

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: P960477

Luminaire Tested: **NAV-SB1C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960477
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-SB1C-827-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

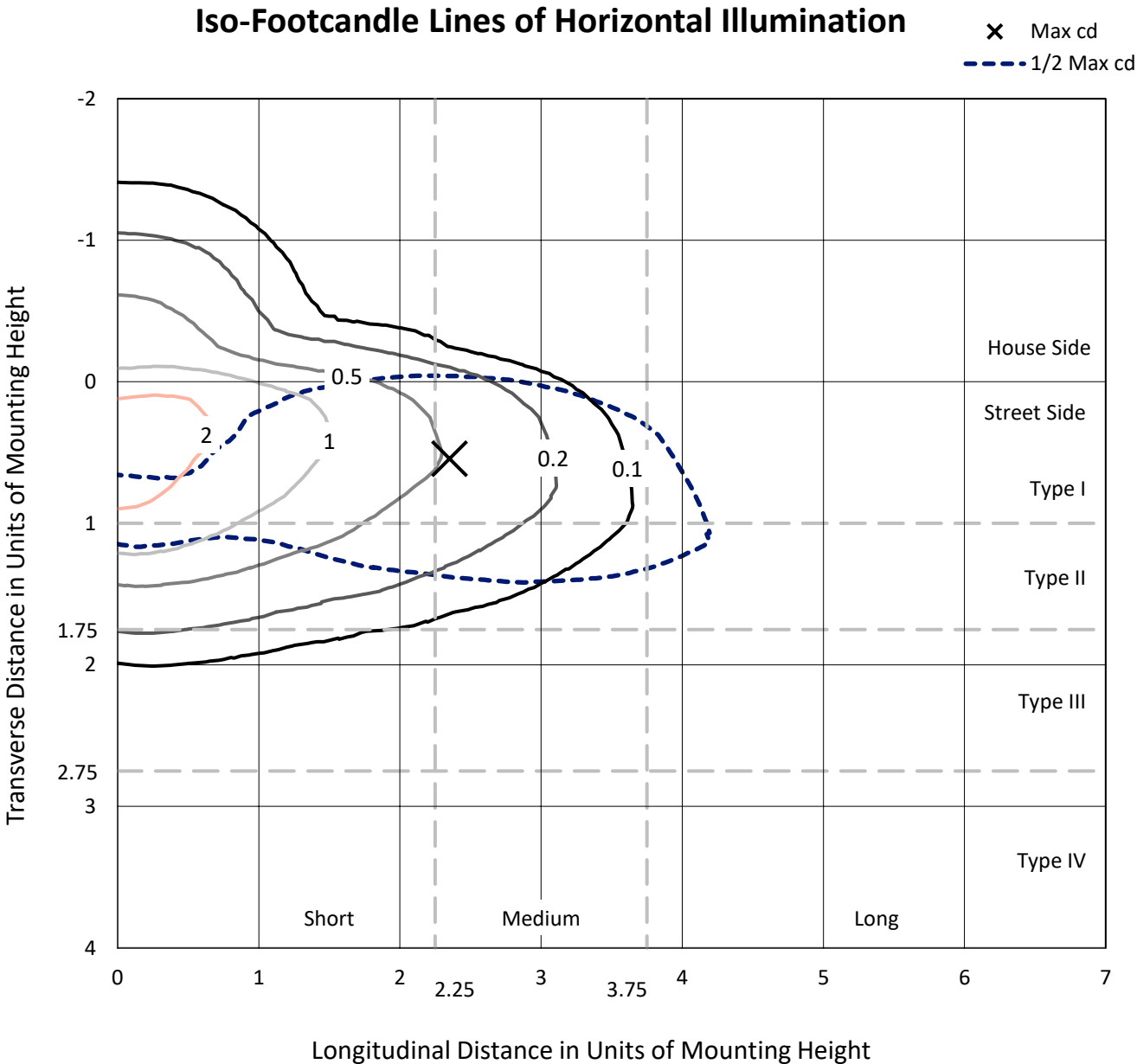
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6800.9 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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



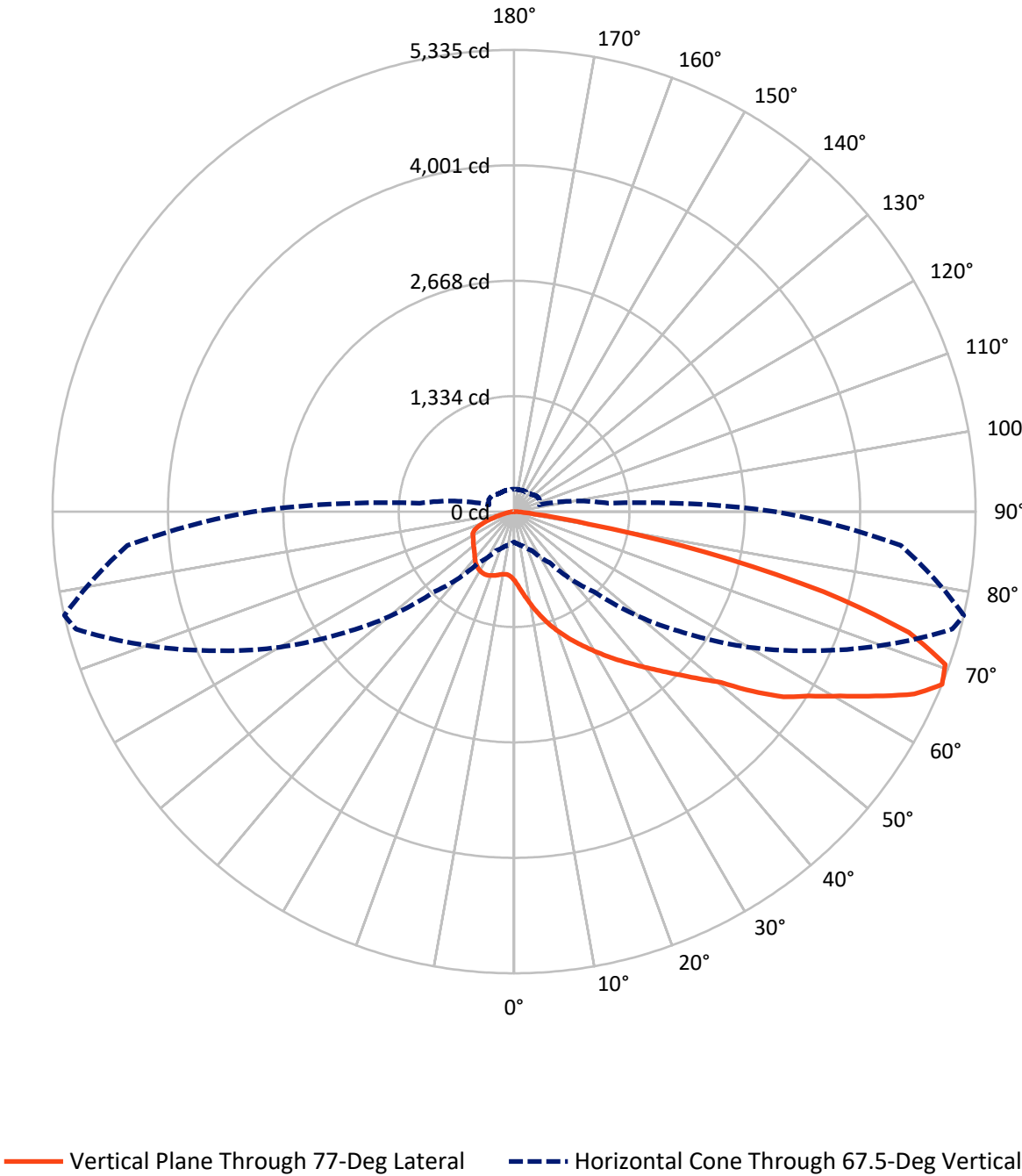
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Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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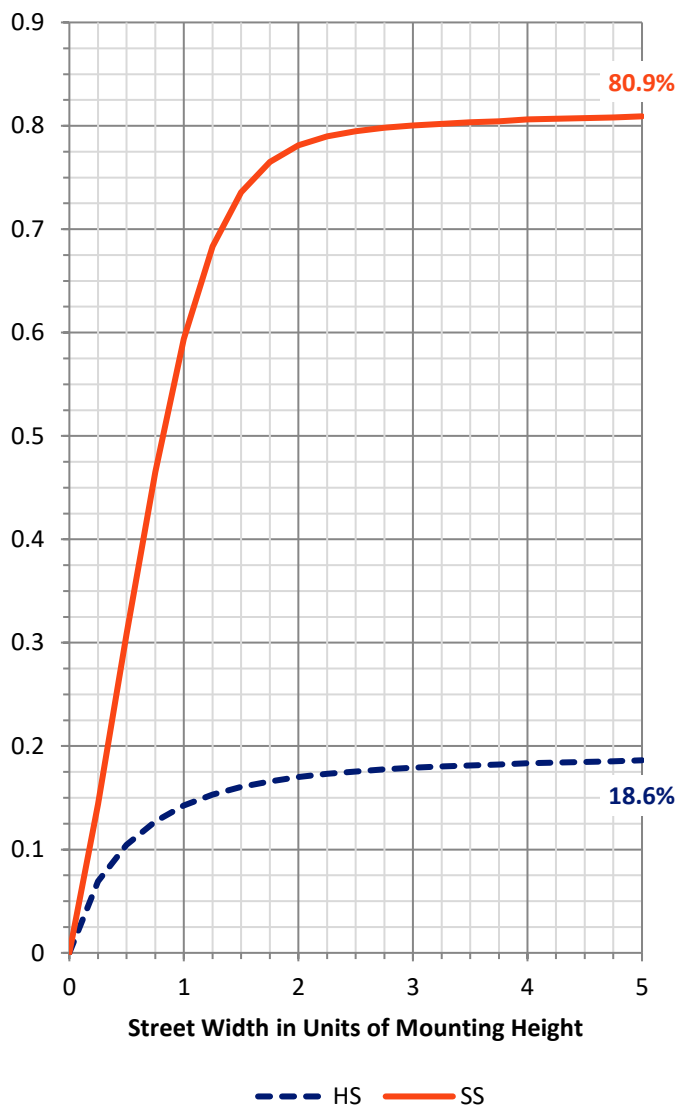
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1286.5	0.0	1286.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	5514.4	0.0	5514.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	6800.9	0.0	6800.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.3
10°-20°	307.3	4.5
20°-30°	580.2	8.5
30°-40°	934.6	13.7
40°-50°	1278.4	18.8
50°-60°	1442.1	21.2
60°-70°	1346.0	19.8
70°-80°	737.8	10.8
80°-90°	89.0	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°	6800.9	100.0
0°-180°	6800.9	100.0

Coefficient of Utilization



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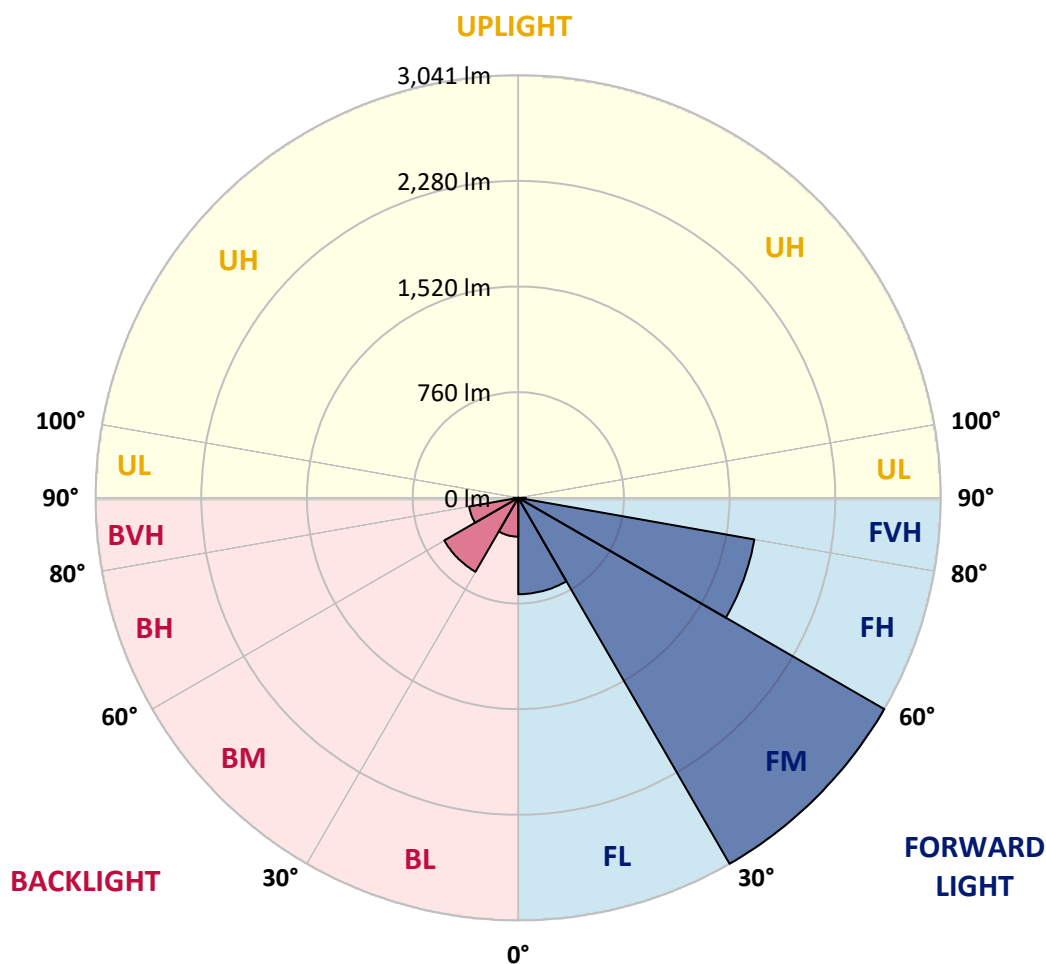
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.3	10.2			
FM	(30°-60°)	3040.6	44.7			
FH	(60°-80°)	1724.9	25.4			G1/1800
FVH	(80°-90°)	55.7	0.8			G1/100
BL	(0°-30°)	279.7	4.1	B1/500		
BM	(30°-60°)	614.5	9.0	B1/1000		
BH	(60°-80°)	358.9	5.3	B1/500		G1/500
BVH	(80°-90°)	33.3	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0
2.5°	999.1	1006.1	997.3	997.3	967.9	952.4	922.9	900.5	860.1	853.1	826.4
5°	1181.0	1189.7	1177.4	1172.2	1137.4	1105.5	1056.0	1007.2	935.2	927.8	865.0
7.5°	1321.7	1333.0	1322.0	1316.5	1285.6	1249.8	1191.9	1123.7	1022.2	1007.9	917.0
10°	1436.5	1438.3	1434.8	1436.8	1412.7	1383.1	1323.8	1244.5	1117.8	1098.1	979.8
12.5°	1501.5	1509.5	1516.6	1529.2	1525.0	1506.7	1453.3	1358.6	1218.8	1193.6	1048.3
15°	1532.0	1546.0	1561.9	1591.0	1614.5	1619.1	1578.4	1481.1	1321.7	1291.2	1117.5
17.5°	1542.9	1556.3	1581.2	1623.3	1673.8	1707.9	1689.6	1600.1	1423.5	1388.5	1190.1
20°	1598.0	1601.9	1616.9	1657.0	1711.7	1768.2	1782.0	1714.5	1524.3	1484.6	1265.3
22.5°	1716.0	1708.3	1712.5	1730.7	1770.1	1824.8	1856.1	1815.7	1627.9	1582.2	1341.0
25°	1910.8	1888.4	1865.9	1844.8	1864.8	1895.7	1931.2	1916.7	1736.4	1678.4	1417.6
27.5°	2156.9	2129.5	2080.0	2010.8	1986.7	1997.5	2013.3	2010.5	1836.7	1778.1	1496.6
30°	2399.1	2367.1	2308.2	2208.2	2144.3	2115.5	2103.5	2095.5	1946.0	1883.4	1576.2
32.5°	2592.5	2567.3	2509.4	2397.4	2304.7	2255.5	2215.8	2187.0	2060.0	1997.5	1660.5
35°	2761.8	2738.3	2671.9	2549.7	2448.9	2396.7	2344.7	2283.3	2178.6	2115.5	1751.1
37.5°	2916.2	2892.8	2801.8	2674.7	2573.3	2537.1	2490.8	2386.5	2297.6	2238.0	1846.9
40°	3013.8	3008.6	2923.6	2779.7	2674.3	2656.5	2641.0	2506.2	2429.7	2374.2	1952.2
42.5°	3038.7	3050.3	2983.0	2864.7	2764.2	2749.9	2786.0	2641.7	2577.8	2524.8	2071.6
45°	2978.8	3012.1	2967.9	2887.4	2828.1	2820.4	2914.5	2789.8	2741.8	2693.3	2215.5
47.5°	2826.7	2883.2	2865.0	2853.7	2845.3	2878.7	3027.5	2947.1	2927.5	2885.4	2379.8
50°	2519.9	2627.0	2659.0	2729.8	2811.3	2923.9	3130.4	3118.8	3144.4	3102.0	2579.9
52.5°	1989.4	2136.9	2322.2	2499.9	2706.6	2908.8	3243.4	3365.3	3473.3	3450.2	2898.0
55°	1642.3	1708.6	1851.2	2176.9	2503.8	2845.3	3294.4	3564.3	3799.9	3779.2	3139.2
57.5°	1375.4	1434.8	1522.5	1794.6	2196.9	2701.1	3325.9	3685.8	4023.4	4021.4	3377.2
60°	1089.4	1152.2	1242.0	1434.8	1838.4	2451.8	3318.8	3824.1	4308.9	4326.4	3667.4
62.5°	766.4	835.5	935.2	1115.0	1472.3	2128.8	3175.7	3924.1	4644.9	4692.6	4016.8
65°	503.8	549.4	624.5	779.7	1097.1	1713.5	2902.2	3937.1	5004.4	5085.0	4344.7
67.5°	353.2	370.7	414.9	499.2	723.1	1314.0	2466.6	3802.6	5244.1	5335.0	4486.8
70°	275.6	284.3	306.8	340.5	454.3	883.7	1890.1	3453.0	5192.9	5287.7	4338.4
72.5°	238.0	246.4	254.9	259.1	304.7	545.5	1280.3	2887.1	4710.2	4774.3	3772.1
75°	215.9	218.0	225.0	223.7	232.4	353.8	739.0	2103.5	3716.3	3694.2	2784.6
77.5°	181.5	184.3	195.9	194.1	206.4	241.9	383.7	1357.5	2409.3	2259.1	1549.9
80°	153.8	155.2	167.8	165.7	179.4	175.2	195.9	692.0	1021.9	865.7	446.9
82.5°	53.4	66.0	128.1	132.0	136.9	106.0	113.1	282.3	312.1	239.0	93.7
85°	25.9	27.8	65.3	92.7	92.4	53.4	55.1	100.8	98.3	77.2	31.3
87.5°	4.2	5.2	7.7	36.2	28.8	14.0	19.0	19.7	20.4	17.5	7.0
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°	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0	798.0
2.5°	806.8	789.1	752.3	718.2	691.6	665.9	651.6	639.3	632.2	630.9	630.9
5°	828.5	792.3	725.3	668.8	631.9	604.5	590.1	581.0	576.5	573.6	573.3
7.5°	859.8	806.8	711.2	647.0	608.3	588.8	581.4	579.9	579.6	579.9	581.0
10°	902.9	830.2	709.8	641.8	609.5	598.6	598.2	598.6	599.9	600.3	600.6
12.5°	949.6	854.4	715.4	646.3	622.8	616.8	615.7	615.4	616.4	617.2	617.5
15°	1000.5	886.4	725.0	656.1	637.6	631.2	630.2	628.0	627.7	627.3	627.0
17.5°	1052.8	918.0	735.4	666.7	647.0	638.3	634.4	629.5	625.6	624.5	625.6
20°	1105.9	949.3	742.8	671.9	647.7	635.4	627.7	619.3	612.6	608.7	610.2
22.5°	1162.4	982.0	747.4	670.6	641.3	624.5	610.5	600.6	590.5	583.8	584.1
25°	1217.5	1010.3	747.0	663.2	629.1	607.7	589.8	577.2	563.1	556.1	556.1
27.5°	1270.5	1036.0	738.3	650.2	611.5	587.6	566.2	551.1	537.5	530.8	530.4
30°	1325.2	1057.4	724.6	631.2	590.8	564.5	541.0	528.0	515.7	509.4	509.0
32.5°	1379.6	1077.1	705.3	607.7	566.9	541.7	518.5	506.6	499.2	499.2	499.6
35°	1437.3	1090.7	679.7	580.3	541.7	517.4	499.2	492.2	491.5	487.3	486.3
37.5°	1497.9	1099.5	648.4	552.2	516.8	493.9	488.3	479.9	472.8	463.7	462.4
40°	1561.9	1108.3	610.8	523.1	490.5	477.8	475.3	464.1	444.1	421.6	418.5
42.5°	1639.5	1114.3	571.8	493.9	462.7	458.5	462.0	442.7	410.7	393.9	394.2
45°	1729.3	1124.1	536.1	465.1	434.3	434.3	449.1	423.7	397.4	386.8	388.6
47.5°	1845.8	1146.9	502.8	433.6	408.0	414.9	420.2	400.9	386.1	373.2	372.8
50°	2014.3	1201.7	468.3	401.6	388.0	402.0	394.6	383.3	366.1	355.6	354.5
52.5°	2223.6	1234.0	437.8	372.8	370.7	384.8	374.2	363.7	350.8	336.7	333.8
55°	2366.1	1239.9	412.2	351.8	359.2	357.7	353.8	344.4	337.3	318.8	319.1
57.5°	2525.5	1251.8	391.0	339.2	351.8	336.3	334.9	326.9	317.8	305.0	300.8
60°	2716.1	1270.5	372.8	334.3	345.4	322.3	315.3	312.1	303.0	296.6	298.4
62.5°	2923.9	1287.3	354.2	334.9	338.0	308.6	298.1	297.0	291.4	289.3	289.3
65°	3065.8	1241.4	331.1	334.3	326.5	294.6	281.2	280.8	276.2	275.6	275.2
67.5°	3016.3	1095.6	299.8	324.4	314.6	280.5	265.8	264.3	258.4	258.7	258.7
70°	2768.4	887.9	256.7	300.1	299.8	267.8	249.6	245.1	237.0	238.4	239.7
72.5°	2303.7	657.8	198.7	259.7	276.2	256.2	231.0	223.7	213.4	214.8	214.5
75°	1663.7	447.2	144.6	197.6	240.5	242.6	212.8	200.1	187.8	189.9	190.6
77.5°	851.4	253.5	106.4	136.2	188.9	220.5	196.3	179.4	176.6	196.3	193.4
80°	277.7	127.1	73.7	95.5	123.9	180.4	172.0	152.7	152.0	156.6	134.5
82.5°	82.8	53.7	47.4	62.8	68.5	138.3	148.5	115.5	99.3	104.7	108.1
85°	28.4	25.9	27.1	31.3	32.7	81.1	103.9	76.6	72.4	79.6	78.6
87.5°	6.7	9.1	7.7	7.0	7.0	19.7	40.4	32.0	44.3	29.5	28.4
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)