

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: P971415

Luminaire Tested: **NAV-SB6D-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971415
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-SB6D-735-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48272.4 lumens
Efficiency: N/A
Efficacy: 109.7 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): 440.1
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



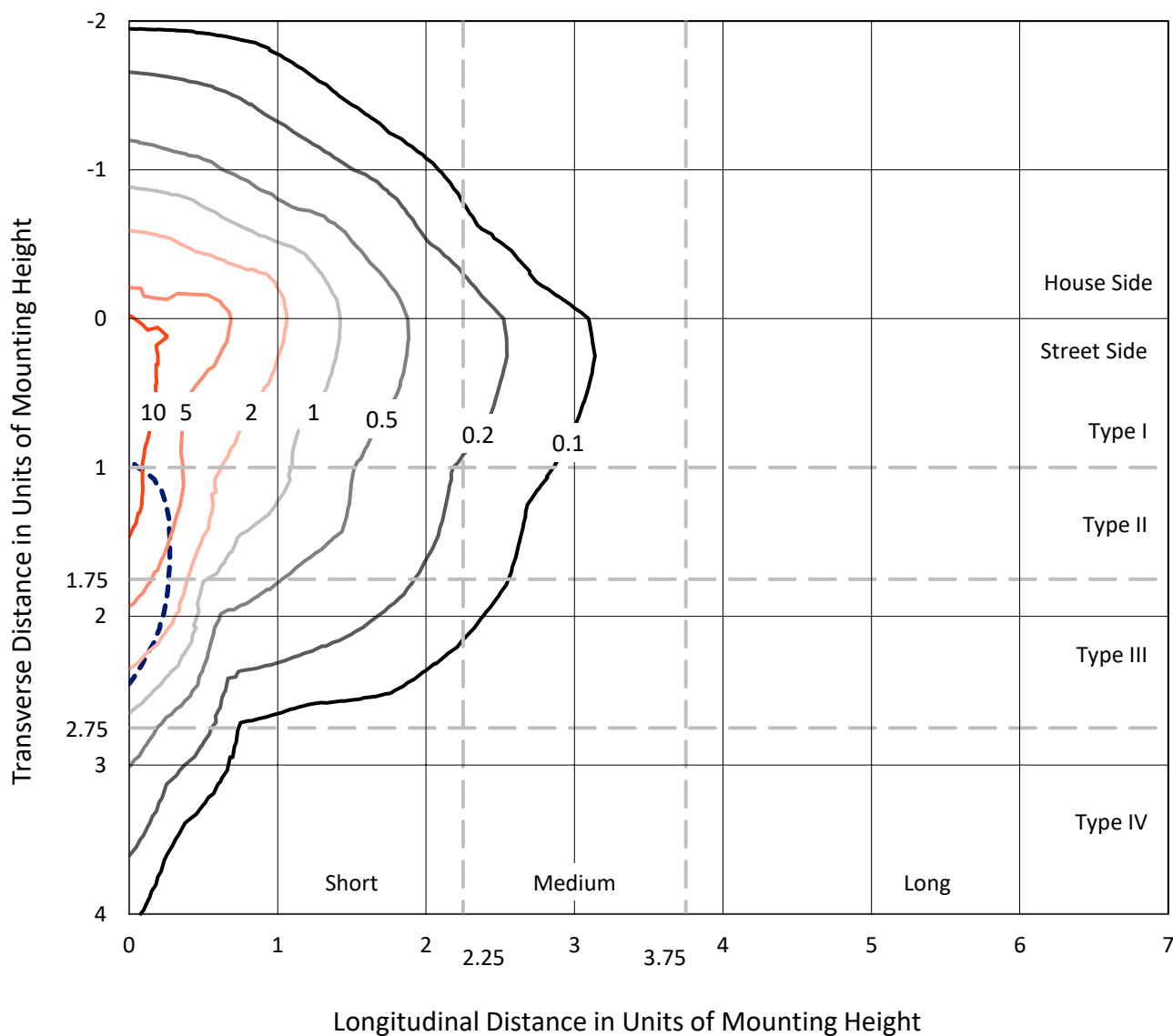
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

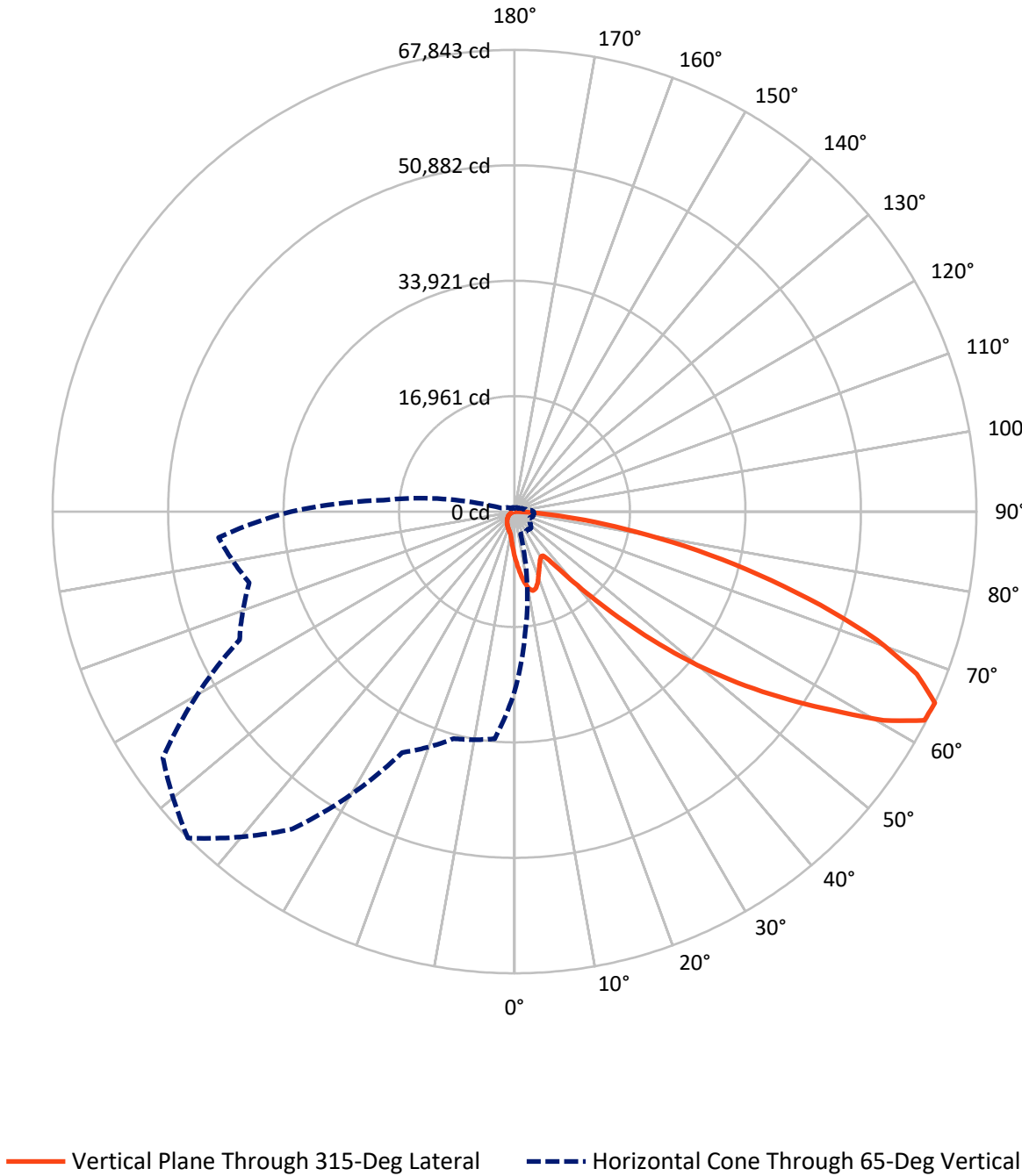


Based on 25 foot mounting height. Maximum calculated value = 14.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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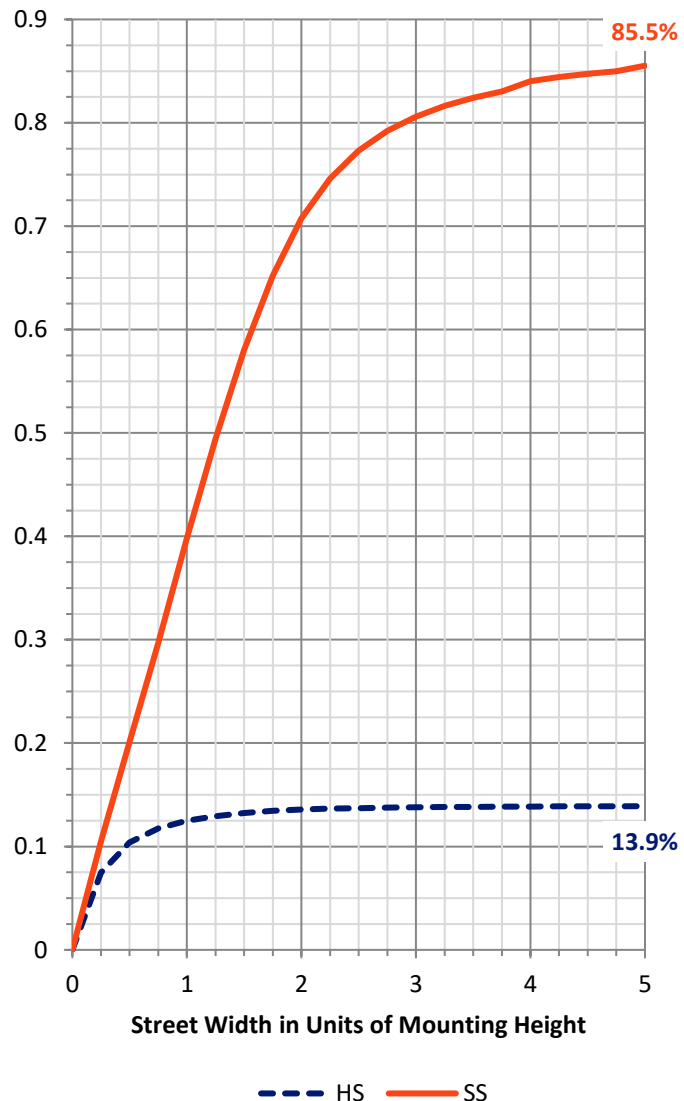
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6760.2	0.0	6760.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	41512.2	0.0	41512.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	48272.4	0.0	48272.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.1	1.4
10°-20°	1972.7	4.1
20°-30°	2906.2	6.0
30°-40°	3733.7	7.7
40°-50°	6038.5	12.5
50°-60°	10589.1	21.9
60°-70°	13249.9	27.4
70°-80°	7742.6	16.0
80°-90°	1381.4	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°	48272.4	100.0
0°-180°	48272.4	100.0

Coefficient of Utilization



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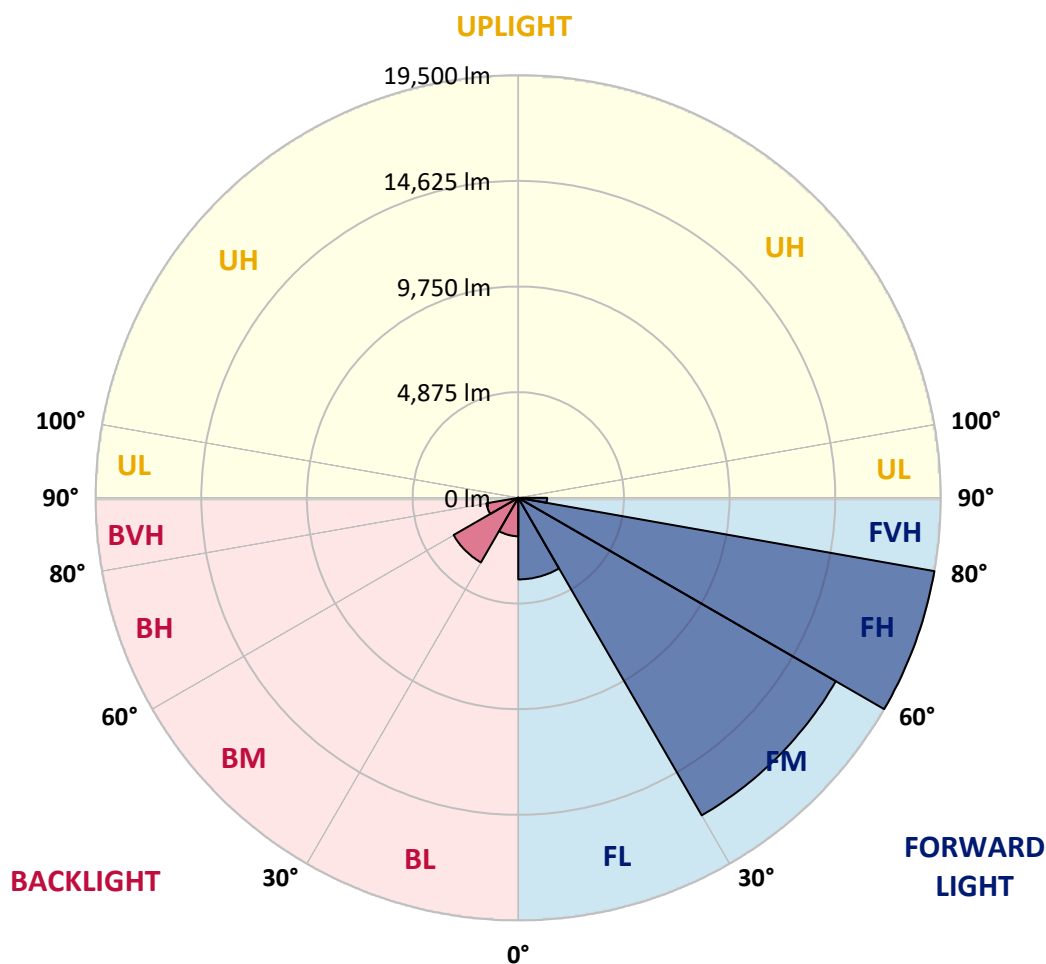
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3765.1	7.8			
FM	(30°-60°)	16918.9	35.0			
FH	(60°-80°)	19499.8	40.4			G5
FVH	(80°-90°)	1328.3	2.8			G5
BL	(0°-30°)	1772.0	3.7	B3/2500		
BM	(30°-60°)	3442.5	7.1	B3/5000		
BH	(60°-80°)	1492.7	3.1	B3/2500		G3/2500
BVH	(80°-90°)	53.1	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°	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2
2.5°	7552.1	7422.4	7346.0	7156.3	6966.8	6813.9	6607.7	6471.3	6308.4	6152.2	6012.4
5°	8416.8	8207.3	7954.5	7608.7	7292.8	6970.2	6657.6	6348.3	6022.4	5723.1	5540.2
7.5°	9148.3	8845.8	8400.1	7941.2	7538.8	7149.8	6784.0	6374.9	5979.1	5510.3	5260.9
10°	9707.1	9321.2	8736.0	8134.1	7671.8	7279.4	6923.6	6577.7	6178.7	5613.4	5300.8
12.5°	10046.2	9633.9	8938.8	8233.8	7705.1	7266.1	6990.1	6837.2	6680.8	6118.8	5753.0
15°	10295.6	9850.0	9081.8	8303.7	7628.6	7089.9	6887.1	7040.0	7219.6	6860.4	6438.1
17.5°	10555.0	10086.1	9268.0	8333.6	7422.4	6747.4	6660.9	7056.6	7472.4	7455.6	7036.7
20°	10801.1	10335.6	9431.0	8313.7	7089.9	6331.6	6408.2	6913.6	7395.8	7598.6	7372.5
22.5°	11083.7	10591.6	9587.3	8237.2	6657.6	5942.6	6182.1	6687.5	7109.8	7349.2	7279.4
25°	11429.6	10914.2	9806.8	8124.2	6192.0	5620.1	5952.6	6424.8	6767.4	6933.6	6930.2
27.5°	11802.1	11299.9	10099.4	8064.3	5816.3	5390.6	5693.2	6112.2	6418.1	6534.6	6534.6
30°	12264.3	11748.9	10445.3	7997.8	5570.2	5257.5	5423.8	5749.7	6049.0	6165.4	6165.4
32.5°	12769.8	12247.7	10777.8	7838.1	5420.5	5157.8	5161.1	5367.3	5640.0	5779.7	5799.7
35°	13401.6	12846.2	11133.7	7489.0	5300.8	5041.4	4905.0	5004.9	5231.0	5397.2	5440.5
37.5°	14302.8	13631.1	11569.3	6990.1	5124.5	4861.8	4635.7	4658.9	4831.8	5014.8	5081.3
40°	15546.6	14685.3	12081.4	6471.3	4871.8	4609.1	4339.7	4329.7	4456.1	4635.7	4708.8
42.5°	17229.2	16078.6	12696.6	5975.9	4629.0	4303.2	4027.1	4010.5	4110.2	4266.6	4343.0
45°	19450.6	17861.0	13451.5	5550.2	4439.5	4003.9	3731.2	3724.5	3807.7	3944.0	4023.8
47.5°	22293.9	20338.6	14206.4	5260.9	4339.7	3767.8	3488.4	3501.7	3574.9	3697.9	3754.5
50°	25975.1	23567.5	14435.8	5114.5	4339.7	3641.4	3272.2	3338.7	3398.6	3491.8	3525.0
52.5°	30388.1	26666.9	13677.6	4981.5	4366.3	3658.0	3089.4	3232.3	3275.6	3355.4	3368.7
55°	34478.4	28186.6	11758.8	4798.6	4373.0	3761.1	2933.0	3145.9	3225.7	3255.6	3252.3
57.5°	36852.7	27664.5	9507.5	4489.4	4346.4	3830.9	2833.3	3039.4	3192.5	3212.4	3182.4
60°	36400.5	25832.2	7000.1	4253.2	4150.2	3804.3	2803.4	2876.6	3119.3	3149.2	3109.3
62.5°	32915.4	22759.5	4858.5	4070.4	3717.9	3688.0	2793.4	2620.5	2959.7	3032.9	2976.3
65°	26457.4	17917.6	3431.9	3505.0	3259.0	3435.2	2740.1	2354.4	2766.8	2866.5	2780.1
67.5°	19194.6	12124.6	2477.4	2840.0	2953.0	3026.2	2620.5	2161.5	2547.3	2680.3	2567.2
70°	12317.5	6547.8	1739.2	1875.5	2487.5	2570.6	2414.3	1988.6	2324.5	2477.4	2354.4
72.5°	8756.0	3867.5	1250.4	1313.5	1998.6	2141.6	2124.9	1795.8	2065.1	2251.3	2105.0
75°	6042.4	2131.6	844.7	937.8	1449.9	1739.2	1639.5	1543.0	1749.2	1938.8	1795.8
77.5°	3787.7	954.4	505.4	651.8	951.1	1366.7	1124.0	1193.8	1363.5	1539.7	1390.0
80°	2108.3	369.1	282.7	432.3	518.8	994.4	621.9	768.1	1004.3	1130.7	1011.0
82.5°	458.9	46.5	126.4	186.2	202.8	578.6	329.2	445.6	631.8	621.9	538.7
85°	0.0	0.0	23.3	26.6	13.3	249.4	119.7	146.4	206.1	192.9	146.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	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°	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2
2.5°	5985.8	5822.9	5703.2	5643.3	5593.4	5640.0	5666.6	5666.6	5779.7	5846.2	5872.7
5°	5423.8	5131.2	4908.4	4758.8	4669.0	4698.9	4732.1	4768.7	4911.7	5008.2	5071.3
7.5°	5034.8	4585.8	4246.6	4037.1	3927.4	3944.0	3967.3	3997.2	4136.9	4233.4	4316.5
10°	4961.6	4316.5	3837.6	3561.6	3428.5	3405.3	3391.9	3382.0	3465.1	3538.3	3604.8
12.5°	5260.9	4329.7	3661.3	3325.5	3162.5	3092.6	3012.9	2949.6	2963.0	3009.5	3092.6
15°	5796.3	4499.3	3604.8	3202.4	2999.6	2883.2	2790.0	2713.6	2697.0	2713.6	2726.9
17.5°	6408.2	4728.8	3598.2	3096.0	2843.2	2723.5	2647.1	2577.3	2554.0	2557.3	2573.9
20°	6813.9	4911.7	3578.2	2976.3	2693.6	2587.2	2520.7	2450.9	2427.6	2434.3	2437.6
22.5°	6853.8	5008.2	3548.2	2843.2	2543.9	2454.2	2387.6	2324.5	2321.2	2321.2	2341.1
25°	6637.6	5008.2	3485.1	2723.5	2401.0	2321.2	2261.4	2184.8	2198.1	2204.8	2231.4
27.5°	6301.7	4888.4	3365.4	2627.1	2278.0	2194.8	2135.0	2065.1	2081.8	2091.7	2121.6
30°	5969.2	4735.5	3222.4	2517.4	2161.5	2065.1	2021.9	1962.1	1968.7	1981.9	2015.3
32.5°	5659.9	4572.5	3052.8	2427.6	2045.2	1948.7	1915.4	1849.0	1858.9	1872.3	1908.9
35°	5354.0	4392.9	2853.3	2321.2	1938.8	1842.3	1815.7	1739.2	1745.9	1765.9	1805.7
37.5°	5024.8	4203.4	2690.3	2214.7	1835.7	1735.9	1709.3	1629.4	1636.1	1659.4	1706.0
40°	4678.9	4017.2	2530.7	2101.7	1725.9	1626.2	1602.9	1516.4	1523.0	1549.7	1599.5
42.5°	4329.7	3814.3	2407.6	1955.4	1612.8	1506.4	1483.2	1403.3	1413.4	1443.2	1493.1
45°	4007.1	3571.5	2327.8	1792.4	1506.4	1386.7	1363.5	1290.3	1310.3	1343.5	1393.4
47.5°	3731.2	3322.1	2294.6	1656.1	1393.4	1263.7	1243.7	1183.9	1217.1	1253.7	1293.7
50°	3495.0	3082.7	2251.3	1516.4	1287.0	1157.2	1137.3	1097.4	1140.6	1177.2	1213.8
52.5°	3325.5	2810.0	2158.2	1390.0	1193.8	1067.4	1060.8	1040.9	1080.8	1114.1	1147.3
55°	3179.1	2527.3	2008.6	1280.3	1110.7	991.0	997.6	987.7	1020.9	1047.6	1077.5
57.5°	3046.1	2281.2	1819.1	1193.8	1020.9	924.4	944.4	931.1	947.7	964.4	1001.0
60°	2886.5	2031.9	1592.8	1097.4	914.5	857.9	881.3	844.7	841.3	848.0	857.9
62.5°	2650.3	1696.0	1356.8	977.6	821.4	784.8	794.8	725.0	671.8	671.8	681.7
65°	2321.2	1363.5	1137.3	844.7	714.9	685.0	678.3	578.6	505.4	498.9	528.8
67.5°	1938.8	1120.6	944.4	711.7	595.2	575.3	582.0	508.8	435.6	429.0	462.3
70°	1579.6	927.8	761.6	568.7	458.9	478.9	508.8	435.6	365.8	355.8	385.7
72.5°	1283.6	738.2	595.2	435.6	339.2	395.8	432.3	355.8	289.4	282.7	309.2
75°	991.0	542.0	425.7	295.9	246.1	306.0	339.2	259.4	206.1	196.2	219.5
77.5°	661.7	335.9	239.4	186.2	146.4	209.5	226.1	136.3	119.7	116.4	133.0
80°	402.4	156.3	103.1	89.8	49.9	76.5	89.8	56.6	63.1	66.5	79.8
82.5°	202.8	43.3	16.6	3.3	0.0	0.0	26.6	13.3	26.6	33.2	49.9
85°	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	16.6	29.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2
2.5°	6059.0	6198.7	6331.6	6544.5	6764.0	6980.1	7199.6	7412.5	7489.0	7545.4	7671.8
5°	5360.6	5623.4	5929.3	6351.6	6803.8	7269.5	7741.7	8174.0	8370.2	8503.2	8802.5
7.5°	4639.0	4981.5	5420.5	6055.7	6764.0	7505.6	8247.2	8928.9	9244.8	9500.8	9956.4
10°	3924.0	4296.5	4851.8	5576.8	6534.6	7598.6	8622.9	9560.7	9969.8	10292.3	10910.8
12.5°	3295.6	3644.7	4226.7	5028.1	6175.4	7525.6	8839.1	9966.4	10448.6	10811.1	11489.4
15°	2853.3	3099.3	3614.8	4479.4	5749.7	7289.4	8852.4	10159.3	10688.1	11067.1	11655.8
17.5°	2607.2	2690.3	3026.2	3920.7	5277.5	6980.1	8729.3	10225.8	10791.1	11143.6	11552.7
20°	2474.1	2487.5	2580.5	3195.7	4672.3	6690.8	8613.0	10292.3	10887.6	11183.6	11306.6
22.5°	2367.8	2367.8	2391.0	2613.9	3890.8	6345.0	8576.4	10408.7	11020.6	11203.5	10950.8
25°	2271.3	2271.3	2278.0	2337.8	3082.7	5816.3	8553.1	10588.2	11203.5	11253.4	10558.3
27.5°	2171.6	2174.8	2174.8	2208.2	2484.1	5097.9	8453.3	10821.0	11423.0	11319.9	10182.6
30°	2071.7	2078.4	2078.4	2101.7	2198.1	4256.6	8257.1	11100.4	11709.0	11406.3	9810.1
32.5°	1972.0	1978.7	1978.7	1998.6	2068.4	3398.6	8011.0	11356.5	11998.2	11442.9	9464.2
35°	1868.9	1878.9	1872.3	1898.8	1972.0	2703.6	7698.5	11612.5	12310.9	11559.3	9294.7
37.5°	1765.9	1772.4	1769.2	1795.8	1878.9	2334.4	7335.9	11805.4	12736.5	11818.7	9497.5
40°	1662.8	1659.4	1659.4	1689.3	1779.1	2228.0	6880.4	12111.3	13348.4	12274.3	10382.1
42.5°	1556.4	1556.4	1549.7	1582.9	1692.7	2148.3	6444.8	12660.1	14239.6	12999.3	11951.7
45°	1459.9	1456.5	1443.2	1473.1	1609.6	2008.6	6291.8	13684.3	15556.5	14173.1	13850.5
47.5°	1366.7	1363.5	1330.1	1356.8	1509.7	1882.2	6863.7	15360.3	17382.2	15899.1	15629.7
50°	1283.6	1287.0	1223.7	1247.0	1410.0	1785.8	8104.2	17535.2	19806.5	18223.6	17315.6
52.5°	1207.1	1207.1	1124.0	1137.3	1287.0	1699.3	9284.7	19892.9	23005.5	21465.9	19281.1
55°	1130.7	1124.0	1030.8	1037.5	1163.9	1576.2	9461.0	22194.1	27368.5	26344.3	21968.0
57.5°	1044.2	1030.8	944.4	944.4	1050.8	1486.5	8200.6	23963.3	32782.4	33514.0	25842.2
60°	937.8	927.8	871.2	854.6	961.0	1566.3	5786.3	24169.5	36274.1	43048.2	33261.2
62.5°	801.4	814.8	784.8	761.6	874.6	1626.2	3428.5	22510.0	35429.4	46080.9	42146.9
65°	631.8	685.0	678.3	661.7	961.0	1370.1	2025.2	19324.2	32839.0	43633.4	40334.6
67.5°	538.7	575.3	565.3	565.3	1007.6	1040.9	1273.7	15097.6	29274.0	40730.2	36028.0
70°	458.9	495.5	458.9	458.9	761.6	631.8	881.3	10541.7	25426.5	37517.9	33201.4
72.5°	379.1	415.6	375.8	349.2	608.5	472.2	645.1	6587.8	21775.1	34172.5	31266.0
75°	289.4	332.5	302.6	269.4	402.4	352.5	488.8	3827.7	18040.6	29237.5	28509.1
77.5°	182.9	239.4	226.1	189.5	295.9	256.0	352.5	2278.0	13920.4	22845.9	24522.0
80°	113.1	123.0	126.4	119.7	169.6	172.9	239.4	1296.9	9527.5	15922.4	19158.0
82.5°	73.2	73.2	56.6	63.1	83.1	99.7	136.3	488.8	5600.1	9693.7	13335.1
85°	53.2	46.5	29.9	29.9	39.9	49.9	53.2	149.6	2271.3	3827.7	5214.3
87.5°	26.6	23.3	9.9	13.3	20.0	16.6	13.3	6.7	571.9	1223.7	857.9
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°	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2	6684.2
2.5°	7738.3	7841.5	7848.1	7848.1	7758.3	7754.9	7572.1	7552.1
5°	9111.7	9178.3	9194.9	9161.7	8982.1	8849.0	8493.3	8416.8
7.5°	10368.8	10501.8	10501.8	10422.0	10129.4	9856.7	9341.2	9148.3
10°	11373.1	11526.0	11492.8	11329.8	10960.7	10585.0	9959.7	9707.1
12.5°	11861.9	12018.2	11931.7	11745.6	11386.4	10990.7	10332.2	10046.2
15°	11852.0	11808.7	11718.9	11695.7	11522.7	11223.4	10608.2	10295.6
17.5°	11429.6	11063.8	10993.9	11226.7	11446.3	11373.1	10847.7	10555.0
20°	10761.2	10122.7	10059.6	10505.1	11130.4	11449.6	11070.5	10801.1
22.5°	10056.2	9367.8	9221.5	9713.7	10654.8	11472.8	11353.1	11083.7
25°	9387.8	8696.1	8549.7	9008.7	10126.1	11433.0	11659.1	11429.6
27.5°	8829.1	8160.6	8024.3	8483.2	9617.3	11319.9	11965.0	11802.1
30°	8396.8	7778.2	7678.5	8120.8	9178.3	11180.2	12354.1	12264.3
32.5°	8144.0	7691.8	7728.4	8090.8	8942.2	11027.3	12726.5	12769.8
35°	8393.4	8413.4	8732.7	8882.3	9161.7	11004.0	13232.0	13401.6
37.5°	9633.9	10325.5	10987.3	10864.3	10235.8	11273.4	13986.9	14302.8
40°	11745.6	13165.5	14239.6	13770.8	12187.9	12098.1	15074.4	15546.6
42.5°	14326.1	16733.7	18502.9	17245.8	14705.2	13541.3	16627.3	17229.2
45°	17049.6	21133.3	23920.0	21306.3	17388.8	15563.2	18978.4	19450.6
47.5°	19919.5	26480.7	30085.5	25808.9	19876.3	17864.4	22184.2	22293.9
50°	23058.7	32343.5	36370.6	30308.2	22277.2	20501.4	26101.5	25975.1
52.5°	26048.3	38372.5	42522.6	34827.6	24385.6	23773.7	30647.5	30388.1
55°	28901.6	44398.3	48711.4	39170.6	26374.3	28096.8	36048.0	34478.4
57.5°	32210.4	49815.4	55089.6	43533.6	29154.3	33710.2	42087.0	36852.7
60°	37102.2	55970.8	62302.6	49512.8	34441.8	39609.6	44251.9	36400.5
62.5°	43347.4	61630.8	67546.8	55372.2	39752.6	40720.3	41062.8	32915.4
65°	44561.2	63064.0	67842.8	56938.5	39067.6	34541.6	33524.0	26457.4
67.5°	41342.1	60473.6	63705.9	54022.1	34558.2	26693.5	25157.1	19194.6
70°	37730.7	55535.2	56496.3	49063.9	30394.7	19633.6	16989.8	12317.5
72.5°	34029.5	48947.4	46958.8	42609.1	26713.4	14296.2	12254.3	8756.0
75°	29633.2	40284.7	36989.1	35402.9	22117.7	11220.1	8865.6	6042.4
77.5°	23730.5	28356.2	27474.9	27441.7	16620.7	8197.2	5916.0	3787.7
80°	16740.4	18403.2	17954.2	20667.8	11150.3	5945.9	3561.6	2108.3
82.5°	8104.2	10175.9	10445.3	12307.6	5423.8	3498.4	821.4	458.9
85°	3172.5	4908.4	4140.2	4672.3	1523.0	974.4	20.0	0.0
87.5°	355.8	568.7	522.1	412.4	186.2	39.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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