

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: P969870

Luminaire Tested: **NAV-SB6A-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30045.8 lumens
Efficiency: N/A
Efficacy: 175.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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



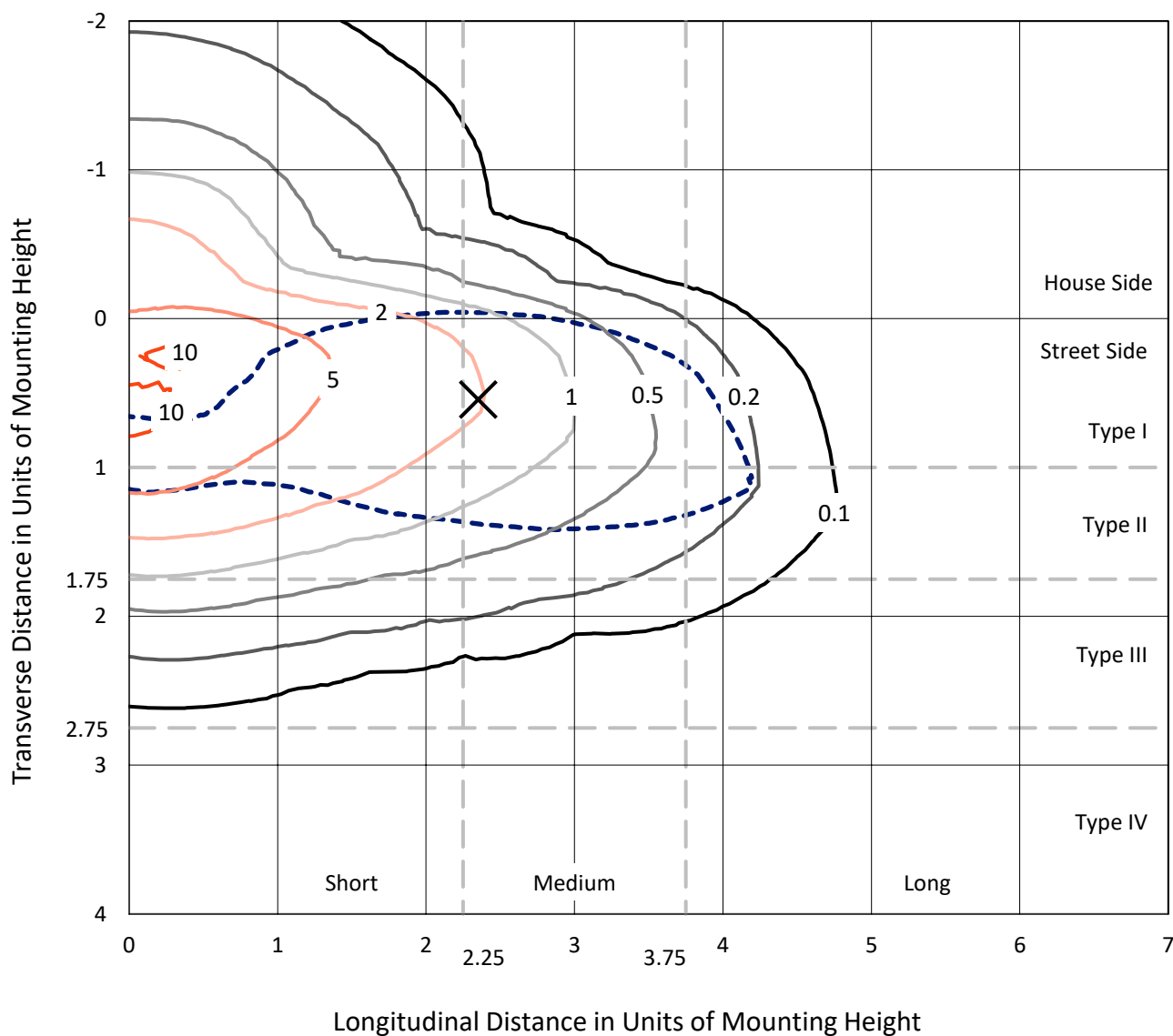
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

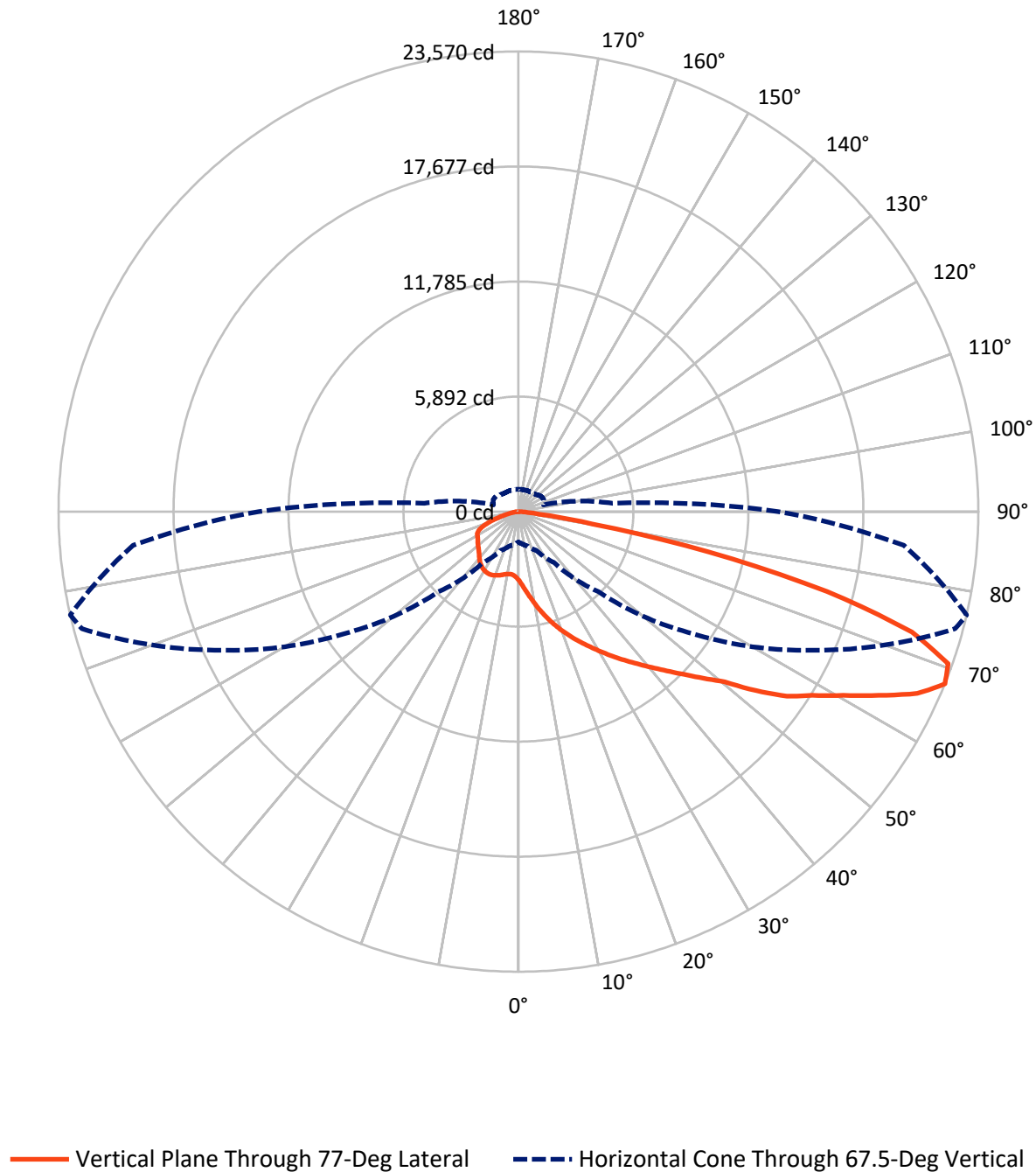
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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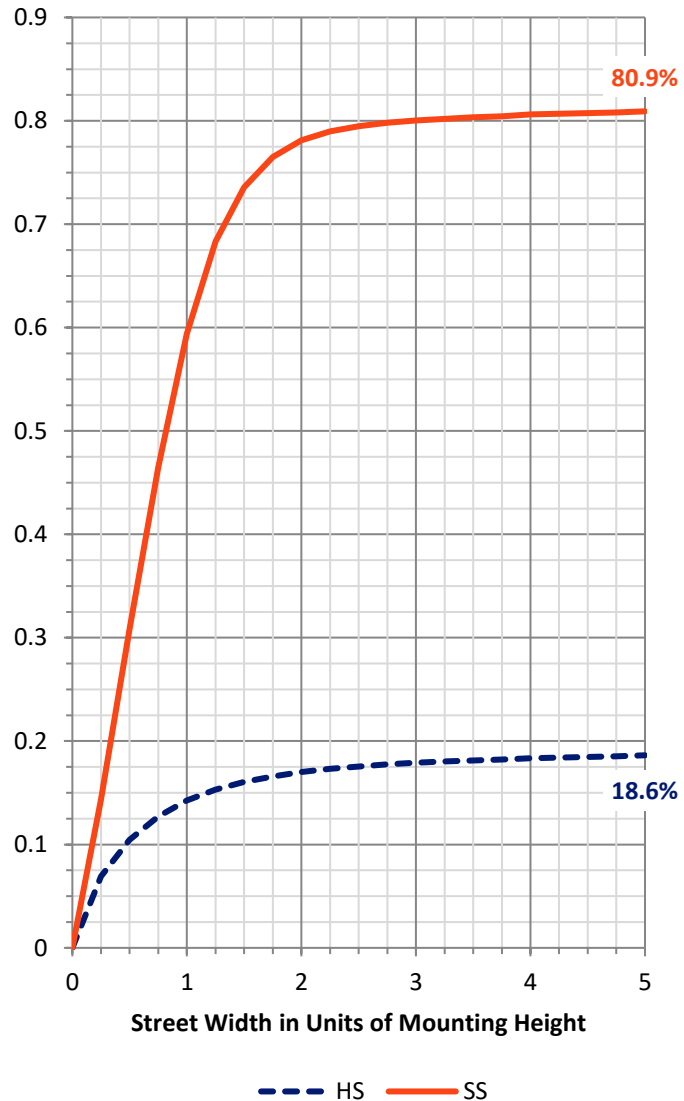
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5683.5	0.0	5683.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	24362.4	0.0	24362.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	30045.8	0.0	30045.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.9	1.3
10°-20°	1357.5	4.5
20°-30°	2563.1	8.5
30°-40°	4129.2	13.7
40°-50°	5647.9	18.8
50°-60°	6370.9	21.2
60°-70°	5946.5	19.8
70°-80°	3259.7	10.8
80°-90°	393.2	1.3
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°	30045.8	100.0
0°-180°	30045.8	100.0

Coefficient of Utilization



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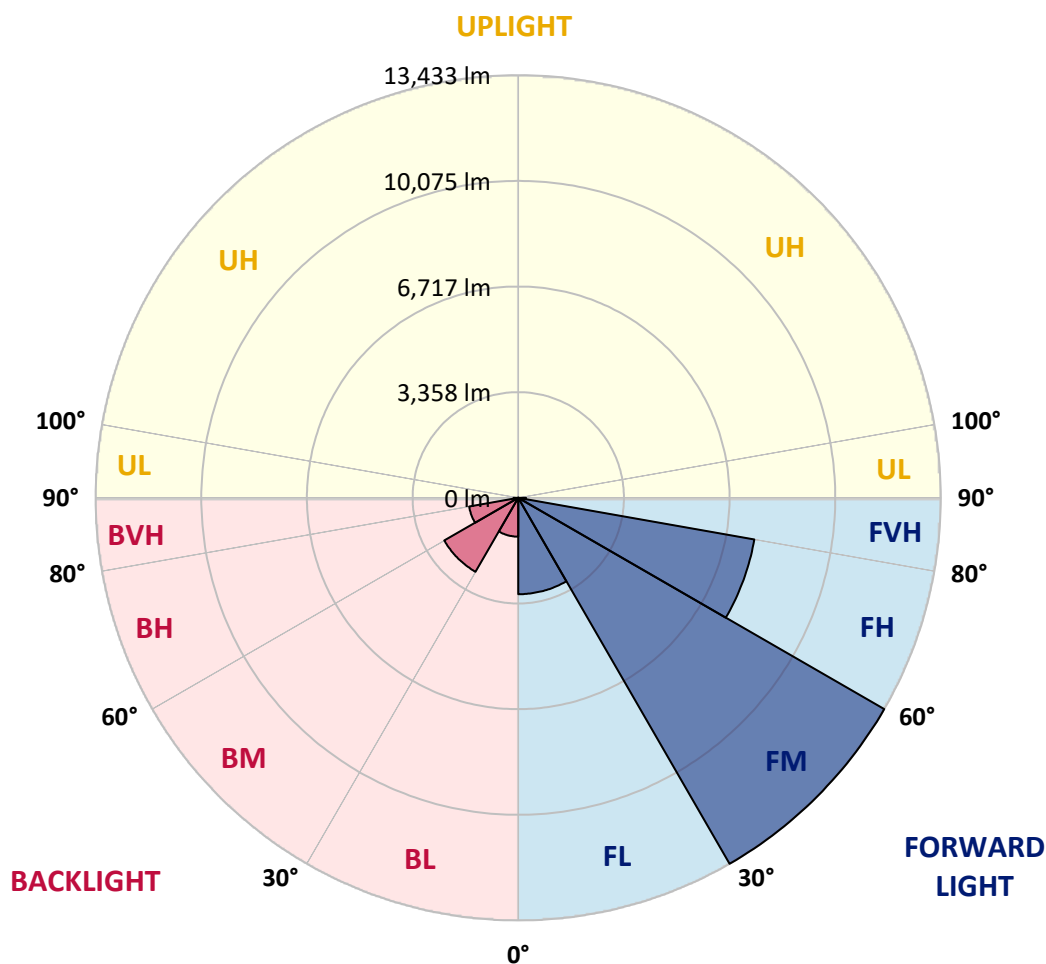
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3062.8	10.2			
FM	(30°-60°)	13433.2	44.7			
FH	(60°-80°)	7620.5	25.4			G4/12000
FVH	(80°-90°)	245.9	0.8			G3/500
BL	(0°-30°)	1235.7	4.1	B3/2500		
BM	(30°-60°)	2714.8	9.0	B3/5000		
BH	(60°-80°)	1585.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	147.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3
2.5°	4414.0	4445.0	4406.3	4406.3	4276.0	4207.7	4077.4	3978.2	3799.8	3768.8	3650.9
5°	5217.4	5256.2	5201.9	5178.6	5025.1	4883.9	4665.3	4449.6	4131.8	4099.2	3821.5
7.5°	5839.3	5888.9	5840.9	5816.1	5679.6	5521.4	5265.4	4964.6	4516.4	4452.8	4051.1
10°	6346.5	6354.3	6338.7	6348.0	6241.0	6110.7	5848.6	5498.1	4938.2	4851.3	4328.7
12.5°	6633.4	6669.1	6700.1	6756.0	6737.3	6656.7	6420.9	6002.2	5384.9	5273.2	4631.2
15°	6768.4	6830.4	6900.2	7028.9	7132.8	7153.0	6973.1	6543.5	5839.3	5704.4	4936.7
17.5°	6816.5	6875.4	6985.5	7171.6	7395.0	7545.3	7464.8	7069.2	6289.1	6134.0	5257.7
20°	7059.9	7077.0	7143.6	7320.4	7562.4	7812.1	7872.6	7574.9	6734.2	6559.0	5589.6
22.5°	7581.0	7547.0	7565.5	7646.2	7819.9	8061.8	8199.9	8021.5	7191.7	6990.1	5924.6
25°	8441.8	8342.6	8243.3	8150.3	8238.6	8375.2	8531.8	8468.1	7671.0	7415.1	6262.7
27.5°	9529.0	9408.1	9189.3	8883.9	8776.9	8824.9	8894.7	8882.2	8114.6	7855.6	6611.7
30°	10599.2	10458.1	10197.5	9755.4	9473.2	9346.1	9293.3	9257.6	8596.9	8320.8	6963.7
32.5°	11453.8	11342.1	11086.2	10591.4	10181.9	9964.8	9789.6	9662.4	9101.0	8824.9	7336.0
35°	12201.3	12097.4	11804.3	11264.5	10819.4	10588.4	10358.8	10087.3	9625.2	9346.1	7736.2
37.5°	12883.7	12779.8	12378.1	11816.7	11368.5	11208.7	11004.0	10543.4	10151.0	9887.4	8159.5
40°	13314.9	13291.7	12916.3	12280.4	11815.2	11736.0	11667.8	11072.3	10734.1	10489.0	8624.9
42.5°	13425.0	13476.2	13178.4	12655.8	12212.2	12148.6	12308.3	11670.9	11388.7	11154.5	9152.1
45°	13159.8	13307.2	13111.7	12756.5	12494.4	12460.3	12875.9	12325.4	12112.9	11898.9	9788.0
47.5°	12488.3	12738.0	12657.3	12607.7	12570.5	12717.8	13375.4	13020.3	12933.3	12747.2	10513.9
50°	11132.7	11605.8	11746.9	12060.2	12420.0	12917.9	13829.8	13778.7	13891.8	13704.1	11397.9
52.5°	8789.3	9440.7	10259.5	11044.3	11957.9	12851.1	14329.2	14867.4	15345.1	15242.8	12803.1
55°	7255.4	7548.5	8178.2	9617.5	11061.4	12570.5	14554.1	15746.8	16787.4	16696.0	13868.6
57.5°	6076.6	6338.7	6726.5	7928.5	9705.8	11933.0	14693.7	16283.5	17775.4	17766.1	14920.1
60°	4812.6	5090.3	5487.2	6338.7	8122.3	10831.8	14662.7	16894.5	19036.4	19113.9	16202.8
62.5°	3385.7	3691.2	4131.8	4925.8	6504.6	9405.0	14029.9	17336.5	20520.6	20731.5	17745.9
65°	2225.6	2427.2	2759.1	3444.6	4846.7	7570.1	12821.7	17393.9	22108.7	22465.5	19194.6
67.5°	1560.3	1637.8	1833.2	2205.5	3194.9	5805.2	10897.0	16799.9	23168.1	23569.8	19822.7
70°	1217.5	1256.2	1355.6	1504.4	2007.0	3903.7	8350.3	15255.2	22941.7	23360.4	19166.7
72.5°	1051.5	1088.8	1126.0	1144.6	1346.2	2410.2	5656.4	12755.0	20809.1	21093.0	16665.0
75°	953.9	963.1	994.1	988.0	1026.7	1563.3	3264.7	9293.3	16418.3	16320.7	12302.2
77.5°	801.9	814.3	865.4	857.7	911.9	1068.6	1695.1	5997.5	10644.2	9980.3	6847.4
80°	679.3	685.5	741.4	732.1	792.5	773.9	865.4	3057.0	4514.8	3824.7	1974.4
82.5°	235.7	291.6	566.1	583.1	604.9	468.4	499.4	1246.9	1378.8	1056.2	414.1
85°	114.8	122.5	288.4	409.5	408.0	235.7	243.5	445.2	434.3	341.2	138.1
87.5°	18.7	23.3	34.1	159.8	127.2	62.0	83.7	86.8	90.0	77.6	31.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3	3525.3
2.5°	3564.1	3486.5	3323.7	3173.2	3055.3	2942.2	2878.6	2824.3	2793.2	2787.1	2787.1
5°	3660.3	3500.5	3204.3	2954.6	2791.7	2670.7	2607.2	2566.8	2546.6	2534.2	2532.7
7.5°	3798.2	3564.1	3142.2	2858.4	2687.8	2600.9	2568.3	2562.2	2560.7	2562.2	2566.8
10°	3989.0	3668.0	3136.0	2835.1	2692.5	2644.4	2642.9	2644.4	2650.5	2652.1	2653.7
12.5°	4195.3	3775.0	3160.8	2855.3	2751.4	2725.1	2720.4	2718.8	2723.4	2726.6	2728.1
15°	4420.2	3916.1	3202.7	2898.7	2816.5	2788.6	2784.0	2774.7	2773.1	2771.5	2770.0
17.5°	4651.3	4055.7	3249.2	2945.2	2858.4	2819.7	2802.6	2780.8	2763.8	2759.1	2763.8
20°	4885.5	4193.8	3281.8	2968.5	2861.5	2807.3	2773.1	2735.8	2706.4	2689.4	2695.5
22.5°	5135.1	4338.0	3301.9	2962.4	2833.6	2759.1	2697.1	2653.7	2608.7	2579.2	2580.7
25°	5378.7	4463.7	3300.4	2929.8	2779.3	2684.7	2605.5	2549.8	2487.7	2456.7	2456.7
27.5°	5612.9	4576.8	3261.7	2872.4	2701.8	2596.3	2501.7	2435.0	2374.5	2345.0	2343.5
30°	5854.8	4671.4	3201.2	2788.6	2610.3	2493.9	2390.0	2332.6	2278.4	2250.4	2248.8
32.5°	6095.3	4758.4	3115.9	2684.7	2504.8	2393.1	2290.8	2238.0	2205.5	2205.5	2207.0
35°	6349.6	4818.8	3002.6	2563.7	2393.1	2286.1	2205.5	2174.4	2171.4	2152.7	2148.1
37.5°	6617.9	4857.6	2864.6	2439.6	2283.0	2182.2	2157.4	2120.1	2089.2	2048.8	2042.6
40°	6900.2	4896.3	2698.6	2311.0	2166.6	2110.9	2100.0	2050.3	1962.0	1862.7	1848.7
42.5°	7243.0	4922.7	2526.5	2182.2	2044.2	2025.5	2041.1	1955.7	1814.7	1740.1	1741.7
45°	7639.9	4966.1	2368.3	2055.0	1918.5	1918.5	1983.7	1872.0	1755.7	1709.2	1716.9
47.5°	8154.9	5067.0	2221.0	1915.4	1802.2	1833.2	1856.5	1771.2	1706.0	1648.6	1647.1
50°	8899.4	5308.9	2069.0	1774.3	1713.8	1775.8	1743.2	1693.6	1617.7	1571.1	1566.5
52.5°	9823.7	5451.6	1934.1	1647.1	1637.8	1699.9	1653.3	1606.8	1549.4	1487.4	1475.0
55°	10453.4	5477.9	1820.8	1554.0	1586.6	1580.4	1563.3	1521.5	1490.5	1408.2	1409.8
57.5°	11157.5	5530.7	1727.7	1498.2	1554.0	1485.8	1479.6	1443.9	1403.6	1347.8	1329.1
60°	11999.7	5612.9	1647.1	1476.5	1526.1	1423.7	1392.8	1378.8	1338.4	1310.6	1318.4
62.5°	12917.9	5687.3	1564.9	1479.6	1493.5	1363.2	1316.7	1312.1	1287.3	1278.0	1278.0
65°	13544.5	5484.2	1462.6	1476.5	1442.4	1301.2	1242.3	1240.8	1220.6	1217.5	1216.0
67.5°	13325.7	4840.6	1324.5	1433.1	1389.7	1239.2	1174.0	1167.9	1141.5	1143.1	1143.1
70°	12230.8	3922.4	1133.8	1326.0	1324.5	1183.4	1102.7	1082.6	1046.9	1053.1	1059.3
72.5°	10177.3	2906.5	877.8	1147.7	1220.6	1132.2	1020.5	988.0	943.0	949.1	947.6
75°	7350.0	1975.9	639.0	873.2	1062.4	1071.7	939.9	884.1	829.7	839.1	842.1
77.5°	3761.0	1119.8	470.0	601.8	834.5	974.0	866.9	792.5	780.1	866.9	854.5
80°	1226.8	561.5	325.7	421.9	547.5	797.1	759.9	674.7	671.6	691.8	594.0
82.5°	366.0	237.3	209.4	277.6	302.5	611.1	656.1	510.2	438.9	462.2	477.6
85°	125.7	114.8	119.4	138.1	144.2	358.2	459.1	338.1	319.5	352.1	347.4
87.5°	29.4	40.3	34.1	31.1	31.1	86.8	178.4	141.1	195.5	130.3	125.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)