

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: P969855

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-740-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30000.7 lumens
Efficiency: N/A
Efficacy: 175.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

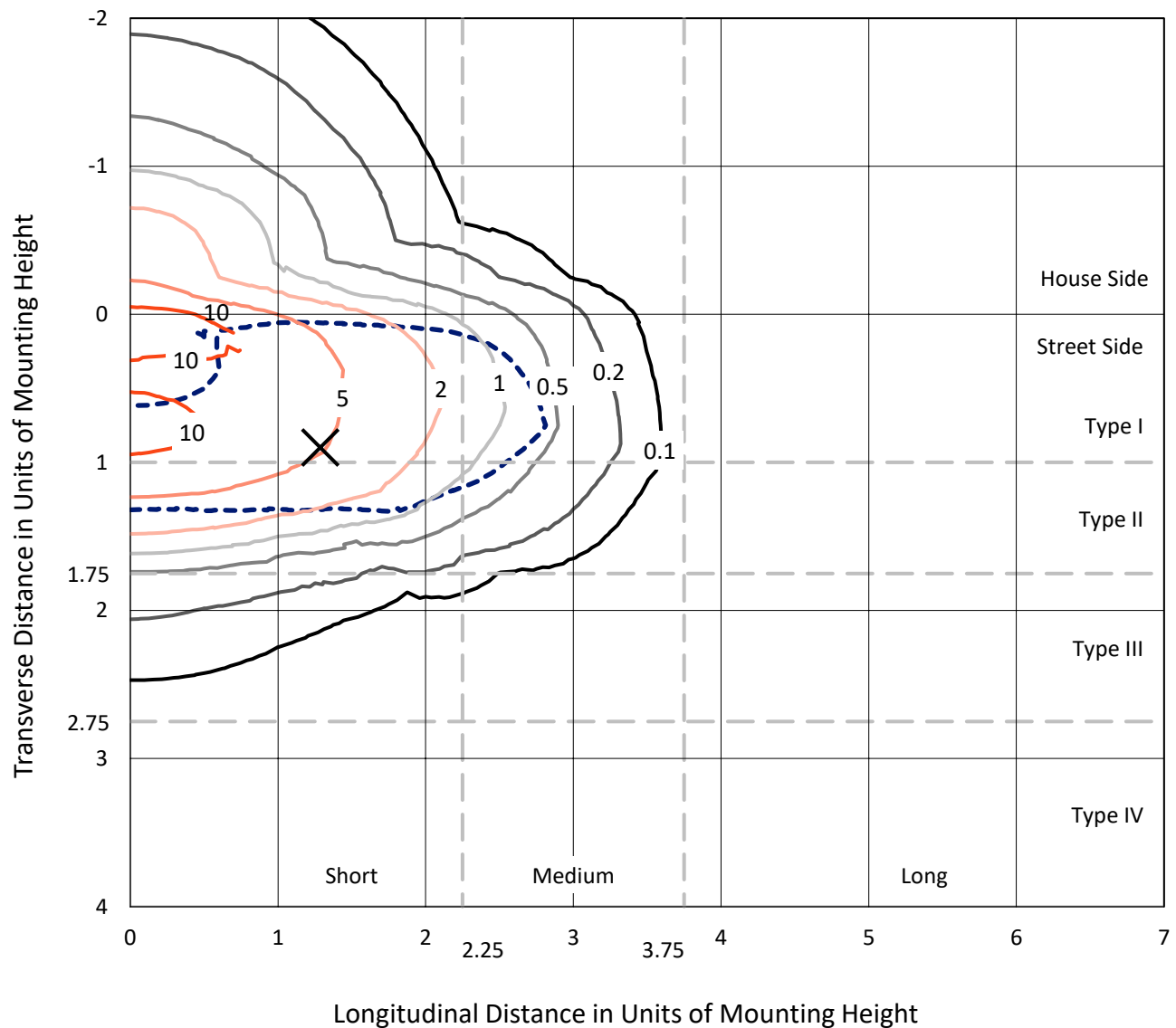


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Iso-Footcandle Lines of Horizontal Illumination

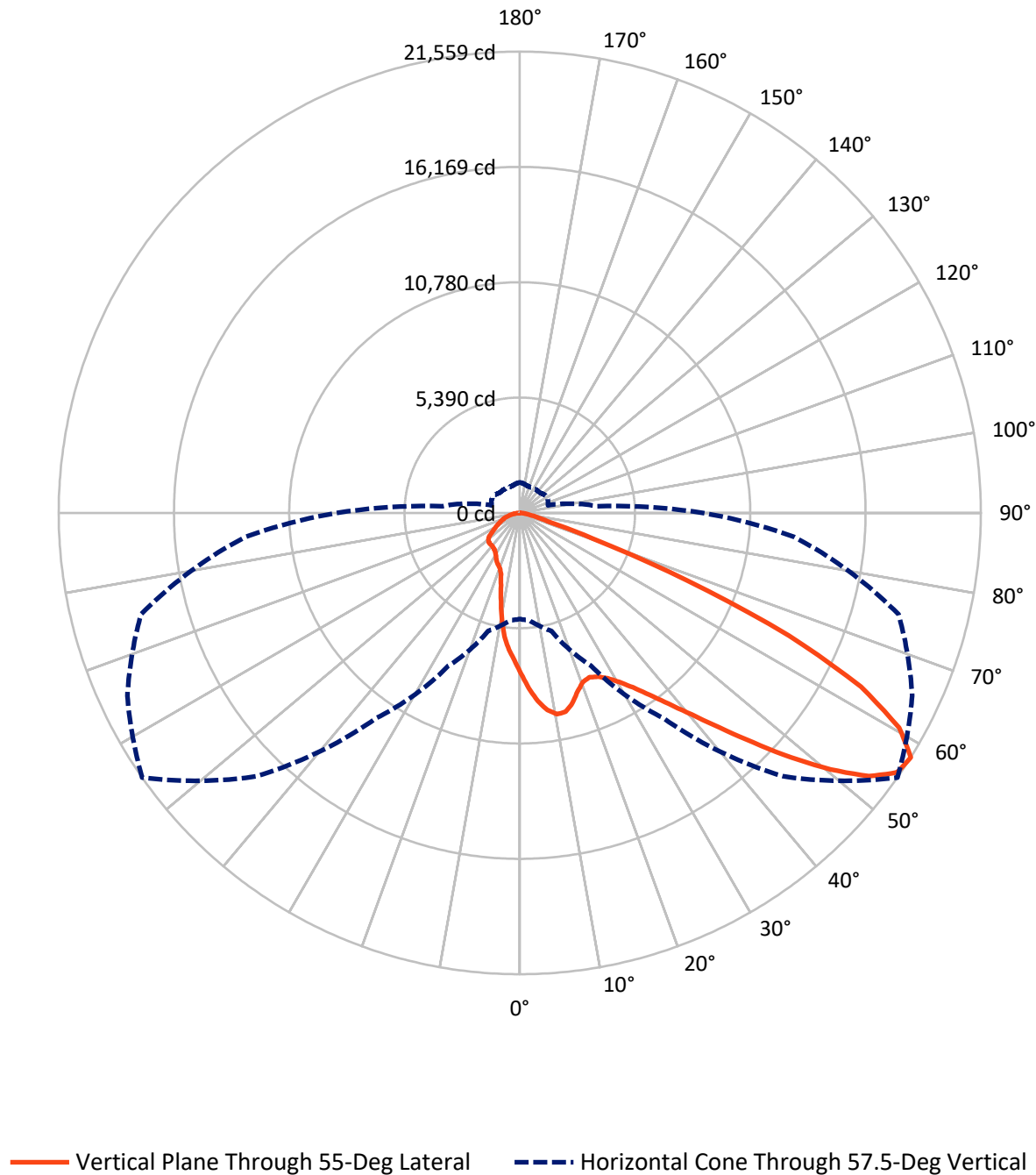
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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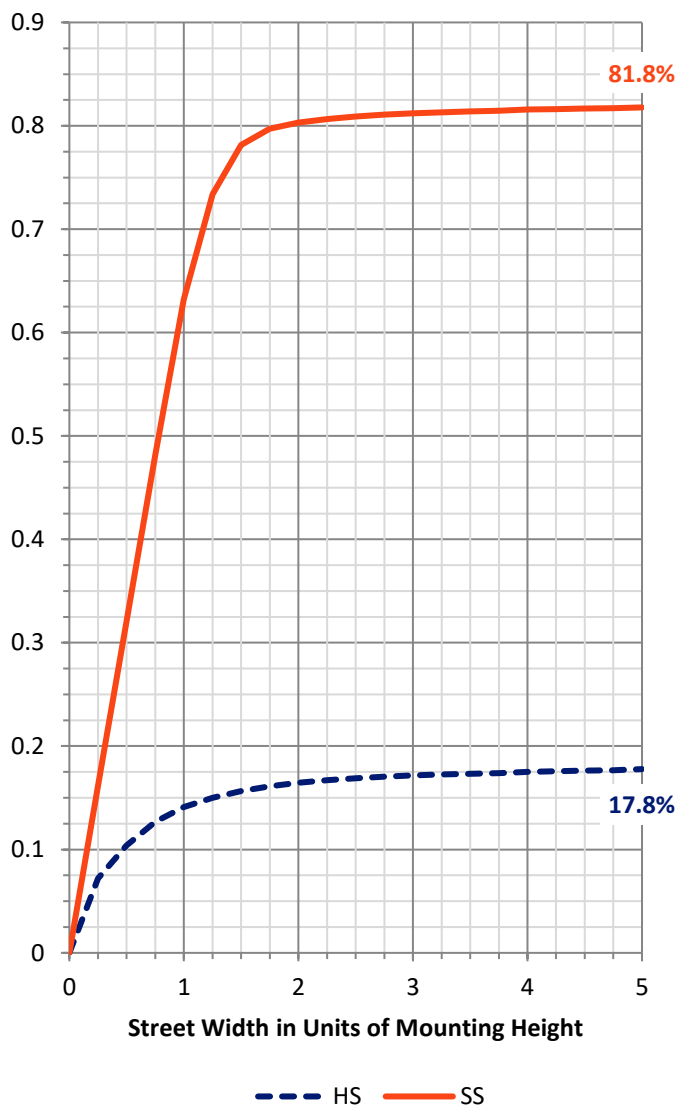
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5428.5	0.0	5428.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24572.2	0.0	24572.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	30000.7	0.0	30000.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.5	2.3
10°-20°	1760.7	5.9
20°-30°	2809.5	9.4
30°-40°	4448.1	14.8
40°-50°	6808.3	22.7
50°-60°	7292.4	24.3
60°-70°	4587.7	15.3
70°-80°	1356.7	4.5
80°-90°	239.9	0.8
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°	30000.7	100.0
0°-180°	30000.7	100.0

Coefficient of Utilization



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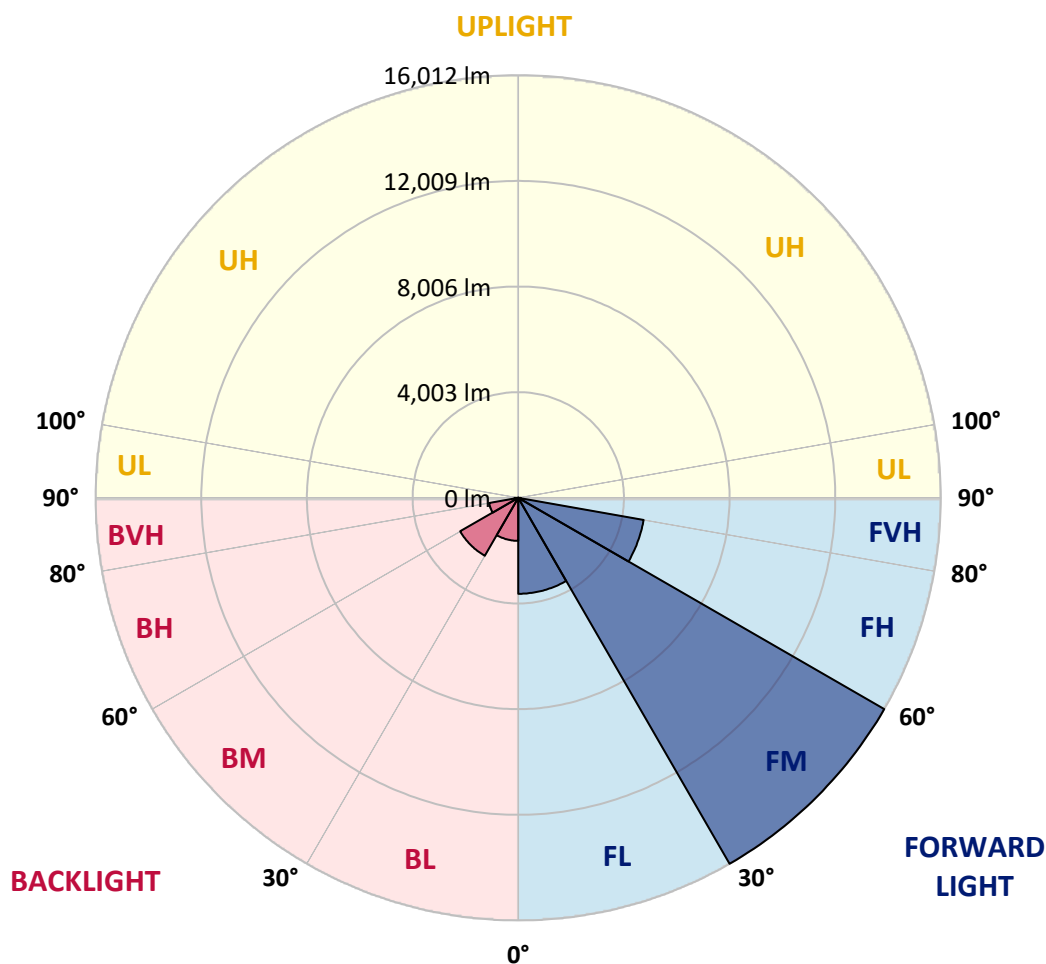
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3636.1	12.1			
FM	(30°-60°)	16011.6	53.4			
FH	(60°-80°)	4823.2	16.1			G2/5000
FVH	(80°-90°)	101.4	0.3			G2/225
BL	(0°-30°)	1631.6	5.4	B3/2500		
BM	(30°-60°)	2537.2	8.5	B3/5000		
BH	(60°-80°)	1121.1	3.7	B3/2500		G3/2500
BVH	(80°-90°)	138.5	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2
2.5°	8624.6	8618.3	8652.4	8536.1	8457.1	8350.1	8208.9	8029.0	7835.1	7630.4	7542.1
5°	9401.5	9347.3	9383.0	9296.1	9209.2	9048.0	8838.6	8545.4	8187.2	7779.3	7562.1
7.5°	9279.0	9241.8	9333.3	9410.8	9476.0	9455.8	9302.3	8995.2	8533.0	7940.6	7625.8
10°	8291.1	8249.2	8377.9	8646.3	9040.2	9383.0	9569.1	9378.2	8886.6	8117.4	7687.8
12.5°	7419.5	7399.4	7484.7	7701.7	8139.1	8796.7	9535.0	9713.3	9254.2	8326.8	7771.6
15°	7047.3	7022.5	7076.7	7186.9	7466.0	8078.6	9224.8	9942.8	9615.5	8568.7	7904.9
17.5°	6965.1	6937.2	6960.5	7017.9	7197.8	7664.5	8756.4	10056.1	9992.4	8838.6	8016.6
20°	7117.1	7093.8	7096.9	7093.8	7219.5	7590.1	8430.7	10012.6	10321.2	9086.7	8125.2
22.5°	7484.7	7445.9	7447.4	7365.2	7433.5	7720.4	8345.3	9896.3	10614.4	9303.8	8207.4
25°	8083.3	8013.4	8027.5	7818.1	7799.4	8011.9	8478.8	9806.4	10905.9	9477.6	8222.9
27.5°	8902.1	8823.1	8781.2	8469.5	8320.5	8426.0	8750.2	9837.3	11182.0	9628.0	8184.1
30°	9925.8	9829.6	9744.3	9302.3	9032.4	8993.7	9172.0	10042.0	11507.7	9786.2	8117.4
32.5°	11180.4	11068.8	10913.7	10327.4	9947.4	9744.3	9717.9	10406.5	11889.2	9987.8	8083.3
35°	12673.9	12528.2	12307.9	11549.5	11068.8	10653.1	10437.6	10932.2	12411.8	10291.7	8122.1
37.5°	14212.4	14048.0	13846.4	12943.8	12352.9	11740.3	11315.4	11645.7	13108.2	10704.3	8224.4
40°	15631.6	15447.0	15259.3	14455.9	13821.6	13083.4	12390.1	12548.4	13959.7	11197.5	8398.1
42.5°	16469.0	16332.6	16261.2	15826.9	15336.9	14587.8	13727.0	13618.5	14916.5	11765.2	8596.7
45°	16431.8	16375.9	16596.2	16776.1	16659.7	16244.1	15293.4	14801.8	15876.5	12256.7	8779.6
47.5°	15554.0	15591.2	16082.9	17094.0	17539.1	17756.3	17076.9	15963.5	16711.0	12624.3	8861.8
50°	13165.6	13196.6	14334.9	16515.5	17765.5	18989.3	18846.6	17097.1	17357.7	12849.2	8843.2
52.5°	11275.0	11295.2	11783.7	14800.2	17018.0	19609.6	20440.9	18165.7	17830.7	12911.2	8739.4
55°	8492.7	8562.5	9110.0	11611.6	15073.1	19117.9	21411.7	19266.8	18130.0	12917.5	8630.7
57.5°	4961.3	5037.4	5713.6	7881.6	11715.4	17404.2	21559.0	20243.9	18333.1	12867.8	8565.6
60°	2430.3	2462.9	2757.5	4142.4	7224.1	14102.4	20374.1	20716.9	18446.4	12841.4	8562.5
62.5°	1637.7	1633.1	1645.5	2044.1	3559.3	9060.4	17905.1	19888.7	18385.9	12740.6	8531.5
65°	1408.2	1391.1	1344.6	1434.6	1844.0	4144.0	13834.0	17416.6	17925.3	12487.9	8319.0
67.5°	1217.5	1219.0	1220.6	1192.7	1316.7	1912.2	8454.0	13719.2	16272.1	11290.6	7500.1
70°	1008.1	1022.0	1028.3	1028.3	1073.2	1254.7	3608.9	9403.1	12835.3	8852.5	6040.7
72.5°	918.1	888.7	891.7	876.3	876.3	955.4	1453.1	5330.4	8086.4	4980.0	3686.5
75°	749.1	767.7	770.8	759.9	724.3	728.9	862.3	2236.4	3460.1	2065.8	1822.3
77.5°	646.8	646.8	652.9	645.1	617.3	545.9	575.3	866.9	1177.1	846.8	910.4
80°	519.6	518.0	544.4	559.9	516.5	403.2	367.6	479.2	522.6	372.2	473.0
82.5°	252.8	268.3	373.8	426.5	392.4	291.6	224.9	297.8	279.2	164.4	212.5
85°	147.3	139.6	167.5	237.3	224.9	161.3	108.5	155.1	145.8	83.7	85.3
87.5°	46.5	43.5	34.1	80.7	65.1	45.0	29.4	45.0	40.3	18.7	18.7
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°
0°	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2	7517.2
2.5°	7431.9	7248.9	7067.5	6901.5	6800.7	6735.6	6670.4	6597.5	6569.6	6527.7
5°	7357.4	7003.8	6689.0	6417.6	6171.0	5977.2	5781.7	5623.6	5552.2	5600.3
7.5°	7314.0	6802.2	6316.8	5818.9	5339.7	4956.7	4623.3	4389.0	4283.6	4309.9
10°	7275.2	6574.2	5834.5	5048.2	4359.5	3885.0	3543.8	3365.5	3298.8	3312.7
12.5°	7239.6	6318.4	5252.9	4218.5	3486.4	3173.1	3075.4	3076.9	3089.4	3098.7
15°	7233.4	6009.8	4603.1	3492.6	3014.9	2994.7	3100.2	3166.9	3202.6	3213.5
17.5°	7224.1	5640.6	3940.8	2997.9	2900.1	3036.7	3134.3	3177.8	3205.7	3207.2
20°	7186.9	5172.3	3329.8	2762.2	2875.3	2993.2	3053.7	3087.8	3111.1	3118.9
22.5°	7072.1	4651.1	2853.7	2656.7	2776.1	2870.7	2942.1	2980.8	2994.7	3004.1
25°	6865.9	4068.0	2524.9	2555.8	2638.0	2757.5	2814.9	2822.6	2818.0	2832.0
27.5°	6596.0	3443.0	2320.2	2419.4	2524.9	2627.2	2658.2	2653.6	2644.3	2659.8
30°	6270.3	2881.6	2189.9	2265.9	2410.1	2503.2	2531.0	2520.2	2501.6	2518.6
32.5°	5925.9	2422.5	2082.9	2158.9	2315.5	2407.0	2434.9	2424.0	2410.1	2424.0
35°	5604.9	2101.5	1983.6	2087.5	2241.1	2331.0	2366.6	2368.3	2368.3	2385.3
37.5°	5310.3	1913.8	1901.4	2042.5	2189.9	2270.5	2321.7	2324.8	2258.1	2262.8
40°	5037.4	1834.7	1864.2	2013.1	2140.2	2217.8	2220.9	2047.2	1924.6	1921.6
42.5°	4814.0	1819.2	1875.0	2009.9	2104.5	2107.7	1889.0	1754.1	1720.0	1721.5
45°	4604.6	1814.6	1899.8	2009.9	2051.8	1820.7	1673.4	1637.7	1640.8	1653.2
47.5°	4370.4	1795.9	1904.6	1982.0	1899.8	1619.1	1575.7	1560.3	1554.0	1557.1
50°	4114.6	1729.3	1845.6	1926.2	1639.3	1532.3	1478.0	1473.3	1481.1	1485.7
52.5°	3844.7	1620.7	1744.8	1825.4	1519.9	1456.3	1395.8	1406.7	1440.7	1451.6
55°	3667.9	1493.5	1611.4	1623.8	1436.1	1385.0	1333.7	1358.6	1422.2	1442.4
57.5°	3621.3	1358.6	1459.4	1445.5	1329.1	1323.0	1291.9	1313.6	1394.3	1423.7
60°	3607.4	1237.6	1310.5	1299.7	1225.2	1254.7	1246.9	1257.8	1285.7	1295.0
62.5°	3498.8	1141.4	1177.1	1161.6	1132.1	1183.4	1201.9	1178.6	1200.4	1211.2
65°	3222.8	1063.9	1046.8	1036.0	1048.4	1094.9	1132.1	1085.7	1105.8	1136.8
67.5°	2766.8	958.5	911.9	924.3	963.1	987.9	1036.0	983.3	1000.3	1053.1
70°	2238.0	825.1	783.2	818.9	856.1	907.2	915.0	879.3	919.7	978.6
72.5°	1583.4	690.1	660.7	733.6	746.0	812.6	795.6	778.6	834.4	854.5
75°	1098.1	556.8	539.7	595.5	640.5	697.9	685.5	705.6	823.5	832.8
77.5°	694.8	432.7	421.9	457.6	519.6	583.1	603.3	832.8	1406.7	1462.5
80°	403.2	322.6	310.2	338.0	392.4	451.3	581.6	1022.0	927.4	916.6
82.5°	224.9	221.8	206.2	214.0	262.1	325.6	821.9	719.7	584.7	603.3
85°	105.5	130.3	111.6	107.0	147.3	381.5	549.0	411.0	273.0	266.7
87.5°	27.9	24.8	24.8	27.9	62.0	328.8	218.6	175.3	103.9	100.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)