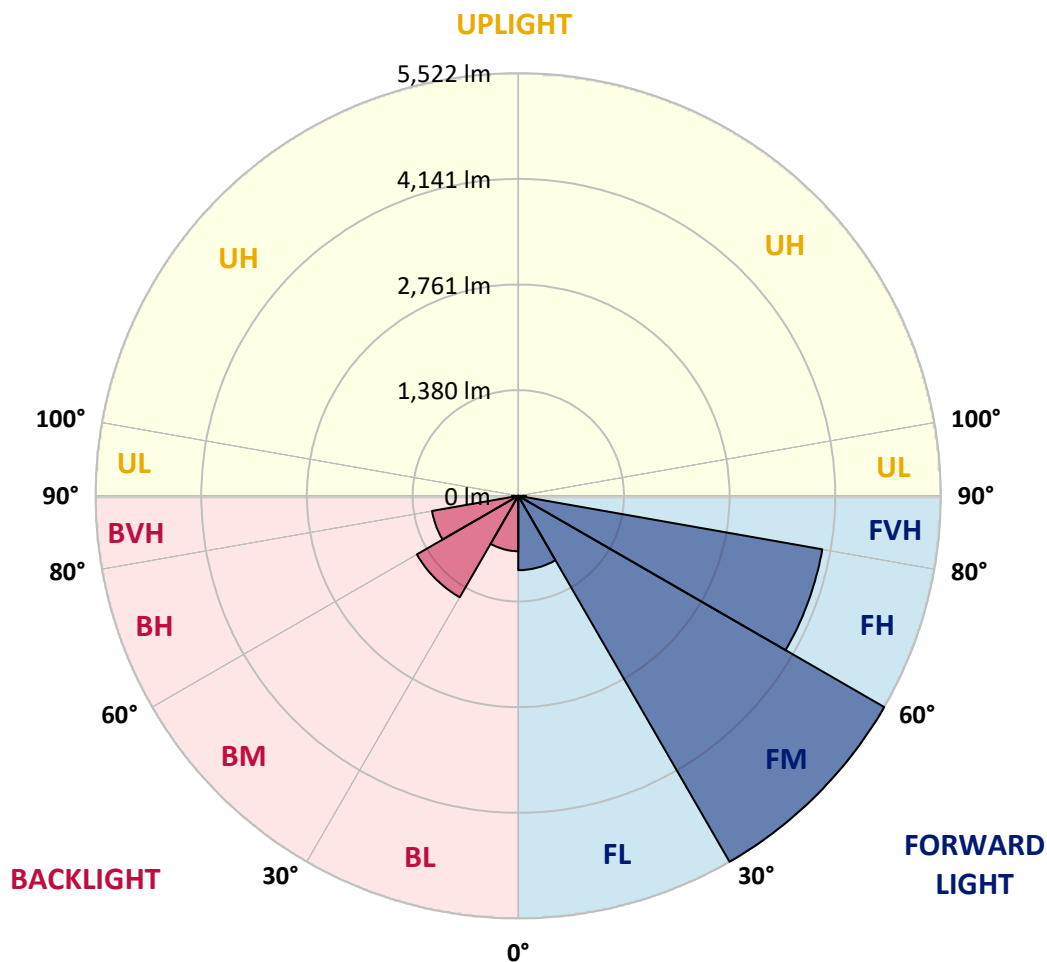
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	971.5	6.9			
FM	(30°-60°)	5521.8	39.1			
FH	(60°-80°)	4033.5	28.6			G2/5000
FVH	(80°-90°)	103.3	0.7			G2/225
BL	(0°-30°)	723.5	5.1	B2/1000		
BM	(30°-60°)	1530.2	10.8	B2/2500		
BH	(60°-80°)	1143.1	8.1	B3/2500		G3/2500
BVH	(80°-90°)	81.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4
2.5°	2117.9	2129.8	2126.1	2122.4	2122.4	2117.0	2116.3	2108.8	2102.9	2093.2	2090.9
5°	2144.8	2157.5	2156.0	2159.0	2168.7	2171.0	2173.2	2168.7	2156.8	2144.8	2139.6
7.5°	2120.8	2135.1	2139.6	2157.5	2187.5	2214.4	2234.6	2242.8	2231.6	2214.4	2206.2
10°	2040.0	2055.7	2071.4	2114.1	2167.3	2230.9	2284.7	2317.0	2314.8	2298.3	2284.0
12.5°	1876.1	1892.5	1926.2	2009.3	2106.6	2218.9	2319.2	2386.6	2409.8	2397.8	2373.1
15°	1745.1	1759.2	1784.7	1870.0	1996.6	2167.3	2332.0	2463.0	2522.1	2515.4	2485.4
17.5°	1741.3	1747.3	1763.0	1803.4	1900.8	2086.4	2318.4	2537.8	2650.9	2650.1	2612.6
20°	1807.2	1809.4	1818.4	1826.7	1882.0	2025.0	2284.0	2599.9	2795.4	2795.4	2754.9
22.5°	1898.5	1897.0	1906.0	1898.5	1925.5	2019.8	2262.3	2654.5	2956.3	2968.3	2917.4
25°	2035.4	2028.0	2025.7	2008.5	2013.8	2068.4	2286.3	2716.8	3147.2	3171.9	3108.2
27.5°	2218.1	2206.2	2197.9	2158.2	2144.8	2168.7	2359.7	2791.6	3359.7	3402.5	3321.6
30°	2456.2	2434.5	2422.5	2353.6	2305.0	2308.7	2470.5	2891.1	3582.2	3650.9	3548.4
32.5°	2781.1	2747.4	2715.2	2602.2	2513.1	2483.9	2613.4	3028.9	3823.1	3933.2	3801.4
35°	3144.9	3117.9	3083.5	2909.2	2772.1	2704.8	2806.6	3221.3	4105.4	4279.8	4108.4
37.5°	3495.2	3472.1	3488.6	3253.5	3076.8	2978.8	3059.6	3479.6	4453.5	4711.0	4493.2
40°	3857.6	3839.6	3841.9	3617.3	3411.4	3301.4	3366.5	3803.7	4852.6	5223.8	4955.9
42.5°	4251.4	4237.9	4193.0	3993.9	3762.6	3660.0	3719.8	4178.0	5280.7	5807.8	5463.4
45°	4692.3	4684.0	4642.1	4413.9	4148.8	4033.6	4114.3	4591.3	5711.2	6357.3	5973.2
47.5°	5073.3	5080.1	5074.9	4882.5	4607.7	4438.6	4535.1	5022.5	6111.7	6873.8	6462.0
50°	5256.8	5292.0	5343.6	5283.8	5113.0	4940.9	4959.6	5438.6	6493.5	7358.2	6930.6
52.5°	5161.0	5227.6	5368.3	5464.2	5530.0	5494.1	5444.0	5851.9	6852.8	7795.3	7373.8
55°	4803.9	4897.4	5131.0	5362.3	5698.5	5959.8	6025.6	6310.1	7203.2	8180.1	7793.1
57.5°	4153.3	4305.3	4514.9	4982.8	5548.7	6185.1	6703.8	6945.6	7574.4	8591.1	8231.8
60°	3037.9	3241.5	3502.0	4198.2	5024.8	6064.5	7281.0	7921.8	8102.2	9123.4	8803.0
62.5°	1944.1	2069.9	2309.4	2965.2	3915.3	5447.0	7457.7	9142.1	8996.8	9996.2	9659.4
65°	1331.1	1411.9	1631.2	1999.6	2531.0	4054.5	6984.6	10056.9	10417.7	11379.7	11123.7
67.5°	967.2	1028.6	1215.8	1538.4	1649.2	2399.3	5420.0	10015.0	11798.9	12805.0	12406.8
70°	705.2	748.7	905.8	1215.8	1268.9	1334.8	3283.4	8513.2	11768.9	13183.9	12707.0
72.5°	522.5	552.5	658.0	943.2	1027.0	901.3	1625.2	6187.3	10113.1	11924.6	11542.1
75°	378.0	400.5	478.4	721.7	821.9	686.4	810.8	3615.8	7054.2	8388.2	8455.6
77.5°	288.9	306.2	357.1	528.5	658.0	515.1	503.1	1663.5	3344.8	3361.3	3549.9
80°	232.1	243.3	271.0	372.1	504.6	385.5	327.9	671.5	1057.1	894.6	938.8
82.5°	170.7	189.4	229.1	261.3	360.8	265.8	199.9	339.2	402.0	345.8	348.8
85°	97.3	110.1	138.5	187.2	230.5	162.5	114.5	150.5	187.2	153.4	137.0
87.5°	34.4	44.9	48.7	73.4	100.3	67.3	44.2	43.5	61.4	45.7	38.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4	2068.4
2.5°	2083.4	2079.6	2064.7	2044.5	2023.6	2003.3	1996.6	1982.4	1972.6	1967.4	1973.3
5°	2125.3	2113.3	2078.2	2033.2	1986.0	1935.2	1899.2	1866.3	1842.3	1819.9	1828.9
7.5°	2185.2	2164.3	2103.6	2025.0	1941.1	1856.6	1793.6	1745.8	1713.6	1692.6	1697.1
10°	2254.8	2222.6	2129.8	2012.3	1882.7	1761.5	1687.4	1646.3	1626.0	1614.8	1617.8
12.5°	2335.0	2289.2	2156.8	1983.1	1793.6	1655.2	1604.3	1592.3	1593.1	1593.8	1595.3
15°	2433.8	2370.1	2178.4	1919.4	1677.6	1573.6	1564.6	1584.0	1604.3	1614.0	1613.2
17.5°	2545.3	2455.5	2182.2	1814.7	1563.8	1521.2	1549.6	1591.5	1622.3	1635.7	1638.7
20°	2665.1	2542.3	2155.3	1666.4	1470.3	1478.6	1529.4	1583.3	1617.0	1634.3	1638.7
22.5°	2802.0	2635.2	2090.9	1510.7	1393.9	1432.1	1492.0	1544.4	1579.6	1596.8	1601.3
25°	2958.6	2739.2	1989.8	1379.6	1328.1	1379.6	1439.6	1483.0	1511.5	1527.1	1531.7
27.5°	3132.2	2847.8	1855.0	1275.6	1270.4	1325.8	1375.2	1408.9	1423.8	1435.8	1440.3
30°	3306.6	2946.6	1691.9	1197.0	1220.3	1272.6	1307.8	1322.8	1327.3	1329.5	1334.8
32.5°	3495.2	3031.8	1520.5	1131.9	1172.3	1221.0	1242.0	1248.7	1227.7	1213.5	1218.0
35°	3723.6	3123.2	1352.8	1080.2	1125.1	1167.1	1173.8	1167.9	1143.2	1114.0	1115.4
37.5°	4005.8	3237.1	1218.7	1043.6	1081.0	1108.7	1100.4	1099.0	1101.3	1066.8	1069.0
40°	4351.7	3385.3	1120.6	1015.2	1045.1	1051.0	1027.9	1040.6	1051.9	999.4	1000.9
42.5°	4735.7	3564.1	1058.5	995.7	1015.2	1000.9	964.9	979.2	977.6	908.9	908.0
45°	5127.3	3758.8	1036.8	981.4	987.4	959.0	919.3	923.0	891.6	829.4	831.7
47.5°	5516.5	3967.7	1050.3	969.4	952.9	920.8	890.1	873.6	827.2	780.8	780.8
50°	5898.4	4187.0	1099.7	945.5	905.8	887.1	864.7	835.5	786.1	746.4	743.3
52.5°	6252.4	4407.8	1155.1	905.8	846.6	857.9	843.7	810.0	761.4	720.9	721.7
55°	6587.8	4628.7	1176.8	851.2	791.3	832.5	824.2	762.1	703.7	670.8	667.8
57.5°	6953.1	4894.5	1152.8	781.6	746.4	803.3	771.8	702.9	669.2	644.5	642.3
60°	7459.2	5311.4	1101.3	695.5	703.7	759.8	705.9	677.5	640.8	613.2	611.6
62.5°	8299.9	6089.2	1018.1	610.1	653.5	695.5	674.6	646.1	608.6	581.7	581.7
65°	9542.6	7170.3	861.6	543.5	597.4	632.6	640.8	612.3	573.5	545.0	546.5
67.5°	10590.7	7848.5	652.0	488.1	539.8	581.7	604.9	577.2	536.0	508.3	509.0
70°	10533.0	7355.9	497.8	433.5	488.8	531.6	561.5	539.8	495.6	469.3	471.6
72.5°	9355.5	6153.6	402.7	378.0	437.2	479.1	515.1	498.6	453.7	428.2	428.2
75°	6873.0	4368.1	322.0	322.0	372.8	424.5	464.1	453.7	412.5	394.5	389.3
77.5°	2897.2	1832.6	252.3	267.2	310.0	364.6	414.0	417.7	381.8	404.3	366.8
80°	770.3	505.3	192.4	210.3	243.3	300.9	360.1	358.5	319.7	298.7	277.8
82.5°	293.5	199.2	137.0	148.2	175.9	230.5	285.3	294.2	255.3	220.9	220.9
85°	113.1	85.4	84.6	89.1	102.6	152.7	215.6	223.0	192.4	163.2	168.4
87.5°	29.2	25.4	31.5	29.9	47.2	81.6	123.5	128.0	117.6	68.2	97.3
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)