

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: P959992

Luminaire Tested: **NAV-SB1B-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

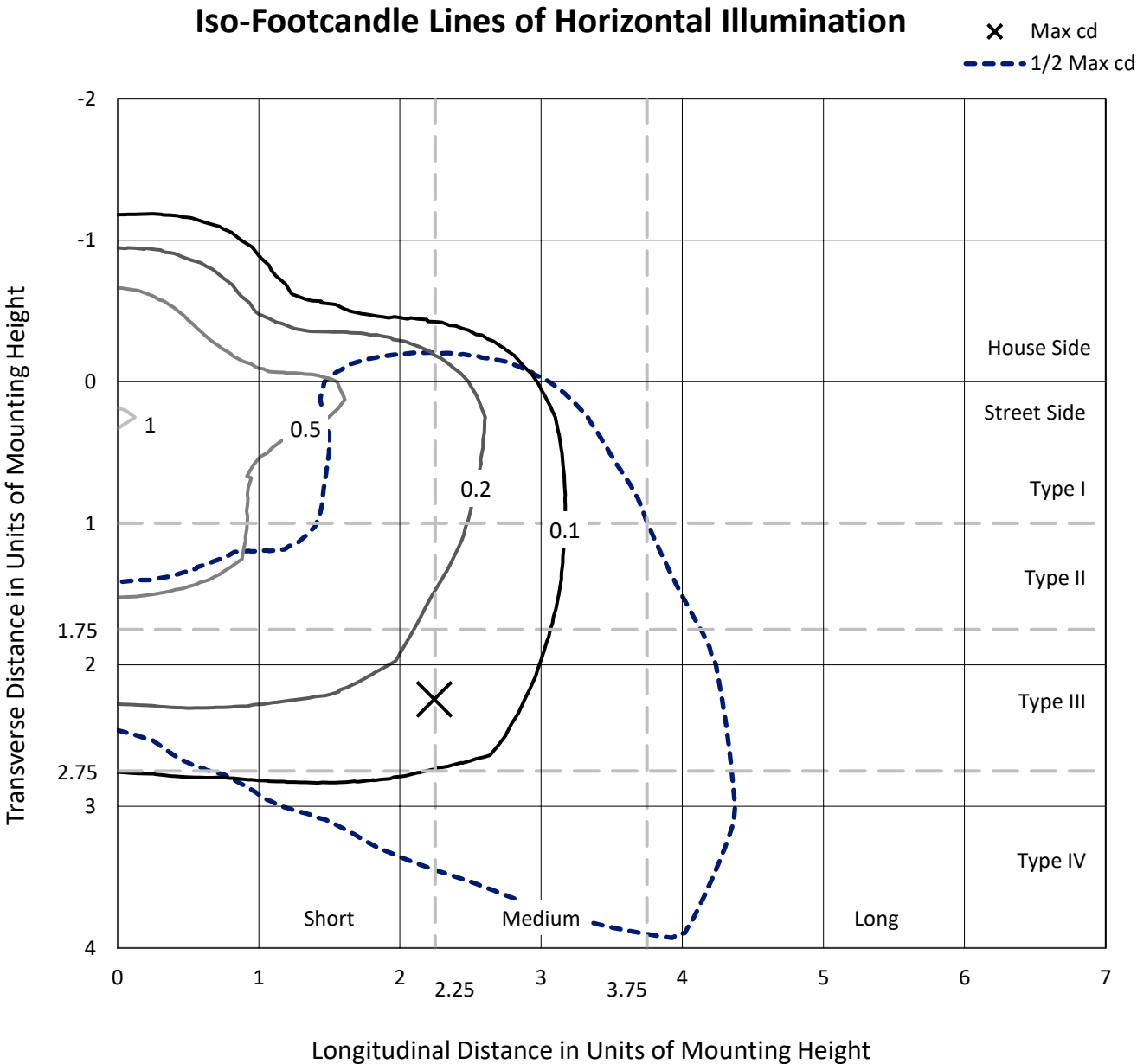
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5178.3 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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



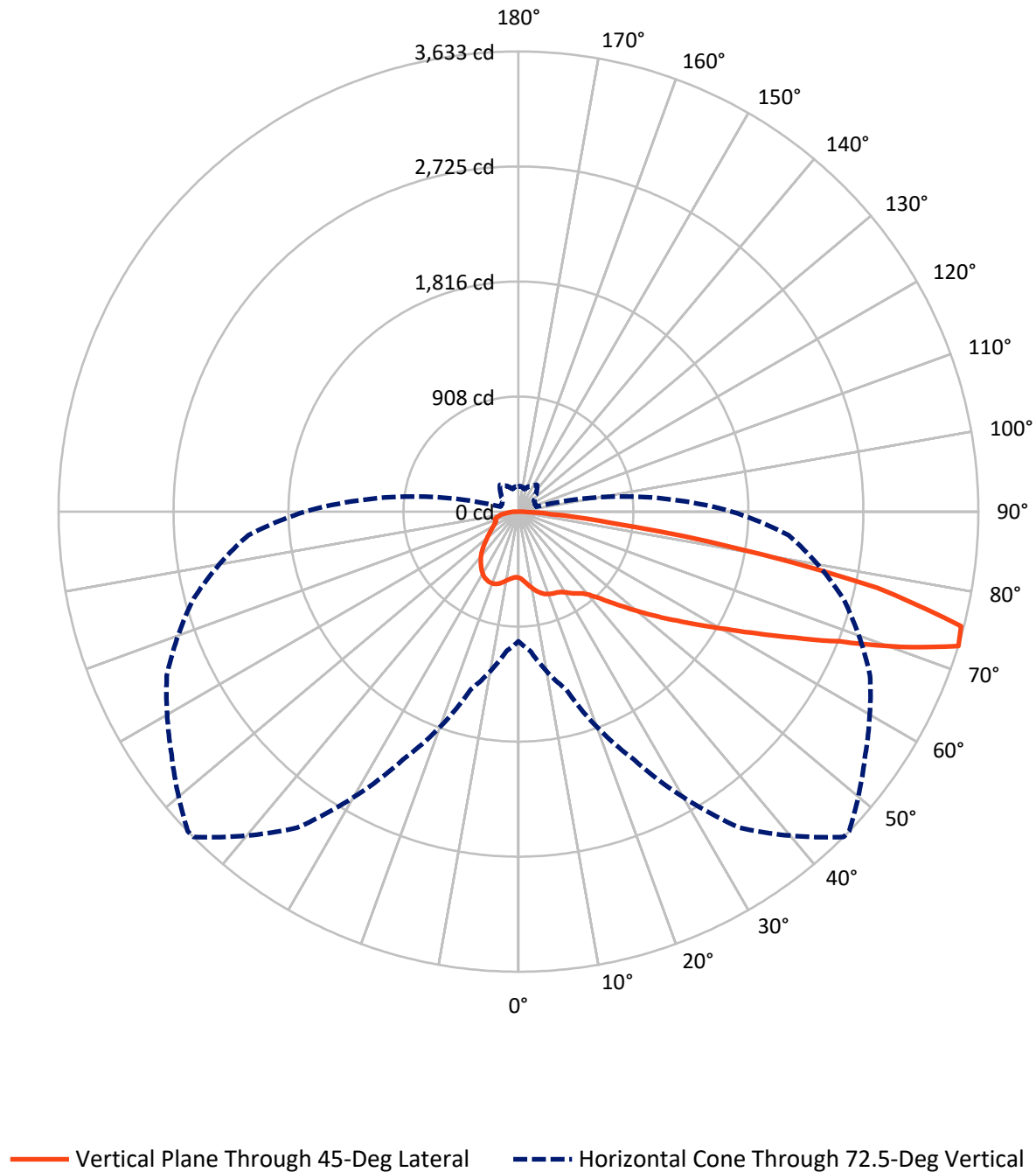
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Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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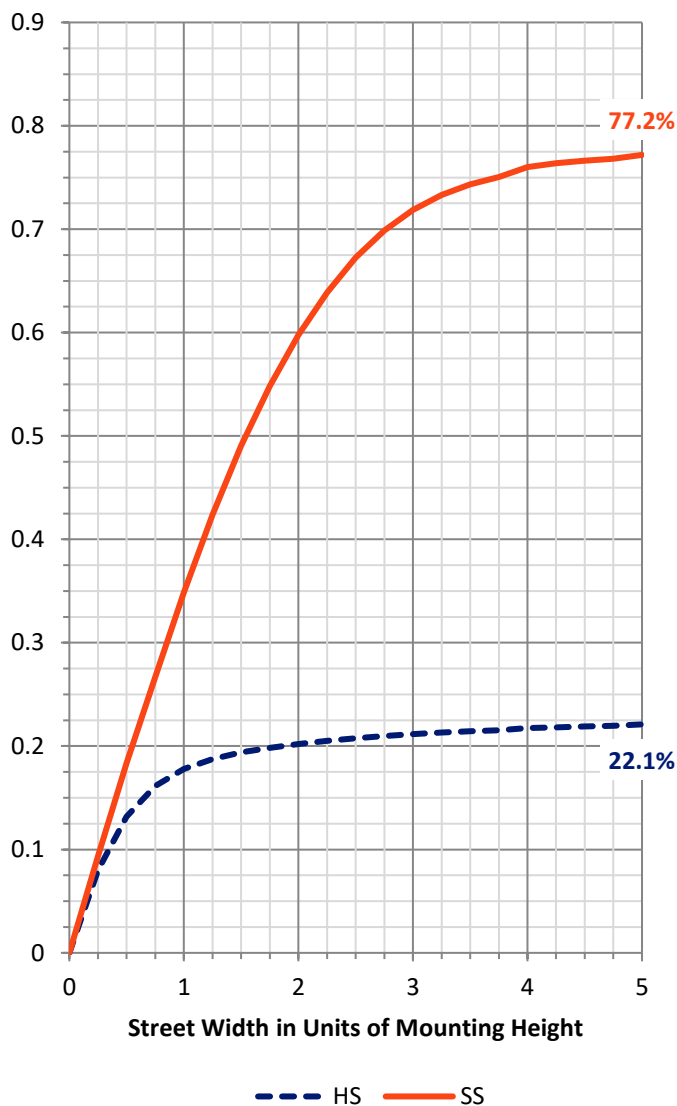
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1170.6	0.0	1170.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4007.7	0.0	4007.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	5178.3	0.0	5178.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.0
10°-20°	177.3	3.4
20°-30°	308.4	6.0
30°-40°	442.1	8.5
40°-50°	622.5	12.0
50°-60°	953.4	18.4
60°-70°	1381.2	26.7
70°-80°	1103.0	21.3
80°-90°	137.4	2.7
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°	5178.3	100.0
0°-180°	5178.3	100.0

Coefficient of Utilization



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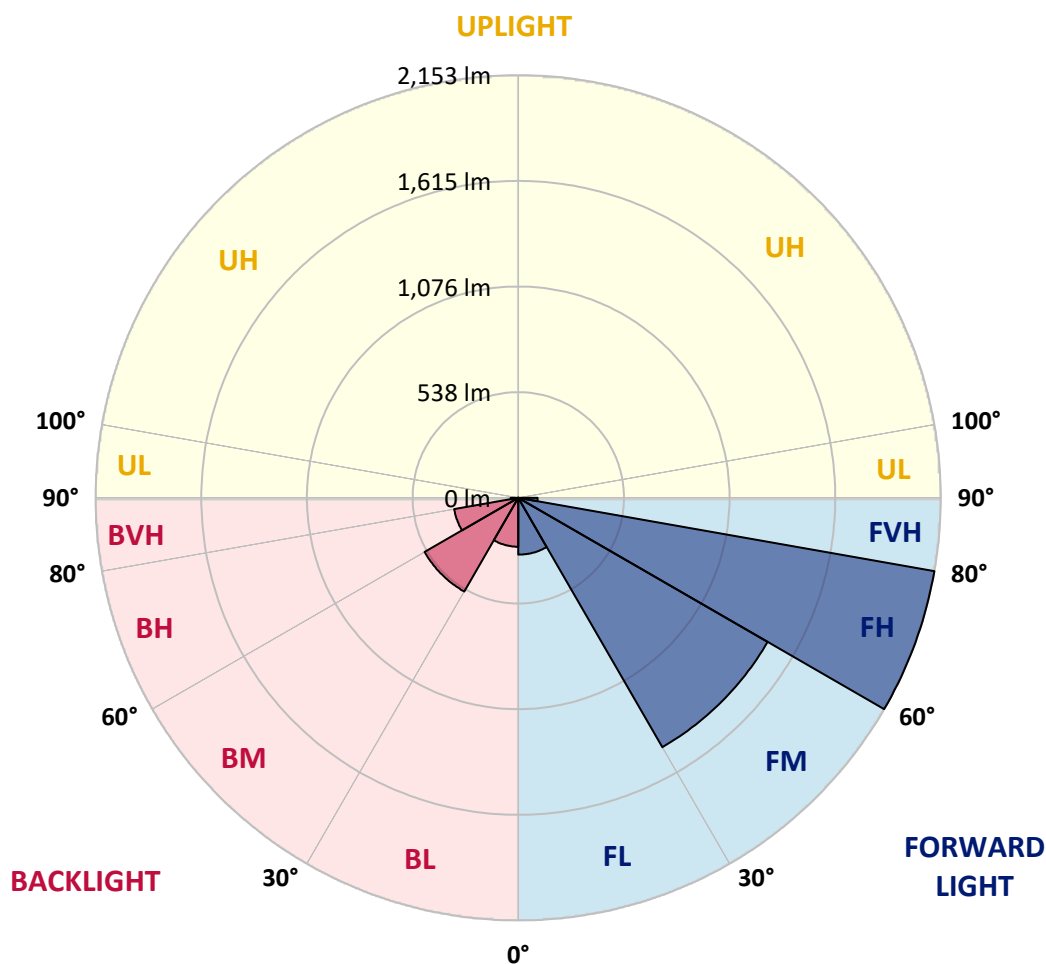
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.6	5.6			
FM	(30°-60°)	1466.8	28.3			
FH	(60°-80°)	2152.8	41.6			G2/5000
FVH	(80°-90°)	98.6	1.9			G1/100
BL	(0°-30°)	249.2	4.8	B1/500		
BM	(30°-60°)	551.2	10.6	B1/1000		
BH	(60°-80°)	331.4	6.4	B1/500		G1/500
BVH	(80°-90°)	38.8	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3
2.5°	542.8	546.4	543.1	540.1	538.7	535.3	534.9	532.8	531.4	527.6	526.4
5°	580.8	585.4	579.9	573.9	568.5	559.8	558.6	552.4	545.3	537.1	532.5
7.5°	623.6	627.7	621.5	612.4	602.9	588.5	588.1	576.7	565.5	551.6	543.7
10°	660.9	666.5	657.9	645.6	633.7	617.4	615.4	602.3	588.1	570.1	558.1
12.5°	693.9	697.8	689.6	674.7	660.7	644.3	641.9	627.4	611.6	591.1	575.8
15°	720.2	725.1	714.1	698.0	683.4	667.3	665.0	652.0	636.1	614.6	594.9
17.5°	737.4	741.5	730.2	712.3	698.0	684.7	683.1	672.2	658.3	636.4	615.4
20°	743.9	748.2	736.6	718.2	705.2	694.7	693.9	686.0	676.5	656.6	635.3
22.5°	750.4	754.5	739.2	720.2	708.7	702.1	701.9	696.7	692.9	676.5	655.8
25°	776.9	778.0	757.6	730.0	713.6	707.9	707.7	707.4	709.0	696.2	677.8
27.5°	799.8	799.5	782.1	756.1	730.8	718.8	718.5	721.3	726.4	715.8	700.8
30°	833.3	830.4	809.6	782.6	759.4	740.9	739.2	736.8	740.9	732.5	723.8
32.5°	904.6	895.0	861.5	813.4	783.2	769.0	766.8	751.5	753.2	747.9	743.6
35°	1006.6	994.0	949.3	871.9	812.6	792.4	791.4	772.0	768.7	764.0	765.7
37.5°	1128.0	1112.4	1060.4	956.4	863.4	819.7	818.1	800.6	787.3	782.4	791.6
40°	1249.9	1230.3	1187.2	1059.5	938.1	865.3	860.1	833.6	818.4	810.2	829.8
42.5°	1368.3	1352.0	1315.1	1175.2	1030.3	931.8	920.3	875.1	863.7	856.0	891.4
45°	1473.0	1458.4	1431.3	1298.8	1138.4	1022.4	1011.3	937.3	933.8	933.8	985.0
47.5°	1558.2	1554.9	1526.2	1424.7	1265.8	1125.6	1106.2	1023.8	1033.3	1048.1	1117.9
50°	1652.5	1643.6	1613.0	1548.9	1415.5	1243.6	1227.8	1129.9	1165.6	1206.0	1309.9
52.5°	1739.3	1744.2	1710.1	1678.2	1584.6	1375.4	1347.6	1255.1	1332.3	1399.1	1534.9
55°	1828.5	1828.8	1819.3	1814.9	1762.0	1521.1	1490.6	1405.7	1528.5	1611.4	1797.4
57.5°	1912.2	1912.8	1927.0	1965.4	1967.6	1689.1	1654.5	1590.6	1746.4	1831.0	2068.0
60°	1987.0	1990.9	2029.5	2119.6	2148.5	1881.7	1849.0	1809.1	1971.7	2056.9	2352.5
62.5°	2012.1	2026.0	2112.2	2240.1	2327.2	2118.0	2085.8	2062.0	2208.5	2287.6	2590.4
65°	1969.5	2001.4	2168.1	2339.7	2511.0	2398.6	2366.7	2340.8	2454.6	2529.0	2785.7
67.5°	1865.1	1906.3	2164.8	2444.2	2734.2	2736.3	2706.6	2645.7	2718.3	2747.0	2849.3
70°	1589.8	1651.5	1974.2	2483.2	2990.3	3198.2	3169.5	3013.0	2981.6	2843.0	2670.3
72.5°	1024.3	1107.2	1453.7	2162.1	3047.3	3632.7	3631.1	3344.4	3064.7	2656.4	2141.6
75°	373.7	424.5	675.5	1357.1	2557.9	3610.7	3621.2	3287.7	2797.7	2051.9	1334.2
77.5°	136.1	148.9	220.4	521.6	1573.2	2897.1	2919.1	2628.3	1991.4	1029.8	528.7
80°	71.4	78.5	113.0	202.4	674.0	1720.5	1755.1	1562.0	935.9	310.2	158.5
82.5°	39.6	42.8	63.2	110.0	303.6	735.7	756.4	617.0	329.2	131.5	65.5
85°	21.3	22.7	29.7	60.0	148.4	255.0	260.8	184.4	131.2	77.2	31.7
87.5°	6.3	7.7	9.8	19.1	58.1	57.3	58.6	36.6	51.9	39.1	10.4
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°	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3	522.3
2.5°	524.8	524.0	521.0	519.7	518.0	517.7	519.2	519.4	519.7	520.0	521.0
5°	529.7	527.1	524.3	522.6	523.2	523.5	526.2	528.1	529.5	530.5	531.2
7.5°	539.3	537.1	532.5	532.2	533.0	535.5	539.0	543.4	545.8	547.8	548.3
10°	553.5	549.4	544.0	544.8	546.4	549.9	557.3	560.9	565.0	568.5	567.6
12.5°	568.0	564.4	558.1	558.6	561.4	567.6	574.7	579.1	581.9	584.6	585.7
15°	586.8	580.5	573.7	573.7	578.6	585.4	588.7	592.2	593.9	596.9	598.0
17.5°	606.2	598.0	589.0	588.5	594.4	597.7	599.6	600.1	600.6	603.9	605.1
20°	625.5	616.5	603.7	602.6	603.9	603.4	603.1	602.6	603.4	607.5	609.2
22.5°	644.6	634.3	616.5	611.6	607.7	602.6	602.3	602.1	602.6	606.7	609.4
25°	667.0	654.5	630.7	615.9	603.1	596.0	596.9	597.2	597.7	601.0	605.4
27.5°	691.3	677.3	643.8	614.6	591.4	586.5	585.2	586.0	587.8	593.1	598.2
30°	715.6	699.2	655.8	609.2	576.7	569.9	565.5	567.4	573.4	578.6	584.4
32.5°	737.6	721.3	665.3	597.2	557.8	547.2	541.5	544.0	549.9	551.9	558.6
35°	763.5	745.0	669.4	578.0	537.4	521.0	513.4	509.8	512.8	511.0	516.9
37.5°	792.4	773.1	668.9	553.0	513.4	494.6	483.9	470.6	464.3	457.8	461.9
40°	835.3	807.5	662.4	522.6	483.7	466.5	447.4	424.8	410.5	397.7	398.5
42.5°	893.7	855.2	650.4	489.3	450.1	434.0	408.1	381.6	359.3	337.9	336.1
45°	980.7	917.7	635.3	453.9	413.8	398.0	369.9	340.2	314.8	287.5	284.2
47.5°	1106.2	1001.6	621.2	413.6	375.7	361.2	335.8	308.2	278.3	251.7	248.8
50°	1278.6	1122.3	608.0	374.2	337.9	327.1	306.9	278.8	248.5	227.2	225.9
52.5°	1497.8	1286.2	602.6	336.3	302.8	298.7	282.6	256.5	227.8	209.8	208.4
55°	1749.7	1482.4	602.6	300.0	271.9	273.4	262.2	237.9	213.1	196.9	195.4
57.5°	2006.6	1680.9	591.6	266.5	245.8	251.5	244.5	223.1	200.8	184.1	181.4
60°	2243.4	1847.4	547.5	236.0	222.6	231.5	226.9	208.7	181.4	167.5	165.3
62.5°	2425.4	1941.1	462.4	211.7	203.5	213.8	211.5	189.6	177.8	172.1	170.3
65°	2516.5	1925.9	353.5	190.1	187.4	203.5	198.3	197.5	188.2	181.6	179.5
67.5°	2460.5	1794.4	256.5	174.4	178.1	193.9	213.8	217.1	200.0	187.2	184.9
70°	2215.3	1556.6	191.0	159.3	166.4	194.2	243.8	227.2	196.2	181.1	178.7
72.5°	1685.3	1160.7	148.1	143.5	151.1	195.6	257.3	222.6	185.2	200.2	198.5
75°	963.8	637.2	118.9	124.1	132.0	182.8	250.4	210.6	176.8	183.9	183.9
77.5°	367.5	245.0	98.2	105.1	106.1	159.6	239.5	209.8	168.3	164.2	149.8
80°	127.4	95.7	81.3	83.4	82.1	141.9	229.7	182.4	137.8	123.3	119.2
82.5°	52.1	47.8	64.4	61.6	58.4	110.2	185.5	149.2	112.6	99.5	98.5
85°	22.7	30.2	42.5	37.4	33.8	76.4	148.6	126.3	95.2	82.1	81.8
87.5°	4.6	11.5	18.0	16.9	17.4	51.0	105.6	89.8	67.3	50.4	39.6
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)