

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: P971043

Luminaire Tested: **NAV-SB6C-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971043
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-830-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA 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: 31922.6 lumens
Efficiency: N/A
Efficacy: 106.1 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

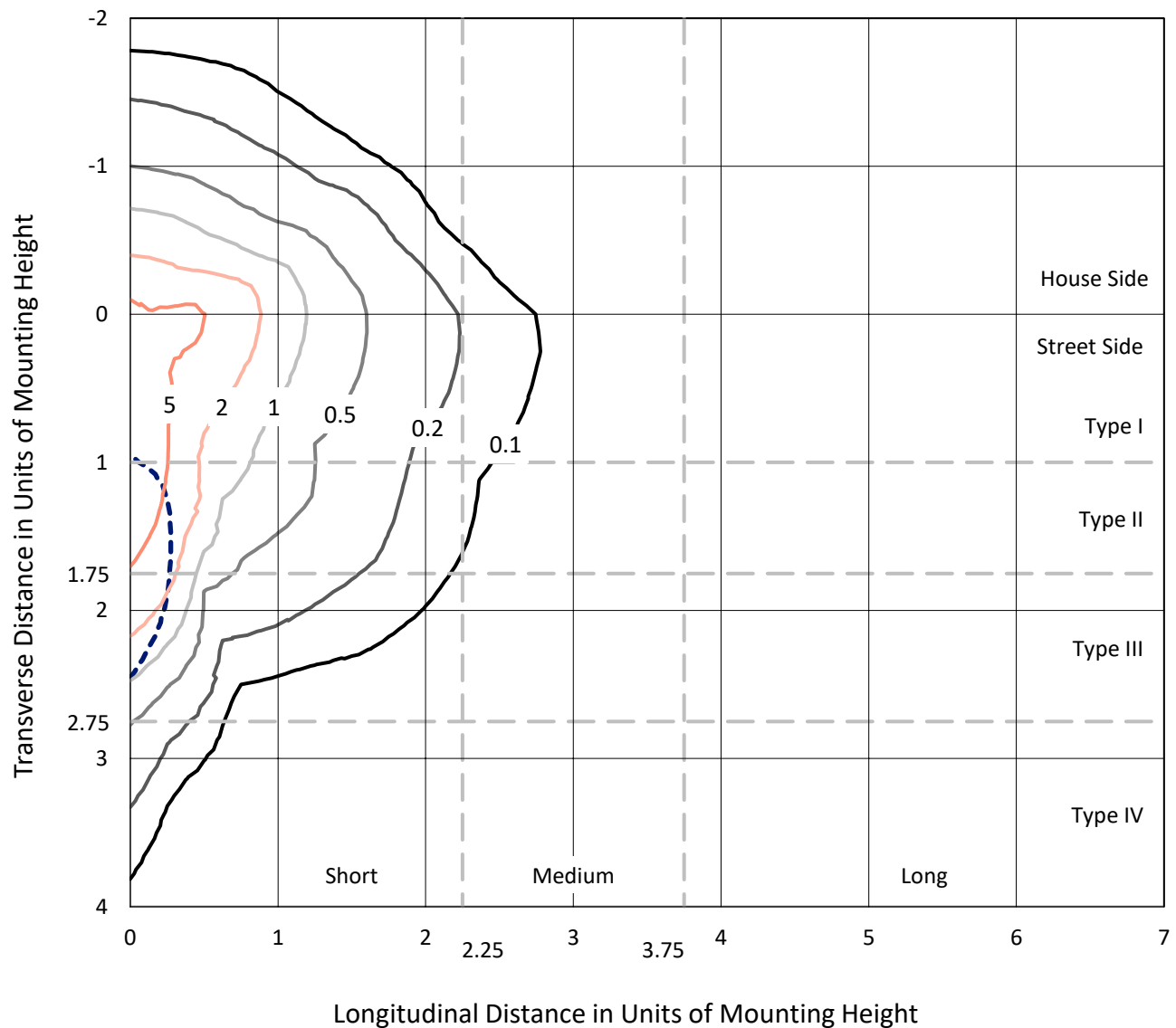


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Iso-Footcandle Lines of Horizontal Illumination

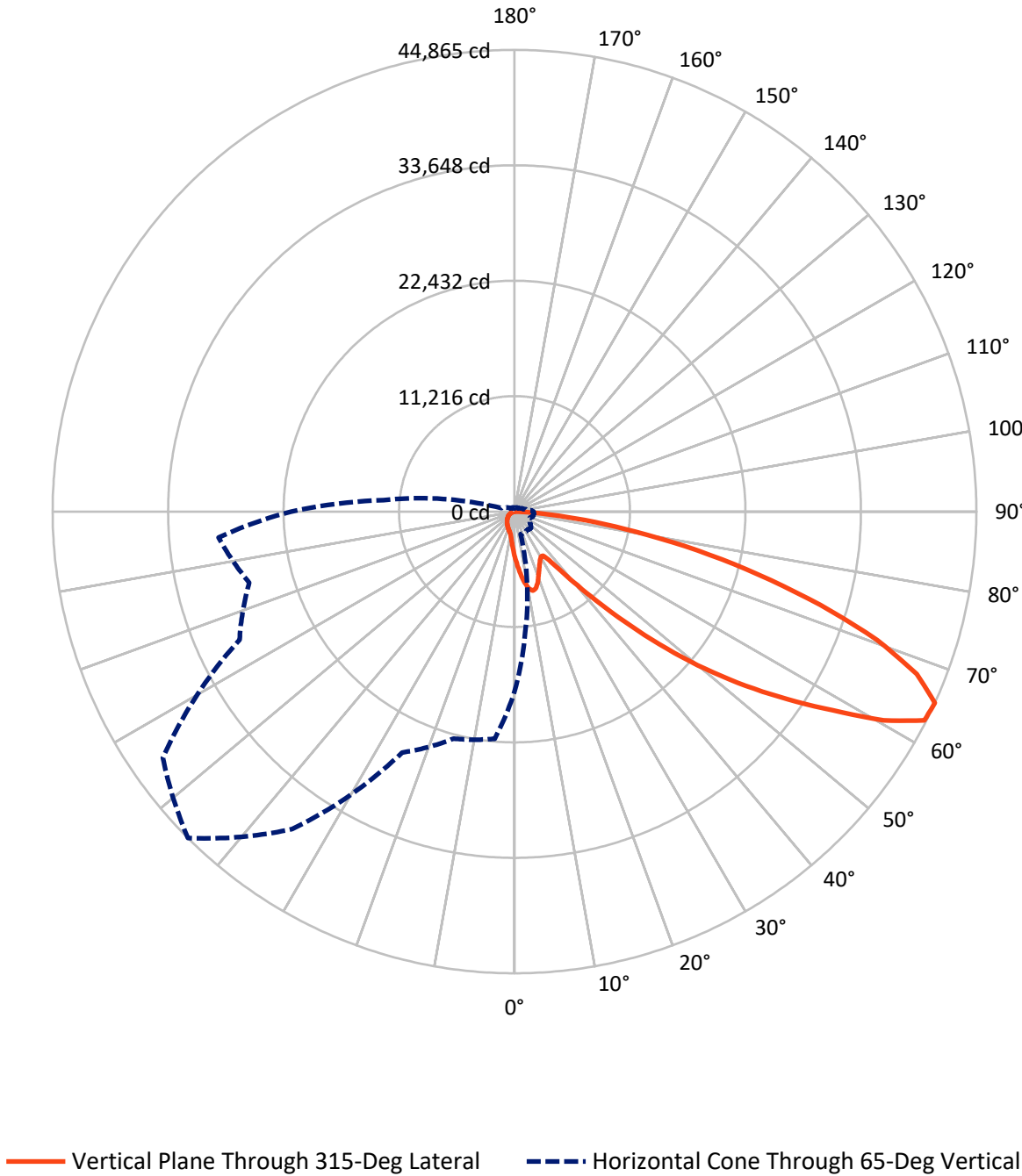
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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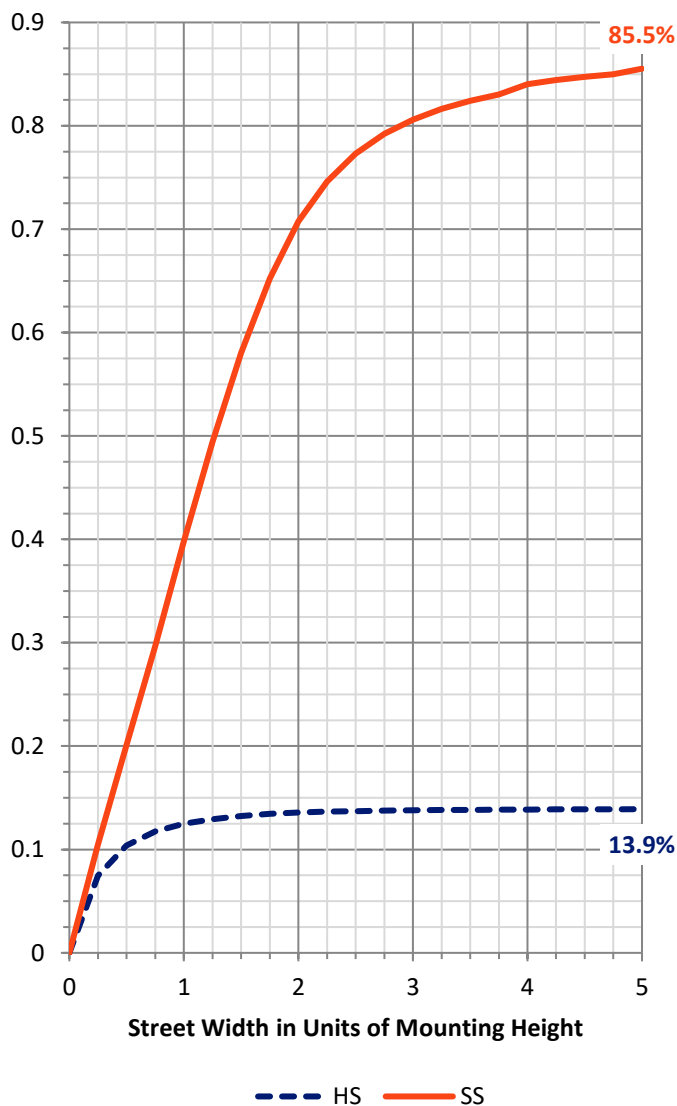
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4470.5	0.0	4470.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27452.1	0.0	27452.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	31922.6	0.0	31922.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.2	1.4
10°-20°	1304.6	4.1
20°-30°	1921.9	6.0
30°-40°	2469.1	7.7
40°-50°	3993.3	12.5
50°-60°	7002.6	21.9
60°-70°	8762.2	27.4
70°-80°	5120.2	16.0
80°-90°	913.5	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°	31922.6	100.0
0°-180°	31922.6	100.0

Coefficient of Utilization



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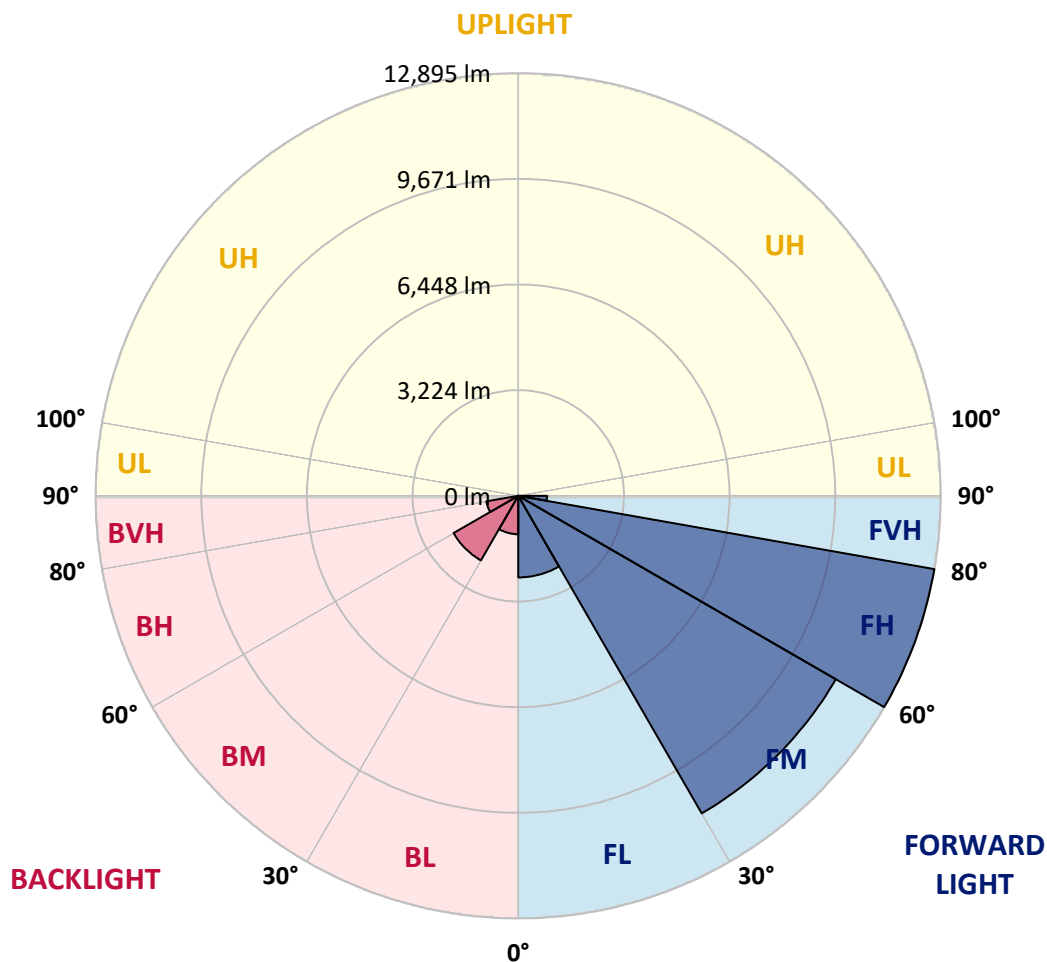
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2489.9	7.8			
FM	(30°-60°)	11188.5	35.0			
FH	(60°-80°)	12895.3	40.4			G5
FVH	(80°-90°)	878.4	2.8			G5
BL	(0°-30°)	1171.8	3.7	B3/2500		
BM	(30°-60°)	2276.5	7.1	B2/2500		
BH	(60°-80°)	987.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	35.1	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°	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2
2.5°	4994.2	4908.4	4857.9	4732.5	4607.2	4506.0	4369.7	4279.5	4171.8	4068.4	3976.1
5°	5566.1	5427.5	5260.3	5031.6	4822.7	4609.4	4402.7	4198.2	3982.6	3784.7	3663.8
7.5°	6049.9	5849.7	5555.0	5251.5	4985.4	4728.1	4486.2	4215.7	3954.0	3644.0	3479.1
10°	6419.3	6164.1	5777.1	5379.1	5073.4	4813.9	4578.6	4349.9	4086.0	3712.1	3505.4
12.5°	6643.5	6370.9	5911.3	5445.0	5095.4	4805.1	4622.5	4521.4	4418.1	4046.4	3804.5
15°	6808.6	6513.9	6005.9	5491.2	5044.8	4688.6	4554.4	4655.5	4774.3	4536.9	4257.5
17.5°	6980.0	6670.0	6129.0	5511.0	4908.4	4462.0	4404.8	4666.5	4941.4	4930.5	4653.4
20°	7142.8	6834.9	6236.7	5497.8	4688.6	4187.1	4237.8	4572.0	4890.9	5025.1	4875.5
22.5°	7329.7	7004.2	6340.1	5447.3	4402.7	3929.8	4088.2	4422.5	4701.8	4860.0	4813.9
25°	7558.5	7217.5	6485.3	5372.4	4094.8	3716.5	3936.4	4248.7	4475.3	4585.2	4583.0
27.5°	7804.8	7472.7	6678.8	5332.9	3846.3	3564.7	3764.9	4042.0	4244.3	4321.3	4321.3
30°	8110.4	7769.5	6907.5	5288.9	3683.5	3476.8	3586.8	3802.3	4000.3	4077.2	4077.2
32.5°	8444.7	8099.4	7127.4	5183.3	3584.6	3410.9	3413.0	3549.4	3729.8	3822.1	3835.2
35°	8862.5	8495.3	7362.7	4952.5	3505.4	3333.9	3243.7	3309.7	3459.3	3569.2	3597.7
37.5°	9458.5	9014.3	7650.8	4622.5	3388.9	3215.1	3065.6	3080.9	3195.3	3316.3	3360.3
40°	10281.0	9711.4	7989.5	4279.5	3221.8	3048.0	2869.9	2863.2	2946.9	3065.6	3114.0
42.5°	11393.7	10632.8	8396.3	3951.9	3061.2	2845.7	2663.2	2652.2	2718.1	2821.5	2872.0
45°	12862.7	11811.6	8895.5	3670.3	2935.8	2647.8	2467.4	2463.1	2518.0	2608.2	2661.0
47.5°	14743.0	13449.9	9394.7	3479.1	2869.9	2491.6	2306.9	2315.7	2364.1	2445.4	2482.9
50°	17177.5	15585.2	9546.4	3382.3	2869.9	2408.0	2164.0	2208.0	2247.5	2309.1	2331.1
52.5°	20095.6	17634.8	9045.0	3294.4	2887.4	2419.0	2043.0	2137.5	2166.1	2218.9	2227.7
55°	22800.6	18639.8	7776.2	3173.4	2891.8	2487.3	1939.6	2080.3	2133.1	2152.9	2150.8
57.5°	24370.8	18294.6	6287.3	2968.8	2874.3	2533.4	1873.7	2010.0	2111.2	2124.3	2104.5
60°	24071.7	17082.9	4629.2	2812.7	2744.5	2515.8	1853.9	1902.3	2062.8	2082.6	2056.1
62.5°	21767.0	15050.9	3213.0	2691.8	2458.7	2438.9	1847.3	1733.0	1957.2	2005.6	1968.2
65°	17496.3	11848.9	2269.6	2317.9	2155.2	2271.7	1812.1	1557.0	1829.7	1895.6	1838.4
67.5°	12693.4	8018.1	1638.4	1878.1	1952.8	2001.2	1733.0	1429.5	1684.6	1772.5	1697.7
70°	8145.6	4330.1	1150.2	1240.4	1644.9	1700.0	1596.5	1315.1	1537.2	1638.4	1557.0
72.5°	5790.3	2557.6	826.9	868.7	1321.6	1416.2	1405.3	1187.6	1365.7	1488.8	1392.1
75°	3995.9	1409.7	558.6	620.1	958.8	1150.2	1084.1	1020.4	1156.7	1282.1	1187.6
77.5°	2504.8	631.2	334.3	431.0	628.9	903.8	743.3	789.5	901.7	1018.2	919.2
80°	1394.2	244.2	187.0	285.9	343.1	657.5	411.2	508.0	664.1	747.7	668.5
82.5°	303.5	30.7	83.5	123.1	134.2	382.6	217.7	294.7	417.8	411.2	356.3
85°	0.0	0.0	15.4	17.6	8.8	164.9	79.1	96.8	136.3	127.5	96.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	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°	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2
2.5°	3958.4	3850.7	3771.5	3731.9	3698.9	3729.8	3747.3	3747.3	3822.1	3866.1	3883.6
5°	3586.8	3393.3	3246.0	3147.0	3087.6	3107.4	3129.3	3153.5	3248.1	3311.9	3353.7
7.5°	3329.5	3032.6	2808.3	2669.7	2597.1	2608.2	2623.6	2643.4	2735.7	2799.5	2854.5
10°	3281.1	2854.5	2537.8	2355.2	2267.3	2251.9	2243.1	2236.5	2291.5	2339.9	2383.8
12.5°	3479.1	2863.2	2421.3	2199.1	2091.4	2045.2	1992.4	1950.7	1959.4	1990.2	2045.2
15°	3833.1	2975.5	2383.8	2117.8	1983.6	1906.6	1845.1	1794.5	1783.5	1794.5	1803.3
17.5°	4237.8	3127.2	2379.4	2047.4	1880.3	1801.1	1750.5	1704.4	1688.9	1691.1	1702.1
20°	4506.0	3248.1	2366.3	1968.2	1781.3	1710.9	1667.0	1620.7	1605.4	1609.8	1611.9
22.5°	4532.4	3311.9	2346.4	1880.3	1682.3	1623.0	1579.0	1537.2	1535.0	1535.0	1548.2
25°	4389.5	3311.9	2304.7	1801.1	1587.7	1535.0	1495.4	1444.8	1453.7	1458.1	1475.6
27.5°	4167.3	3232.7	2225.5	1737.3	1506.4	1451.4	1411.8	1365.7	1376.7	1383.2	1403.0
30°	3947.5	3131.6	2131.0	1664.7	1429.5	1365.7	1337.1	1297.4	1301.9	1310.7	1332.7
32.5°	3742.9	3023.9	2018.8	1605.4	1352.5	1288.7	1266.7	1222.7	1229.3	1238.1	1262.3
35°	3540.6	2905.1	1886.8	1535.0	1282.1	1218.3	1200.7	1150.2	1154.6	1167.8	1194.1
37.5°	3322.8	2779.7	1779.1	1464.6	1213.9	1147.9	1130.4	1077.6	1082.0	1097.4	1128.1
40°	3094.2	2656.6	1673.5	1389.9	1141.3	1075.3	1060.0	1002.8	1007.2	1024.8	1057.8
42.5°	2863.2	2522.4	1592.1	1293.1	1066.6	996.2	980.8	928.0	934.6	954.4	987.4
45°	2649.9	2361.9	1539.3	1185.3	996.2	917.1	901.7	853.3	866.4	888.5	921.5
47.5°	2467.4	2197.0	1517.4	1095.2	921.5	835.7	822.5	782.9	804.9	829.1	855.5
50°	2311.3	2038.6	1488.8	1002.8	851.1	765.3	752.1	725.7	754.3	778.5	802.7
52.5°	2199.1	1858.2	1427.2	919.2	789.5	705.9	701.5	688.3	714.7	736.7	758.7
55°	2102.4	1671.4	1328.3	846.6	734.5	655.4	659.7	653.1	675.2	692.7	712.5
57.5°	2014.4	1508.6	1202.9	789.5	675.2	611.3	624.5	615.7	626.8	637.8	661.9
60°	1908.9	1343.7	1053.4	725.7	604.8	567.3	582.8	558.6	556.4	560.8	567.3
62.5°	1752.7	1121.6	897.3	646.6	543.1	519.0	525.6	479.4	444.2	444.2	450.8
65°	1535.0	901.7	752.1	558.6	472.8	453.0	448.6	382.6	334.3	329.8	349.6
67.5°	1282.1	741.1	624.5	470.6	393.6	380.5	384.9	336.5	288.1	283.7	305.7
70°	1044.6	613.6	503.6	376.1	303.5	316.7	336.5	288.1	241.9	235.3	255.1
72.5°	848.9	488.2	393.6	288.1	224.3	261.7	285.9	235.3	191.4	187.0	204.5
75°	655.4	358.4	281.5	195.7	162.8	202.3	224.3	171.5	136.3	129.8	145.1
77.5°	437.7	222.1	158.4	123.1	96.8	138.6	149.5	90.2	79.1	77.0	87.9
80°	266.1	103.3	68.2	59.3	33.0	50.5	59.3	37.4	41.8	44.0	52.8
82.5°	134.2	28.6	11.0	2.2	0.0	0.0	17.6	8.8	17.6	22.0	33.0
85°	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	11.0	19.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2
2.5°	4006.8	4099.2	4187.1	4327.9	4473.0	4616.0	4761.1	4901.9	4952.5	4989.8	5073.4
5°	3545.0	3718.7	3921.0	4200.3	4499.4	4807.4	5119.6	5405.4	5535.2	5623.2	5821.1
7.5°	3067.8	3294.4	3584.6	4004.6	4473.0	4963.5	5453.8	5904.7	6113.6	6282.9	6584.2
10°	2595.0	2841.3	3208.6	3688.0	4321.3	5025.1	5702.4	6322.5	6593.0	6806.3	7215.4
12.5°	2179.4	2410.3	2795.1	3325.1	4083.8	4976.7	5845.3	6590.9	6909.6	7149.4	7598.0
15°	1886.8	2049.6	2390.5	2962.2	3802.3	4820.5	5854.1	6718.4	7068.0	7318.7	7708.0
17.5°	1724.2	1779.1	2001.2	2592.7	3490.0	4616.0	5772.7	6762.3	7136.2	7369.3	7639.8
20°	1636.1	1644.9	1706.5	2113.3	3089.8	4424.6	5695.7	6806.3	7200.0	7395.7	7477.1
22.5°	1565.8	1565.8	1581.2	1728.6	2573.0	4195.9	5671.5	6883.3	7288.0	7408.9	7241.7
25°	1502.0	1502.0	1506.4	1546.0	2038.6	3846.3	5656.2	7002.1	7408.9	7441.9	6982.3
27.5°	1436.0	1438.3	1438.3	1460.2	1642.8	3371.2	5590.2	7155.9	7554.0	7485.9	6733.7
30°	1370.0	1374.4	1374.4	1389.9	1453.7	2814.9	5460.5	7340.7	7743.2	7543.1	6487.4
32.5°	1304.1	1308.5	1308.5	1321.6	1367.9	2247.5	5297.7	7510.1	7934.5	7567.3	6258.8
35°	1235.9	1242.5	1238.1	1255.7	1304.1	1787.9	5091.0	7679.4	8141.2	7644.1	6146.6
37.5°	1167.8	1172.1	1169.9	1187.6	1242.5	1543.8	4851.3	7806.9	8422.7	7815.7	6280.7
40°	1099.5	1097.4	1097.4	1117.1	1176.5	1473.4	4550.0	8009.2	8827.3	8117.0	6865.7
42.5°	1029.2	1029.2	1024.8	1046.8	1119.4	1420.6	4262.0	8372.1	9416.7	8596.4	7903.7
45°	965.4	963.2	954.4	974.3	1064.4	1328.3	4160.8	9049.4	10287.5	9372.7	9159.4
47.5°	903.8	901.7	879.7	897.3	998.5	1244.8	4539.0	10157.8	11494.9	10514.0	10335.9
50°	848.9	851.1	809.2	824.7	932.4	1180.9	5359.3	11596.0	13098.1	12051.2	11450.9
52.5°	798.3	798.3	743.3	752.1	851.1	1123.7	6140.0	13155.3	15213.6	14195.4	12750.6
55°	747.7	743.3	681.7	686.1	769.7	1042.4	6256.5	14677.0	18098.8	17421.5	14527.4
57.5°	690.5	681.7	624.5	624.5	694.9	983.0	5423.1	15846.9	21679.1	22162.9	17089.5
60°	620.1	613.6	576.2	565.2	635.5	1035.8	3826.5	15983.3	23988.2	28467.7	21995.8
62.5°	530.0	538.7	519.0	503.6	578.4	1075.3	2267.3	14886.0	23429.6	30473.4	27871.8
65°	417.8	453.0	448.6	437.7	635.5	906.0	1339.3	12779.2	21716.5	28854.9	26673.3
67.5°	356.3	380.5	373.8	373.8	666.4	688.3	842.2	9984.1	19359.0	26935.0	23825.4
70°	303.5	327.7	303.5	303.5	503.6	417.8	582.8	6971.2	16814.6	24810.6	21956.1
72.5°	250.7	274.9	248.5	230.9	402.4	312.3	426.6	4356.5	14399.9	22598.3	20676.3
75°	191.4	219.9	200.1	178.1	266.1	233.1	323.3	2531.2	11930.3	19334.8	18853.1
77.5°	121.0	158.4	149.5	125.4	195.7	169.3	233.1	1506.4	9205.5	15108.1	16216.4
80°	74.7	81.4	83.5	79.1	112.1	114.4	158.4	857.6	6300.5	10529.4	12669.2
82.5°	48.4	48.4	37.4	41.8	54.9	66.0	90.2	323.3	3703.3	6410.5	8818.5
85°	35.2	30.7	19.8	19.8	26.3	33.0	35.2	98.9	1502.0	2531.2	3448.2
87.5°	17.6	15.4	6.6	8.8	13.2	11.0	8.8	4.4	378.2	809.2	567.3
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2	4420.2
2.5°	5117.4	5185.6	5190.0	5190.0	5130.5	5128.4	5007.4	4994.2
5°	6025.7	6069.6	6080.6	6058.6	5939.9	5851.9	5616.6	5566.1
7.5°	6856.9	6944.9	6944.9	6892.1	6698.6	6518.3	6177.4	6049.9
10°	7521.0	7622.2	7600.2	7492.4	7248.4	6999.8	6586.4	6419.3
12.5°	7844.3	7947.6	7890.4	7767.3	7529.9	7268.2	6832.8	6643.5
15°	7837.7	7809.2	7749.7	7734.3	7620.0	7422.0	7015.2	6808.6
17.5°	7558.5	7316.6	7270.3	7424.3	7569.4	7521.0	7173.6	6980.0
20°	7116.4	6694.2	6652.4	6947.0	7360.5	7571.6	7321.0	7142.8
22.5°	6650.2	6195.0	6098.2	6423.7	7046.1	7587.0	7507.8	7329.7
25°	6208.1	5750.8	5654.0	5957.4	6696.3	7560.6	7710.2	7558.5
27.5°	5838.7	5396.6	5306.5	5610.0	6359.9	7485.9	7912.5	7804.8
30°	5552.8	5143.8	5077.8	5370.3	6069.6	7393.5	8169.8	8110.4
32.5°	5385.7	5086.6	5110.8	5350.5	5913.4	7292.4	8416.1	8444.7
35°	5550.6	5563.8	5775.0	5873.9	6058.6	7276.9	8750.3	8862.5
37.5°	6370.9	6828.3	7265.9	7184.5	6768.9	7455.0	9249.6	9458.5
40°	7767.3	8706.3	9416.7	9106.6	8059.8	8000.4	9968.6	10281.0
42.5°	9473.9	11066.0	12235.9	11404.7	9724.6	8954.9	10995.7	11393.7
45°	11275.0	13975.5	15818.4	14089.9	11499.3	10291.9	12550.4	12862.7
47.5°	13172.8	17511.7	19895.6	17067.5	13144.2	11813.7	14670.4	14743.0
50°	15248.8	21388.8	24051.9	20043.0	14732.0	13557.7	17261.0	17177.5
52.5°	17225.8	25375.8	28120.4	23031.5	16126.2	15721.7	20267.2	20095.6
55°	19112.7	29360.6	32212.9	25903.6	17441.3	18580.5	23838.6	22800.6
57.5°	21300.8	32943.0	36430.9	28788.9	19279.8	22292.6	27832.2	24370.8
60°	24535.7	37013.6	41200.8	32742.9	22776.4	26193.9	29263.9	24071.7
62.5°	28665.7	40756.6	44668.8	36617.8	26288.5	26928.4	27154.9	21767.0
65°	29468.3	41704.4	44864.6	37653.6	25835.4	22842.4	22169.4	17496.3
67.5°	27339.6	39991.2	42128.8	35724.9	22853.4	17652.4	16636.5	12693.4
70°	24951.4	36725.5	37361.0	32446.1	20100.0	12983.7	11235.3	8145.6
72.5°	22503.8	32369.1	31054.0	28177.5	17665.7	9454.1	8103.9	5790.3
75°	19596.5	26640.3	24461.0	23412.0	14626.4	7419.9	5862.9	3995.9
77.5°	15693.1	18752.0	18169.3	18147.2	10991.3	5420.8	3912.2	2504.8
80°	11070.4	12170.0	11873.1	13667.7	7373.6	3932.0	2355.2	1394.2
82.5°	5359.3	6729.3	6907.5	8139.0	3586.8	2313.5	543.1	303.5
85°	2098.0	3246.0	2737.9	3089.8	1007.2	644.3	13.2	0.0
87.5°	235.3	376.1	345.2	272.6	123.1	26.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)