

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: P971539

Luminaire Tested: **NAV-SB6D-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971539
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-827-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 41975.8 lumens
Efficiency: N/A
Efficacy: 95.4 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

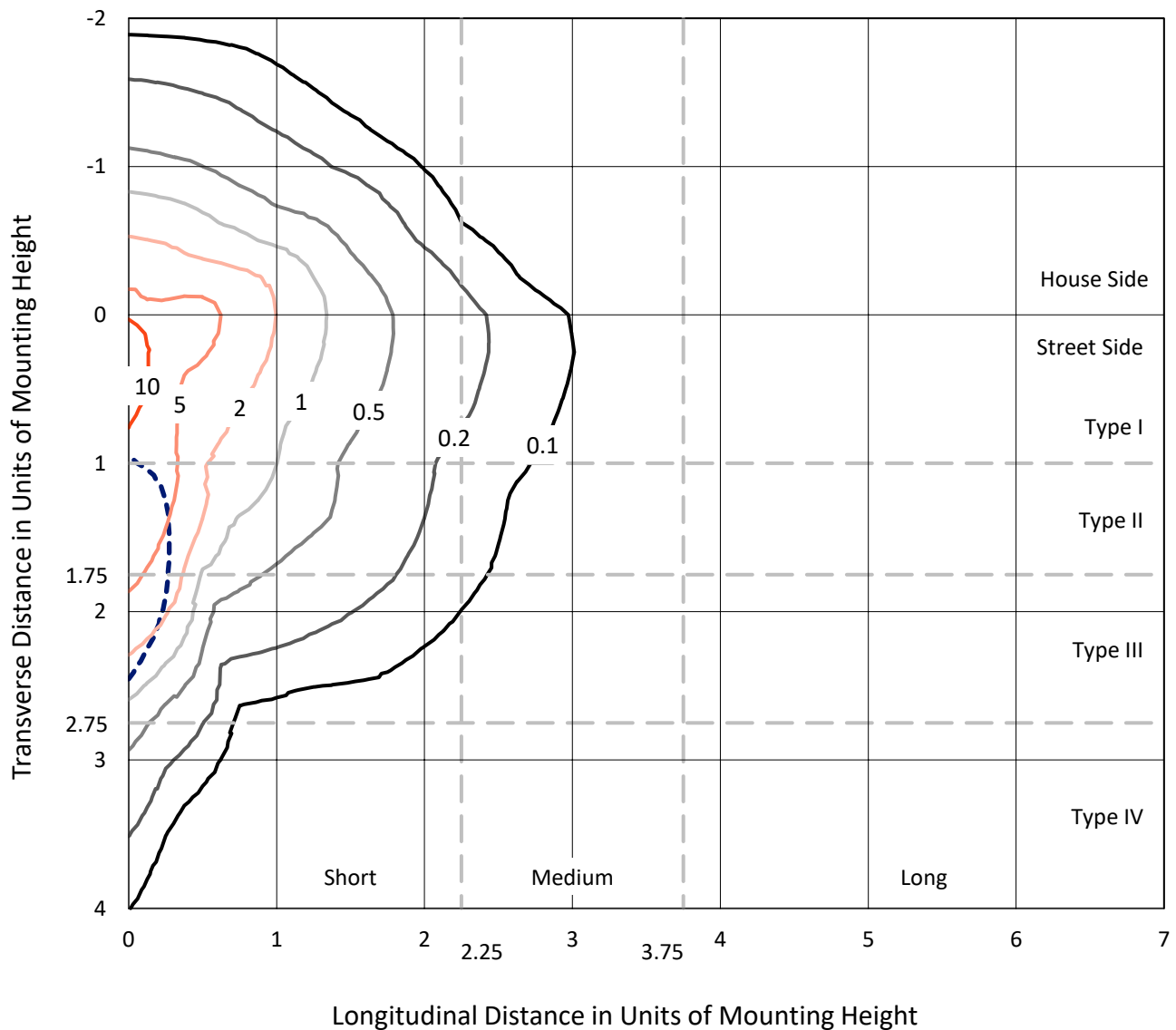


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

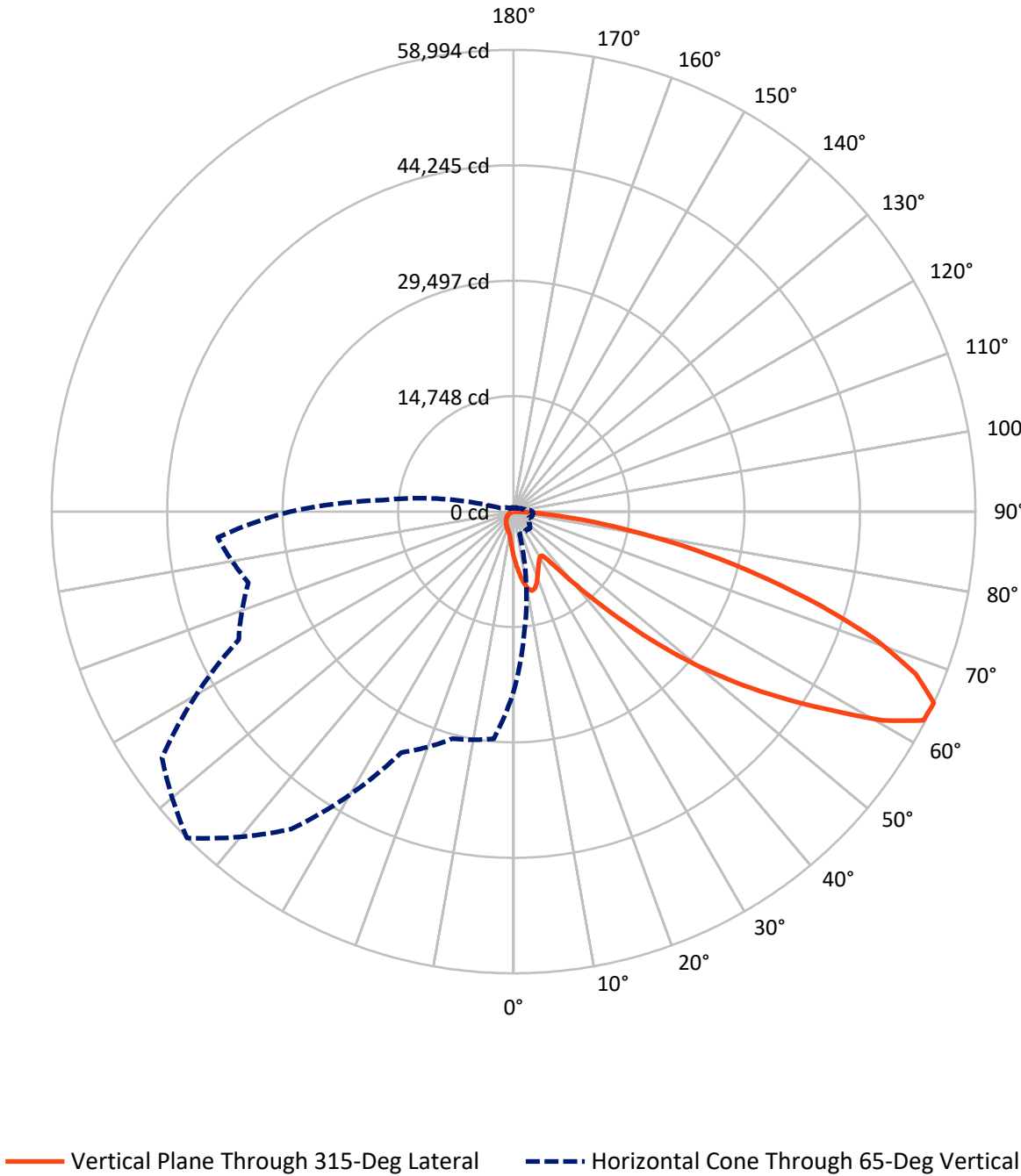


Based on 25 foot mounting height. Maximum calculated value = 13 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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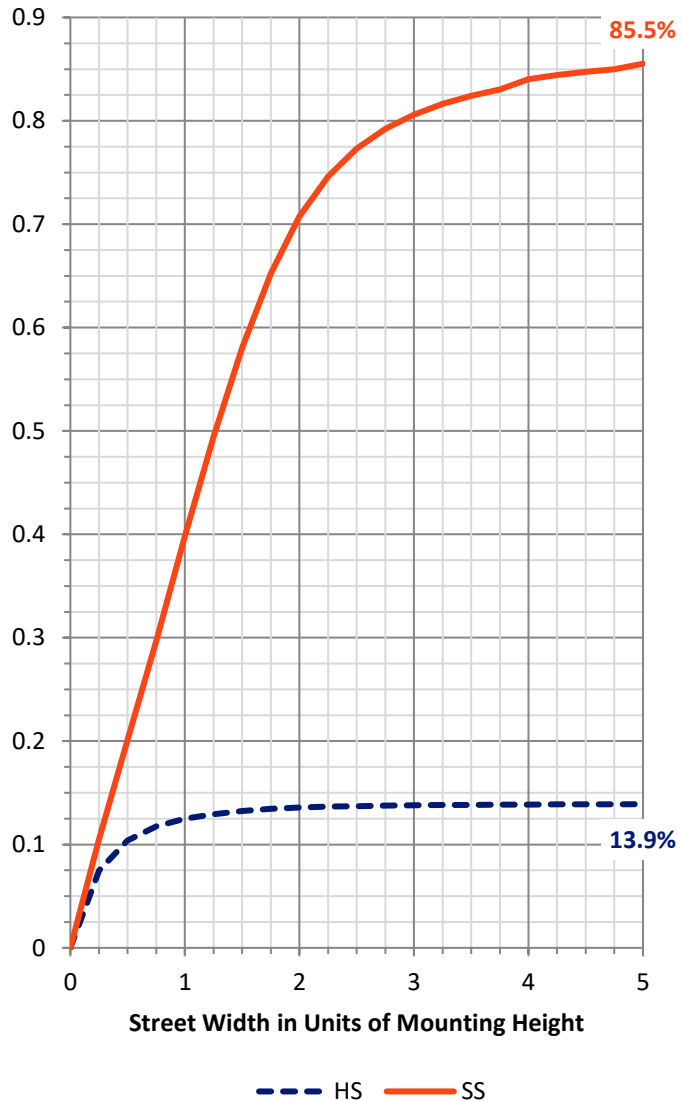
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5878.4	0.0	5878.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	36097.4	0.0	36097.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	41975.8	0.0	41975.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.2	1.4
10°-20°	1715.4	4.1
20°-30°	2527.1	6.0
30°-40°	3246.7	7.7
40°-50°	5250.9	12.5
50°-60°	9207.9	21.9
60°-70°	11521.6	27.4
70°-80°	6732.7	16.0
80°-90°	1201.2	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°	41975.8	100.0
0°-180°	41975.8	100.0

Coefficient of Utilization



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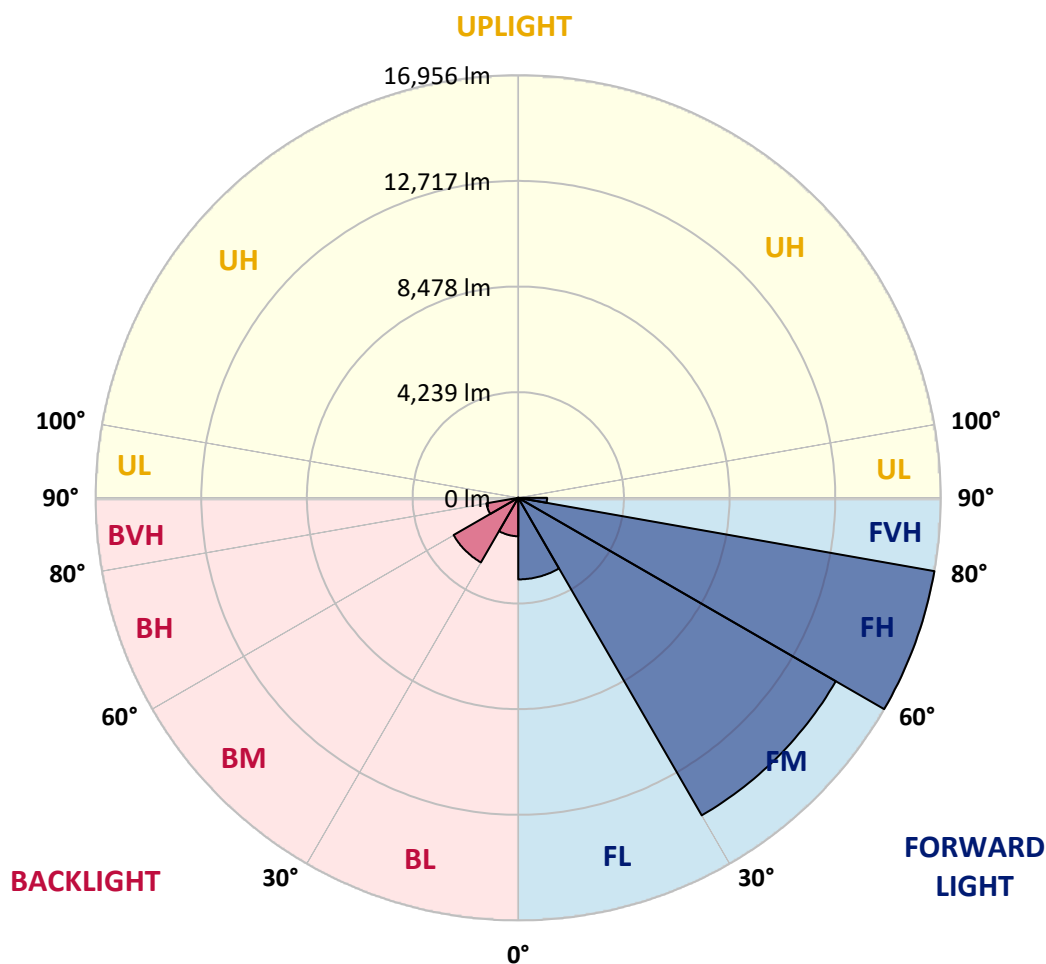
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3274.0	7.8			
FM	(30°-60°)	14712.1	35.0			
FH	(60°-80°)	16956.3	40.4			G5
FVH	(80°-90°)	1155.1	2.8			G5
BL	(0°-30°)	1540.8	3.7	B3/2500		
BM	(30°-60°)	2993.4	7.1	B3/5000		
BH	(60°-80°)	1298.0	3.1	B3/2500		G3/2500
BVH	(80°-90°)	46.2	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°	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3
2.5°	6567.1	6454.2	6387.8	6222.9	6058.1	5925.1	5745.8	5627.2	5485.5	5349.7	5228.2
5°	7318.9	7136.7	6916.9	6616.2	6341.5	6061.0	5789.2	5520.2	5236.8	4976.6	4817.6
7.5°	7955.0	7691.9	7304.5	6905.3	6555.5	6217.1	5899.1	5543.4	5199.3	4791.6	4574.7
10°	8440.9	8105.4	7596.5	7073.1	6671.1	6329.9	6020.5	5719.8	5372.7	4881.2	4609.3
12.5°	8735.8	8377.2	7772.9	7159.8	6700.0	6318.3	6078.4	5945.3	5809.4	5320.7	5002.6
15°	8952.7	8565.2	7897.2	7220.5	6633.6	6165.1	5988.7	6121.7	6277.8	5965.6	5598.3
17.5°	9178.3	8770.5	8059.2	7246.5	6454.2	5867.2	5792.1	6136.2	6497.7	6483.2	6118.8
20°	9392.2	8987.4	8200.8	7229.2	6165.1	5505.8	5572.3	6011.8	6431.2	6607.6	6410.9
22.5°	9638.0	9210.0	8336.7	7162.7	5789.2	5167.4	5375.6	5815.2	6182.5	6390.7	6329.9
25°	9938.7	9490.6	8527.6	7064.4	5384.3	4887.0	5176.1	5586.8	5884.6	6029.2	6026.3
27.5°	10262.6	9826.0	8782.1	7012.3	5057.6	4687.4	4950.5	5314.9	5580.9	5682.2	5682.2
30°	10664.6	10216.4	9082.8	6954.5	4843.6	4571.8	4716.3	4999.7	5260.0	5361.2	5361.2
32.5°	11104.1	10650.2	9372.0	6815.7	4713.5	4485.0	4487.9	4667.2	4904.3	5025.8	5043.1
35°	11653.5	11170.7	9681.4	6512.1	4609.3	4383.8	4265.2	4352.0	4548.6	4693.3	4730.8
37.5°	12437.1	11853.1	10060.2	6078.4	4456.1	4227.6	4031.0	4051.3	4201.7	4360.7	4418.5
40°	13518.6	12769.8	10505.5	5627.2	4236.3	4007.9	3773.6	3765.0	3874.9	4031.0	4094.7
42.5°	14981.9	13981.3	11040.5	5196.3	4025.3	3741.9	3501.8	3487.4	3574.2	3710.1	3776.5
45°	16913.5	15531.3	11696.9	4826.2	3860.5	3481.6	3244.4	3238.7	3311.0	3429.5	3498.9
47.5°	19385.9	17685.6	12353.3	4574.7	3773.6	3276.3	3033.4	3045.0	3108.6	3215.5	3264.7
50°	22587.0	20493.4	12552.9	4447.5	3773.6	3166.4	2845.4	2903.2	2955.3	3036.3	3065.2
52.5°	26424.3	23188.5	11893.6	4331.8	3796.8	3180.9	2686.4	2810.8	2848.3	2917.8	2929.2
55°	29981.0	24510.0	10225.0	4172.7	3802.5	3270.5	2550.5	2735.5	2804.9	2830.9	2828.1
57.5°	32045.8	24056.0	8267.3	3903.8	3779.5	3331.2	2463.7	2643.0	2776.0	2793.3	2767.4
60°	31652.5	22462.7	6087.1	3698.5	3608.8	3308.1	2437.7	2501.3	2712.5	2738.4	2703.7
62.5°	28622.0	19790.8	4224.7	3539.4	3233.0	3206.9	2429.0	2278.7	2573.6	2637.2	2588.0
65°	23006.3	15580.4	2984.2	3047.8	2833.8	2987.2	2382.7	2047.3	2405.9	2492.6	2417.5
67.5°	16690.9	10543.2	2154.3	2469.5	2567.8	2631.5	2278.7	1879.6	2215.0	2330.7	2232.3
70°	10710.8	5693.8	1512.4	1630.9	2163.0	2235.3	2099.4	1729.3	2021.3	2154.3	2047.3
72.5°	7613.8	3363.0	1087.3	1142.3	1737.9	1862.2	1847.8	1561.5	1795.7	1957.6	1830.4
75°	5254.3	1853.6	734.5	815.5	1260.8	1512.4	1425.6	1341.7	1521.0	1685.8	1561.5
77.5°	3293.6	829.9	439.5	566.7	827.1	1188.5	977.4	1038.1	1185.6	1338.9	1208.7
80°	1833.3	320.9	245.8	376.0	451.1	864.6	540.8	668.0	873.3	983.2	879.0
82.5°	399.0	40.5	109.9	162.0	176.4	503.2	286.3	387.4	549.4	540.8	468.4
85°	0.0	0.0	20.2	23.2	11.6	216.9	104.1	127.2	179.3	167.7	127.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	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°	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3
2.5°	5205.1	5063.4	4959.3	4907.2	4863.8	4904.3	4927.5	4927.5	5025.8	5083.6	5106.8
5°	4716.3	4461.9	4268.1	4138.0	4059.9	4086.0	4114.9	4146.7	4271.1	4354.9	4409.9
7.5°	4378.0	3987.7	3692.7	3510.5	3415.1	3429.5	3449.7	3475.8	3597.2	3681.1	3753.4
10°	4314.4	3753.4	3337.0	3097.0	2981.3	2961.1	2949.5	2940.8	3013.2	3076.7	3134.6
12.5°	4574.7	3765.0	3183.8	2891.7	2750.0	2689.3	2619.9	2565.0	2576.5	2617.0	2689.3
15°	5040.2	3912.4	3134.6	2784.7	2608.3	2507.1	2426.2	2359.7	2345.2	2359.7	2371.2
17.5°	5572.3	4112.0	3128.8	2692.2	2472.4	2368.3	2301.7	2241.1	2220.9	2223.7	2238.2
20°	5925.1	4271.1	3111.5	2588.0	2342.2	2249.8	2191.9	2131.2	2111.0	2116.7	2119.6
22.5°	5959.8	4354.9	3085.5	2472.4	2212.2	2134.0	2076.2	2021.3	2018.4	2018.4	2035.8
25°	5771.8	4354.9	3030.5	2368.3	2087.8	2018.4	1966.4	1899.8	1911.4	1917.2	1940.3
27.5°	5479.8	4250.8	2926.4	2284.4	1980.8	1908.5	1856.5	1795.7	1810.2	1818.9	1844.9
30°	5190.6	4117.7	2802.0	2189.0	1879.6	1795.7	1758.2	1706.1	1711.9	1723.4	1752.3
32.5°	4921.6	3976.1	2654.5	2111.0	1778.4	1694.5	1665.6	1607.8	1616.4	1628.0	1659.8
35°	4655.7	3820.0	2481.1	2018.4	1685.8	1602.0	1578.9	1512.4	1518.1	1535.4	1570.2
37.5°	4369.4	3655.2	2339.4	1925.9	1596.2	1509.4	1486.4	1417.0	1422.7	1443.0	1483.5
40°	4068.6	3493.2	2200.6	1827.6	1500.8	1414.0	1393.8	1318.7	1324.4	1347.6	1390.9
42.5°	3765.0	3316.8	2093.6	1700.3	1402.5	1309.9	1289.7	1220.3	1229.0	1255.0	1298.4
45°	3484.5	3105.6	2024.2	1558.6	1309.9	1205.8	1185.6	1122.0	1139.3	1168.3	1211.7
47.5°	3244.4	2888.8	1995.3	1440.0	1211.7	1098.8	1081.5	1029.4	1058.3	1090.2	1124.8
50°	3039.1	2680.6	1957.6	1318.7	1119.1	1006.3	988.9	954.3	991.9	1023.7	1055.4
52.5°	2891.7	2443.5	1876.7	1208.7	1038.1	928.2	922.5	905.1	939.8	968.7	997.6
55°	2764.4	2197.7	1746.6	1113.3	965.9	861.7	867.5	858.8	887.8	910.9	937.0
57.5°	2648.8	1983.7	1581.8	1038.1	887.8	803.9	821.2	809.6	824.1	838.6	870.4
60°	2510.0	1766.8	1385.1	954.3	795.2	746.1	766.3	734.5	731.6	737.4	746.1
62.5°	2304.7	1474.8	1179.8	850.1	714.2	682.4	691.2	630.4	584.1	584.1	592.8
65°	2018.4	1185.6	988.9	734.5	621.8	595.7	589.9	503.2	439.5	433.8	459.8
67.5°	1685.8	974.5	821.2	618.8	517.6	500.3	506.0	442.4	378.8	373.0	401.9
70°	1373.6	806.8	662.2	494.5	399.0	416.4	442.4	378.8	318.1	309.4	335.5
72.5°	1116.2	642.0	517.6	378.8	295.0	344.1	376.0	309.4	251.5	245.8	269.0
75°	861.7	471.3	370.1	257.4	214.0	266.0	295.0	225.6	179.3	170.6	190.9
77.5°	575.4	292.0	208.2	162.0	127.2	182.1	196.6	118.6	104.1	101.2	115.6
80°	349.9	135.9	89.7	78.1	43.4	66.5	78.1	49.2	54.9	57.8	69.4
82.5°	176.4	37.6	14.5	2.9	0.0	0.0	23.2	11.6	23.2	28.9	43.4
85°	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.5	26.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6
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°	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3
2.5°	5268.7	5390.2	5505.8	5690.9	5881.7	6069.6	6260.5	6445.6	6512.1	6561.2	6671.1
5°	4661.4	4889.9	5155.9	5523.1	5916.4	6321.3	6731.9	7107.8	7278.4	7394.0	7654.3
7.5°	4033.9	4331.8	4713.5	5265.7	5881.7	6526.6	7171.4	7764.2	8038.9	8261.6	8657.8
10°	3412.2	3736.0	4219.0	4849.4	5682.2	6607.6	7498.2	8313.6	8669.3	8949.8	9487.6
12.5°	2865.7	3169.3	3675.3	4372.2	5369.9	6543.9	7686.2	8666.4	9085.7	9400.9	9990.8
15°	2481.1	2695.0	3143.3	3895.1	4999.7	6338.6	7697.6	8834.2	9293.9	9623.5	10135.4
17.5°	2267.1	2339.4	2631.5	3409.4	4589.1	6069.6	7590.7	8892.0	9383.6	9690.0	10045.7
20°	2151.4	2163.0	2243.9	2778.9	4062.8	5818.1	7489.5	8949.8	9467.4	9724.8	9831.8
22.5°	2058.9	2058.9	2079.1	2272.8	3383.3	5517.4	7457.7	9051.0	9583.0	9742.1	9522.4
25°	1975.1	1975.1	1980.8	2032.9	2680.6	5057.6	7437.4	9207.2	9742.1	9785.5	9181.1
27.5°	1888.3	1891.1	1891.1	1920.1	2160.1	4432.9	7350.7	9409.6	9933.0	9843.3	8854.4
30°	1801.5	1807.3	1807.3	1827.6	1911.4	3701.4	7180.1	9652.4	10181.6	9918.5	8530.5
32.5°	1714.8	1720.6	1720.6	1737.9	1798.7	2955.3	6966.1	9875.2	10433.3	9950.3	8229.7
35°	1625.1	1633.8	1628.0	1651.2	1714.8	2350.9	6694.3	10097.8	10705.1	10051.6	8082.3
37.5°	1535.4	1541.3	1538.4	1561.5	1633.8	2030.0	6379.1	10265.5	11075.2	10277.1	8258.6
40°	1445.9	1443.0	1443.0	1469.0	1547.0	1937.5	5982.9	10531.6	11607.3	10673.2	9027.9
42.5°	1353.3	1353.3	1347.6	1376.5	1471.9	1868.1	5604.1	11008.7	12382.2	11303.6	10392.8
45°	1269.5	1266.6	1255.0	1281.0	1399.5	1746.6	5471.0	11899.3	13527.3	12324.4	12044.0
47.5°	1188.5	1185.6	1156.7	1179.8	1312.8	1636.7	5968.5	13356.8	15114.9	13825.2	13591.0
50°	1116.2	1119.1	1064.2	1084.3	1226.1	1552.9	7047.1	15247.9	17223.0	15846.5	15057.0
52.5°	1049.7	1049.7	977.4	988.9	1119.1	1477.6	8073.6	17298.1	20004.7	18665.9	16766.0
55°	983.2	977.4	896.5	902.2	1012.1	1370.6	8226.9	19299.2	23798.7	22908.0	19102.5
57.5°	907.9	896.5	821.2	821.2	913.8	1292.6	7130.9	20837.5	28506.3	29142.5	22471.4
60°	815.5	806.8	757.6	743.1	835.7	1362.0	5031.5	21016.8	31542.6	37433.0	28922.7
62.5°	696.9	708.5	682.4	662.2	760.6	1414.0	2981.3	19573.9	30808.1	40070.2	36649.3
65°	549.4	595.7	589.9	575.4	835.7	1191.4	1761.1	16803.6	28555.5	37941.9	35073.3
67.5°	468.4	500.3	491.6	491.6	876.2	905.1	1107.5	13128.3	25455.6	35417.4	31328.6
70°	399.0	430.9	399.0	399.0	662.2	549.4	766.3	9166.7	22109.9	32624.1	28870.7
72.5°	329.6	361.4	326.8	303.6	529.2	410.6	561.0	5728.4	18934.8	29715.1	27187.7
75°	251.5	289.2	263.1	234.2	349.9	306.5	425.1	3328.4	15687.4	25423.8	24790.4
77.5°	159.1	208.2	196.6	164.8	257.4	222.6	306.5	1980.8	12104.6	19865.9	21323.4
80°	98.3	107.0	109.9	104.1	147.5	150.4	208.2	1127.8	8284.7	13845.4	16659.0
82.5°	63.7	63.7	49.2	54.9	72.3	86.7	118.6	425.1	4869.6	8429.3	11595.7
85°	46.2	40.5	26.0	26.0	34.7	43.4	46.2	130.2	1975.1	3328.4	4534.2
87.5°	23.2	20.2	8.7	11.6	17.3	14.5	11.6	5.7	497.3	1064.2	746.1
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°	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3	5812.3
2.5°	6729.0	6818.6	6824.3	6824.3	6746.3	6743.5	6584.4	6567.1
5°	7923.2	7981.1	7995.5	7966.6	7810.5	7694.8	7385.4	7318.9
7.5°	9016.3	9131.9	9131.9	9062.5	8808.1	8570.9	8122.8	7955.0
10°	9889.6	10022.7	9993.6	9852.0	9531.1	9204.3	8660.6	8440.9
12.5°	10314.7	10450.6	10375.4	10213.5	9901.2	9557.1	8984.5	8735.8
15°	10306.0	10268.4	10190.3	10170.0	10019.7	9759.4	9224.5	8952.7
17.5°	9938.7	9620.6	9560.0	9762.4	9953.2	9889.6	9432.7	9178.3
20°	9357.5	8802.3	8747.3	9134.9	9678.5	9956.1	9626.5	9392.2
22.5°	8744.5	8145.9	8018.7	8446.6	9265.0	9976.3	9872.3	9638.0
25°	8163.2	7561.7	7434.5	7833.6	8805.2	9941.7	10138.3	9938.7
27.5°	7677.5	7096.2	6977.7	7376.7	8362.8	9843.3	10404.4	10262.6
30°	7301.5	6763.7	6677.0	7061.5	7981.1	9721.9	10742.6	10664.6
32.5°	7081.7	6688.5	6720.3	7035.5	7775.8	9588.9	11066.5	11104.1
35°	7298.6	7315.9	7593.6	7723.7	7966.6	9568.6	11506.0	11653.5
37.5°	8377.2	8978.7	9554.1	9447.1	8900.6	9802.8	12162.4	12437.1
40°	10213.5	11448.2	12382.2	11974.5	10598.1	10520.0	13108.0	13518.6
42.5°	12457.4	14551.0	16089.4	14996.4	12787.1	11775.0	14458.4	14981.9
45°	14825.7	18376.7	20799.9	18527.1	15120.7	13533.2	16502.9	16913.5
47.5°	17321.3	23026.5	26161.2	22442.5	17283.7	15534.2	19290.5	19385.9
50°	20051.0	28124.7	31626.5	26354.9	19371.5	17827.3	22696.9	22587.0
52.5°	22650.7	33367.2	36976.1	30284.8	21204.8	20672.7	26649.9	26424.3
55°	25131.7	38607.0	42357.5	34061.3	22934.1	24431.9	31345.9	29981.0
57.5°	28008.9	43317.6	47903.8	37855.2	25351.5	29313.1	36597.3	32045.8
60°	32262.6	48670.1	54175.9	43054.4	29949.3	34443.0	38479.7	31652.5
62.5°	37693.2	53591.8	58736.1	48149.6	34567.3	35408.8	35706.6	28622.0
65°	38748.7	54838.1	58993.5	49511.6	33971.6	30036.0	29151.2	23006.3
67.5°	35949.5	52585.5	55396.2	46975.5	30050.4	23211.6	21875.7	16690.9
70°	32809.1	48291.3	49127.0	42664.1	26430.0	17072.6	14773.6	10710.8
72.5°	29590.7	42562.8	40833.6	37051.3	23229.0	12431.4	10655.9	7613.8
75°	25767.9	35030.0	32164.3	30785.0	19232.7	9756.6	7709.2	5254.3
77.5°	20635.1	24657.5	23891.2	23862.3	14452.7	7128.1	5144.4	3293.6
80°	14556.7	16002.6	15612.3	17971.8	9695.9	5170.3	3097.0	1833.3
82.5°	7047.1	8848.6	9082.8	10702.1	4716.3	3042.1	714.2	399.0
85°	2758.7	4268.1	3600.2	4062.8	1324.4	847.3	17.3	0.0
87.5°	309.4	494.5	454.0	358.5	162.0	34.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)