

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: P970392

Luminaire Tested: **NAV-SB6B-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970392
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-SB6B-740-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA 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: 28260.3 lumens
Efficiency: N/A
Efficacy: 128.2 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): 220.4
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

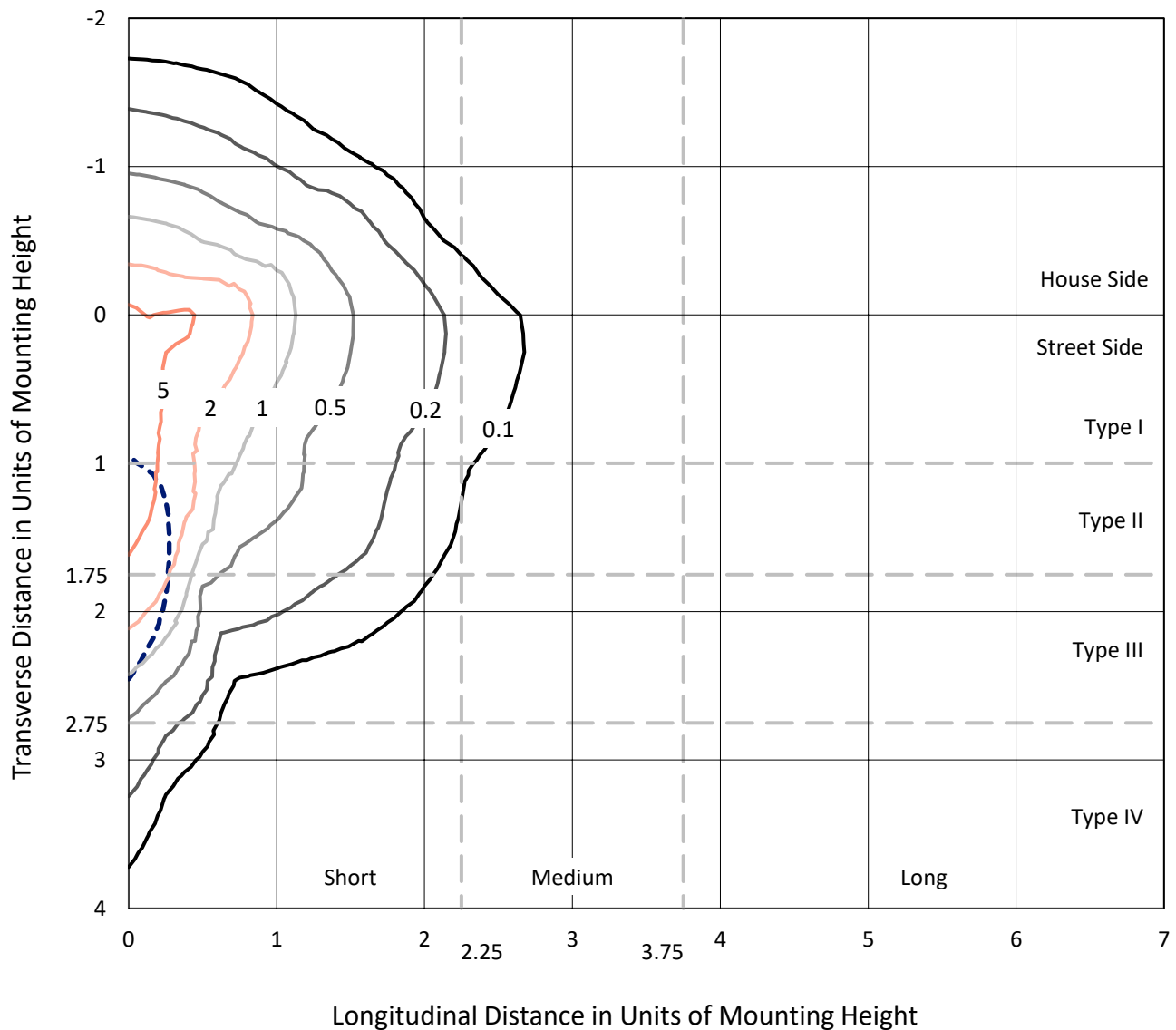


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Iso-Footcandle Lines of Horizontal Illumination

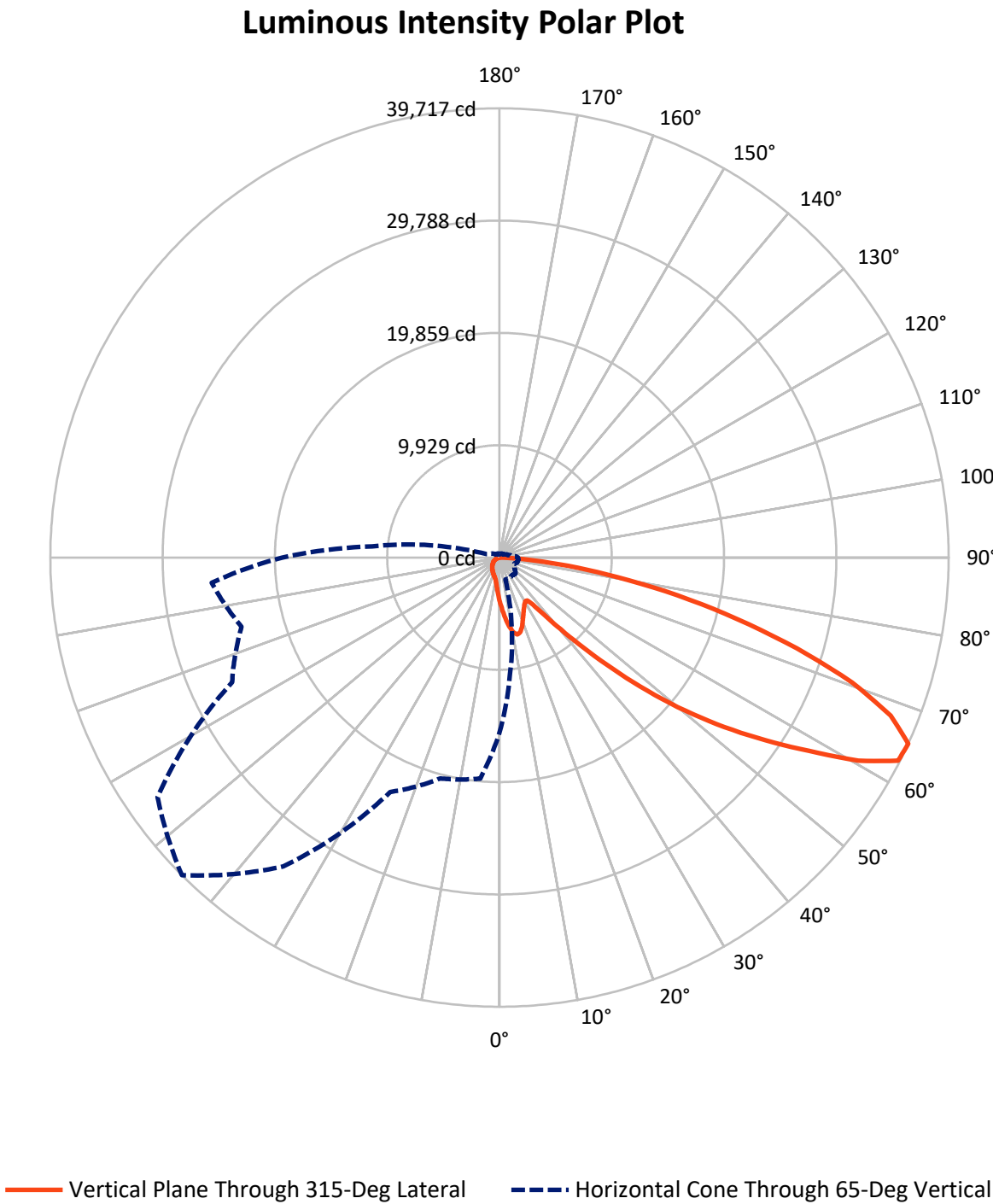
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc

Type IV - Short - N/A

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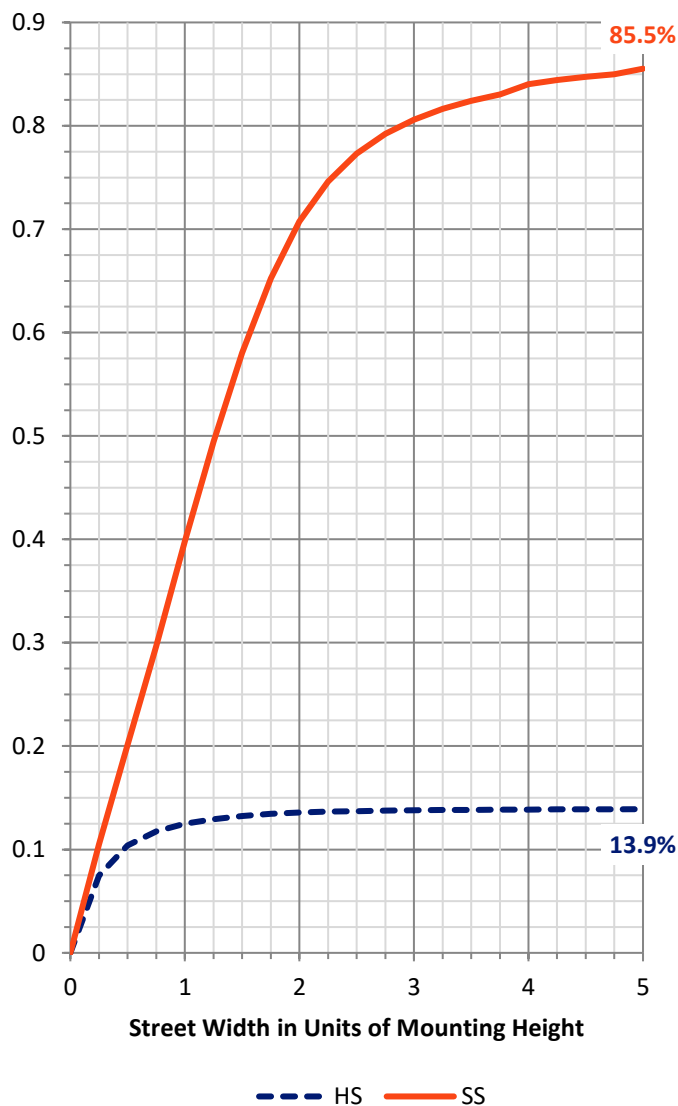
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3957.6	0.0	3957.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24302.6	0.0	24302.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	28260.3	0.0	28260.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.3	1.4
10°-20°	1154.9	4.1
20°-30°	1701.4	6.0
30°-40°	2185.8	7.7
40°-50°	3535.2	12.5
50°-60°	6199.2	21.9
60°-70°	7756.9	27.4
70°-80°	4532.8	16.0
80°-90°	808.7	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°	28260.3	100.0
0°-180°	28260.3	100.0

Coefficient of Utilization



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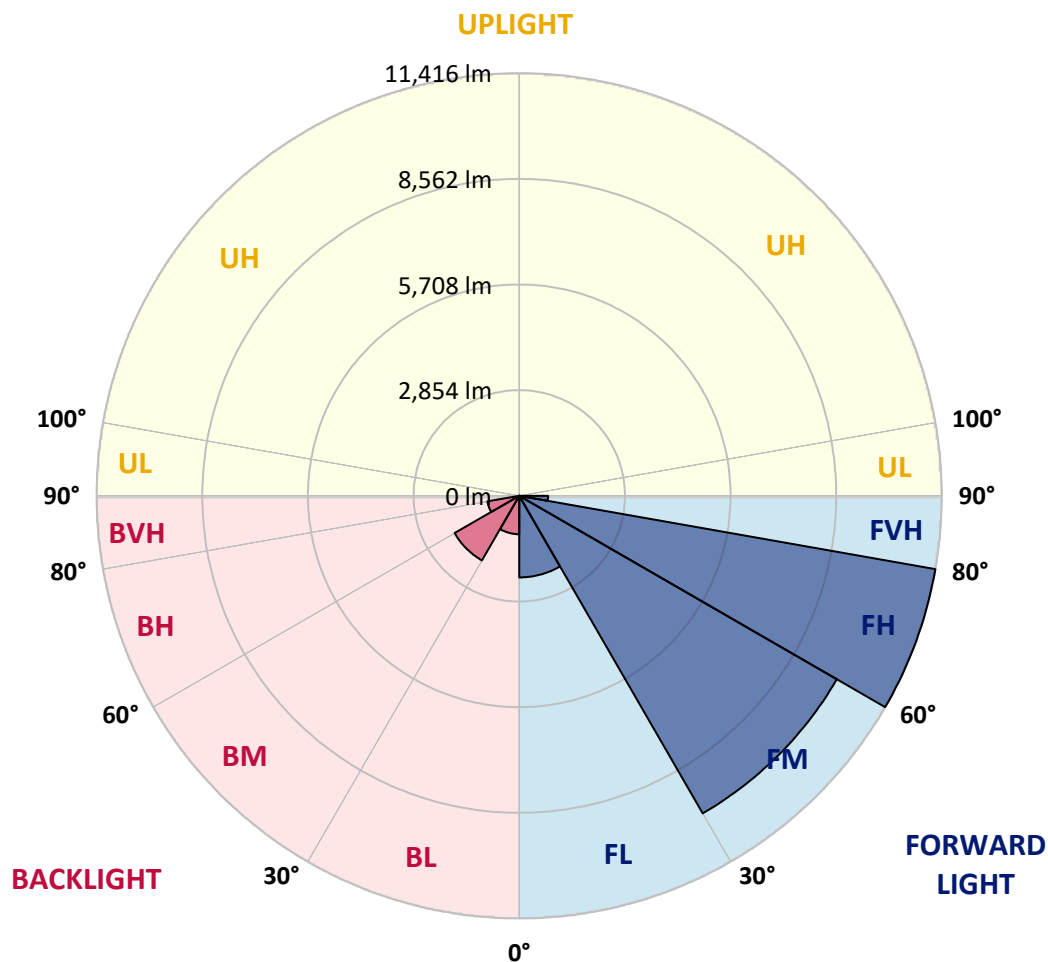
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2204.2	7.8			
FM	(30°-60°)	9904.9	35.0			
FH	(60°-80°)	11415.9	40.4			G4/12000
FVH	(80°-90°)	777.7	2.8			G5
BL	(0°-30°)	1037.4	3.7	B3/2500		
BM	(30°-60°)	2015.3	7.1	B2/2500		
BH	(60°-80°)	873.9	3.1	B2/1000		G2/1000
BVH	(80°-90°)	31.1	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°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	4421.2	4345.4	4300.6	4189.6	4078.6	3989.1	3868.3	3788.5	3693.2	3601.6	3519.8
5°	4927.5	4804.8	4656.9	4454.3	4269.4	4080.5	3897.6	3716.5	3525.7	3350.5	3243.4
7.5°	5355.7	5178.6	4917.7	4649.1	4413.4	4185.7	3971.6	3732.1	3500.4	3225.9	3079.9
10°	5682.8	5457.0	5114.3	4761.9	4491.3	4261.6	4053.4	3850.8	3617.2	3286.3	3103.3
12.5°	5881.3	5640.0	5233.1	4820.4	4510.8	4253.9	4092.2	4002.7	3911.2	3582.2	3368.0
15°	6027.4	5766.5	5316.8	4861.3	4466.0	4150.6	4031.9	4121.4	4226.6	4016.4	3769.0
17.5°	6179.2	5904.7	5425.8	4878.8	4345.4	3950.1	3899.5	4131.2	4374.5	4364.9	4119.5
20°	6323.3	6050.8	5521.3	4867.1	4150.6	3706.8	3751.6	4047.5	4329.8	4448.5	4316.2
22.5°	6488.8	6200.6	5612.7	4822.3	3897.6	3479.0	3619.2	3915.1	4162.3	4302.5	4261.6
25°	6691.3	6389.5	5741.2	4756.1	3625.0	3290.1	3484.8	3761.3	3961.8	4059.2	4057.3
27.5°	6909.3	6615.4	5912.5	4721.0	3405.0	3155.9	3333.0	3578.3	3757.4	3825.5	3825.5
30°	7179.9	6878.2	6115.0	4682.1	3260.9	3078.0	3175.2	3366.1	3541.3	3609.4	3609.4
32.5°	7475.8	7170.2	6309.7	4588.7	3173.3	3019.5	3021.5	3142.2	3301.8	3383.6	3395.3
35°	7845.8	7520.6	6518.0	4384.2	3103.3	2951.4	2871.5	2930.0	3062.4	3159.8	3185.0
37.5°	8373.3	7980.1	6773.1	4092.2	3000.1	2846.3	2713.9	2727.5	2828.8	2935.8	2974.8
40°	9101.5	8597.2	7072.9	3788.5	2852.2	2698.3	2540.7	2534.8	2608.7	2713.9	2756.7
42.5°	10086.6	9413.0	7433.0	3498.4	2710.0	2519.2	2357.6	2347.9	2406.3	2497.8	2542.6
45°	11387.0	10456.4	7875.0	3249.2	2599.0	2344.0	2184.4	2180.5	2229.2	2308.9	2355.7
47.5°	13051.6	11906.8	8316.8	3079.9	2540.7	2205.8	2042.2	2050.0	2092.8	2164.9	2198.0
50°	15206.8	13797.2	8451.2	2994.2	2540.7	2131.8	1915.7	1954.7	1989.6	2044.2	2063.6
52.5°	17790.2	15611.7	8007.3	2916.3	2556.2	2141.5	1808.6	1892.4	1917.7	1964.3	1972.1
55°	20184.8	16501.4	6884.0	2809.3	2560.1	2201.9	1717.1	1841.7	1888.5	1906.0	1904.0
57.5°	21574.8	16195.7	5566.1	2628.2	2544.6	2242.8	1658.7	1779.4	1869.0	1880.7	1863.1
60°	21310.1	15123.1	4098.1	2490.0	2429.7	2227.2	1641.2	1684.0	1826.1	1843.7	1820.3
62.5°	19269.8	13324.2	2844.4	2382.9	2176.6	2159.1	1635.4	1534.1	1732.7	1775.5	1742.4
65°	15489.1	10489.5	2009.1	2051.9	1907.9	2011.0	1604.2	1378.3	1619.8	1678.1	1627.6
67.5°	11237.2	7098.1	1450.4	1662.6	1728.8	1771.6	1534.1	1265.5	1491.3	1569.2	1503.0
70°	7211.1	3833.3	1018.2	1098.0	1456.2	1504.9	1413.4	1164.2	1360.8	1450.4	1378.3
72.5°	5126.0	2264.1	732.1	769.0	1170.0	1253.8	1244.0	1051.3	1209.0	1318.0	1232.4
75°	3537.4	1247.9	494.5	549.0	848.8	1018.2	959.8	903.3	1024.1	1135.0	1051.3
77.5°	2217.5	558.7	295.9	381.6	556.8	800.1	658.0	698.9	798.2	901.4	813.7
80°	1234.3	216.1	165.4	253.1	303.7	582.1	364.1	449.8	587.9	661.9	591.8
82.5°	268.7	27.3	74.0	109.1	118.8	338.8	192.7	260.9	369.9	364.1	315.4
85°	0.0	0.0	13.6	15.6	7.8	146.1	70.1	85.7	120.7	113.0	85.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3504.3	3408.9	3338.8	3303.8	3274.6	3301.8	3317.4	3317.4	3383.6	3422.6	3438.2
5°	3175.2	3004.0	2873.5	2786.0	2733.4	2750.9	2770.4	2791.8	2875.4	2931.9	2968.9
7.5°	2947.5	2684.7	2486.1	2363.4	2299.2	2308.9	2322.5	2340.1	2421.9	2478.3	2527.0
10°	2904.6	2527.0	2246.7	2085.1	2007.2	1993.5	1985.7	1979.9	2028.6	2071.4	2110.4
12.5°	3079.9	2534.8	2143.5	1946.9	1851.5	1810.6	1763.8	1726.8	1734.6	1761.9	1810.6
15°	3393.4	2634.0	2110.4	1874.8	1756.0	1687.9	1633.4	1588.6	1578.9	1588.6	1596.4
17.5°	3751.6	2768.4	2106.5	1812.5	1664.5	1594.5	1549.7	1508.8	1495.2	1497.1	1506.9
20°	3989.1	2875.4	2094.8	1742.4	1577.0	1514.6	1475.7	1434.8	1421.2	1425.1	1427.0
22.5°	4012.5	2931.9	2077.3	1664.5	1489.3	1436.7	1397.8	1360.8	1358.8	1358.8	1370.5
25°	3885.9	2931.9	2040.3	1594.5	1405.6	1358.8	1323.9	1279.1	1286.9	1290.8	1306.4
27.5°	3689.3	2861.9	1970.2	1538.0	1333.6	1284.9	1249.9	1209.0	1218.7	1224.6	1242.1
30°	3494.5	2772.3	1886.5	1473.7	1265.5	1209.0	1183.7	1148.6	1152.5	1160.3	1179.8
32.5°	3313.5	2676.9	1787.2	1421.2	1197.3	1140.8	1121.4	1082.4	1088.2	1096.0	1117.5
35°	3134.4	2571.7	1670.3	1358.8	1135.0	1078.5	1062.9	1018.2	1022.1	1033.8	1057.1
37.5°	2941.6	2460.8	1575.0	1296.6	1074.6	1016.3	1000.7	954.0	957.9	971.5	998.8
40°	2739.2	2351.8	1481.5	1230.4	1010.4	952.0	938.4	887.8	891.6	907.2	936.4
42.5°	2534.8	2233.1	1409.5	1144.7	944.2	881.9	868.3	821.5	827.4	844.9	874.1
45°	2345.9	2090.9	1362.7	1049.4	881.9	811.8	798.2	755.3	767.0	786.5	815.7
47.5°	2184.4	1944.9	1343.4	969.5	815.7	739.8	728.2	693.1	712.6	734.0	757.3
50°	2046.1	1804.7	1318.0	887.8	753.4	677.5	665.8	642.5	667.8	689.2	710.6
52.5°	1946.9	1645.1	1263.5	813.7	698.9	624.9	621.0	609.4	632.7	652.2	671.7
55°	1861.2	1479.6	1175.9	749.6	650.3	580.2	584.0	578.2	597.7	613.3	630.8
57.5°	1783.3	1335.6	1064.9	698.9	597.7	541.2	552.9	545.1	554.8	564.6	586.0
60°	1689.8	1189.5	932.5	642.5	535.4	502.2	515.9	494.5	492.5	496.4	502.2
62.5°	1551.6	992.9	794.3	572.4	480.8	459.4	465.2	424.5	393.3	393.3	399.1
65°	1358.8	798.2	665.8	494.5	418.6	401.1	397.2	338.8	295.9	292.0	309.5
67.5°	1135.0	656.1	552.9	416.7	348.5	336.8	340.7	297.9	255.0	251.1	270.6
70°	924.8	543.1	445.9	332.9	268.7	280.3	297.9	255.0	214.1	208.3	225.8
72.5°	751.5	432.2	348.5	255.0	198.5	231.6	253.1	208.3	169.3	165.4	181.0
75°	580.2	317.3	249.2	173.2	144.1	179.1	198.5	151.8	120.7	114.9	128.5
77.5°	387.4	196.6	140.2	109.1	85.7	122.7	132.4	79.8	70.1	68.2	77.9
80°	235.5	91.5	60.4	52.6	29.2	44.8	52.6	33.1	37.0	38.9	46.7
82.5°	118.8	25.3	9.7	1.9	0.0	0.0	15.6	7.8	15.6	19.5	29.2
85°	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.7	17.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
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°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3547.1	3628.9	3706.8	3831.3	3959.9	4086.4	4214.9	4339.5	4384.2	4417.3	4491.3
5°	3138.3	3292.1	3471.2	3718.5	3983.3	4255.8	4532.2	4785.3	4900.2	4978.0	5153.3
7.5°	2715.8	2916.3	3173.3	3545.2	3959.9	4394.0	4828.2	5227.3	5412.2	5562.2	5828.9
10°	2297.2	2515.4	2840.5	3264.8	3825.5	4448.5	5048.1	5597.1	5836.7	6025.5	6387.6
12.5°	1929.4	2133.7	2474.5	2943.6	3615.3	4405.7	5174.7	5834.7	6117.0	6329.2	6726.4
15°	1670.3	1814.5	2116.2	2622.4	3366.1	4267.5	5182.5	5947.6	6257.1	6479.0	6823.6
17.5°	1526.3	1575.0	1771.6	2295.3	3089.7	4086.4	5110.4	5986.5	6317.5	6523.8	6763.4
20°	1448.4	1456.2	1510.7	1870.9	2735.3	3917.0	5042.3	6025.5	6374.0	6547.2	6619.2
22.5°	1386.1	1386.1	1399.7	1530.2	2277.8	3714.6	5020.9	6093.6	6451.9	6558.9	6411.0
25°	1329.7	1329.7	1333.6	1368.6	1804.7	3405.0	5007.2	6198.7	6558.9	6588.1	6181.2
27.5°	1271.3	1273.3	1273.3	1292.7	1454.3	2984.5	4948.9	6335.0	6687.4	6627.0	5961.2
30°	1212.9	1216.8	1216.8	1230.4	1286.9	2492.0	4834.0	6498.5	6854.8	6677.7	5743.2
32.5°	1154.5	1158.4	1158.4	1170.0	1210.9	1989.6	4689.9	6648.5	7024.2	6699.1	5540.7
35°	1094.1	1099.9	1096.0	1111.6	1154.5	1582.8	4506.9	6798.3	7207.2	6767.3	5441.4
37.5°	1033.8	1037.7	1035.8	1051.3	1099.9	1366.6	4294.8	6911.3	7456.4	6919.1	5560.2
40°	973.4	971.5	971.5	989.0	1041.6	1304.4	4028.0	7090.3	7814.6	7185.8	6078.0
42.5°	911.1	911.1	907.2	926.7	991.0	1257.7	3772.9	7411.6	8336.3	7610.2	6997.0
45°	854.6	852.7	844.9	862.4	942.3	1175.9	3683.4	8011.2	9107.3	8297.4	8108.6
47.5°	800.1	798.2	778.7	794.3	883.9	1101.9	4018.3	8992.4	10176.1	9307.8	9150.2
50°	751.5	753.4	716.5	730.1	825.4	1045.5	4744.4	10265.7	11595.4	10668.7	10137.1
52.5°	706.7	706.7	658.0	665.8	753.4	994.9	5435.6	11645.9	13468.2	12566.8	11287.8
55°	661.9	658.0	603.5	607.4	681.4	922.8	5538.8	12993.2	16022.5	15422.9	12860.8
57.5°	611.3	603.5	552.9	552.9	615.2	870.2	4800.9	14028.9	19191.9	19620.2	15128.9
60°	549.0	543.1	510.0	500.3	562.6	917.0	3387.5	14149.6	21236.2	25201.8	19472.2
62.5°	469.1	476.9	459.4	445.9	512.0	952.0	2007.2	13178.1	20741.6	26977.3	24674.2
65°	369.9	401.1	397.2	387.4	562.6	802.1	1185.6	11313.0	19225.0	25544.4	23613.2
67.5°	315.4	336.8	331.0	331.0	589.9	609.4	745.7	8838.7	17138.0	23844.9	21092.0
70°	268.7	290.1	268.7	268.7	445.9	369.9	515.9	6171.5	14885.6	21964.2	19437.2
72.5°	221.9	243.3	220.0	204.4	356.3	276.4	377.7	3856.7	12747.9	20005.7	18304.1
75°	169.3	194.6	177.1	157.6	235.5	206.3	286.2	2240.9	10561.6	17116.6	16690.3
77.5°	107.1	140.2	132.4	111.0	173.2	150.0	206.3	1333.6	8149.5	13374.8	14355.9
80°	66.2	72.1	74.0	70.1	99.3	101.3	140.2	759.2	5577.6	9321.5	11215.8
82.5°	42.8	42.8	33.1	37.0	48.7	58.4	79.8	286.2	3278.5	5675.0	7806.8
85°	31.2	27.3	17.5	17.5	23.4	29.2	31.2	87.6	1329.7	2240.9	3052.7
87.5°	15.6	13.6	5.8	7.8	11.7	9.7	7.8	3.9	334.9	716.5	502.2
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°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	4530.3	4590.7	4594.6	4594.6	4542.0	4540.0	4432.9	4421.2
5°	5334.3	5373.3	5383.0	5363.5	5258.5	5180.6	4972.2	4927.5
7.5°	6070.3	6148.2	6148.2	6101.4	5930.0	5770.4	5468.7	5355.7
10°	6658.2	6747.8	6728.3	6632.9	6416.8	6196.7	5830.8	5682.8
12.5°	6944.4	7035.9	6985.3	6876.2	6666.0	6434.3	6048.8	5881.3
15°	6938.5	6913.2	6860.6	6847.0	6745.8	6570.6	6210.4	6027.4
17.5°	6691.3	6477.2	6436.3	6572.5	6701.0	6658.2	6350.6	6179.2
20°	6300.0	5926.1	5889.1	6150.1	6516.0	6703.0	6481.0	6323.3
22.5°	5887.2	5484.3	5398.6	5686.7	6237.6	6716.6	6646.5	6488.8
25°	5495.9	5091.0	5005.3	5273.9	5928.1	6693.2	6825.6	6691.3
27.5°	5168.9	4777.5	4697.7	4966.4	5630.2	6627.0	7004.7	6909.3
30°	4915.8	4553.7	4495.2	4754.2	5373.3	6545.2	7232.5	7179.9
32.5°	4767.8	4503.0	4524.5	4736.6	5235.1	6455.8	7450.5	7475.8
35°	4913.8	4925.5	5112.4	5200.0	5363.5	6442.1	7746.4	7845.8
37.5°	5640.0	6044.9	6432.4	6360.3	5992.4	6599.8	8188.4	8373.3
40°	6876.2	7707.5	8336.3	8061.8	7135.1	7082.5	8825.0	9101.5
42.5°	8387.0	9796.4	10832.2	10096.2	8608.9	7927.6	9734.2	10086.6
45°	9981.4	12372.2	14003.7	12473.4	10180.0	9111.2	11110.6	11387.0
47.5°	11661.5	15502.7	17613.1	15109.4	11636.2	10458.4	12987.4	13051.6
50°	13499.4	18934.9	21292.5	17743.5	13041.9	12002.2	15280.7	15206.8
52.5°	15249.5	22464.5	24894.2	20389.2	14276.2	13918.0	17942.0	17790.2
55°	16920.0	25992.3	28517.2	22931.8	15440.4	16448.8	21103.7	20184.8
57.5°	18857.0	29163.6	32251.3	25486.0	17067.9	19735.1	24639.2	21574.8
60°	21720.9	32767.2	36474.0	28986.5	20163.4	23188.8	25906.6	21310.1
62.5°	25377.1	36080.7	39544.2	32416.8	23272.5	23839.0	24039.5	19269.8
65°	26087.6	36919.8	39717.4	33333.7	22871.4	20221.8	19626.1	15489.1
67.5°	24203.1	35403.3	37295.5	31626.4	20231.6	15627.3	14727.8	11237.2
70°	22088.9	32512.2	33074.8	28723.7	17794.1	11494.1	9946.4	7211.1
72.5°	19922.0	28655.5	27491.3	24944.8	15638.9	8369.4	7174.1	5126.0
75°	17348.2	23584.0	21654.7	20726.0	12948.4	6568.6	5190.3	3537.4
77.5°	13892.6	16600.7	16084.8	16065.3	9730.3	4798.9	3463.5	2217.5
80°	9800.3	10773.8	10511.0	12099.6	6527.7	3480.9	2085.1	1234.3
82.5°	4744.4	5957.3	6115.0	7205.2	3175.2	2048.1	480.8	268.7
85°	1857.3	2873.5	2423.8	2735.3	891.6	570.4	11.7	0.0
87.5°	208.3	332.9	305.7	241.4	109.1	23.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)