

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: P964600

Luminaire Tested: **NAV-SB3C-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964600
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-SB3C-740-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24819.3 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 149.1
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



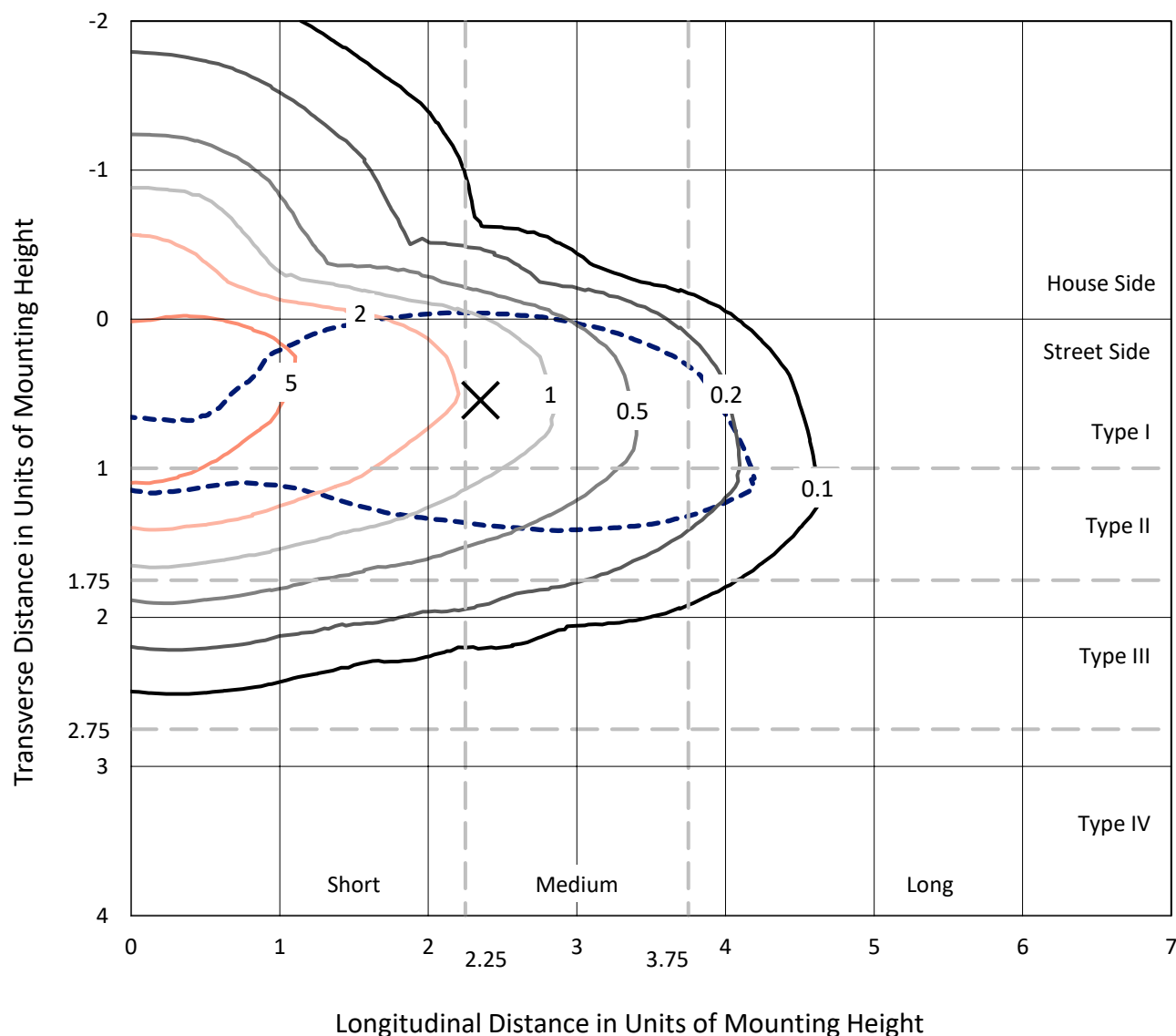
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

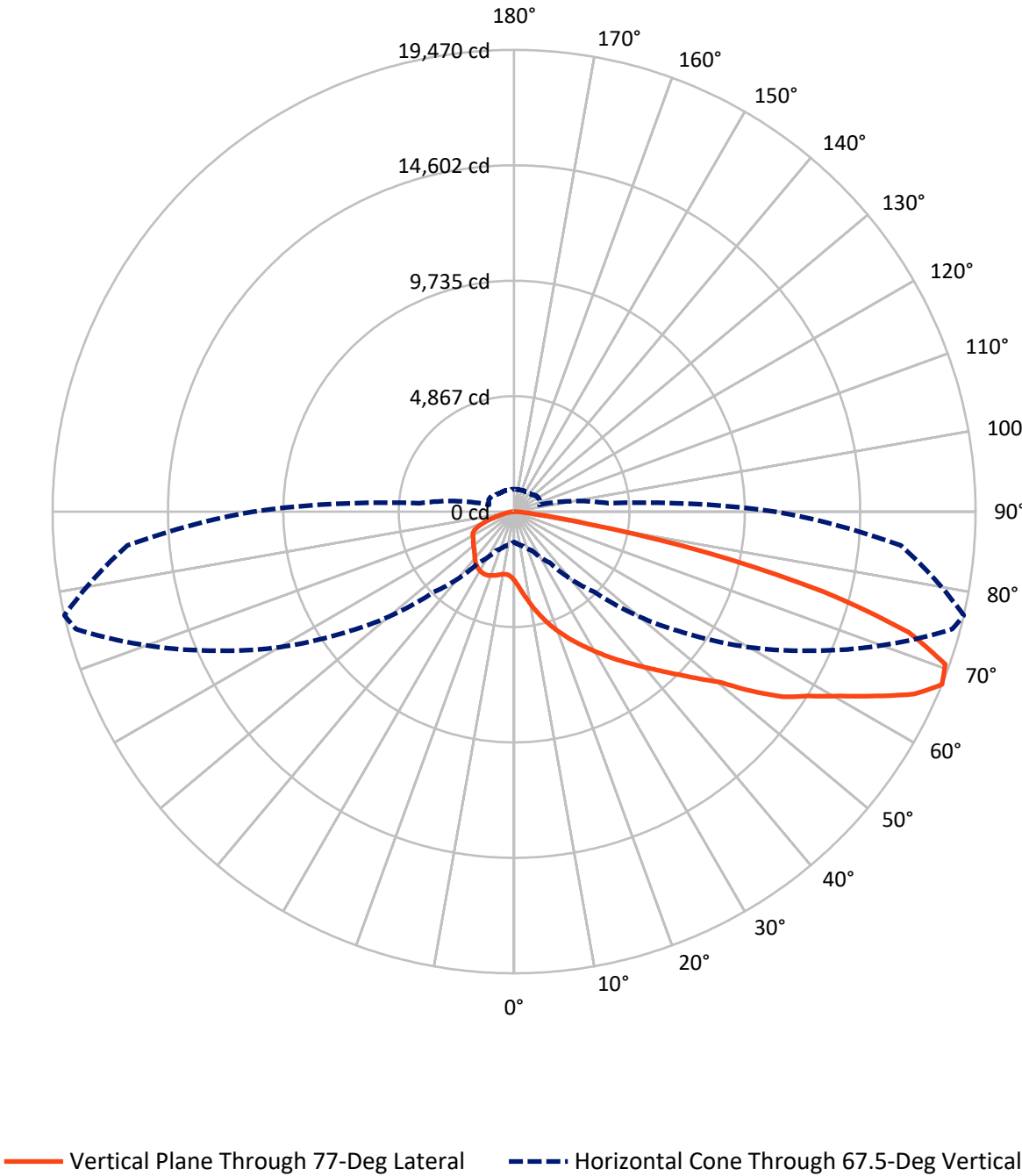
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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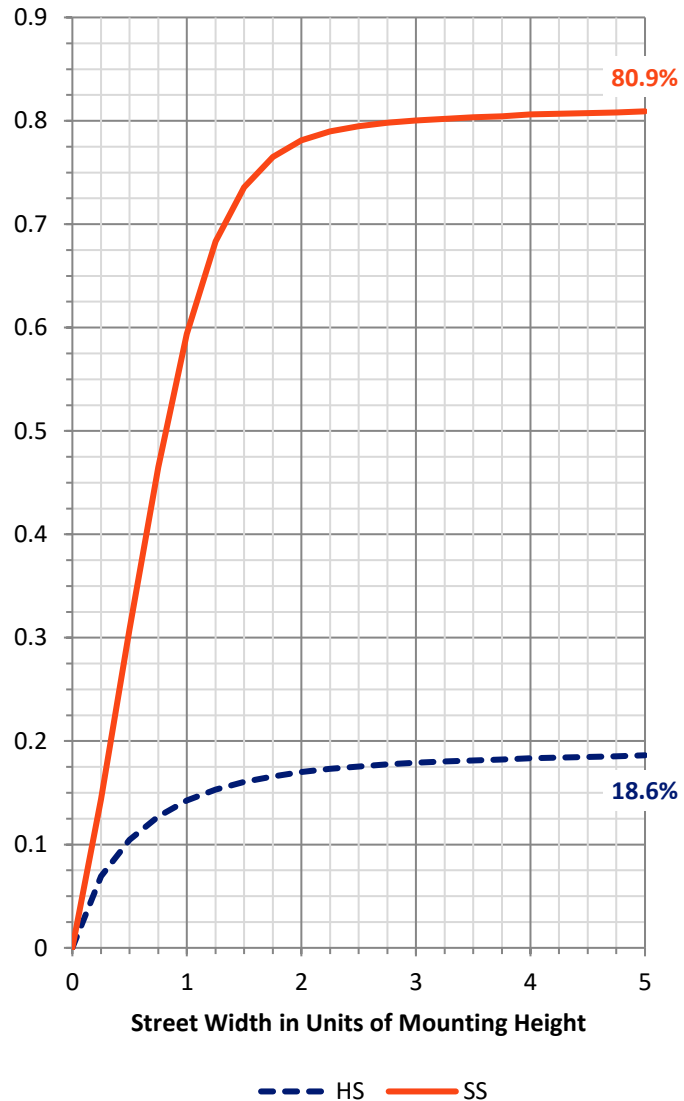
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4694.8	0.0	4694.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20124.5	0.0	20124.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	24819.3	0.0	24819.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.3
10°-20°	1121.4	4.5
20°-30°	2117.3	8.5
30°-40°	3410.9	13.7
40°-50°	4665.5	18.8
50°-60°	5262.7	21.2
60°-70°	4912.1	19.8
70°-80°	2692.6	10.8
80°-90°	324.8	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°	24819.3	100.0
0°-180°	24819.3	100.0

Coefficient of Utilization



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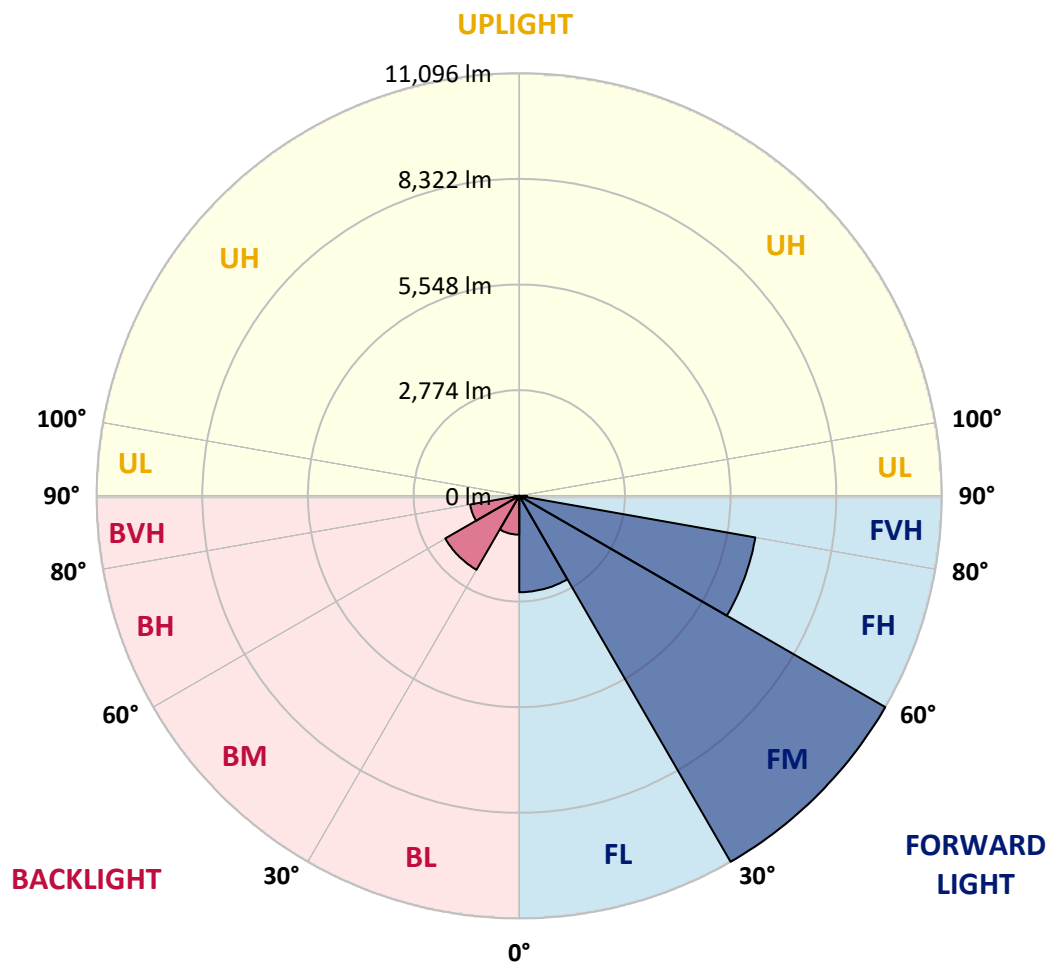
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2530.0	10.2			
FM	(30°-60°)	11096.5	44.7			
FH	(60°-80°)	6294.9	25.4			G3/7500
FVH	(80°-90°)	203.1	0.8			G2/225
BL	(0°-30°)	1020.8	4.1	B3/2500		
BM	(30°-60°)	2242.6	9.0	B2/2500		
BH	(60°-80°)	1309.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	121.7	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	3646.2	3671.9	3639.8	3639.8	3532.2	3475.8	3368.2	3286.2	3138.9	3113.2	3015.9
5°	4309.8	4341.9	4297.0	4277.8	4150.9	4034.4	3853.7	3675.6	3413.0	3386.1	3156.8
7.5°	4823.5	4864.5	4824.9	4804.4	4691.6	4560.9	4349.6	4101.0	3730.7	3678.2	3346.4
10°	5242.5	5248.9	5236.1	5243.8	5155.4	5047.8	4831.2	4541.7	4079.2	4007.4	3575.7
12.5°	5479.5	5509.0	5534.6	5580.7	5565.3	5498.7	5304.0	4958.1	4448.2	4355.9	3825.5
15°	5591.0	5642.2	5699.9	5806.2	5892.1	5908.7	5760.1	5405.2	4823.5	4712.1	4078.0
17.5°	5630.7	5679.4	5770.3	5924.1	6108.6	6232.8	6166.2	5839.5	5195.1	5067.0	4343.1
20°	5831.8	5846.0	5901.0	6047.1	6247.0	6453.2	6503.2	6257.2	5562.8	5418.0	4617.3
22.5°	6262.3	6234.2	6249.5	6316.2	6459.7	6659.5	6773.5	6626.2	5940.8	5774.2	4894.1
25°	6973.4	6891.4	6809.4	6732.5	6805.5	6918.2	7047.7	6995.1	6336.7	6125.2	5173.4
27.5°	7871.5	7771.6	7590.8	7338.5	7250.1	7289.8	7347.5	7337.3	6703.0	6489.1	5461.6
30°	8755.4	8638.9	8423.7	8058.6	7825.4	7720.3	7676.7	7647.2	7101.5	6873.4	5752.4
32.5°	9461.4	9369.1	9157.8	8749.1	8410.8	8231.5	8086.7	7981.7	7517.9	7289.8	6059.9
35°	10078.9	9993.0	9750.9	9305.1	8937.4	8746.5	8556.9	8332.6	7950.9	7720.3	6390.5
37.5°	10642.6	10556.8	10225.0	9761.2	9390.9	9258.9	9089.8	8709.3	8385.2	8167.4	6740.2
40°	10998.8	10979.6	10669.5	10144.2	9759.8	9694.6	9638.2	9146.2	8867.0	8664.5	7124.6
42.5°	11089.8	11132.0	10886.0	10454.3	10087.8	10035.4	10167.3	9640.7	9407.6	9214.1	7560.1
45°	10870.6	10992.4	10831.0	10537.5	10321.0	10292.8	10636.2	10181.4	10005.8	9829.0	8085.4
47.5°	10315.9	10522.1	10455.5	10414.6	10383.9	10505.5	11048.8	10755.3	10683.6	10529.8	8685.0
50°	9196.2	9586.9	9703.5	9962.3	10259.5	10670.8	11424.1	11381.8	11475.4	11320.3	9415.2
52.5°	7260.4	7798.4	8474.9	9123.1	9877.7	10615.7	11836.7	12281.2	12675.8	12591.3	10575.9
55°	5993.3	6235.4	6755.6	7944.5	9137.3	10383.9	12022.4	13007.7	13867.3	13791.7	11456.1
57.5°	5019.6	5236.1	5556.4	6549.3	8017.6	9857.2	12137.7	13450.9	14683.4	14675.7	12324.8
60°	3975.5	4204.8	4532.8	5236.1	6709.4	8947.6	12112.1	13955.7	15724.9	15789.0	13384.3
62.5°	2796.8	3049.2	3413.0	4068.9	5373.2	7769.0	11589.4	14320.8	16951.0	17125.3	14659.0
65°	1838.4	2005.0	2279.2	2845.5	4003.6	6253.3	10591.3	14368.2	18262.9	18557.6	15855.6
67.5°	1288.8	1352.9	1514.3	1821.8	2639.2	4795.4	9001.4	13877.6	19138.0	19469.8	16374.6
70°	1005.7	1037.7	1119.7	1242.7	1657.8	3224.6	6897.7	12601.6	18950.9	19296.9	15832.6
72.5°	868.6	899.3	930.1	945.5	1112.0	1991.0	4672.4	10536.3	17189.4	17423.8	13766.1
75°	787.9	795.6	821.2	816.1	848.1	1291.4	2696.9	7676.7	13562.4	13481.6	10162.2
77.5°	662.4	672.6	714.9	708.5	753.3	882.7	1400.4	4954.2	8792.7	8244.3	5656.4
80°	561.2	566.3	612.4	604.8	654.7	639.3	714.9	2525.2	3729.5	3159.4	1630.9
82.5°	194.7	240.9	467.6	481.7	499.7	386.9	412.6	1030.0	1139.0	872.5	342.0
85°	94.8	101.2	238.3	338.2	336.9	194.7	201.1	367.7	358.7	281.9	114.0
87.5°	15.4	19.2	28.2	131.9	105.1	51.2	69.2	71.8	74.3	64.1	25.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1	2912.1
2.5°	2944.1	2880.0	2745.6	2621.2	2523.9	2430.4	2377.8	2333.0	2307.4	2302.3	2302.3
5°	3023.5	2891.6	2646.9	2440.6	2306.0	2206.2	2153.6	2120.3	2103.7	2093.5	2092.1
7.5°	3137.5	2944.1	2595.6	2361.2	2220.3	2148.5	2121.6	2116.5	2115.2	2116.5	2120.3
10°	3295.2	3029.9	2590.5	2341.9	2224.1	2184.4	2183.1	2184.4	2189.5	2190.8	2192.1
12.5°	3465.5	3118.4	2611.0	2358.6	2272.7	2251.0	2247.1	2245.9	2249.7	2252.2	2253.6
15°	3651.4	3234.9	2645.6	2394.5	2326.5	2303.5	2299.7	2292.0	2290.7	2289.4	2288.1
17.5°	3842.2	3350.2	2684.1	2432.9	2361.2	2329.1	2315.1	2297.1	2283.0	2279.2	2283.0
20°	4035.6	3464.3	2710.9	2452.1	2363.8	2318.9	2290.7	2259.9	2235.6	2221.6	2226.7
22.5°	4242.0	3583.4	2727.6	2447.0	2340.7	2279.2	2227.9	2192.1	2155.0	2130.6	2131.9
25°	4443.1	3687.2	2726.3	2420.1	2295.8	2217.7	2152.4	2106.3	2055.0	2029.4	2029.4
27.5°	4636.5	3780.7	2694.3	2372.7	2231.8	2144.7	2066.5	2011.5	1961.4	1937.1	1935.8
30°	4836.4	3858.8	2644.3	2303.5	2156.2	2060.1	1974.3	1926.9	1882.0	1858.9	1857.7
32.5°	5035.0	3930.6	2573.9	2217.7	2069.1	1976.8	1892.3	1848.7	1821.8	1821.8	1823.1
35°	5245.0	3980.6	2480.3	2117.8	1976.8	1888.5	1821.8	1796.2	1793.6	1778.3	1774.4
37.5°	5466.7	4012.6	2366.3	2015.3	1885.9	1802.6	1782.1	1751.3	1725.7	1692.4	1687.3
40°	5699.9	4044.6	2229.3	1909.0	1789.8	1743.6	1734.7	1693.7	1620.6	1538.6	1527.1
42.5°	5983.0	4066.4	2087.0	1802.6	1688.6	1673.2	1686.0	1615.5	1499.0	1437.5	1438.8
45°	6311.0	4102.3	1956.3	1697.5	1584.8	1584.8	1638.6	1546.3	1450.3	1411.8	1418.3
47.5°	6736.3	4185.6	1834.6	1582.2	1488.7	1514.3	1533.5	1463.1	1409.3	1361.9	1360.6
50°	7351.3	4385.5	1709.1	1465.6	1415.7	1467.0	1440.0	1399.0	1336.3	1297.9	1294.0
52.5°	8114.9	4503.2	1597.6	1360.6	1352.9	1404.1	1365.7	1327.3	1279.9	1228.7	1218.4
55°	8635.0	4525.1	1504.1	1283.7	1310.7	1305.5	1291.4	1256.9	1231.2	1163.3	1164.6
57.5°	9216.7	4568.6	1427.2	1237.6	1283.7	1227.3	1222.2	1192.8	1159.5	1113.4	1098.0
60°	9912.4	4636.5	1360.6	1219.6	1260.6	1176.1	1150.5	1139.0	1105.7	1082.6	1089.0
62.5°	10670.8	4698.0	1292.7	1222.2	1233.8	1126.2	1087.7	1083.8	1063.3	1055.6	1055.6
65°	11188.4	4530.2	1208.2	1219.6	1191.5	1074.9	1026.2	1024.9	1008.3	1005.7	1004.4
67.5°	11007.8	3998.5	1094.1	1183.8	1147.9	1023.7	969.9	964.7	942.9	944.2	944.2
70°	10103.2	3240.0	936.5	1095.4	1094.1	977.5	910.9	894.2	864.8	869.9	875.0
72.5°	8406.9	2400.9	725.2	948.0	1008.3	935.2	843.0	816.1	778.9	784.0	782.8
75°	6071.4	1632.2	527.9	721.3	877.6	885.3	776.3	730.3	685.4	693.1	695.7
77.5°	3106.8	925.0	388.2	497.1	689.3	804.5	716.2	654.7	644.4	716.2	705.9
80°	1013.4	463.8	269.1	348.5	452.2	658.6	627.8	557.3	554.7	571.4	490.7
82.5°	302.4	196.0	172.9	229.3	249.8	504.8	541.9	421.5	362.5	381.8	394.6
85°	103.7	94.8	98.6	114.0	119.1	295.9	379.2	279.3	263.9	290.8	287.0
87.5°	24.3	33.3	28.2	25.6	25.6	71.8	147.3	116.5	161.4	107.6	103.7
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)