

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: P960546

Luminaire Tested: **NAV-SB1C-835-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-835-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

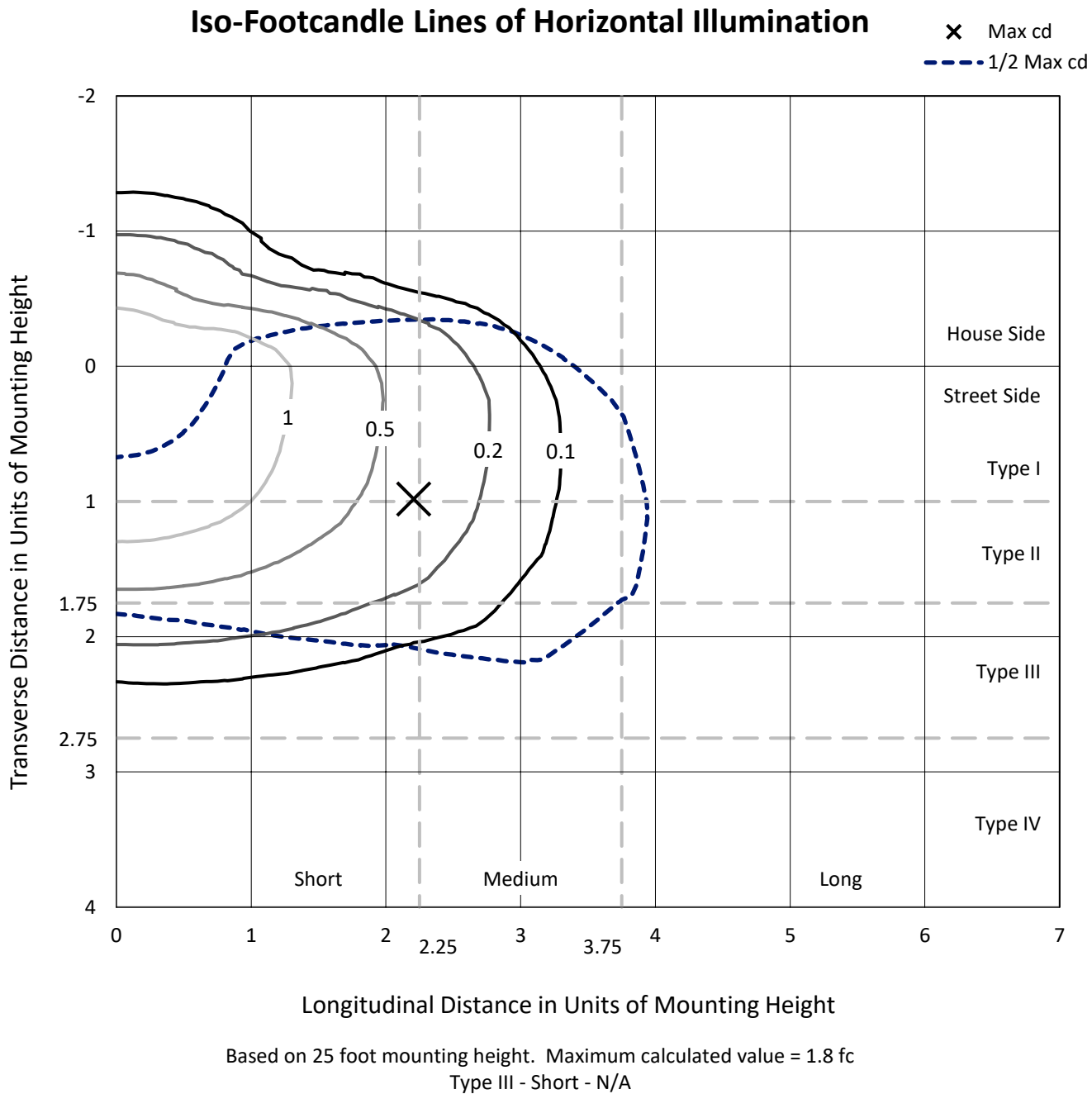
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7126.8 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

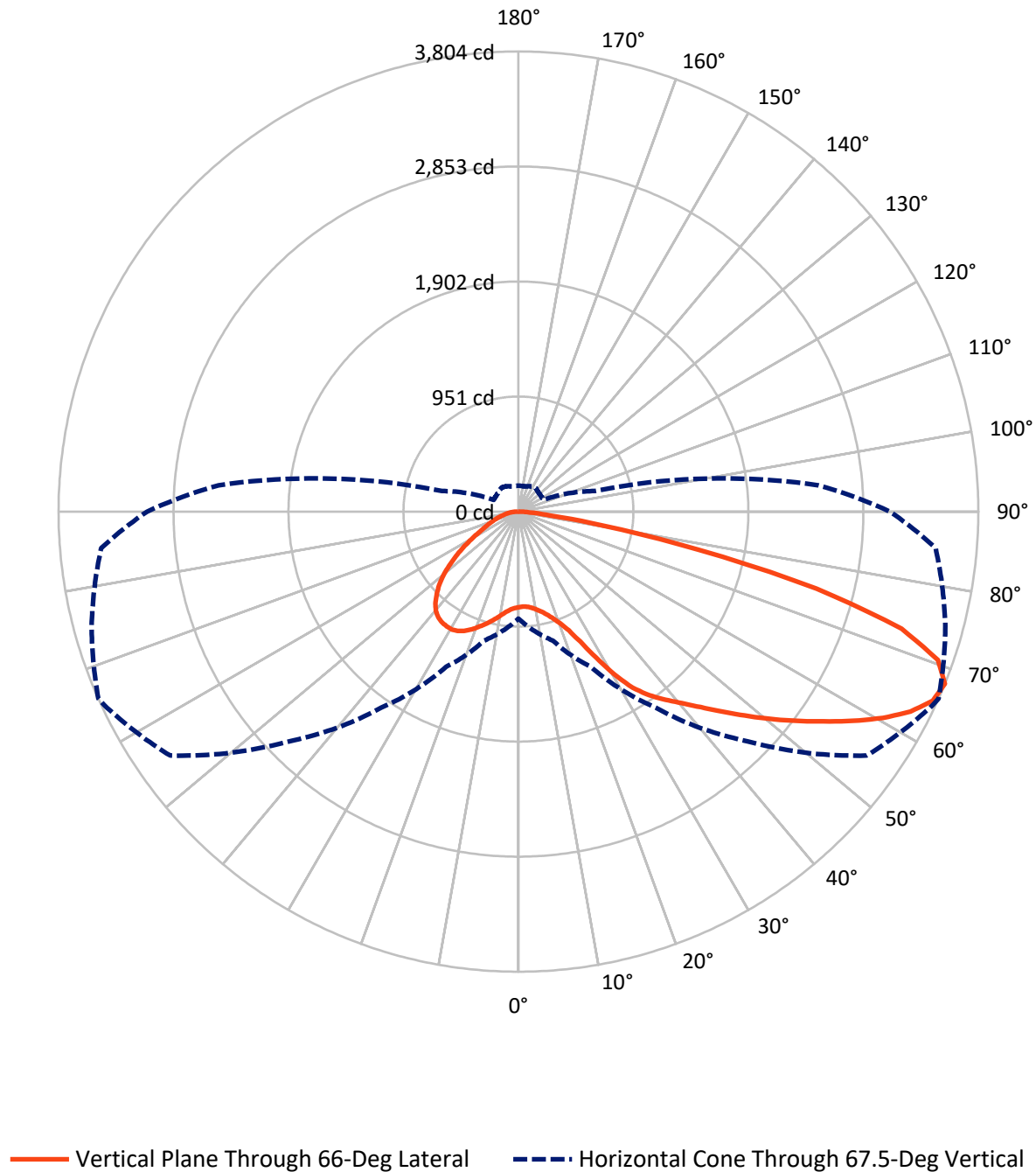


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Luminous Intensity Polar Plot



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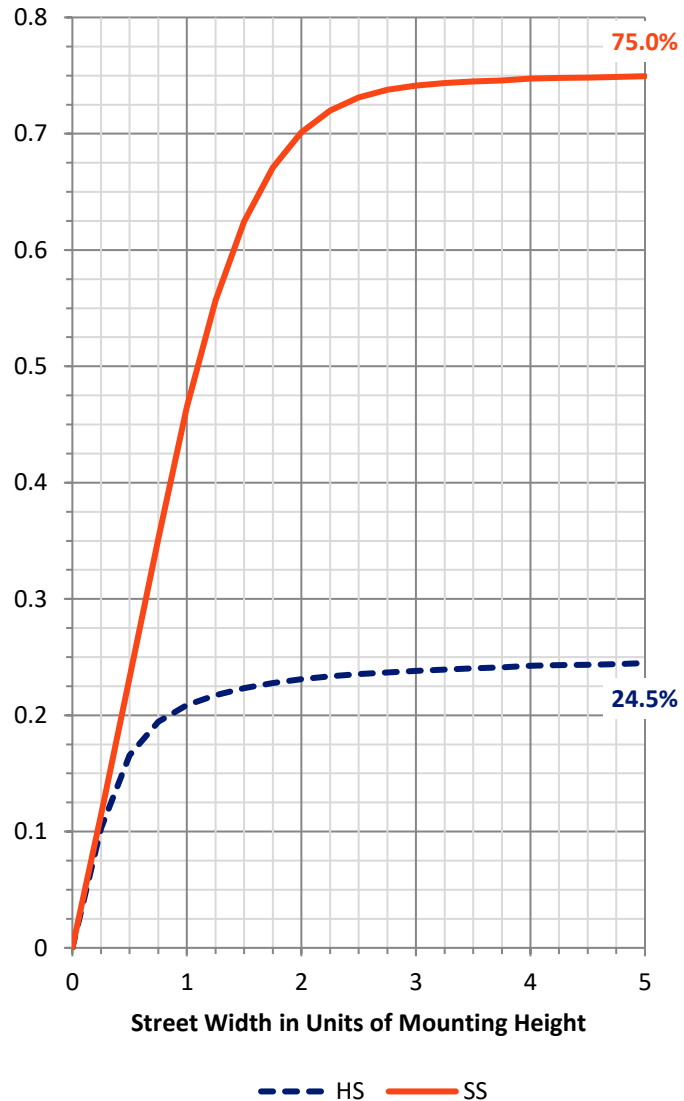
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1772.1	0.0	1772.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5354.8	0.0	5354.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	7126.8	0.0	7126.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	1.1
10°-20°	258.9	3.6
20°-30°	499.1	7.0
30°-40°	875.0	12.3
40°-50°	1300.9	18.3
50°-60°	1649.0	23.1
60°-70°	1613.5	22.6
70°-80°	769.7	10.8
80°-90°	82.3	1.2
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°	7126.8	100.0
0°-180°	7126.8	100.0

Coefficient of Utilization



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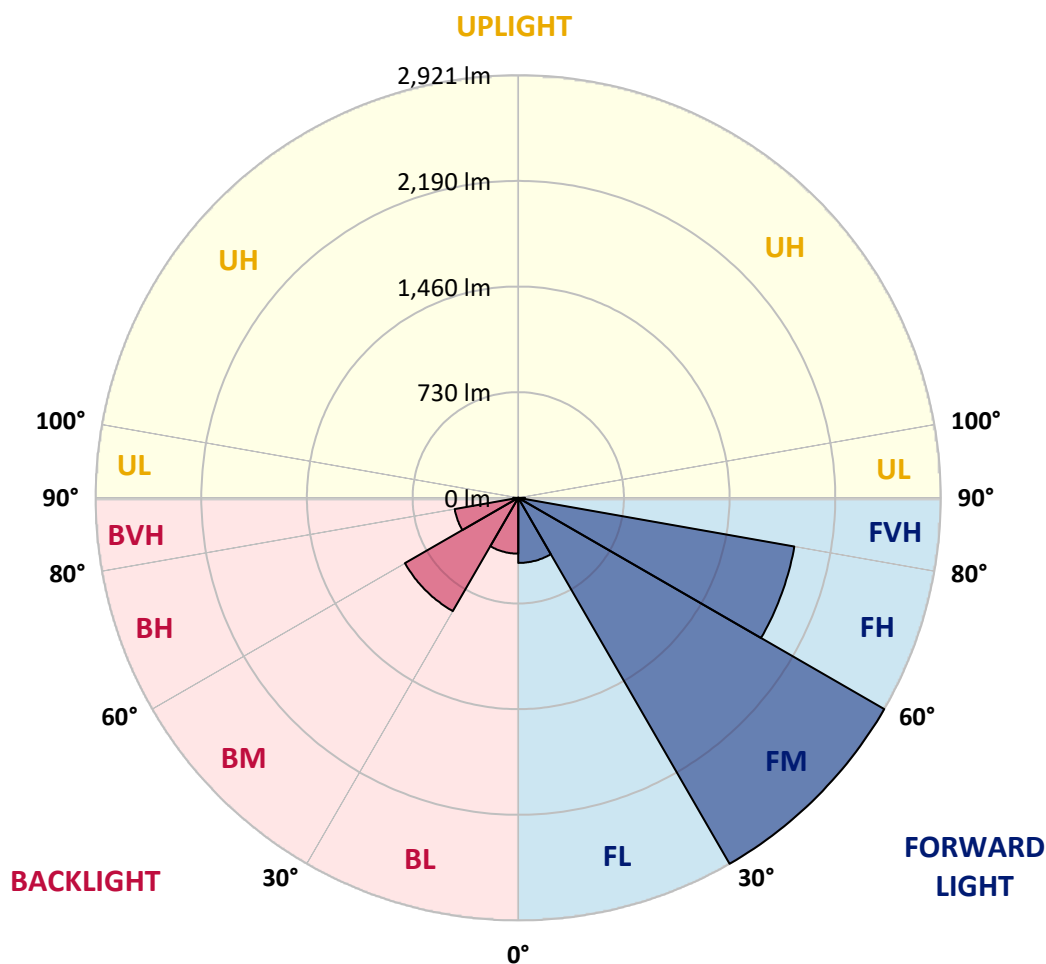
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.3	6.3			
FM	(30°-60°)	2920.5	41.0			
FH	(60°-80°)	1937.3	27.2			G2/5000
FVH	(80°-90°)	46.6	0.7			G1/100
BL	(0°-30°)	386.0	5.4	B1/500		
BM	(30°-60°)	904.5	12.7	B1/1000		
BH	(60°-80°)	445.9	6.3	B1/500		G1/500
BVH	(80°-90°)	35.6	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	782.2	786.7	785.6	783.7	783.3	784.1	785.3	786.4	786.0	787.8	790.8
5°	780.0	784.4	784.1	784.1	785.6	788.6	790.5	792.3	790.5	792.7	796.8
7.5°	781.5	784.8	786.4	787.8	791.6	797.2	801.7	805.9	803.6	806.2	811.4
10°	800.5	803.2	804.7	804.7	807.3	813.6	818.2	825.6	823.8	827.9	834.7
12.5°	835.4	838.0	838.0	836.5	838.3	842.6	844.0	852.3	848.9	855.6	862.3
15°	878.1	883.3	879.2	876.6	877.3	881.5	881.1	887.4	884.1	889.7	895.6
17.5°	925.3	932.0	925.3	924.9	923.4	927.9	928.2	933.9	927.9	932.0	936.1
20°	981.0	990.5	984.8	986.7	983.3	985.1	987.1	995.3	985.9	988.9	987.8
22.5°	1059.6	1070.9	1065.0	1072.0	1069.8	1068.3	1067.9	1082.5	1067.9	1069.1	1058.2
25°	1174.2	1187.8	1177.2	1186.9	1186.9	1191.9	1197.5	1216.2	1191.9	1184.8	1156.7
27.5°	1343.5	1357.0	1336.4	1342.4	1340.5	1352.5	1346.5	1393.0	1366.7	1355.2	1298.6
30°	1547.2	1571.2	1532.3	1530.7	1528.9	1548.0	1556.6	1587.3	1560.7	1549.1	1480.9
32.5°	1767.4	1792.5	1746.1	1732.6	1725.5	1737.1	1730.0	1754.7	1736.4	1718.3	1634.1
35°	2000.3	2025.0	1980.8	1954.6	1926.2	1901.8	1876.4	1882.7	1865.5	1838.1	1750.9
37.5°	2220.5	2265.8	2219.0	2190.9	2138.5	2090.9	2019.8	1990.1	1974.0	1949.0	1861.0
40°	2444.7	2470.6	2435.0	2411.1	2354.1	2279.6	2165.8	2103.3	2081.6	2057.2	1982.7
42.5°	2609.9	2634.7	2615.5	2599.1	2554.5	2468.0	2320.8	2242.6	2211.1	2183.8	2120.5
45°	2741.0	2759.3	2747.3	2753.4	2734.2	2650.3	2481.4	2391.9	2359.3	2326.0	2276.2
47.5°	2793.7	2813.2	2832.3	2867.8	2900.4	2838.7	2654.1	2553.7	2519.2	2485.2	2436.1
50°	2787.8	2807.6	2863.0	2938.7	3039.7	3019.1	2836.1	2726.0	2694.1	2655.2	2609.9
52.5°	2739.8	2762.3	2833.4	2959.3	3120.3	3154.3	3021.4	2903.8	2873.9	2827.5	2782.2
55°	2614.1	2627.5	2734.2	2912.4	3139.4	3248.7	3203.0	3093.3	3063.3	2998.5	2949.1
57.5°	2380.8	2400.2	2555.6	2786.3	3091.4	3312.7	3362.5	3292.5	3263.7	3170.4	3118.8
60°	2076.3	2107.4	2285.2	2574.3	2969.3	3312.4	3507.4	3488.4	3464.4	3339.7	3285.7
62.5°	1731.8	1767.8	1938.9	2274.8	2755.9	3218.4	3598.1	3652.4	3640.0	3495.9	3427.0
65°	1330.0	1354.7	1525.1	1887.2	2423.8	3016.6	3608.5	3764.3	3766.6	3614.6	3500.7
67.5°	885.6	956.7	1104.6	1416.1	1979.0	2686.6	3516.5	3782.7	3804.4	3655.4	3463.7
70°	432.1	525.7	670.7	920.3	1416.1	2180.8	3275.7	3632.2	3680.5	3536.2	3242.7
72.5°	179.4	209.7	288.7	454.2	812.9	1471.6	2791.9	3224.0	3313.5	3133.4	2726.4
75°	121.0	131.1	165.1	232.9	370.3	725.7	2013.4	2403.9	2548.1	2366.5	1934.4
77.5°	93.3	99.6	120.2	162.9	220.2	274.5	1077.7	1448.7	1523.3	1410.2	1006.6
80°	73.4	78.3	89.9	118.7	156.1	146.8	367.4	656.4	699.5	586.7	323.5
82.5°	63.7	65.5	64.4	80.5	103.7	85.8	120.5	242.3	267.3	193.9	105.6
85°	46.0	51.2	53.5	49.8	55.0	43.5	49.4	85.8	94.4	84.3	59.6
87.5°	18.8	27.7	34.0	32.2	20.2	12.4	15.4	25.1	28.8	31.5	19.5
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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	791.2	793.9	795.7	798.0	799.4	801.7	806.2	808.8	809.1	811.1	810.7
5°	798.4	802.1	806.2	812.2	818.9	824.5	833.1	839.2	841.4	843.3	842.9
7.5°	813.6	818.9	826.4	836.9	846.6	854.1	864.6	871.8	878.8	881.5	881.8
10°	836.5	844.0	854.8	869.1	879.6	889.3	900.2	906.2	913.3	916.2	917.8
12.5°	865.0	872.8	887.0	906.9	916.7	923.4	927.1	925.7	927.1	929.8	930.5
15°	897.6	906.2	922.3	943.6	950.4	944.3	936.1	928.6	927.5	928.2	930.9
17.5°	936.1	942.5	961.2	979.2	974.3	949.6	931.6	919.6	913.7	911.7	914.4
20°	990.0	990.0	1005.4	1016.6	984.0	942.1	914.0	894.5	882.2	877.0	875.9
22.5°	1055.5	1049.6	1059.3	1051.4	982.2	921.2	882.2	848.5	829.7	822.3	821.1
25°	1138.7	1131.6	1128.9	1080.2	968.7	887.9	824.5	783.7	767.2	763.1	763.8
27.5°	1264.1	1246.2	1212.1	1096.0	944.0	835.4	757.2	719.3	709.9	710.3	711.5
30°	1431.1	1395.2	1311.7	1098.6	903.5	761.3	688.2	661.2	656.8	658.7	665.0
32.5°	1585.8	1551.7	1413.6	1086.6	841.4	688.6	626.5	608.4	601.8	604.0	607.0
35°	1707.1	1697.7	1507.9	1069.8	765.0	620.4	571.0	555.7	542.5	539.6	541.8
37.5°	1821.7	1817.9	1578.7	1046.2	689.3	572.2	526.4	506.2	487.2	476.6	477.0
40°	1947.5	1943.7	1625.1	1009.9	622.4	530.2	486.4	459.8	436.2	417.2	419.0
42.5°	2089.1	2066.9	1647.2	957.9	565.4	494.7	453.9	417.9	386.8	369.2	370.3
45°	2243.7	2193.9	1646.9	891.5	517.5	462.1	419.0	368.1	339.3	322.8	322.1
47.5°	2407.7	2315.2	1626.6	818.2	471.1	426.1	365.1	326.2	307.1	296.9	294.7
50°	2577.0	2428.6	1592.1	733.9	423.5	385.3	331.4	304.8	290.2	280.8	277.5
52.5°	2736.1	2531.6	1550.6	638.5	375.2	345.6	316.4	295.8	280.4	270.0	265.5
55°	2884.0	2620.4	1491.8	540.7	335.9	319.0	309.3	292.0	274.5	262.1	257.3
57.5°	3015.4	2678.0	1390.3	449.0	307.8	300.6	301.8	285.7	265.5	255.0	248.3
60°	3124.8	2720.4	1240.1	364.0	285.0	282.7	290.2	273.7	250.1	238.1	232.9
62.5°	3190.3	2719.6	1056.0	298.1	265.5	266.2	274.8	258.7	234.8	223.6	220.2
65°	3184.7	2653.0	853.7	255.0	246.7	247.5	258.7	242.3	222.0	215.4	214.9
67.5°	3071.9	2490.4	654.9	226.9	226.2	229.5	242.6	231.0	214.2	213.4	214.5
70°	2766.8	2153.1	471.8	204.5	204.8	209.7	226.9	224.0	210.0	211.6	211.2
72.5°	2218.6	1641.5	316.8	180.8	181.2	189.1	212.0	218.3	205.9	225.8	228.8
75°	1477.5	1023.8	203.7	155.8	156.1	166.3	198.8	207.5	194.7	225.1	226.9
77.5°	709.9	460.2	147.5	131.1	131.1	140.4	171.9	185.7	165.8	174.9	160.3
80°	245.3	173.0	116.0	105.6	103.3	109.7	144.9	161.0	143.1	131.8	123.6
82.5°	96.7	89.9	93.3	82.0	74.5	78.6	112.7	132.9	105.3	95.1	94.7
85°	55.5	58.4	65.9	54.3	43.0	48.3	82.7	95.5	79.3	70.0	71.5
87.5°	15.0	20.6	30.3	28.1	19.5	20.6	39.4	52.8	45.7	35.2	36.3
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)