

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: P959952

Luminaire Tested: **NAV-SB1B-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

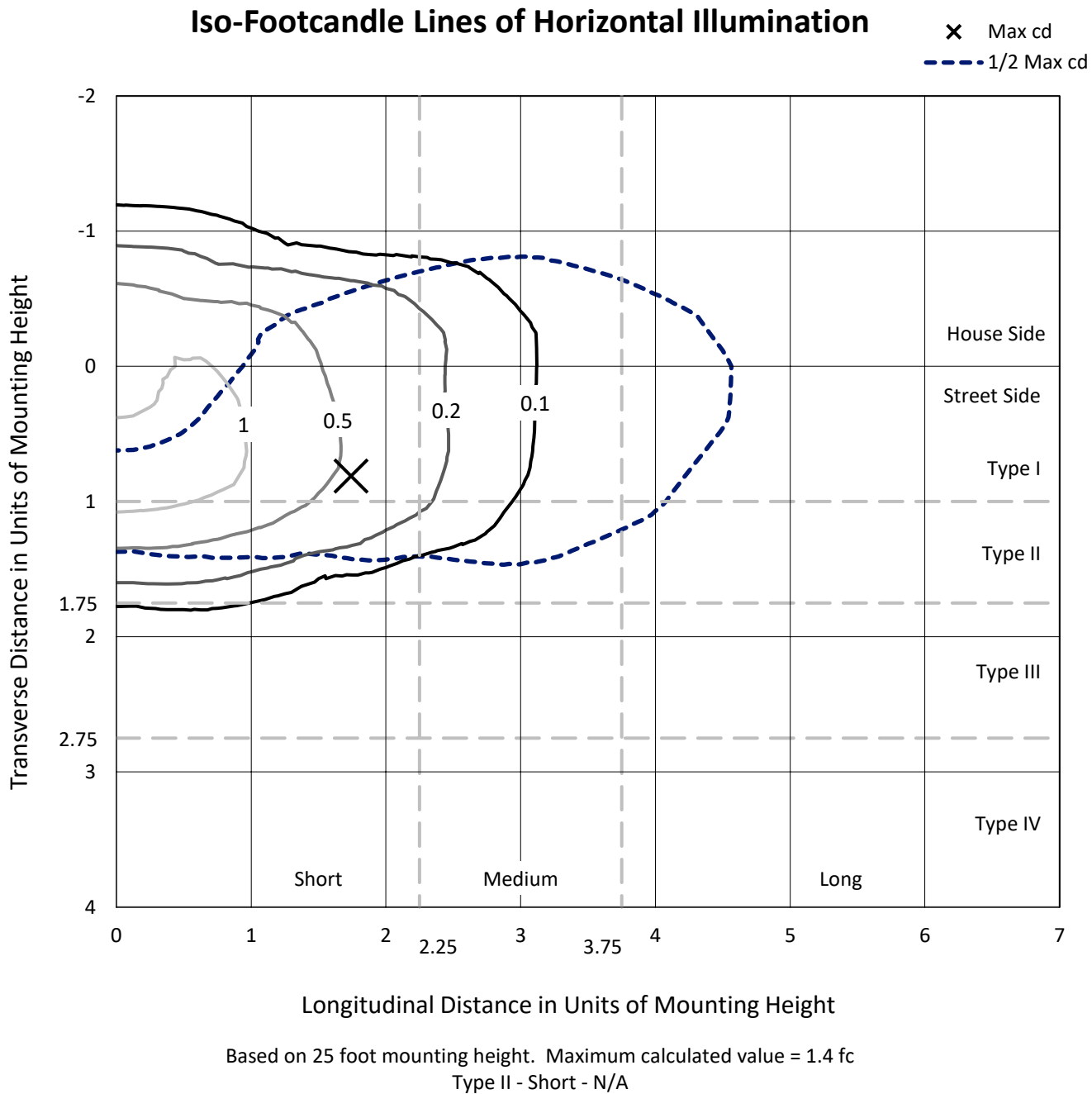
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5088.1 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.8
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

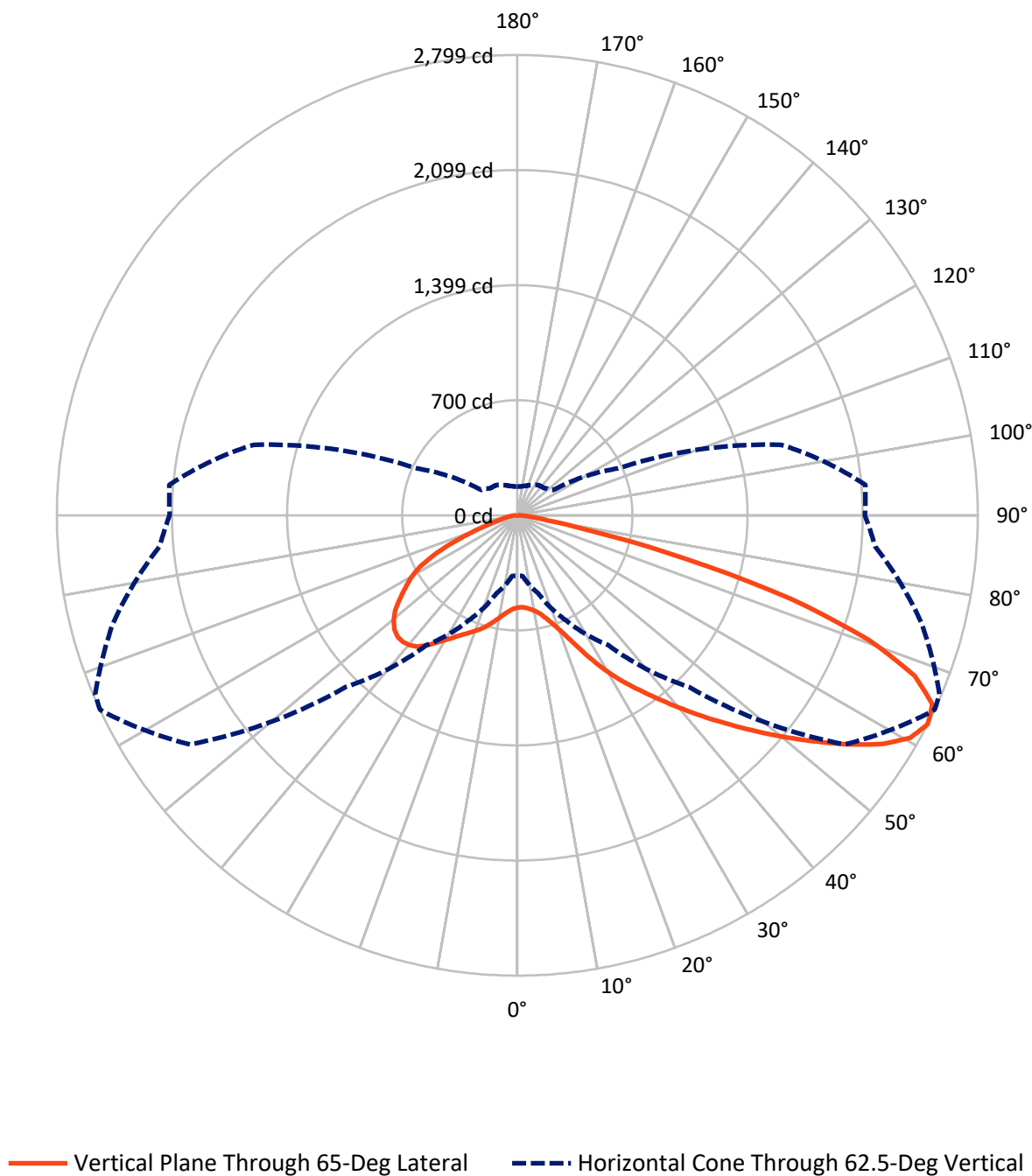


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Luminous Intensity Polar Plot



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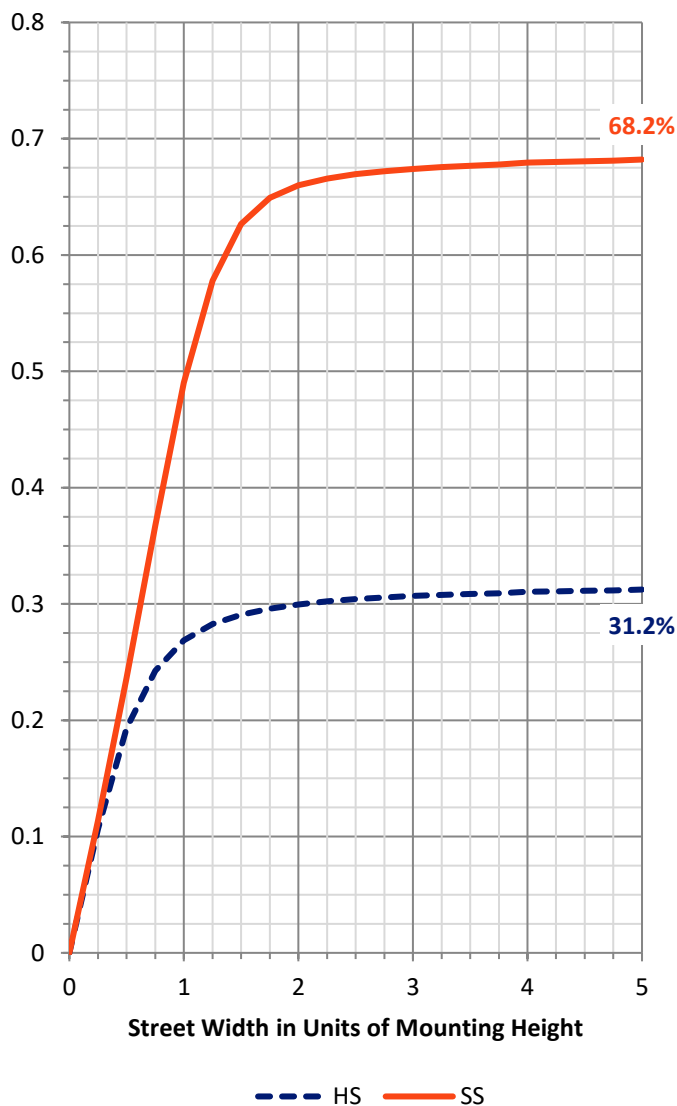
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1605.6	0.0	1605.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3482.5	0.0	3482.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	5088.1	0.0	5088.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	1.1
10°-20°	189.6	3.7
20°-30°	384.4	7.6
30°-40°	665.1	13.1
40°-50°	1006.5	19.8
50°-60°	1180.1	23.2
60°-70°	989.4	19.4
70°-80°	546.2	10.7
80°-90°	71.0	1.4
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°	5088.1	100.0
0°-180°	5088.1	100.0

Coefficient of Utilization



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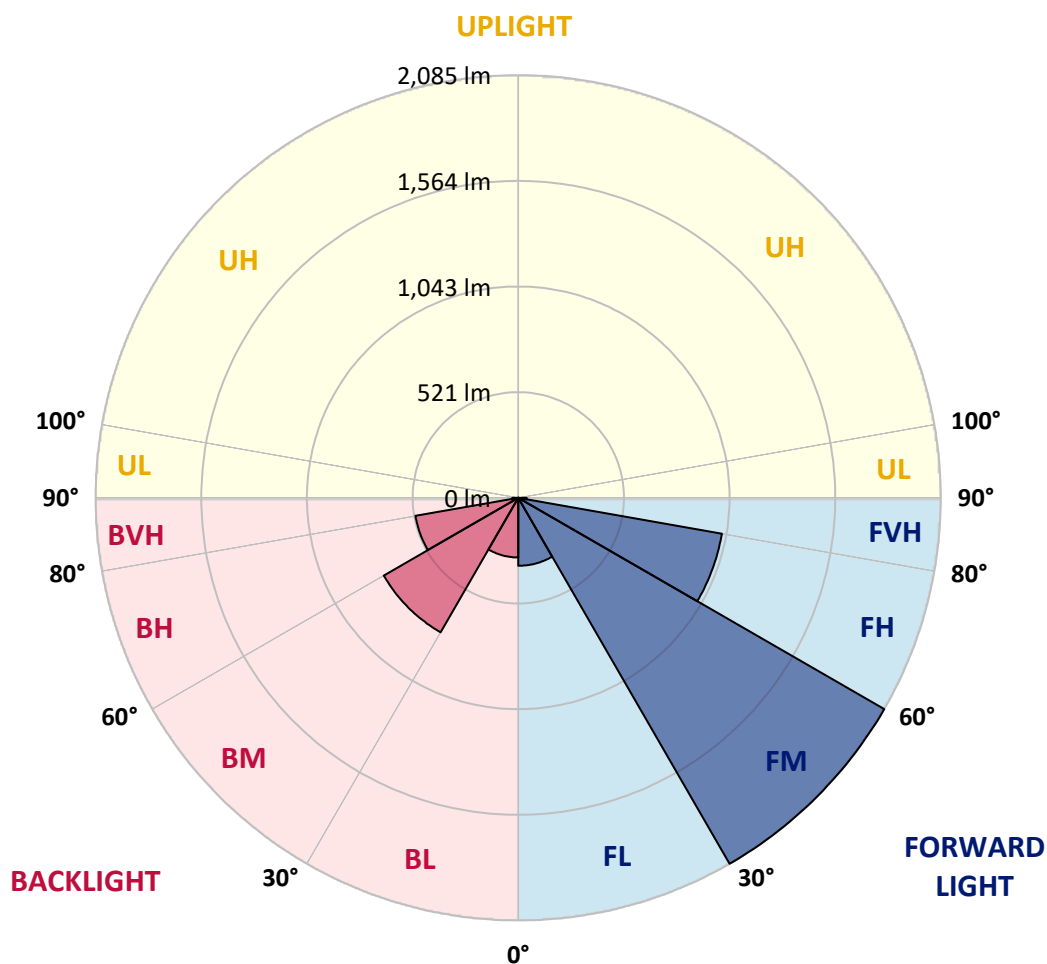
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.4	6.6			
FM	(30°-60°)	2085.3	41.0			
FH	(60°-80°)	1020.5	20.1			G1/1800
FVH	(80°-90°)	41.4	0.8			G1/100
BL	(0°-30°)	294.4	5.8	B1/500		
BM	(30°-60°)	766.5	15.1	B1/1000		
BH	(60°-80°)	515.1	10.1	B2/1000		G2/1000
BVH	(80°-90°)	29.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	557.0	555.4	556.7	556.7	557.3	557.0	558.8	559.3	560.2	561.7	561.7
5°	551.4	551.1	553.6	555.7	557.8	559.6	562.0	565.4	566.0	567.8	570.2
7.5°	549.6	548.0	551.8	554.3	559.3	563.9	570.2	575.9	578.4	579.1	583.6
10°	563.9	561.2	564.7	566.2	570.4	574.9	582.3	591.5	594.2	597.4	602.4
12.5°	588.1	585.3	590.3	592.7	596.6	600.5	605.6	614.5	615.8	621.7	626.4
15°	621.4	618.0	621.2	624.0	630.7	634.4	639.4	648.1	648.1	652.5	656.0
17.5°	666.6	662.0	664.4	665.5	669.7	675.3	683.7	691.4	695.4	693.7	689.0
20°	733.9	728.3	728.3	723.0	721.5	725.9	737.0	747.5	751.8	743.6	732.1
22.5°	835.0	827.1	822.6	804.6	797.4	798.0	809.1	822.0	825.4	811.0	784.8
25°	963.5	951.1	945.0	918.6	902.5	888.6	897.3	913.9	918.6	900.7	858.4
27.5°	1092.0	1092.9	1087.0	1055.3	1028.7	1003.1	998.7	1016.1	1021.1	1000.7	948.4
30°	1272.3	1253.6	1242.5	1204.5	1166.6	1130.6	1112.1	1119.3	1120.5	1096.3	1035.6
32.5°	1427.8	1423.1	1399.3	1366.1	1317.2	1261.1	1230.1	1218.8	1216.7	1182.1	1110.0
35°	1604.9	1602.4	1577.3	1537.7	1484.9	1406.7	1351.1	1318.6	1315.9	1267.3	1183.7
37.5°	1785.0	1785.0	1760.4	1717.2	1662.6	1564.9	1480.1	1428.6	1420.2	1356.8	1258.6
40°	1928.6	1919.9	1924.4	1906.2	1843.6	1739.8	1623.5	1548.8	1537.4	1461.3	1338.3
42.5°	2010.2	2007.3	2034.2	2054.5	2028.9	1946.1	1781.3	1678.8	1663.1	1576.4	1430.2
45°	2028.4	2025.2	2073.3	2147.7	2183.7	2149.5	1952.9	1815.9	1796.6	1696.9	1528.7
47.5°	1986.4	1980.1	2050.6	2168.1	2283.1	2343.0	2138.8	1964.5	1936.5	1814.0	1629.7
50°	1860.3	1854.1	1960.8	2116.8	2316.7	2474.6	2340.4	2122.2	2079.3	1939.7	1731.9
52.5°	1586.0	1588.9	1755.9	1970.4	2272.5	2556.4	2514.1	2288.1	2236.7	2068.2	1827.8
55°	1235.4	1241.8	1447.1	1683.2	2096.2	2543.9	2632.6	2459.2	2408.0	2189.2	1926.8
57.5°	884.6	912.6	1105.1	1338.6	1757.6	2347.2	2658.5	2621.8	2572.2	2321.1	2023.7
60°	573.4	578.4	776.3	1011.8	1338.3	1997.7	2606.0	2745.1	2706.3	2455.8	2104.7
62.5°	367.5	370.8	491.5	707.8	963.3	1478.0	2429.1	2798.7	2786.8	2544.8	2182.5
65°	270.1	267.4	330.3	467.8	648.8	911.5	2085.7	2772.8	2796.3	2600.4	2247.0
67.5°	225.4	221.7	252.7	323.9	478.1	517.6	1543.2	2604.6	2690.7	2594.1	2294.3
70°	205.4	202.2	221.0	240.5	373.0	346.6	778.0	2264.4	2396.9	2522.0	2286.6
72.5°	173.9	168.4	194.0	213.5	290.1	265.8	321.5	1739.3	1900.9	2291.1	2178.8
75°	134.9	131.2	153.1	188.0	218.0	207.5	203.3	1056.2	1232.5	1771.8	1906.2
77.5°	106.9	101.9	122.0	146.5	196.2	156.5	148.1	454.8	629.6	1131.2	1426.3
80°	80.5	76.1	92.7	115.9	150.8	118.0	95.8	185.5	237.3	573.1	717.2
82.5°	57.3	53.3	64.7	85.0	101.4	105.9	58.8	104.0	117.0	221.0	160.2
85°	36.7	34.3	43.3	53.3	64.4	68.1	35.9	54.4	59.7	91.1	66.8
87.5°	20.1	16.4	23.3	24.8	29.8	27.2	17.1	19.8	21.4	33.0	28.3
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°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	562.8	563.5	566.2	567.0	568.9	571.2	572.9	574.4	574.4	575.9	575.9
5°	570.4	572.3	577.9	580.8	585.5	590.3	593.2	596.6	598.7	599.7	600.2
7.5°	585.3	588.1	596.0	601.1	609.3	615.8	620.3	625.1	626.2	629.0	628.0
10°	605.3	608.7	617.7	627.2	636.9	645.1	649.3	652.8	654.2	654.7	653.3
12.5°	628.2	633.2	644.9	656.5	666.8	673.9	675.0	674.2	670.5	667.4	667.4
15°	656.5	661.0	673.9	686.6	696.6	697.9	691.4	687.2	682.6	681.8	681.8
17.5°	690.3	692.7	704.6	717.0	717.7	713.3	703.5	699.6	695.4	692.4	692.7
20°	729.6	728.9	737.3	742.6	737.0	723.3	708.5	701.9	697.7	694.2	694.5
22.5°	776.6	770.6	769.5	768.1	753.4	724.6	704.6	696.1	689.5	684.8	686.3
25°	845.0	821.7	805.6	796.7	763.4	717.5	691.9	673.1	660.7	652.5	655.7
27.5°	930.5	891.4	850.7	828.9	763.4	702.9	661.2	630.9	610.6	602.1	606.4
30°	1012.1	971.2	911.2	867.7	761.6	679.2	611.9	569.7	545.9	537.4	542.4
32.5°	1081.8	1037.2	975.4	910.2	757.1	640.6	550.6	503.9	480.9	470.9	475.9
35°	1146.5	1098.9	1039.8	956.9	745.2	584.1	483.4	447.7	422.1	406.0	411.2
37.5°	1212.7	1156.2	1100.7	999.2	723.9	518.1	431.6	401.3	371.2	349.5	355.3
40°	1284.7	1217.2	1165.9	1024.2	688.7	455.4	391.4	363.8	331.8	308.8	313.3
42.5°	1369.0	1290.3	1238.6	1037.2	640.6	410.7	365.3	338.1	308.0	289.4	293.0
45°	1456.9	1370.8	1304.8	1036.9	587.1	389.9	356.9	329.9	296.7	277.2	280.3
47.5°	1549.0	1455.1	1362.1	1020.0	540.6	392.8	352.2	312.3	275.6	256.6	259.2
50°	1641.4	1547.1	1417.6	988.3	520.8	386.4	334.5	287.5	244.2	227.0	228.1
52.5°	1733.0	1645.1	1465.3	943.2	500.8	363.0	311.8	255.2	231.2	219.4	219.4
55°	1825.1	1742.0	1517.3	877.5	450.6	335.5	273.8	243.1	221.0	210.1	209.1
57.5°	1917.6	1853.9	1566.7	811.7	387.6	301.8	252.9	228.4	210.6	201.4	199.9
60°	2013.6	1981.9	1617.7	751.3	325.2	258.4	237.6	216.5	198.5	188.2	187.5
62.5°	2112.6	2122.9	1657.5	673.4	267.9	232.1	223.9	202.2	184.8	175.0	174.8
65°	2212.4	2258.9	1683.7	565.4	217.3	206.9	209.1	186.7	168.9	160.5	160.2
67.5°	2287.6	2356.8	1676.3	427.9	178.1	183.2	190.5	170.3	153.6	147.0	147.3
70°	2296.1	2345.2	1603.4	293.0	149.1	160.0	170.0	154.2	137.0	132.2	132.5
72.5°	2183.7	2186.7	1400.4	191.4	126.2	140.4	148.3	137.8	121.2	116.4	116.1
75°	1888.8	1808.5	1028.2	126.2	105.6	120.6	128.0	120.6	104.6	105.6	101.9
77.5°	1431.0	1280.8	624.3	89.8	88.1	101.4	111.4	106.1	92.4	103.7	91.3
80°	737.3	692.9	278.5	67.0	69.7	81.1	91.6	84.8	73.1	69.7	63.7
82.5°	168.9	196.4	109.8	48.1	50.4	58.3	69.9	63.7	52.6	44.4	43.9
85°	59.1	64.7	48.6	30.1	29.5	36.4	47.6	42.5	35.7	28.5	30.1
87.5°	18.8	24.6	18.2	12.1	12.7	16.4	21.9	20.1	16.6	10.9	11.4
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)