

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: P964137

Luminaire Tested: **NAV-SB3B-760-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-760-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18566.8 lumens
Efficiency: N/A
Efficacy: 170.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 109.2
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



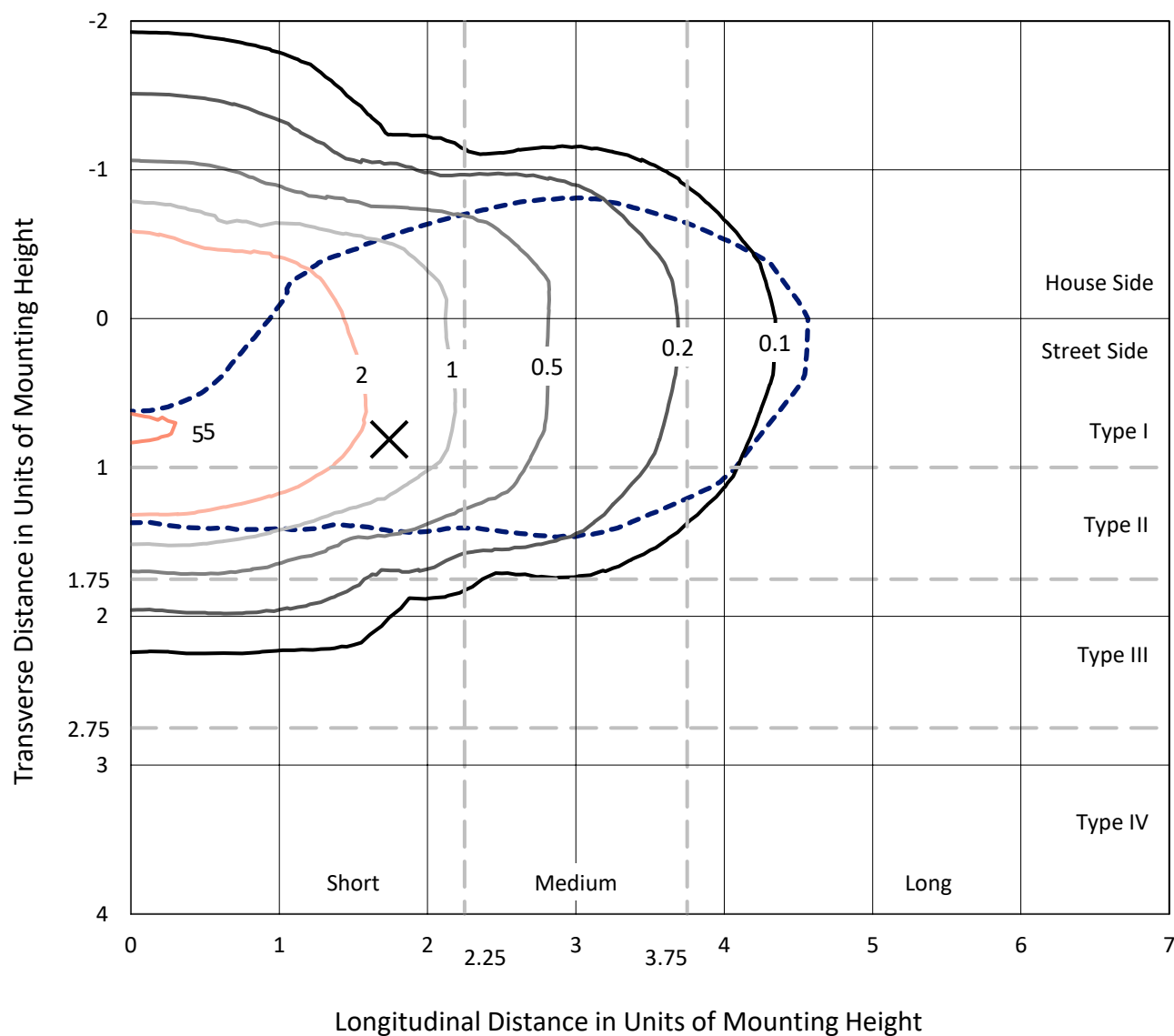
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

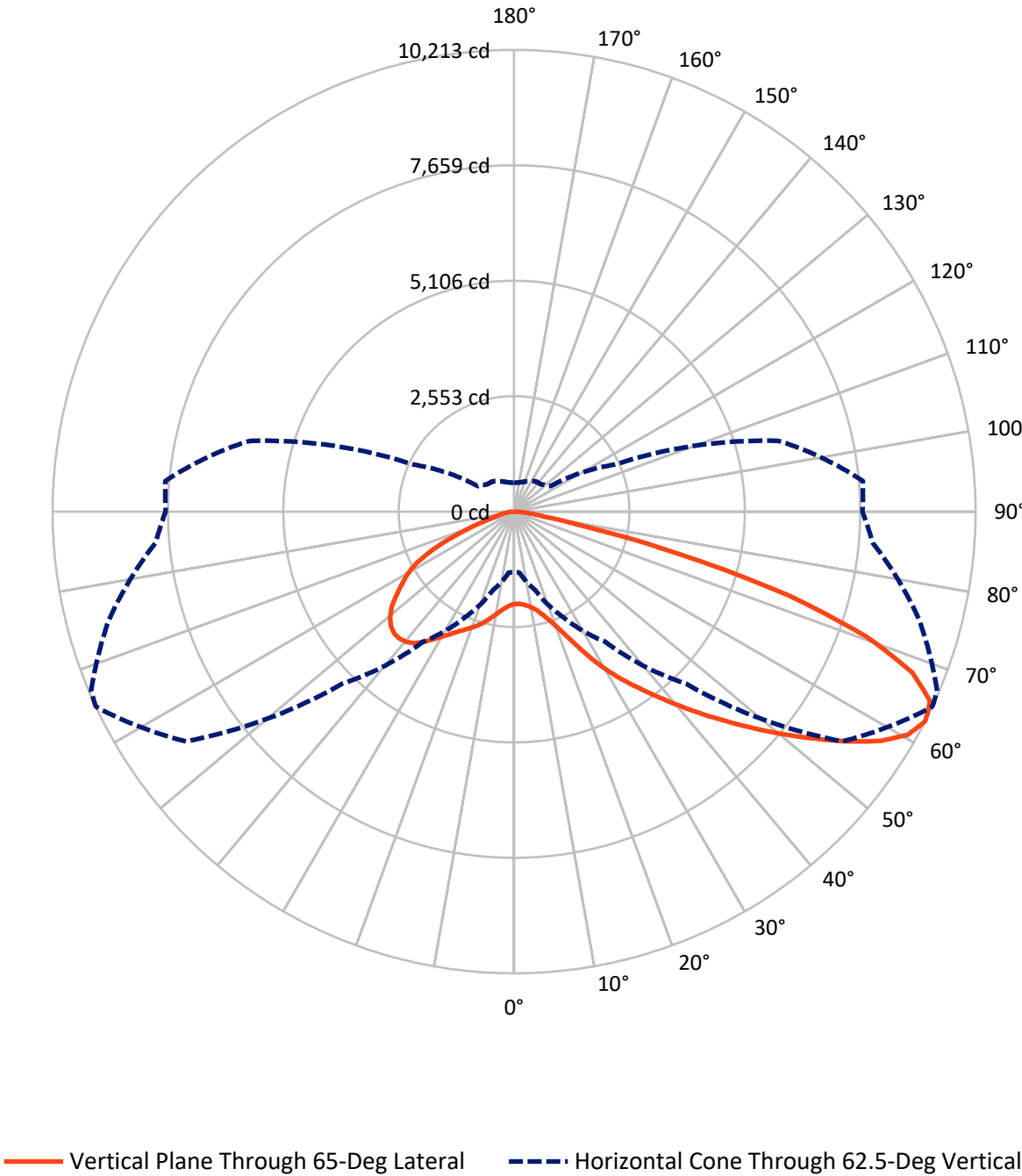


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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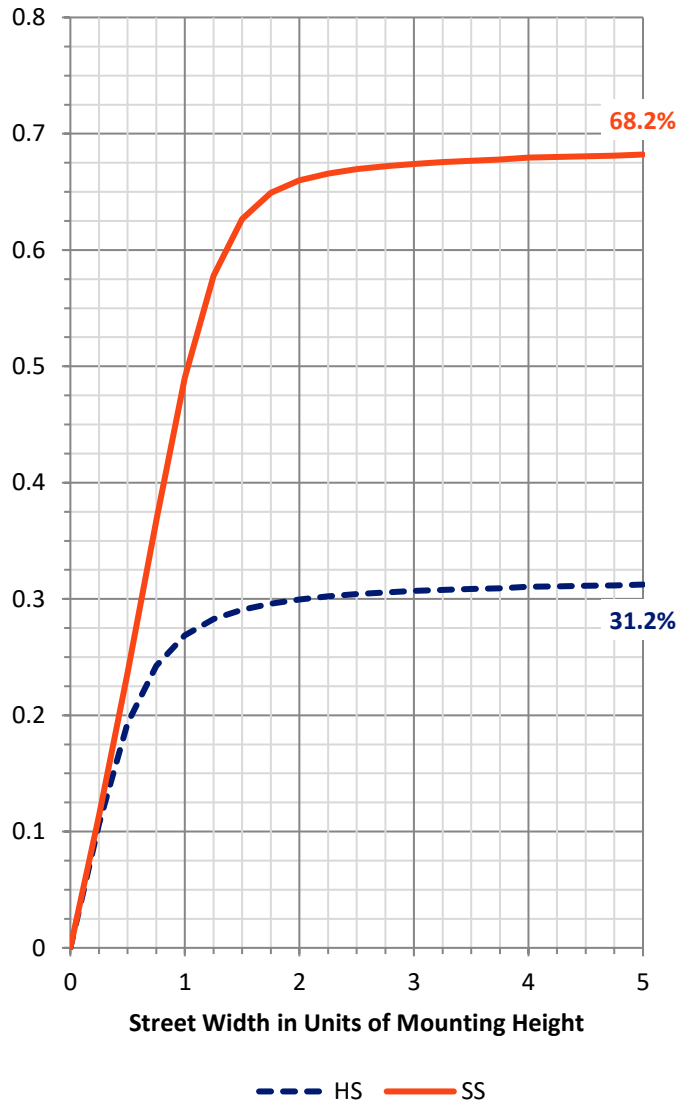
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5858.9	0.0	5858.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	12708.0	0.0	12708.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	18566.8	0.0	18566.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	1.1
10°-20°	691.7	3.7
20°-30°	1402.5	7.6
30°-40°	2427.1	13.1
40°-50°	3672.9	19.8
50°-60°	4306.3	23.2
60°-70°	3610.3	19.4
70°-80°	1993.2	10.7
80°-90°	258.9	1.4
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°	18566.8	100.0
0°-180°	18566.8	100.0

Coefficient of Utilization



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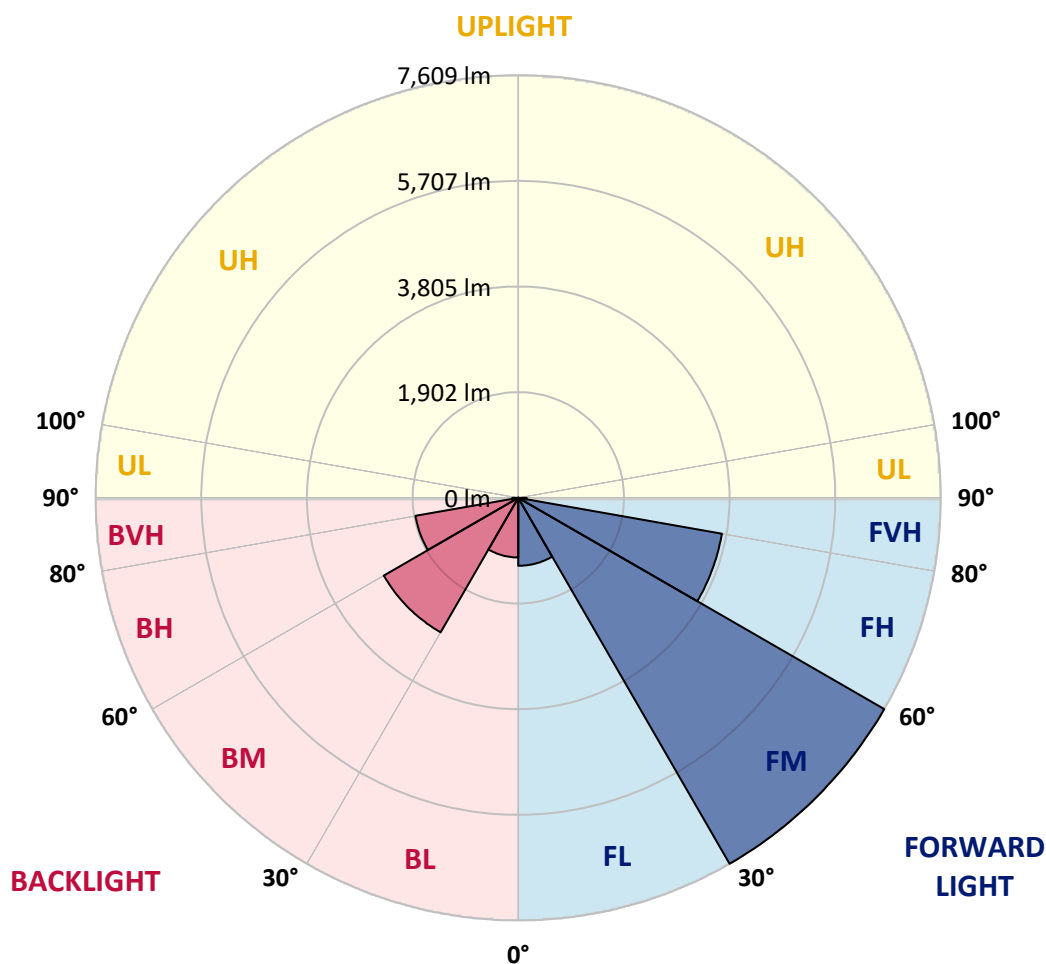
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1223.8	6.6			
FM	(30°-60°)	7609.3	41.0			
FH	(60°-80°)	3724.0	20.1			G2/5000
FVH	(80°-90°)	150.9	0.8			G2/225
BL	(0°-30°)	1074.4	5.8	B3/2500		
BM	(30°-60°)	2796.9	15.1	B3/5000		
BH	(60°-80°)	1879.5	10.1	B3/2500		G3/2500
BVH	(80°-90°)	108.0	0.6			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°	67°	75°	85°
0°	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0
2.5°	2032.5	2026.7	2031.5	2031.5	2033.5	2032.5	2039.2	2041.2	2044.1	2049.8	2049.8
5°	2012.3	2011.4	2020.0	2027.7	2035.3	2042.1	2050.8	2063.3	2065.3	2072.0	2080.6
7.5°	2005.5	1999.8	2013.2	2022.8	2041.2	2057.6	2080.6	2101.9	2110.5	2113.4	2129.7
10°	2057.6	2048.0	2060.5	2066.2	2081.7	2098.0	2124.9	2158.6	2168.3	2179.9	2198.2
12.5°	2146.1	2135.6	2153.8	2162.5	2177.0	2191.4	2209.7	2242.5	2247.3	2268.5	2285.9
15°	2267.5	2255.0	2266.6	2277.1	2301.2	2314.8	2333.0	2364.9	2364.9	2381.2	2393.7
17.5°	2432.2	2415.9	2424.5	2428.4	2443.8	2464.0	2494.8	2522.8	2537.3	2531.4	2514.1
20°	2677.9	2657.6	2657.6	2638.4	2632.6	2649.0	2689.5	2727.9	2743.4	2713.5	2671.1
22.5°	3046.8	3017.9	3001.5	2936.0	2910.1	2911.9	2952.4	2999.7	3012.2	2959.2	2863.8
25°	3516.0	3470.6	3448.5	3352.2	3293.4	3242.4	3274.2	3334.8	3352.2	3286.7	3132.6
27.5°	3985.1	3988.0	3966.7	3851.1	3753.9	3660.4	3644.1	3707.6	3726.0	3651.8	3461.0
30°	4642.9	4574.6	4534.1	4395.4	4256.7	4125.7	4058.3	4084.3	4089.0	4000.5	3778.9
32.5°	5210.3	5193.0	5106.3	4984.9	4806.7	4601.5	4488.9	4447.4	4439.7	4313.5	4050.6
35°	5856.6	5847.0	5755.6	5611.1	5418.4	5133.3	4930.0	4811.6	4801.9	4624.7	4319.3
37.5°	6513.7	6513.7	6424.1	6266.0	6066.7	5710.3	5401.0	5213.3	5182.4	4951.2	4592.9
40°	7037.6	7005.9	7022.3	6955.8	6727.5	6349.0	5924.1	5651.5	5610.1	5332.7	4883.8
42.5°	7335.3	7324.8	7422.9	7497.2	7403.7	7101.2	6500.1	6126.4	6068.6	5752.6	5219.0
45°	7401.7	7390.2	7565.5	7837.2	7968.1	7843.9	7126.3	6626.3	6556.0	6191.9	5578.3
47.5°	7248.6	7225.5	7482.7	7911.4	8331.3	8550.0	7804.5	7168.6	7066.6	6619.6	5947.3
50°	6788.2	6766.0	7155.2	7724.5	8453.7	9029.7	8540.4	7743.8	7587.7	7078.1	6320.0
52.5°	5787.4	5797.9	6407.7	7189.9	8292.8	9328.3	9174.2	8349.6	8161.8	7547.2	6669.7
55°	4508.2	4531.2	5280.7	6141.8	7649.4	9283.0	9606.7	8973.9	8786.9	7988.4	7030.9
57.5°	3227.9	3330.0	4032.2	4884.7	6413.4	8565.4	9701.1	9567.2	9386.1	8470.1	7384.4
60°	2092.2	2110.5	2833.0	3692.3	4883.8	7290.0	9509.4	10017.0	9875.5	8961.3	7680.1
62.5°	1340.9	1353.4	1793.6	2582.5	3514.9	5393.3	8864.0	10212.6	10169.2	9285.9	7964.4
65°	985.4	975.8	1205.1	1706.9	2367.8	3326.1	7610.8	10118.2	10203.9	9489.1	8199.4
67.5°	822.7	809.1	921.9	1181.9	1744.4	1889.0	5631.2	9504.6	9818.6	9466.1	8371.8
70°	749.4	737.9	806.3	877.5	1361.1	1264.7	2838.7	8262.9	8746.5	9203.1	8343.8
72.5°	634.8	614.6	708.0	779.3	1058.6	970.1	1173.2	6347.0	6936.5	8360.2	7950.8
75°	492.2	478.8	558.7	685.8	795.7	757.2	741.7	3854.0	4497.5	6465.5	6955.8
77.5°	390.1	371.9	445.1	534.6	715.8	571.2	540.4	1659.7	2297.4	4127.6	5204.5
80°	293.8	277.5	338.1	422.9	550.0	430.6	349.6	677.2	866.0	2091.3	2617.2
82.5°	209.0	194.5	236.0	310.2	369.9	386.3	214.8	379.6	426.7	806.3	584.7
85°	133.9	125.3	158.0	194.5	235.0	248.6	131.0	198.4	217.7	332.3	243.7
87.5°	73.2	59.8	84.8	90.5	108.9	99.2	62.6	72.3	78.0	120.4	103.1
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°	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0	2046.0
2.5°	2053.7	2056.6	2066.2	2069.1	2075.8	2084.5	2090.3	2096.1	2096.1	2101.9	2101.9
5°	2081.7	2088.3	2108.6	2119.2	2136.5	2153.8	2164.5	2177.0	2184.7	2188.6	2190.5
7.5°	2135.6	2146.1	2175.0	2193.4	2223.2	2247.3	2263.7	2281.0	2284.8	2295.5	2291.6
10°	2208.8	2221.3	2254.1	2288.7	2324.4	2354.2	2369.6	2382.2	2387.0	2388.9	2384.0
12.5°	2292.6	2310.9	2353.3	2395.6	2433.2	2459.2	2463.1	2460.2	2446.7	2435.2	2435.2
15°	2395.6	2412.0	2459.2	2505.5	2542.1	2546.9	2522.8	2507.4	2491.1	2488.1	2488.1
17.5°	2518.9	2527.6	2571.0	2616.2	2619.2	2602.8	2567.1	2552.7	2537.3	2526.6	2527.6
20°	2662.4	2659.6	2690.4	2709.7	2689.5	2639.4	2585.5	2561.4	2545.9	2533.4	2534.4
22.5°	2833.9	2811.8	2807.9	2803.1	2749.2	2644.2	2571.0	2540.2	2516.1	2498.7	2504.5
25°	3083.4	2998.6	2939.9	2907.1	2785.7	2618.2	2524.8	2456.3	2411.1	2381.2	2392.8
27.5°	3395.5	3252.9	3104.6	3024.7	2785.7	2565.2	2413.0	2302.3	2228.0	2197.2	2212.7
30°	3693.2	3543.8	3325.2	3166.2	2779.1	2478.4	2232.9	2078.7	1992.1	1961.2	1979.5
32.5°	3947.5	3784.7	3559.3	3321.3	2762.7	2337.8	2009.4	1838.8	1755.1	1718.5	1736.8
35°	4183.4	4010.1	3794.3	3491.9	2719.3	2131.7	1763.7	1633.7	1540.3	1481.5	1500.8
37.5°	4425.2	4219.1	4016.9	3646.0	2641.3	1890.9	1574.9	1464.2	1354.3	1275.4	1296.5
40°	4688.2	4441.6	4254.8	3737.5	2513.2	1661.6	1428.5	1327.4	1210.8	1127.0	1143.4
42.5°	4995.5	4708.4	4519.6	3784.7	2337.8	1498.9	1333.2	1234.0	1124.1	1055.8	1069.3
45°	5316.3	5002.3	4761.4	3783.7	2142.4	1422.7	1302.4	1204.1	1082.7	1011.5	1023.0
47.5°	5652.5	5309.5	4970.4	3722.1	1972.8	1433.4	1285.0	1139.6	1005.6	936.3	946.0
50°	5989.6	5645.7	5172.8	3606.5	1900.6	1410.2	1220.5	1049.0	891.0	828.4	832.3
52.5°	6323.8	6003.1	5347.1	3441.7	1827.4	1324.5	1137.6	931.5	843.8	800.5	800.5
55°	6660.0	6356.6	5536.8	3201.9	1644.3	1224.4	998.9	887.1	806.3	766.8	762.9
57.5°	6997.2	6765.0	5717.0	2962.0	1414.1	1101.1	922.8	833.2	768.6	734.9	729.2
60°	7347.8	7232.2	5902.9	2741.5	1186.7	943.0	866.9	789.9	724.4	686.9	683.9
62.5°	7709.0	7746.6	6048.4	2457.3	977.7	846.8	816.8	737.9	674.2	638.7	637.7
65°	8073.2	8242.7	6143.7	2063.3	792.7	755.2	762.9	681.0	616.5	585.7	584.7
67.5°	8347.7	8600.1	6116.8	1561.5	650.2	668.5	695.5	621.4	560.6	536.6	537.5
70°	8378.6	8557.7	5850.9	1069.3	544.3	583.7	620.3	562.5	499.9	482.6	483.6
72.5°	7968.1	7979.7	5110.1	698.3	460.4	512.5	541.4	502.9	442.2	424.8	423.8
75°	6892.2	6599.4	3751.9	460.4	385.3	440.2	467.2	440.2	381.5	385.3	371.9
77.5°	5221.9	4673.8	2278.2	327.5	321.7	369.9	406.5	387.2	337.1	378.5	333.3
80°	2690.4	2528.6	1016.3	244.7	254.3	295.7	334.3	309.2	266.8	254.3	232.2
82.5°	616.5	716.7	400.7	175.3	184.0	212.9	255.2	232.2	191.7	161.8	159.9
85°	215.8	236.0	177.2	109.8	107.9	132.9	173.4	155.1	130.1	104.0	109.8
87.5°	68.4	89.6	66.4	44.3	46.2	59.8	79.9	73.2	60.7	39.5	41.4
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)