

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: P959861

Luminaire Tested: **NAV-SB1B-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

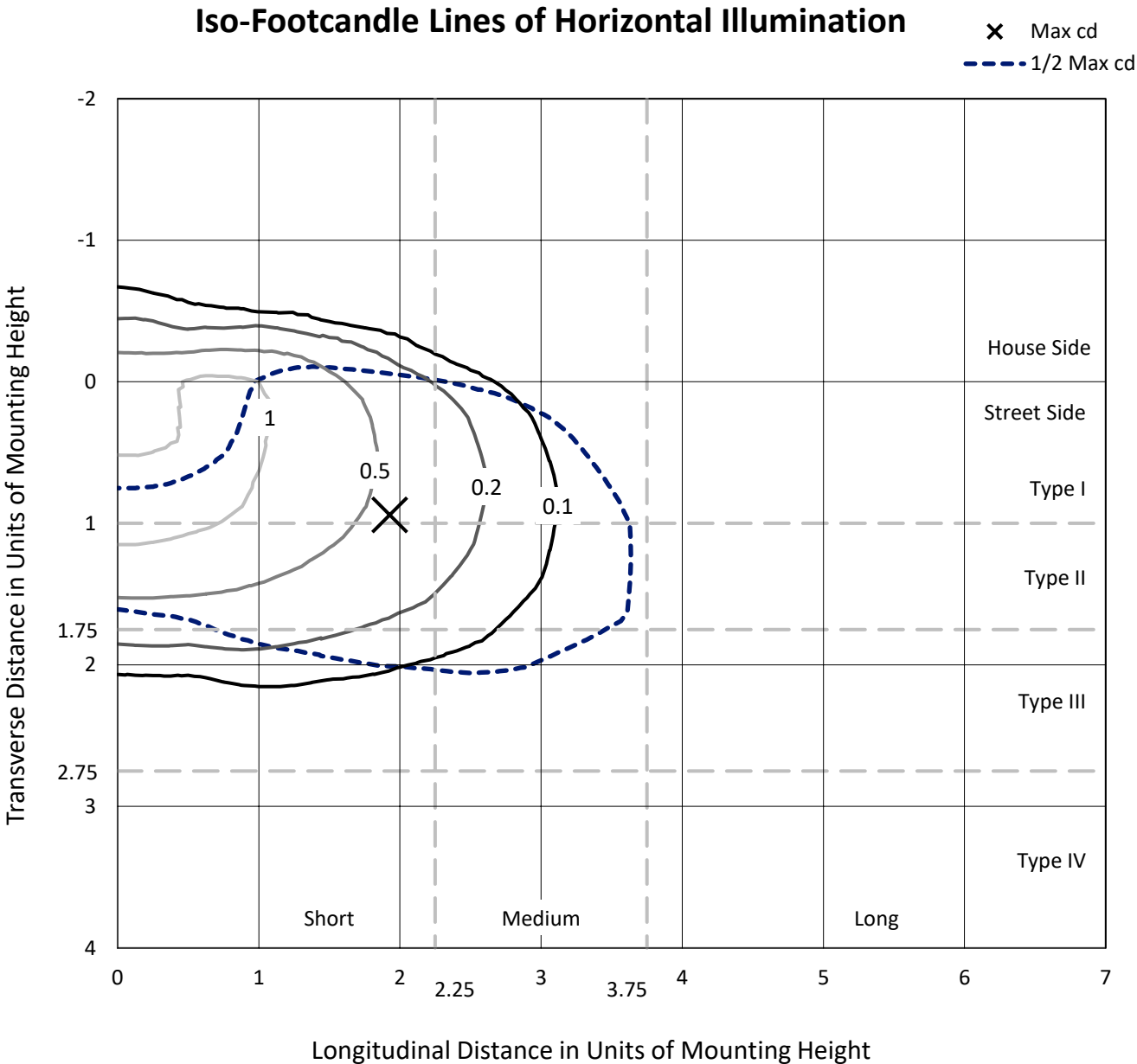
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4790.8 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

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



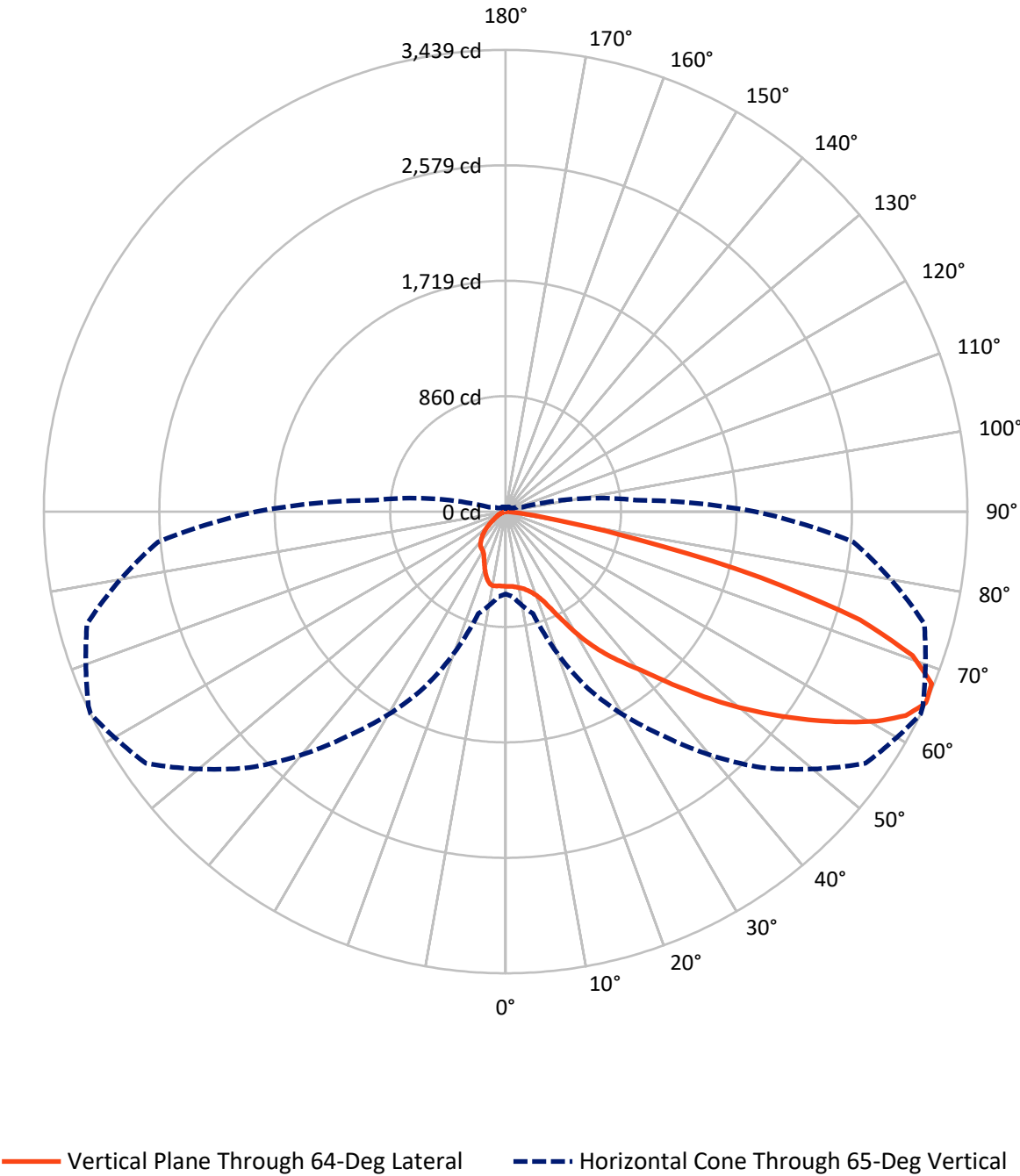
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Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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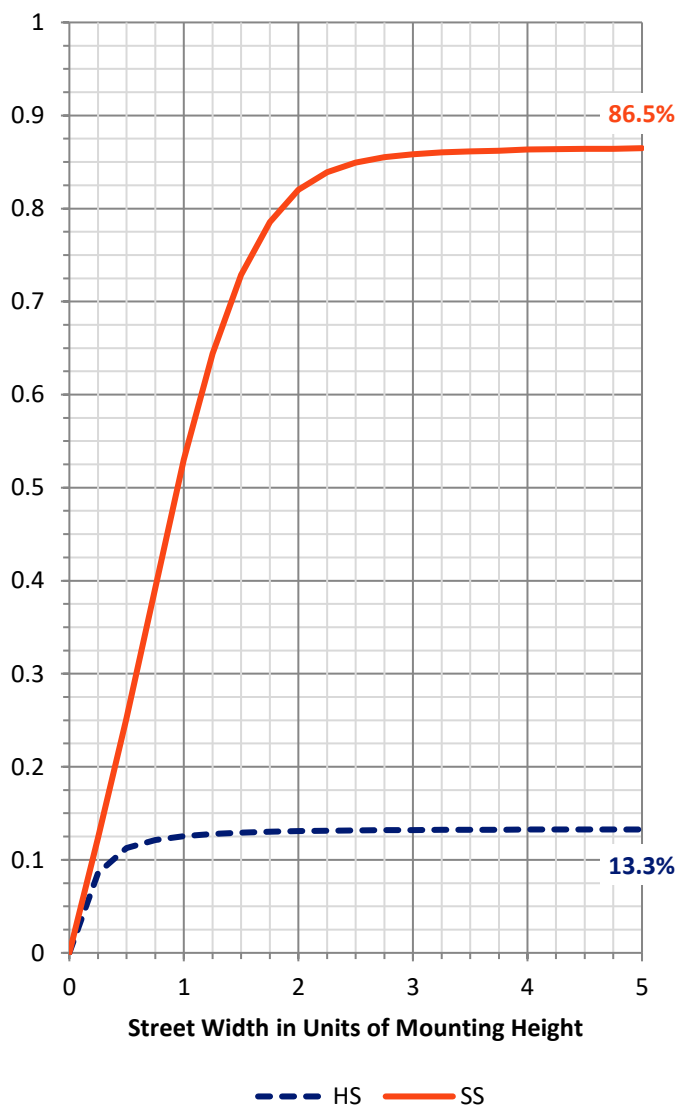
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.7	0.0	640.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4150.2	0.0	4150.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	4790.8	0.0	4790.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.1
10°-20°	139.4	2.9
20°-30°	264.2	5.5
30°-40°	534.7	11.2
40°-50°	910.8	19.0
50°-60°	1238.6	25.9
60°-70°	1163.1	24.3
70°-80°	466.0	9.7
80°-90°	22.6	0.5
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°	4790.8	100.0
0°-180°	4790.8	100.0

Coefficient of Utilization



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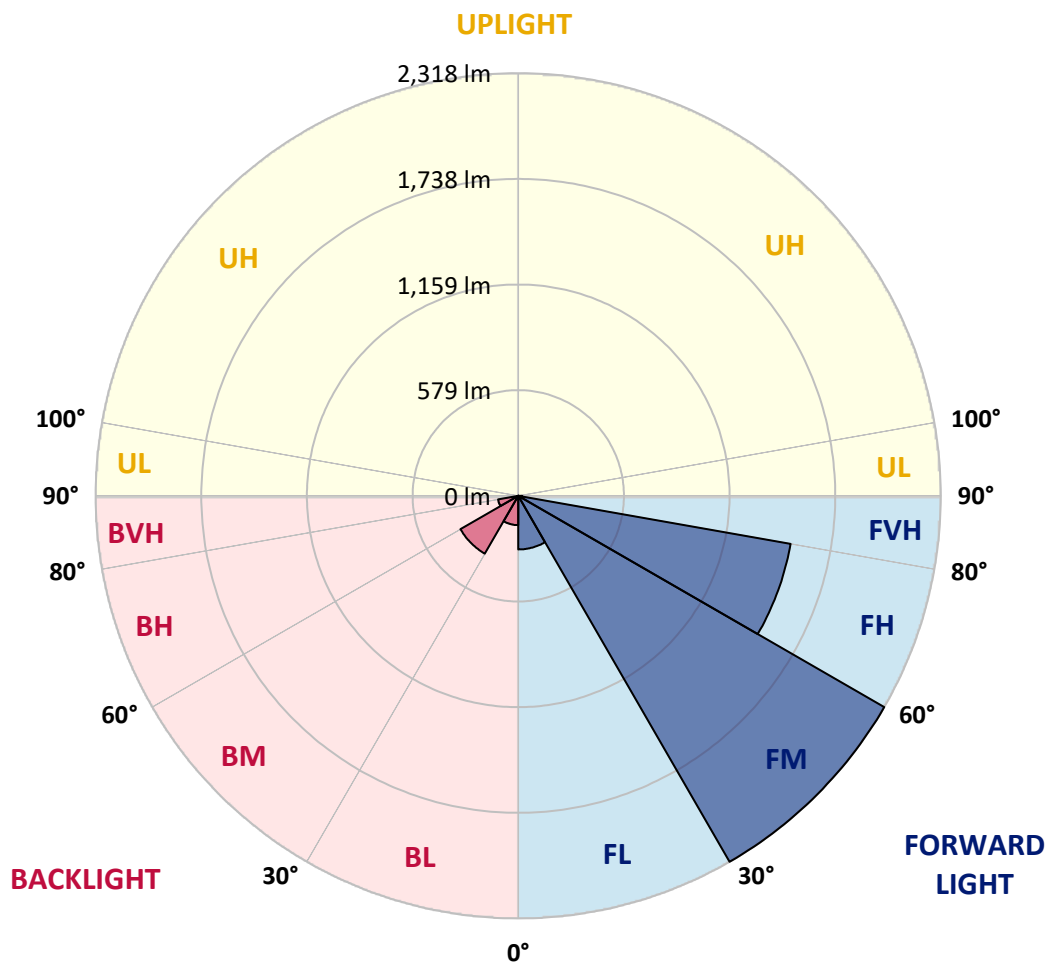
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	294.2	6.1			
FM	(30°-60°)	2317.8	48.4			
FH	(60°-80°)	1516.7	31.7			G1/1800
FVH	(80°-90°)	21.5	0.4			G1/100
BL	(0°-30°)	160.9	3.4	B1/500		
BM	(30°-60°)	366.3	7.6	B1/1000		
BH	(60°-80°)	112.4	2.3	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	555.3	559.1	558.2	557.2	556.9	557.5	557.9	557.5	557.5	557.5	557.9
5°	544.7	547.9	547.9	550.1	553.4	557.2	560.2	560.8	561.4	562.3	562.0
7.5°	524.5	527.1	529.0	536.4	544.4	554.6	563.3	567.8	568.5	571.9	573.3
10°	510.7	513.8	517.1	524.8	536.4	551.8	566.5	577.5	579.0	587.4	591.2
12.5°	510.0	513.2	517.4	525.7	539.3	555.7	573.6	589.4	592.2	604.4	612.4
15°	516.8	520.6	524.5	534.7	549.2	569.1	588.3	607.9	610.9	628.2	636.8
17.5°	530.5	535.7	538.6	548.9	564.3	586.4	611.8	634.3	636.8	657.1	668.0
20°	557.9	564.0	565.0	573.3	588.3	612.1	642.4	670.2	673.5	696.6	708.8
22.5°	614.4	623.1	615.3	619.5	633.0	656.8	689.5	724.9	729.4	755.7	766.6
25°	713.9	726.1	706.2	699.2	705.0	729.7	770.8	815.5	820.6	841.7	847.3
27.5°	909.6	893.8	863.7	834.0	816.7	830.9	877.1	932.3	938.8	959.3	952.9
30°	1124.4	1110.6	1069.8	1004.3	963.2	960.9	1003.7	1065.3	1072.7	1092.2	1072.7
32.5°	1339.6	1326.5	1282.1	1201.5	1130.2	1094.9	1124.4	1192.8	1196.7	1209.2	1180.3
35°	1551.2	1537.7	1493.4	1410.9	1323.2	1242.9	1237.2	1314.3	1315.5	1328.7	1285.7
37.5°	1764.1	1753.0	1705.7	1624.8	1538.4	1427.6	1373.9	1429.2	1430.8	1443.6	1399.0
40°	1916.1	1921.0	1888.5	1825.8	1751.6	1630.6	1527.5	1551.5	1541.9	1563.4	1536.8
42.5°	2046.5	2056.1	2027.9	1996.4	1953.3	1846.7	1717.6	1713.4	1698.0	1709.6	1681.9
45°	2159.2	2167.3	2141.8	2134.5	2133.5	2058.7	1925.4	1900.4	1878.8	1876.6	1843.5
47.5°	2200.7	2216.0	2227.0	2251.7	2299.9	2268.4	2140.3	2101.4	2077.3	2059.6	2007.3
50°	2216.4	2232.8	2270.0	2341.9	2456.0	2469.4	2354.1	2310.5	2280.9	2248.8	2171.8
52.5°	2195.1	2224.5	2274.5	2395.6	2561.0	2630.7	2559.4	2521.2	2487.5	2435.1	2320.8
55°	2070.3	2099.5	2201.9	2394.9	2613.3	2743.7	2753.4	2736.3	2698.4	2615.9	2441.2
57.5°	1806.9	1850.2	2012.5	2313.3	2612.4	2841.1	2943.5	2955.7	2913.4	2795.1	2536.0
60°	1442.1	1500.8	1698.6	2132.5	2531.8	2893.7	3110.2	3171.2	3126.2	2971.8	2612.7
62.5°	1006.2	1074.3	1261.6	1849.3	2347.5	2855.9	3231.9	3344.7	3310.5	3129.7	2642.2
65°	613.8	635.6	786.6	1455.2	2033.9	2697.2	3269.4	3438.5	3427.2	3226.5	2598.6
67.5°	408.9	427.1	470.5	997.8	1578.9	2380.2	3179.5	3422.1	3425.2	3210.7	2438.6
70°	246.3	262.1	290.4	580.4	1023.3	1884.0	2901.1	3213.3	3231.9	3000.4	2135.5
72.5°	101.5	112.1	137.8	263.0	529.9	1195.7	2310.1	2758.8	2802.1	2522.7	1638.9
75°	57.5	62.9	81.0	132.0	229.9	557.2	1399.3	1958.5	2022.4	1738.8	985.9
77.5°	38.2	40.8	52.4	85.4	129.5	190.1	598.0	1020.4	1142.4	949.7	426.8
80°	25.7	28.0	36.0	57.2	84.2	81.6	190.4	378.0	465.0	326.3	104.0
82.5°	17.3	17.6	25.7	37.6	53.3	39.5	56.2	117.6	147.7	94.4	39.5
85°	9.9	9.6	19.0	21.8	23.8	16.4	17.0	35.4	46.2	39.9	22.4
87.5°	1.3	1.9	7.4	5.7	3.2	3.5	3.5	6.1	9.0	9.6	4.8
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°	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2	557.2
2.5°	557.9	557.5	556.6	555.7	553.4	552.1	552.7	552.1	551.8	552.1	553.4
5°	562.0	561.1	558.5	555.3	550.8	545.3	541.8	536.7	531.9	529.0	529.6
7.5°	573.3	572.4	568.8	559.8	545.3	522.5	501.6	483.4	469.6	461.6	461.9
10°	591.2	589.7	584.2	564.3	526.4	476.6	435.2	400.8	378.3	367.8	366.7
12.5°	612.4	610.5	600.9	560.2	490.5	412.7	355.6	317.3	296.4	287.1	286.2
15°	637.6	635.0	616.0	540.2	438.1	342.0	289.7	261.1	247.6	239.2	239.5
17.5°	668.7	664.2	627.2	510.3	381.2	288.1	249.2	227.8	215.9	207.8	207.2
20°	709.1	701.7	636.2	474.7	328.9	254.0	221.9	204.0	195.0	187.9	186.5
22.5°	765.7	755.0	647.2	436.1	291.9	230.6	201.7	188.5	181.1	173.1	171.8
25°	835.7	823.2	660.6	400.5	266.6	210.3	187.0	176.0	167.3	158.1	157.0
27.5°	933.7	911.1	676.7	371.3	244.8	193.0	173.4	161.2	151.3	143.6	142.0
30°	1042.8	1005.9	690.8	353.6	224.8	176.9	155.8	143.6	134.3	128.7	127.8
32.5°	1146.3	1096.1	700.2	345.9	206.8	158.7	136.5	123.3	116.2	114.7	115.6
35°	1243.8	1177.7	699.2	338.6	190.8	140.3	117.6	104.0	98.6	99.5	99.5
37.5°	1356.3	1264.7	692.4	327.0	177.6	123.6	101.2	89.3	84.5	84.8	86.1
40°	1487.0	1365.3	688.3	305.1	163.2	108.2	87.6	78.0	74.5	73.2	72.9
42.5°	1626.4	1462.6	688.9	280.3	145.1	94.4	78.4	70.3	67.1	66.1	65.8
45°	1766.4	1555.4	689.8	254.7	126.2	83.8	71.6	64.9	62.9	61.7	61.7
47.5°	1898.1	1634.5	671.9	227.0	107.6	75.7	66.1	61.7	60.1	58.4	58.4
50°	2020.8	1687.0	628.5	195.0	92.9	69.4	62.0	58.7	57.2	55.6	55.6
52.5°	2116.2	1695.5	556.9	161.8	82.5	64.6	59.4	56.5	54.6	53.0	52.7
55°	2158.5	1643.1	455.1	131.0	74.5	60.4	56.9	53.9	51.7	50.1	49.8
57.5°	2147.7	1532.9	354.9	105.4	66.8	56.2	53.6	51.7	49.1	46.5	46.2
60°	2094.0	1385.5	267.5	87.6	59.8	51.7	50.1	48.5	45.0	41.1	40.5
62.5°	2001.2	1200.2	190.8	72.6	52.1	46.5	45.9	44.7	39.5	32.4	31.8
65°	1859.2	975.1	128.4	60.4	44.7	40.8	41.1	38.8	32.1	24.1	23.5
67.5°	1651.8	713.0	82.2	49.5	37.2	34.0	34.3	33.1	27.3	20.6	19.6
70°	1387.4	472.1	53.6	37.6	29.8	26.3	28.3	28.6	23.2	16.7	16.1
72.5°	1017.1	278.8	37.6	28.0	21.8	18.3	23.2	23.8	18.7	12.5	11.9
75°	579.7	132.3	28.3	20.2	13.5	12.8	17.9	17.9	12.8	8.3	7.7
77.5°	243.4	55.2	19.9	13.1	7.7	7.4	12.2	11.3	6.5	3.9	3.9
80°	70.3	24.7	10.6	6.5	3.2	2.9	4.8	3.5	1.6	0.6	0.6
82.5°	27.6	11.0	4.2	2.6	1.3	1.3	0.6	0.0	0.0	0.0	0.0
85°	16.4	4.5	1.9	0.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)