

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: P971023

Luminaire Tested: **NAV-SB6C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41554.5 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9
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



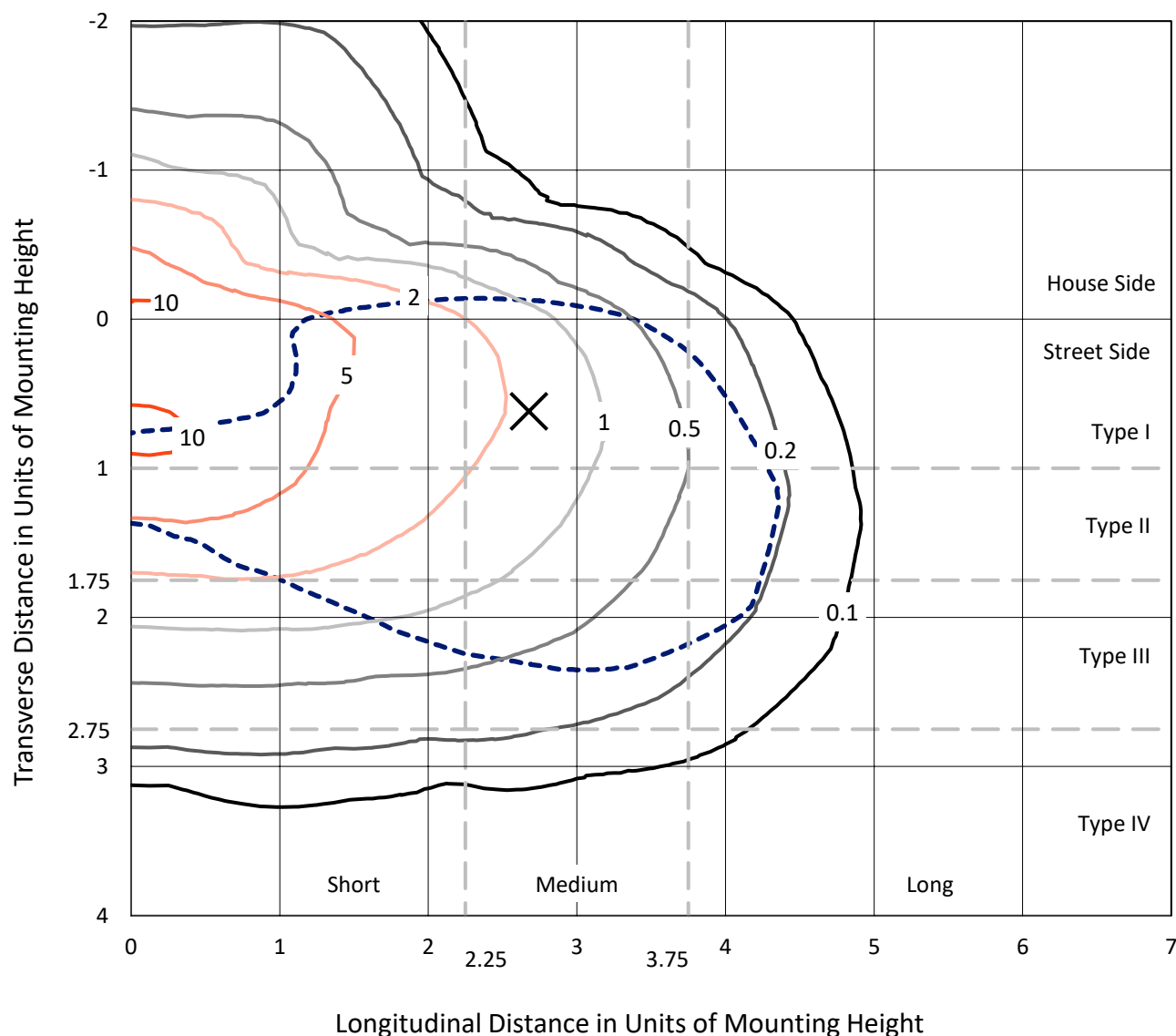
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

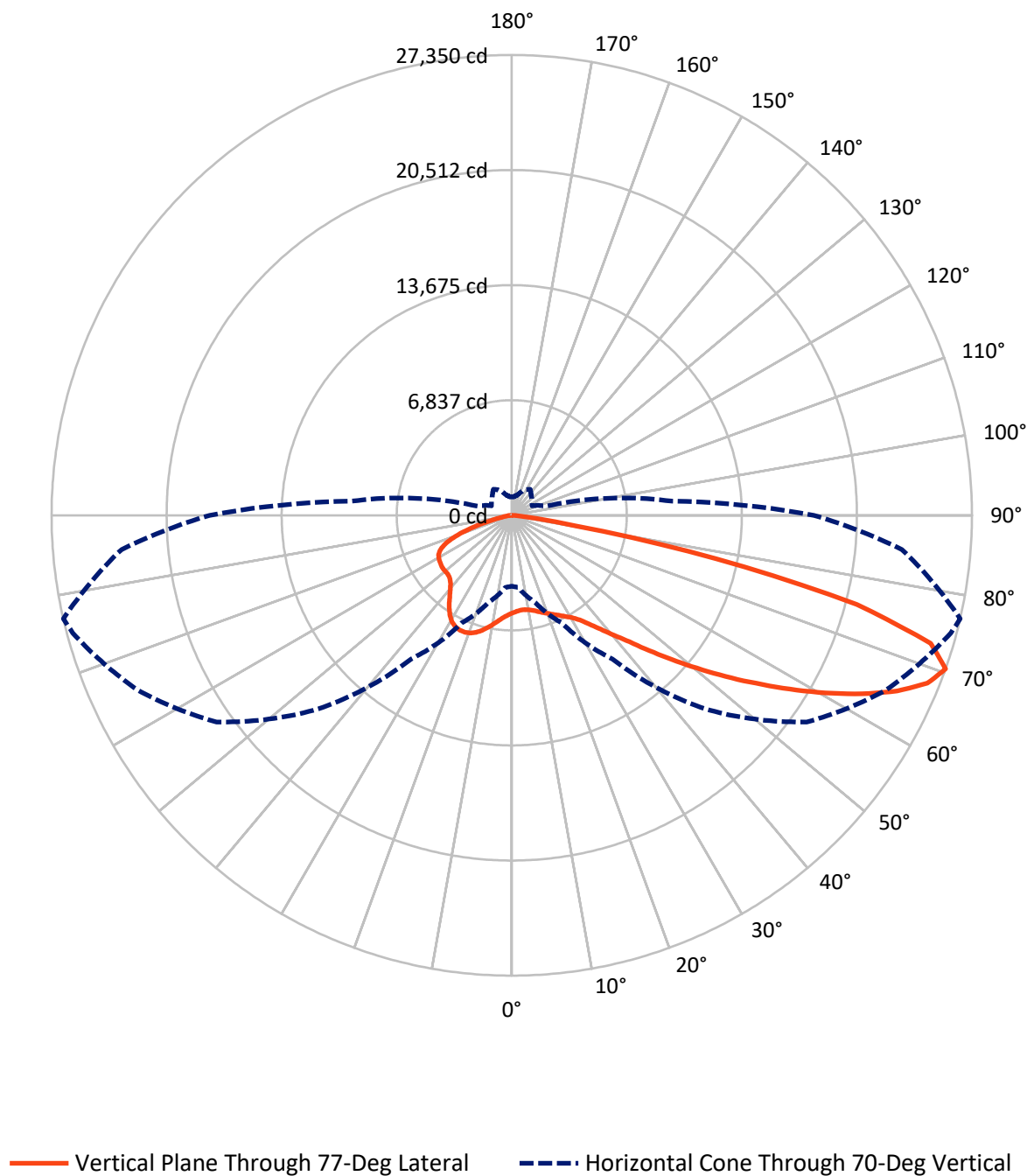
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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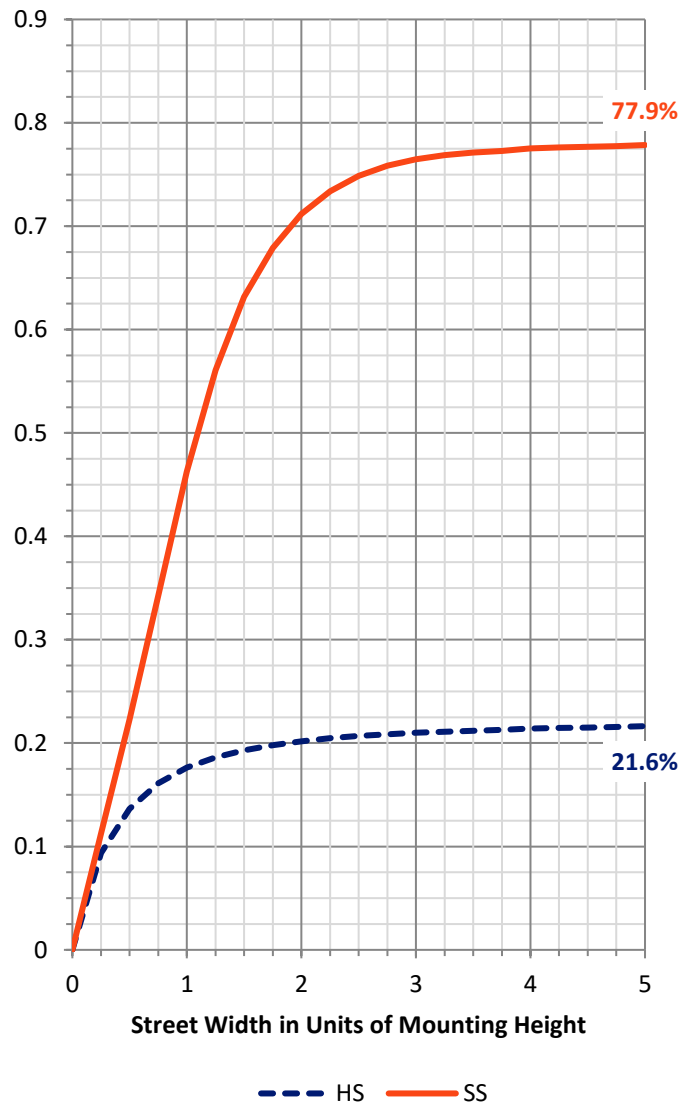
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9099.8	0.0	9099.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	32454.7	0.0	32454.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	41554.5	0.0	41554.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.9	1.3
10°-20°	1595.7	3.8
20°-30°	2728.9	6.6
30°-40°	4388.4	10.6
40°-50°	6851.4	16.5
50°-60°	9151.8	22.0
60°-70°	9754.4	23.5
70°-80°	6004.8	14.5
80°-90°	526.2	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°	41554.5	100.0
0°-180°	41554.5	100.0

Coefficient of Utilization



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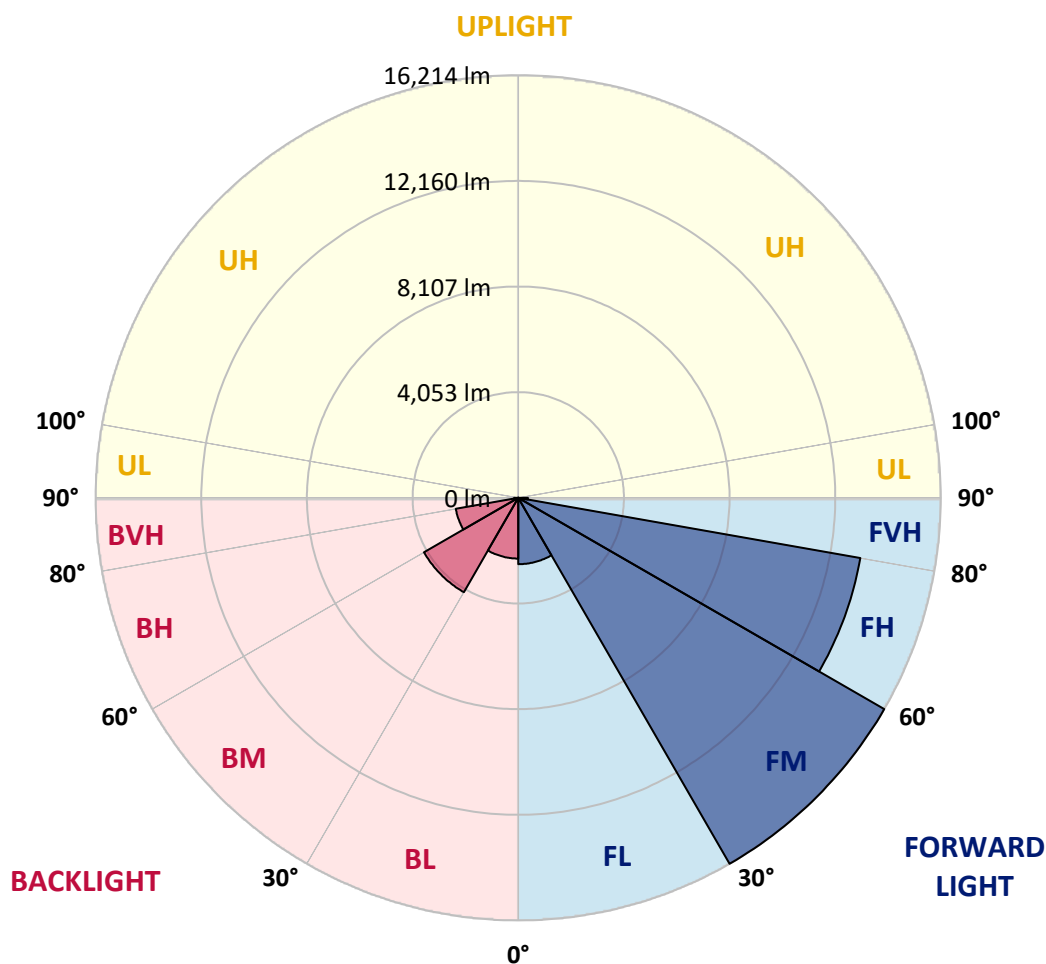
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2545.9	6.1			
FM	(30°-60°)	16213.7	39.0			
FH	(60°-80°)	13327.2	32.1			G5
FVH	(80°-90°)	367.9	0.9			G3/500
BL	(0°-30°)	2331.7	5.6	B3/2500		
BM	(30°-60°)	4177.9	10.1	B3/5000		
BH	(60°-80°)	2432.0	5.9	B3/2500		G3/2500
BVH	(80°-90°)	158.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2
2.5°	5343.9	5341.8	5369.5	5378.0	5429.0	5465.2	5533.4	5605.7	5699.3	5710.0	5767.5
5°	5035.3	5035.3	5067.3	5101.3	5167.3	5239.6	5343.9	5469.5	5631.2	5656.8	5799.3
7.5°	4773.5	4790.5	4818.2	4884.2	4960.9	5065.1	5224.7	5403.5	5616.4	5656.8	5886.6
10°	4562.9	4582.1	4616.1	4669.3	4784.2	4928.9	5137.5	5367.3	5652.6	5716.3	6014.3
12.5°	4496.9	4516.0	4535.2	4575.6	4682.1	4852.3	5101.3	5384.3	5739.8	5803.7	6188.8
15°	4650.1	4673.6	4658.6	4648.0	4703.3	4858.7	5118.3	5446.0	5848.3	5939.9	6403.8
17.5°	5003.4	5011.9	4977.9	4877.9	4869.4	4952.3	5199.2	5531.2	5984.6	6084.5	6620.9
20°	5573.7	5558.9	5488.7	5290.7	5177.9	5160.9	5337.6	5658.9	6125.0	6231.4	6855.0
22.5°	6348.4	6331.4	6191.0	5878.1	5626.9	5461.0	5537.6	5824.9	6282.4	6401.6	7082.6
25°	7314.6	7291.2	7084.8	6659.1	6269.7	5859.0	5810.0	6044.1	6476.2	6586.8	7321.1
27.5°	8442.6	8423.4	8200.0	7638.1	7076.3	6403.8	6148.4	6301.6	6678.3	6803.8	7589.2
30°	9655.7	9711.1	9315.2	8710.8	7999.9	7114.6	6603.9	6618.7	6940.1	7052.9	7914.8
32.5°	11081.6	11177.3	10700.6	9934.5	8964.0	7887.2	7178.5	7061.4	7321.1	7414.6	8325.6
35°	12494.7	12603.2	12207.4	11360.4	10243.0	8798.0	7778.6	7570.0	7827.5	7929.7	8870.3
37.5°	13716.2	13861.0	13656.7	12920.3	11611.5	9896.2	8561.8	8168.0	8451.1	8578.8	9602.5
40°	14680.4	14901.7	14886.8	14427.1	13224.7	11228.5	9555.7	8906.5	9225.8	9364.1	10490.0
42.5°	15463.6	15655.1	15821.1	15797.7	14908.1	12741.6	10724.1	9866.3	10109.0	10268.6	11488.1
45°	16004.1	16208.4	16565.9	16951.1	16527.6	14361.2	12062.7	11004.9	11226.3	11466.8	12677.7
47.5°	16487.2	16719.2	17183.1	17793.9	17902.4	15987.1	13529.0	12330.9	12533.0	12782.1	13871.6
50°	16529.8	16729.8	17449.2	18315.3	18879.4	17549.2	15103.9	13818.4	14007.9	14273.8	15150.7
52.5°	15501.9	15816.9	17072.5	18300.5	19328.4	18855.9	16668.1	15365.7	15578.5	15897.7	16474.4
55°	12032.9	12494.7	15968.0	17730.0	19168.7	19700.8	18155.7	17010.8	17283.1	17617.3	17806.7
57.5°	10364.4	10566.5	12675.6	16691.5	18440.9	19920.1	19411.3	18672.9	19111.3	19477.4	19215.6
60°	9315.2	9483.3	10730.4	15076.2	17483.2	19573.1	20381.8	20222.2	20979.9	21416.1	20656.4
62.5°	8191.5	8351.1	9485.5	12588.3	16257.4	18996.3	20994.8	21652.4	22895.2	23371.9	22014.1
65°	7076.3	7212.5	8300.0	10577.2	14699.5	18419.7	21311.9	22888.9	24668.1	25161.8	23142.1
67.5°	5833.4	5946.2	6974.1	8923.5	12805.4	17630.1	21469.3	23861.5	26211.0	26634.5	23699.7
70°	4209.6	4296.8	5358.8	7057.1	10428.2	16272.3	21405.5	24551.0	27011.2	27349.6	23278.4
72.5°	1989.8	2068.7	3315.8	4582.1	7365.8	13629.0	20113.7	24004.1	26198.2	26030.1	20699.0
75°	1062.0	1130.1	1904.8	2513.4	3890.4	9342.9	16459.6	20677.6	21999.3	21182.0	15297.5
77.5°	719.3	772.5	1179.1	1508.9	1777.0	4435.2	10579.3	14316.5	13773.7	12424.4	7661.6
80°	570.3	625.7	966.2	1021.5	859.8	1602.6	4371.3	6627.2	4760.8	3807.4	2179.3
82.5°	438.4	500.1	812.9	740.7	468.2	657.6	1272.6	2096.3	1219.4	927.9	527.8
85°	268.1	334.2	638.5	472.4	263.9	300.1	432.0	583.1	372.5	310.7	189.4
87.5°	136.2	191.6	323.5	172.4	119.2	70.2	114.9	114.9	97.9	85.2	49.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2	5797.2
2.5°	5818.5	5861.1	5933.4	6001.6	6054.8	6105.8	6156.9	6184.5	6193.0	6227.2	6246.2
5°	5886.6	5965.4	6105.8	6237.7	6320.8	6371.8	6408.0	6429.3	6433.6	6444.2	6461.2
7.5°	6012.1	6137.7	6333.6	6465.5	6527.2	6523.0	6508.0	6454.8	6433.6	6414.4	6418.7
10°	6188.8	6354.8	6595.4	6686.8	6648.6	6546.4	6414.4	6259.1	6186.7	6116.5	6095.2
12.5°	6408.0	6618.7	6855.0	6850.7	6661.3	6399.5	6093.0	5854.7	5703.6	5595.1	5569.5
15°	6674.1	6916.7	7097.6	6952.9	6537.9	6067.5	5618.4	5307.8	5171.5	5052.3	5039.6
17.5°	6948.6	7208.2	7291.2	6920.9	6227.2	5575.9	5067.3	4822.5	4688.5	4624.6	4643.8
20°	7216.7	7474.3	7406.1	6737.9	5754.7	5018.3	4565.0	4431.0	4403.3	4418.2	4411.8
22.5°	7499.8	7729.6	7429.6	6384.6	5152.4	4448.0	4198.9	4203.2	4264.9	4309.6	4320.3
25°	7789.3	7944.6	7367.8	5873.9	4505.4	4028.7	3967.0	4035.1	4156.4	4243.6	4267.1
27.5°	8068.1	8136.1	7233.7	5241.7	3949.9	3728.6	3739.3	3879.7	4062.8	4184.0	4213.9
30°	8383.0	8306.4	6976.3	4530.9	3564.7	3471.1	3560.4	3724.3	3907.4	4016.0	4041.5
32.5°	8738.4	8453.3	6567.7	3873.4	3292.3	3264.6	3411.5	3517.9	3598.8	3630.8	3647.8
35°	9181.1	8659.7	6044.1	3411.5	3047.6	3113.5	3254.1	3200.9	3168.9	3151.9	3168.9
37.5°	9755.7	8938.5	5431.2	3111.4	2849.7	3005.0	3062.5	2896.4	2770.9	2709.2	2724.1
40°	10447.4	9347.1	4841.7	2879.4	2724.1	2911.4	2811.4	2611.3	2451.7	2364.5	2370.8
42.5°	11215.7	9774.8	4345.8	2705.0	2653.8	2834.7	2626.3	2387.8	2130.4	2102.7	2130.4
45°	12022.2	10215.4	4007.4	2570.9	2619.8	2768.8	2519.8	2134.6	1951.6	2064.4	2123.9
47.5°	12828.8	10619.7	3803.1	2470.9	2602.8	2694.3	2426.2	1994.1	1864.3	2028.2	2104.8
50°	13726.9	10981.5	3711.6	2398.5	2583.6	2664.5	2285.6	1958.0	1772.8	1881.3	1962.2
52.5°	14618.7	11262.5	3643.5	2326.1	2555.9	2641.1	2217.6	1915.4	1662.1	1668.5	1713.2
55°	15508.2	11445.5	3569.0	2230.4	2494.2	2590.1	2211.2	1868.6	1579.1	1549.3	1570.6
57.5°	16457.4	11549.8	3477.5	2123.9	2387.8	2460.2	2204.8	1832.4	1553.6	1504.6	1511.1
60°	17423.7	11703.0	3358.3	1994.1	2245.3	2304.8	2189.9	1819.6	1538.7	1455.7	1462.1
62.5°	18289.8	11756.2	3215.7	1870.7	2062.2	2151.6	2158.0	1809.0	1498.2	1355.7	1355.7
65°	18858.1	11526.3	2966.8	1730.2	1864.3	1994.1	2096.3	1772.8	1425.9	1283.3	1283.3
67.5°	18834.6	10870.8	2577.3	1549.3	1672.8	1819.6	2007.0	1711.0	1338.6	1193.9	1200.3
70°	17957.8	9576.9	2083.5	1338.6	1462.1	1632.3	1891.9	1619.6	1234.4	1096.0	1108.8
72.5°	15401.9	7495.5	1513.1	1091.7	1217.3	1438.7	1743.0	1508.9	1127.9	1008.8	1002.3
75°	11002.9	4743.8	1025.8	838.6	947.1	1219.4	1557.9	1379.0	1030.0	1013.0	955.6
77.5°	5620.6	2266.6	678.9	612.9	659.8	962.0	1308.8	1232.3	1045.0	836.4	744.9
80°	1828.1	836.4	427.7	417.2	438.4	640.6	1013.0	1010.9	791.7	568.3	502.2
82.5°	583.1	359.7	278.8	268.1	257.5	402.2	706.5	800.2	534.2	359.7	357.5
85°	232.0	214.9	163.9	151.1	108.5	189.4	370.3	532.1	398.0	259.6	266.0
87.5°	85.2	85.2	44.7	31.9	23.4	63.9	100.0	159.6	227.8	134.1	131.9
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)