

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: P970824

Luminaire Tested: **NAV-SB6C-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-727-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32951.7 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

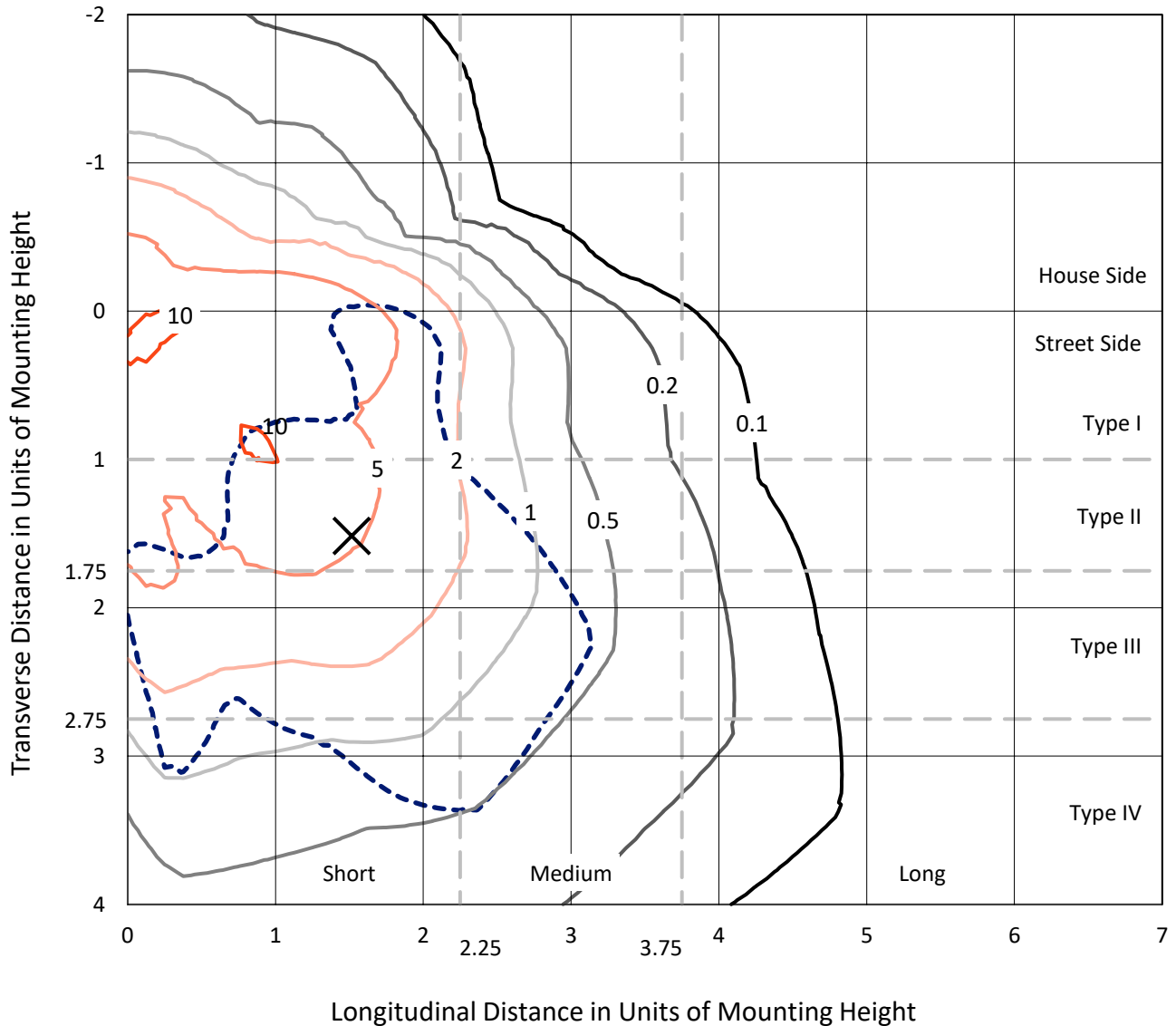
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

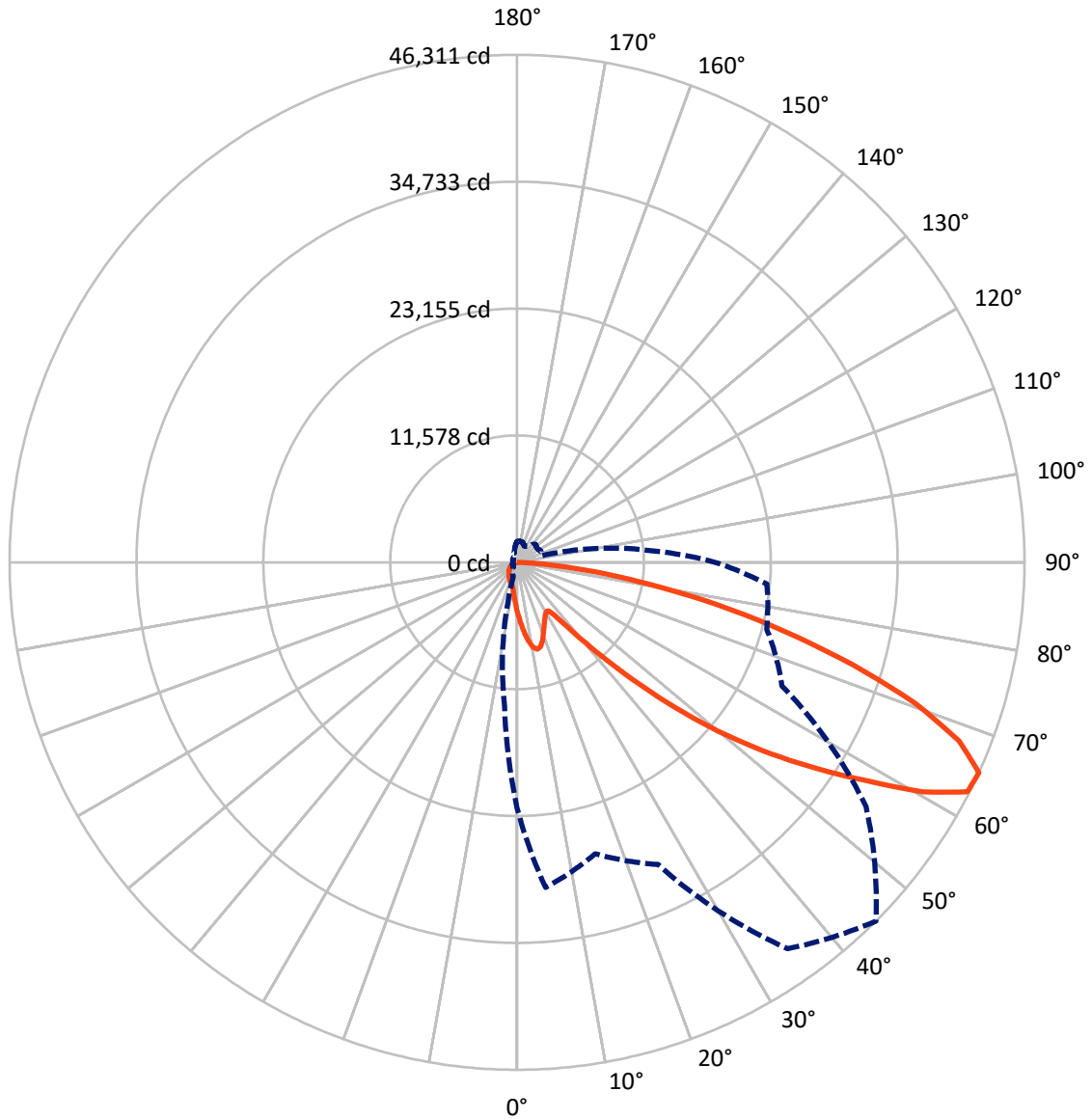
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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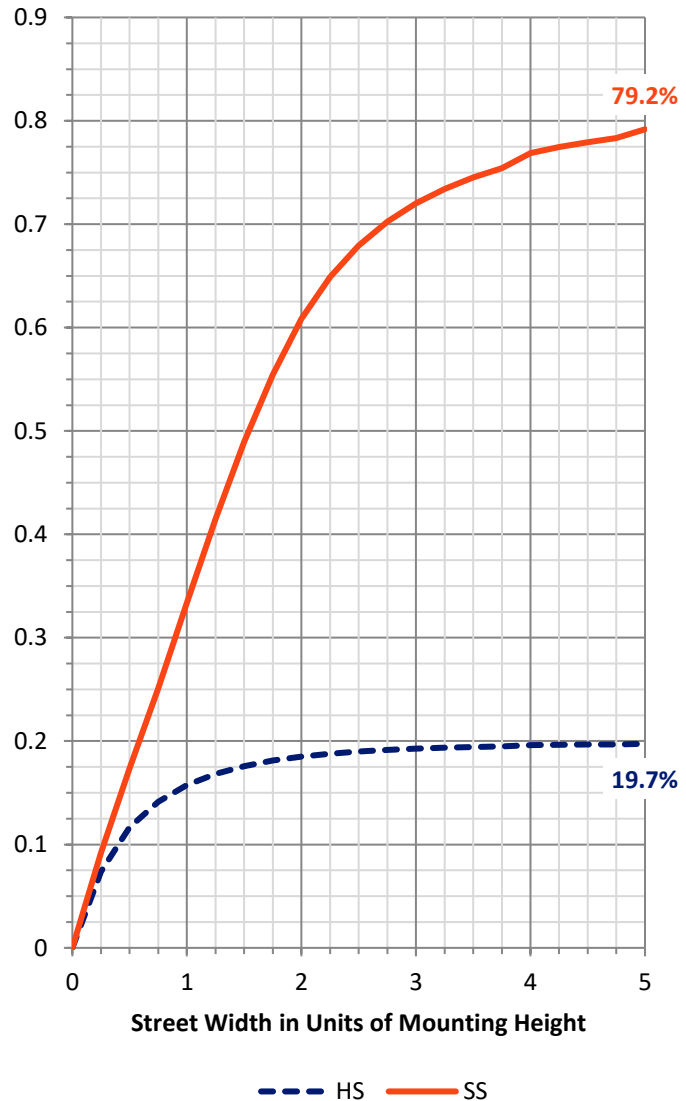
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6549.8	0.0	6549.8
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	26401.9	0.0	26401.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	32951.7	0.0	32951.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	1.4
10°-20°	1346.6	4.1
20°-30°	1983.9	6.0
30°-40°	2548.7	7.7
40°-50°	4122.0	12.5
50°-60°	7228.4	21.9
60°-70°	9044.7	27.4
70°-80°	5285.3	16.0
80°-90°	943.0	2.9
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°	32951.7	100.0
0°-180°	32951.7	100.0

Coefficient of Utilization



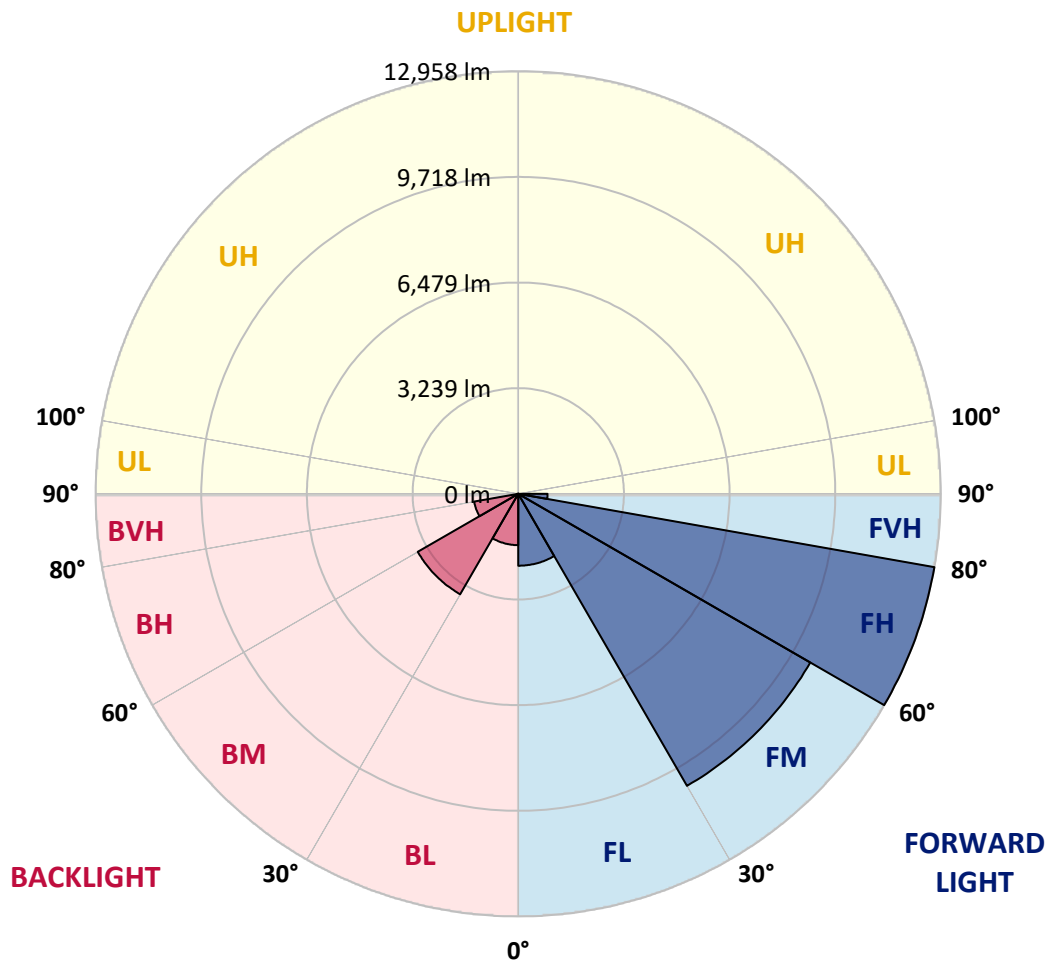
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.9	6.7			
FM (30°-60°)	10340.6	31.4			
FH (60°-80°)	12957.6	39.3			G5
FVH (80°-90°)	898.8	2.7			G5
BL (0°-30°)	1574.8	4.8	B3/2500		
BM (30°-60°)	3558.5	10.8	B3/5000		
BH (60°-80°)	1372.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	44.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8
2.5°	5112.1	5150.7	5236.9	5282.3	5352.8	5357.3	5357.3	5296.0	5293.7	5168.9	5155.2
5°	5713.7	5804.5	6008.8	6219.9	6265.3	6276.6	6253.9	6131.3	6040.5	5797.6	5745.4
7.5°	6310.7	6485.5	6796.5	7077.9	7168.7	7168.7	7114.2	6914.5	6728.4	6376.5	6244.8
10°	6805.6	7025.8	7448.0	7763.5	7867.9	7845.2	7734.0	7482.0	7225.5	6798.7	6626.2
12.5°	7132.5	7379.9	7843.0	8097.2	8203.9	8144.9	8017.8	7772.6	7502.5	7053.0	6857.8
15°	7295.8	7554.7	7956.5	8090.4	8060.9	7999.6	7983.7	7865.6	7661.4	7241.4	7028.0
17.5°	7366.3	7606.8	7886.0	7802.1	7552.4	7504.7	7663.6	7813.5	7763.5	7404.8	7205.0
20°	7432.1	7634.1	7718.0	7345.8	6909.9	6866.9	7171.0	7597.8	7815.7	7556.9	7373.0
22.5°	7522.9	7647.7	7475.2	6864.5	6394.7	6294.8	6630.7	7273.2	7831.6	7749.9	7566.0
25°	7647.7	7681.8	7207.3	6408.3	5936.1	5836.2	6149.5	6912.2	7804.4	7958.7	7802.1
27.5°	7797.6	7727.2	6950.8	6026.9	5570.7	5477.6	5790.8	6564.9	7727.2	8167.6	8056.3
30°	7992.7	7786.2	6696.6	5731.8	5309.6	5241.5	5543.4	6265.3	7631.8	8433.2	8371.9
32.5°	8190.3	7811.1	6460.5	5559.3	5250.6	5275.6	5523.0	6104.1	7527.4	8687.4	8716.9
35°	8403.7	7890.7	6344.7	5729.5	5743.2	5961.1	6063.3	6253.9	7511.5	9032.4	9148.2
37.5°	8694.3	8067.7	6483.2	6576.3	7048.4	7500.1	7416.2	6987.1	7695.4	9547.8	9763.4
40°	9111.9	8378.7	7087.1	8017.8	8987.0	9720.3	9400.2	8319.6	8258.3	10290.1	10612.3
42.5°	9720.3	8873.5	8158.5	9779.3	11422.8	12630.5	11772.3	10038.0	9243.6	11350.1	11761.1
45°	10619.2	9674.9	9454.7	11638.5	14426.1	16328.4	14544.0	11870.0	10623.7	12955.1	13277.4
47.5°	11865.4	10853.0	10669.1	13597.4	18076.2	20536.9	17617.7	13567.9	12194.6	15143.4	15218.3
50°	13520.3	12439.7	11820.0	15740.4	22078.3	24827.3	20689.0	15206.9	13994.7	17817.5	17731.2
52.5°	15704.0	14653.0	13161.6	17781.1	26193.9	29026.9	23774.0	16646.1	16228.4	20920.6	20743.5
55°	18682.4	17983.1	14995.9	19728.8	30307.1	33251.4	26738.7	18003.6	19179.5	24607.1	23535.6
57.5°	22377.9	22877.4	17640.4	21987.5	34005.0	37605.3	29716.9	19901.3	23011.2	28729.5	25156.5
60°	24761.4	29385.5	22704.8	25326.7	38206.9	42529.0	33798.5	23510.6	27038.3	30207.3	24847.7
62.5°	24184.9	31455.8	28770.3	29589.8	42070.4	46108.8	37798.2	27136.0	27796.5	28030.3	22468.7
65°	22416.5	29785.1	27533.1	30418.4	43048.8	46310.8	38867.4	26668.2	23578.8	22884.1	18060.3
67.5°	19983.1	27803.3	24593.4	28221.0	41280.4	43487.0	36876.6	23590.2	18221.5	17172.7	13102.6
70°	17356.6	25610.4	22664.0	25755.7	37909.4	38565.5	33492.0	20748.0	13402.3	11597.6	8408.2
72.5°	14864.1	23326.8	21342.8	23229.2	33412.5	32055.0	29085.9	18235.2	9758.8	8365.0	5977.0
75°	12314.9	19958.1	19461.0	20228.2	27499.1	25249.5	24166.7	15097.9	7659.1	6051.9	4124.6
77.5°	9502.4	15595.1	16739.2	16198.9	19356.5	18754.9	18732.3	11345.6	5595.6	4038.4	2585.6
80°	6503.6	10868.9	13077.7	11427.3	12562.3	12255.9	14108.2	7611.4	4058.8	2431.2	1439.2
82.5°	3822.7	6617.1	9102.8	5532.0	6946.3	7130.2	8401.4	3702.4	2388.0	560.7	313.2
85°	1550.4	2612.8	3559.4	2165.6	3350.5	2826.2	3189.4	1039.7	665.1	13.6	0.0
87.5°	390.4	835.4	585.7	242.9	388.2	356.4	281.5	127.1	27.3	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8
2.5°	5066.7	5014.5	4885.2	4755.7	4651.2	4510.5	4417.4	4306.2	4199.5	4104.2	4086.1
5°	5602.4	5429.9	5193.8	4978.2	4757.9	4544.6	4333.5	4111.1	3906.7	3781.8	3702.4
7.5°	6038.3	5734.1	5420.8	5146.1	4880.5	4630.8	4351.6	4081.6	3761.4	3591.2	3436.8
10°	6362.9	5963.3	5552.5	5236.9	4969.1	4726.2	4490.1	4217.7	3831.8	3618.5	3386.9
12.5°	6576.3	6101.8	5620.6	5259.7	4960.0	4771.6	4667.1	4560.5	4176.9	3927.2	3591.2
15°	6723.8	6199.4	5668.2	5207.4	4839.7	4701.3	4805.6	4928.2	4683.0	4394.8	3956.7
17.5°	6885.0	6326.6	5688.6	5066.7	4605.8	4546.9	4817.0	5100.7	5089.4	4803.4	4374.4
20°	7055.3	6437.8	5675.1	4839.7	4322.1	4374.4	4719.4	5048.5	5187.0	5032.6	4651.2
22.5°	7230.0	6544.5	5622.8	4544.6	4056.5	4220.0	4565.0	4853.3	5016.8	4969.1	4678.5
25°	7450.2	6694.3	5545.7	4226.8	3836.4	4063.3	4385.7	4619.5	4733.0	4730.8	4531.0
27.5°	7713.5	6894.0	5504.9	3970.2	3679.7	3886.3	4172.3	4381.2	4460.6	4460.6	4301.7
30°	8020.0	7130.2	5459.5	3802.3	3588.9	3702.4	3924.8	4129.2	4208.6	4208.6	4074.7
32.5°	8360.5	7357.1	5350.5	3700.1	3520.8	3523.1	3663.9	3850.0	3945.3	3959.0	3863.6
35°	8769.1	7600.1	5112.1	3618.5	3441.3	3348.3	3416.4	3570.8	3684.3	3713.8	3654.7
37.5°	9304.8	7897.4	4771.6	3498.1	3318.7	3164.4	3180.3	3298.3	3423.2	3468.6	3430.1
40°	10024.4	8247.0	4417.4	3325.6	3146.2	2962.4	2955.6	3041.8	3164.4	3214.4	3193.9
42.5°	10975.6	8667.0	4079.2	3159.9	2937.4	2749.0	2737.7	2805.7	2912.4	2964.6	2955.6
45°	12192.3	9182.3	3788.7	3030.5	2733.2	2547.0	2542.4	2599.2	2692.3	2746.7	2735.4
47.5°	13883.5	9697.5	3591.2	2962.4	2571.9	2381.3	2390.3	2440.3	2524.3	2562.9	2547.0
50°	16087.7	9854.1	3491.3	2962.4	2485.7	2233.7	2279.1	2320.0	2383.5	2406.2	2385.8
52.5°	18203.4	9336.6	3400.5	2980.6	2497.0	2108.8	2206.5	2235.9	2290.5	2299.6	2270.1
55°	19240.8	8026.8	3275.7	2985.1	2567.4	2002.1	2147.5	2201.9	2222.4	2220.0	2170.1
57.5°	18884.4	6490.0	3064.5	2967.0	2615.1	1934.1	2074.8	2179.3	2192.9	2172.4	2079.3
60°	17633.6	4778.4	2903.4	2833.0	2596.9	1913.7	1963.6	2129.3	2149.7	2122.5	1970.4
62.5°	15536.0	3316.5	2778.5	2537.9	2517.5	1906.8	1788.8	2020.3	2070.3	2031.7	1809.2
65°	12230.9	2342.6	2392.7	2224.7	2344.9	1870.5	1607.2	1888.7	1956.7	1897.8	1584.4
67.5°	8276.6	1691.1	1938.6	2015.8	2065.7	1788.8	1475.5	1738.8	1829.6	1752.4	1323.4
70°	4469.7	1187.3	1280.3	1698.0	1754.7	1648.0	1357.5	1586.7	1691.1	1607.2	1078.3
72.5°	2640.1	853.5	896.7	1364.3	1461.9	1450.6	1225.8	1409.7	1536.8	1436.9	876.3
75°	1455.1	576.6	640.1	989.7	1187.3	1119.1	1053.3	1194.0	1323.4	1225.8	676.5
77.5°	651.5	345.0	445.0	649.2	933.0	767.3	815.0	930.7	1051.0	948.8	451.7
80°	251.9	192.9	295.1	354.1	678.8	424.5	524.4	685.5	771.8	690.1	274.7
82.5°	31.8	86.3	127.1	138.5	395.0	224.8	304.2	431.3	424.5	367.8	138.5
85°	0.0	15.9	18.1	9.1	170.3	81.7	99.8	140.7	131.7	99.8	11.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	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

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8
2.5°	3974.8	3893.1	3852.3	3818.2	3850.0	3868.1	3868.1	3945.3	3990.7	4008.9	4136.0
5°	3502.6	3350.5	3248.4	3187.1	3207.5	3230.3	3255.2	3352.9	3418.7	3461.8	3659.2
7.5°	3130.4	2898.8	2755.8	2680.9	2692.3	2708.2	2728.5	2823.9	2889.8	2946.5	3166.7
10°	2946.5	2619.6	2431.2	2340.4	2324.5	2315.5	2308.6	2365.4	2415.3	2460.7	2678.6
12.5°	2955.6	2499.3	2270.1	2158.8	2111.1	2056.7	2013.5	2022.6	2054.4	2111.1	2249.6
15°	3071.3	2460.7	2186.0	2047.5	1968.1	1904.6	1852.4	1841.0	1852.4	1861.4	1947.7
17.5°	3227.9	2456.2	2113.3	1940.8	1859.1	1807.0	1759.3	1743.4	1745.7	1757.0	1779.7
20°	3352.9	2442.6	2031.7	1838.7	1766.1	1720.7	1673.0	1657.1	1661.6	1663.9	1688.9
22.5°	3418.7	2422.1	1940.8	1736.6	1675.3	1629.9	1586.7	1584.4	1584.4	1598.1	1616.2
25°	3418.7	2379.0	1859.1	1639.0	1584.4	1543.6	1491.4	1500.5	1505.0	1523.1	1550.4
27.5°	3337.0	2297.2	1793.3	1554.9	1498.2	1457.3	1409.7	1421.1	1427.8	1448.3	1482.4
30°	3232.5	2199.6	1718.4	1475.5	1409.7	1380.2	1339.4	1343.9	1352.9	1375.7	1414.2
32.5°	3121.3	2083.9	1657.1	1396.0	1330.2	1307.5	1262.2	1268.9	1278.1	1303.0	1346.1
35°	2998.7	1947.7	1584.4	1323.4	1257.6	1239.4	1187.3	1191.8	1205.4	1232.7	1275.7
37.5°	2869.3	1836.5	1511.9	1253.1	1185.0	1166.8	1112.3	1116.8	1132.7	1164.5	1205.4
40°	2742.2	1727.5	1434.7	1178.1	1110.1	1094.2	1035.1	1039.7	1057.8	1091.9	1135.0
42.5°	2603.7	1643.5	1334.8	1101.0	1028.3	1012.4	958.0	964.7	985.2	1019.3	1062.4
45°	2438.0	1589.1	1223.5	1028.3	946.6	930.7	880.8	894.4	917.1	951.1	996.5
47.5°	2267.7	1566.3	1130.5	951.1	862.6	849.0	808.1	830.9	855.8	883.0	933.0
50°	2104.3	1536.8	1035.1	878.5	790.0	776.3	749.1	778.6	803.6	828.6	876.3
52.5°	1918.2	1473.2	948.8	815.0	728.7	724.2	710.5	737.8	760.4	783.2	824.0
55°	1725.2	1371.1	873.9	758.2	676.5	681.0	674.2	696.9	715.0	735.5	771.8
57.5°	1557.3	1241.7	815.0	696.9	631.1	644.7	635.6	647.0	658.4	683.3	712.8
60°	1387.0	1087.3	749.1	624.2	585.7	601.6	576.6	574.3	578.8	585.7	640.1
62.5°	1157.7	926.2	667.4	560.7	535.8	542.5	494.9	458.6	458.6	465.4	547.0
65°	930.7	776.3	576.6	488.1	467.6	463.1	395.0	345.0	340.5	360.9	431.3
67.5°	765.0	644.7	485.7	406.3	392.7	397.3	347.3	297.4	292.8	315.5	367.8
70°	633.3	519.9	388.2	313.2	326.9	347.3	297.4	249.7	242.9	263.3	313.2
72.5°	504.0	406.3	297.4	231.5	270.1	295.1	242.9	197.5	192.9	211.2	258.8
75°	370.0	290.6	202.0	168.0	208.8	231.5	177.0	140.7	134.0	149.9	197.5
77.5°	229.3	163.5	127.1	99.8	143.0	154.4	93.1	81.7	79.4	90.8	124.8
80°	106.7	70.4	61.3	34.0	52.2	61.3	38.5	43.2	45.4	54.5	77.2
82.5°	29.5	11.4	2.3	0.0	0.0	18.1	9.1	18.1	22.7	34.0	49.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	11.4	20.4	36.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	18.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8	4562.8
2.5°	4231.3	4322.1	4467.5	4617.2	4764.8	4914.6	5059.9	5112.1
5°	3838.6	4047.4	4335.8	4644.5	4962.2	5284.6	5579.7	5713.7
7.5°	3400.5	3700.1	4133.7	4617.2	5123.5	5629.7	6095.1	6310.7
10°	2932.8	3312.0	3806.8	4460.6	5187.0	5886.2	6526.4	6805.6
12.5°	2488.0	2885.2	3432.3	4215.4	5137.1	6033.8	6803.2	7132.5
15°	2115.7	2467.5	3057.7	3924.8	4975.9	6042.8	6934.9	7295.8
17.5°	1836.5	2065.7	2676.4	3602.6	4764.8	5958.8	6980.4	7366.3
20°	1698.0	1761.6	2181.5	3189.4	4567.3	5879.4	7025.8	7432.1
22.5°	1616.2	1632.1	1784.2	2656.0	4331.2	5854.4	7105.2	7522.9
25°	1550.4	1554.9	1595.8	2104.3	3970.2	5838.5	7227.8	7647.7
27.5°	1484.6	1484.6	1507.3	1695.8	3480.0	5770.4	7386.7	7797.6
30°	1418.8	1418.8	1434.7	1500.5	2905.7	5636.5	7577.3	7992.7
32.5°	1350.6	1350.6	1364.3	1411.9	2320.0	5468.5	7752.2	8190.3
35°	1282.6	1278.1	1296.2	1346.1	1845.5	5255.1	7926.9	8403.7
37.5°	1209.9	1207.7	1225.8	1282.6	1593.6	5007.6	8058.6	8694.3
40°	1132.7	1132.7	1153.1	1214.4	1520.9	4696.7	8267.4	9111.9
42.5°	1062.4	1057.8	1080.6	1155.5	1466.5	4399.3	8642.0	9720.3
45°	994.2	985.2	1005.6	1098.7	1371.1	4294.9	9341.1	10619.2
47.5°	930.7	908.0	926.2	1030.6	1284.8	4685.4	10485.2	11865.4
50°	878.5	835.4	851.3	962.5	1219.0	5532.0	11969.8	13520.3
52.5°	824.0	767.3	776.3	878.5	1160.0	6337.9	13579.3	15704.0
55°	767.3	703.7	708.3	794.5	1075.9	6458.2	15150.1	18682.4
57.5°	703.7	644.7	644.7	717.3	1014.7	5597.9	16357.8	22377.9
60°	633.3	594.7	583.4	656.0	1069.2	3949.8	16498.6	24761.4
62.5°	556.2	535.8	519.9	597.1	1110.1	2340.4	15365.8	24184.9
65°	467.6	463.1	451.7	656.0	935.2	1382.4	13191.1	22416.5
67.5°	392.7	385.9	385.9	687.8	710.5	869.4	10306.0	19983.1
70°	338.2	313.2	313.2	519.9	431.3	601.6	7196.0	17356.6
72.5°	283.7	256.6	238.3	415.4	322.4	440.3	4496.9	14864.1
75°	227.0	206.5	183.9	274.7	240.7	333.7	2612.8	12314.9
77.5°	163.5	154.4	129.4	202.0	174.8	240.7	1554.9	9502.4
80°	83.9	86.3	81.7	115.7	118.1	163.5	885.3	6503.6
82.5°	49.9	38.5	43.2	56.8	68.1	93.1	333.7	3822.7
85°	31.8	20.4	20.4	27.3	34.0	36.3	102.2	1550.4
87.5°	15.9	6.8	9.1	13.6	11.4	9.1	4.5	390.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)