

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: P971534

Luminaire Tested: **NAV-SB6D-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53754.1 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

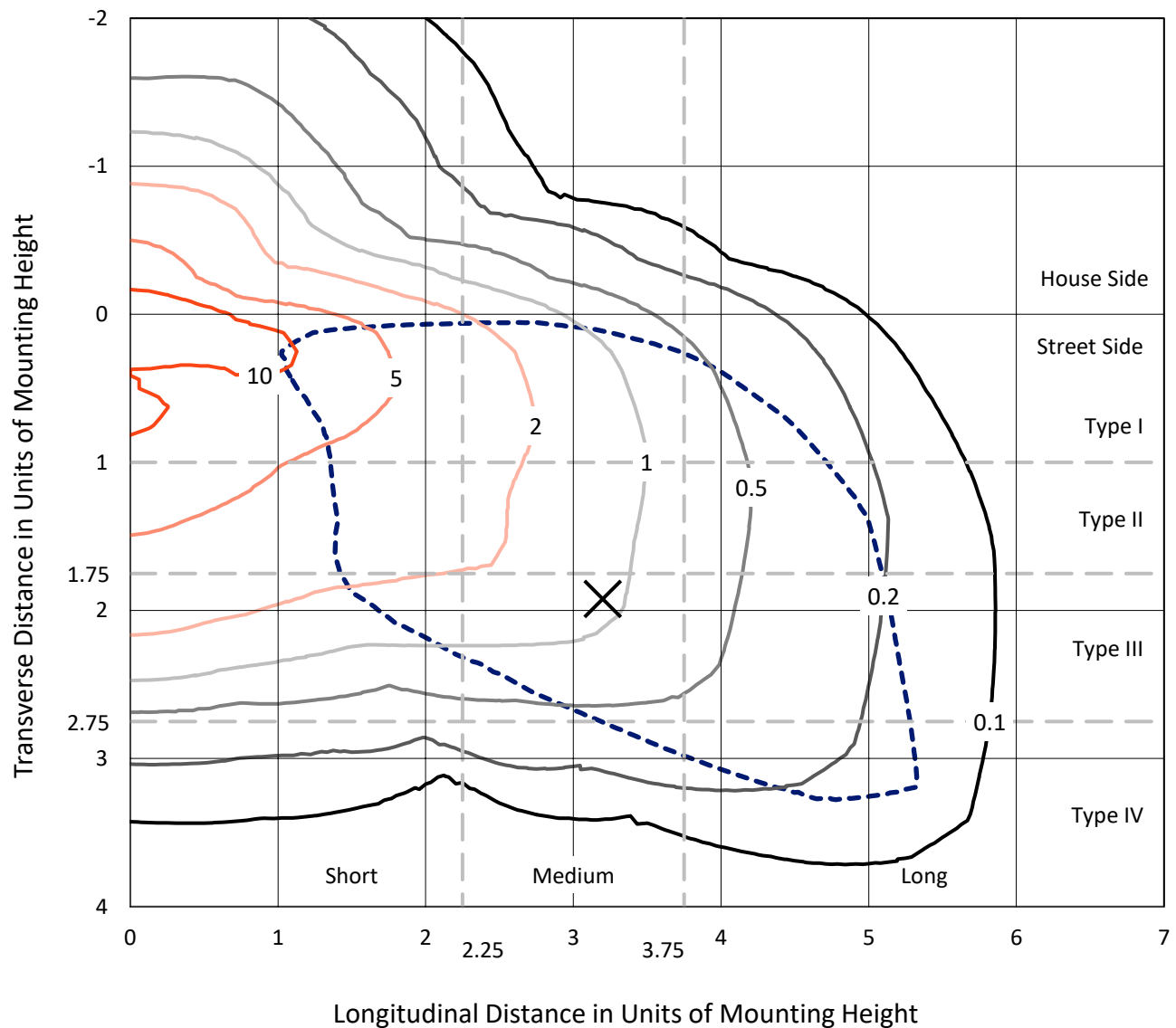


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Iso-Footcandle Lines of Horizontal Illumination

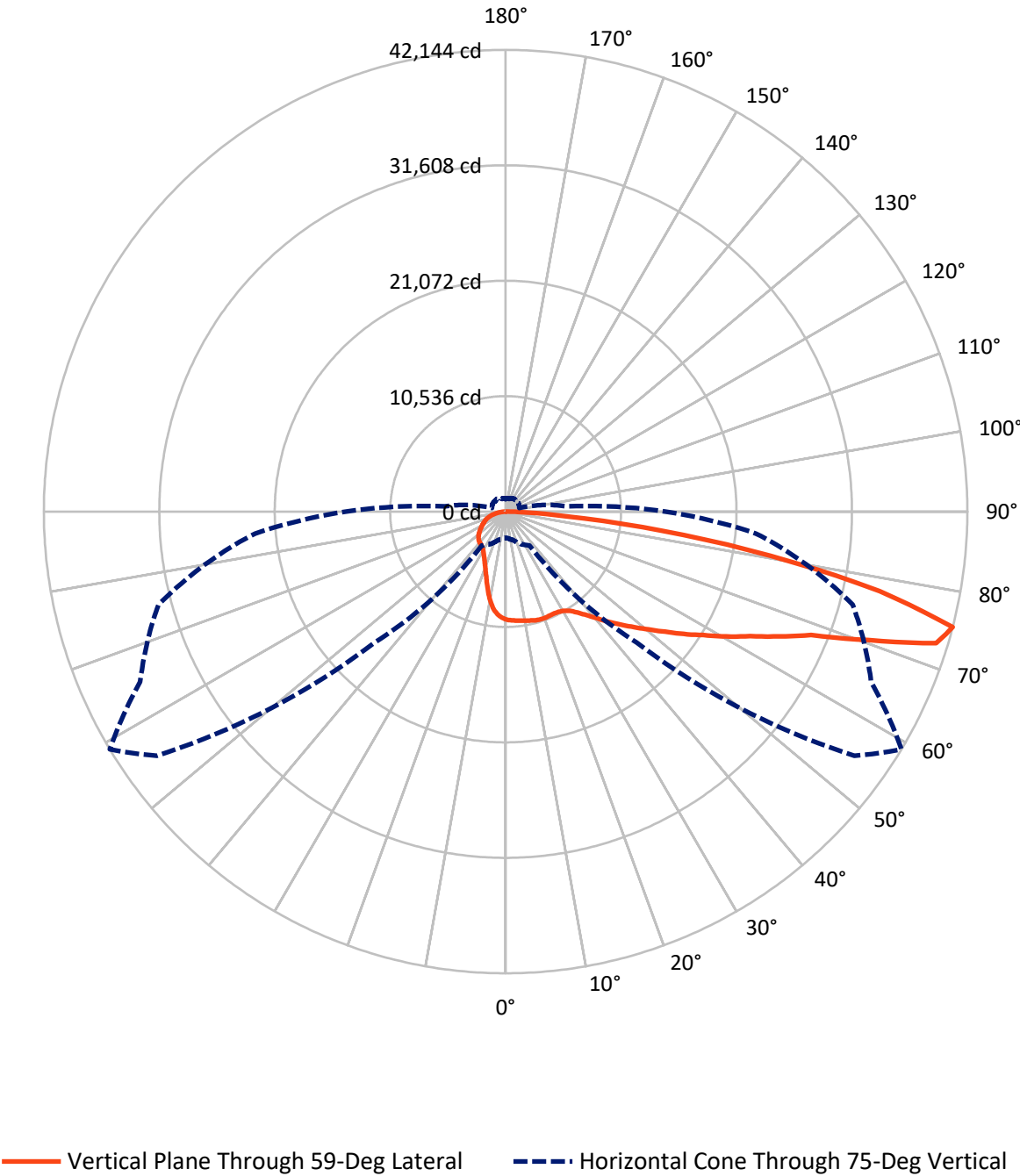
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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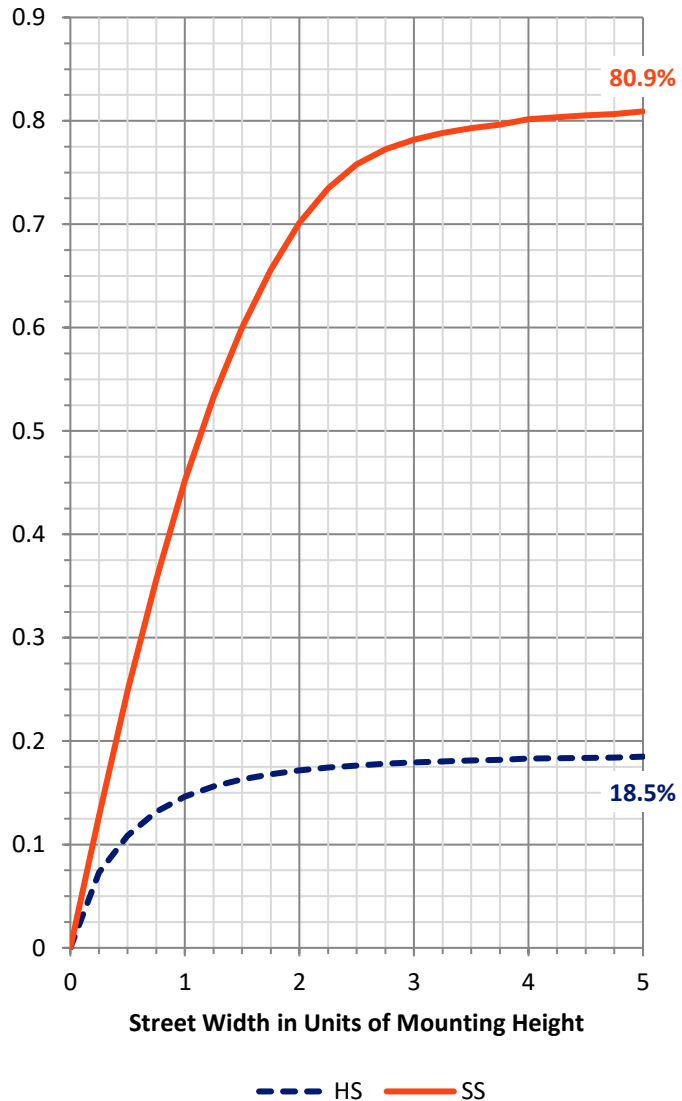
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10081.9	0.0	10081.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	43672.1	0.0	43672.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	53754.1	0.0	53754.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	884.7	1.6
10°-20°	2261.3	4.2
20°-30°	3434.8	6.4
30°-40°	5105.7	9.5
40°-50°	7593.0	14.1
50°-60°	10306.6	19.2
60°-70°	12582.7	23.4
70°-80°	9874.7	18.4
80°-90°	1710.5	3.2
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°	53754.1	100.0
0°-180°	53754.1	100.0

Coefficient of Utilization



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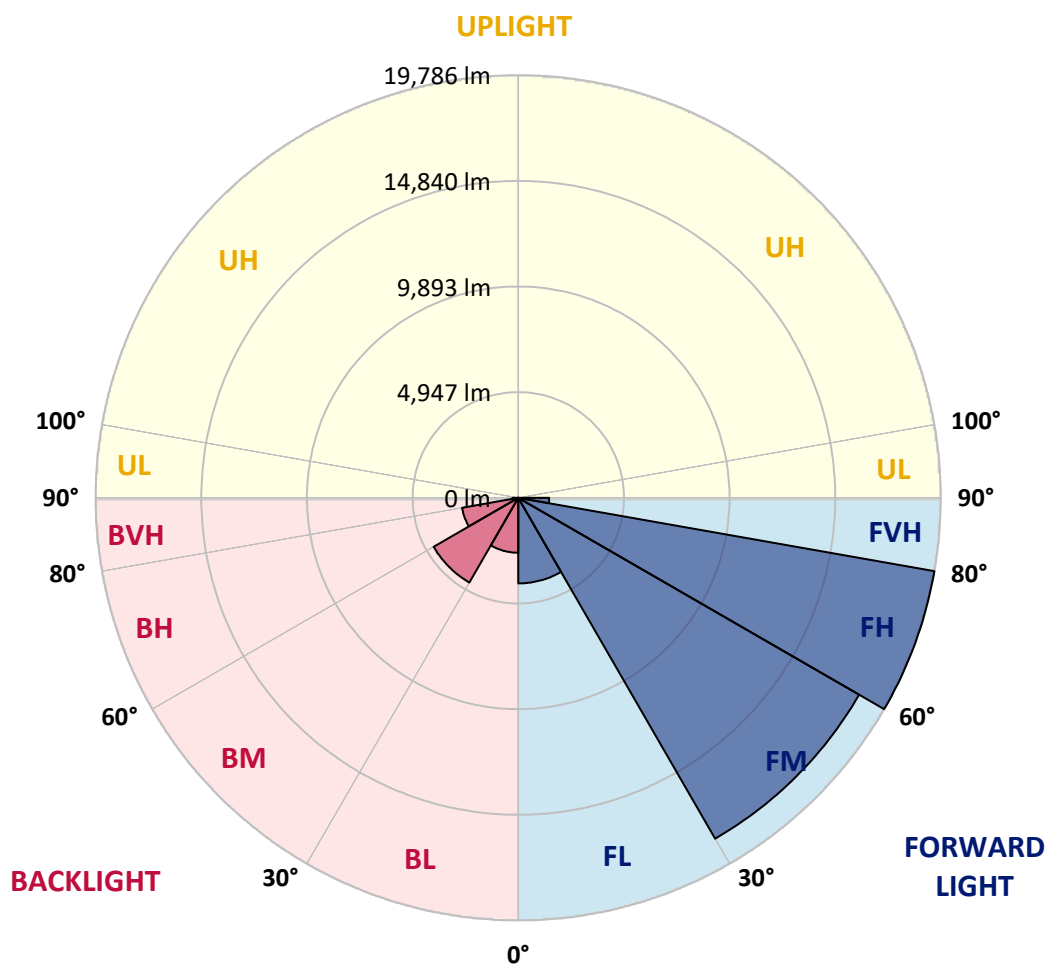
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4007.9	7.5			
FM	(30°-60°)	18429.1	34.3			
FH	(60°-80°)	19786.3	36.8			G5
FVH	(80°-90°)	1448.7	2.7			G5
BL	(0°-30°)	2572.8	4.8	B4/5000		
BM	(30°-60°)	4576.2	8.5	B3/5000		
BH	(60°-80°)	2671.1	5.0	B4/5000		G4/5000
BVH	(80°-90°)	261.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4
2.5°	9950.3	9915.6	9950.3	9935.8	9930.1	9918.5	9921.4	9941.6	9930.1	9944.6	9895.3
5°	9883.8	9863.6	9898.2	9889.6	9927.1	9933.0	9970.6	9993.6	10008.1	10011.1	9973.5
7.5°	9773.9	9753.7	9802.8	9843.3	9924.3	9947.4	10025.5	10063.0	10083.3	10118.0	10063.0
10°	9372.0	9363.3	9484.7	9638.0	9828.8	9947.4	10066.0	10129.6	10161.4	10253.9	10190.3
12.5°	8660.6	8672.2	8831.2	9126.2	9507.9	9889.6	10112.2	10204.8	10253.9	10369.6	10340.7
15°	7981.1	7978.2	8151.6	8466.9	9001.9	9635.1	10135.4	10294.4	10378.2	10548.9	10525.7
17.5°	7587.8	7576.2	7697.6	7937.7	8435.0	9244.7	10077.5	10343.6	10522.9	10736.9	10716.6
20°	7515.5	7492.3	7556.0	7674.6	8027.3	8816.7	9927.1	10343.6	10638.5	10916.1	10904.6
22.5°	7778.6	7741.0	7715.1	7700.5	7856.7	8463.9	9756.6	10308.8	10809.1	11173.5	11153.2
25°	8307.8	8250.0	8117.0	7986.8	7940.6	8305.0	9606.2	10300.2	11063.6	11520.5	11445.3
27.5°	9163.8	9091.4	8822.6	8510.3	8229.7	8385.9	9539.7	10352.3	11344.1	11887.7	11737.4
30°	10225.0	10146.9	9808.6	9328.6	8825.5	8686.7	9623.5	10505.5	11702.6	12376.5	12081.5
32.5°	11176.4	11089.6	10800.4	10311.8	9632.2	9207.2	9889.6	10797.6	12266.6	13055.9	12599.1
35°	12020.8	11919.5	11659.3	11208.2	10621.2	9938.7	10369.6	11315.2	13067.5	14160.6	13301.7
37.5°	12847.8	12729.2	12445.9	11968.7	11558.1	10913.3	11031.8	11980.3	14131.7	15502.3	14232.8
40°	13773.1	13602.5	13258.4	12787.1	12387.9	12055.4	11902.2	12795.7	15213.2	17000.2	15395.4
42.5°	14669.5	14507.6	14097.0	13695.0	13194.8	13099.4	12911.4	13750.0	16395.9	18645.6	16575.2
45°	15635.4	15441.6	14944.3	14435.3	14120.1	13793.3	13888.7	14704.2	17555.5	20322.8	17812.8
47.5°	16540.4	16323.5	15736.5	15169.8	14996.3	14377.5	14785.2	15753.9	18761.3	22023.0	19038.9
50°	17029.1	16815.1	16326.5	15814.6	15678.7	15097.5	15756.8	16907.7	20024.9	23717.6	20215.8
52.5°	17436.9	17205.5	16566.5	16283.0	16242.7	15881.1	16954.0	18226.3	21288.6	25215.5	21352.2
55°	17870.7	17613.3	16797.8	16543.4	16728.4	16760.2	18373.7	19721.3	22624.6	26675.8	22425.1
57.5°	18370.9	18044.1	17020.4	16763.2	17202.7	17789.7	20004.7	21271.2	23937.4	28029.1	23379.3
60°	18842.3	18512.6	17448.5	17113.0	17714.5	18983.9	21875.7	23148.0	25423.7	29234.9	24281.5
62.5°	18934.8	18663.0	17789.7	17786.8	18408.5	20377.7	24090.7	25042.0	26722.1	30426.3	25091.2
65°	17332.8	17162.2	16644.6	17760.8	19403.2	22384.6	26557.2	27465.3	28373.2	31467.4	25802.5
67.5°	13191.9	13215.0	13177.4	15331.7	18599.3	25267.6	30128.5	30059.2	30411.9	32635.6	26620.9
70°	6032.0	6167.9	7052.8	10583.5	14900.8	25600.1	36033.4	35134.0	32971.1	34148.0	27329.4
72.5°	3258.9	3363.0	3724.5	5126.9	8958.5	22760.4	40446.1	41085.1	36374.6	35165.8	26551.5
75°	2391.4	2449.2	2700.9	3258.9	3762.1	16916.4	38864.3	42143.5	36799.7	32791.7	22928.2
77.5°	1790.0	1816.0	2021.3	2582.3	1925.9	8918.0	31053.8	34902.7	31502.0	26941.8	16936.6
80°	1298.4	1327.3	1480.5	1937.5	1350.4	3261.9	21323.3	24498.4	21574.9	17173.8	8440.9
82.5°	896.5	907.9	974.5	1318.6	942.7	1266.6	12098.8	14365.9	12043.9	6026.3	2278.7
85°	540.8	555.2	584.1	769.2	534.9	601.5	5222.4	5401.6	3600.1	1440.0	708.5
87.5°	222.6	237.1	260.2	323.9	211.0	167.7	861.7	1081.5	673.7	422.2	219.8
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°	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4	9866.4
2.5°	9880.9	9860.7	9805.8	9730.5	9661.1	9574.4	9536.8	9505.0	9476.0	9421.1	9395.0
5°	9941.6	9886.6	9739.2	9548.4	9331.5	9094.3	8863.1	8704.0	8568.1	8466.9	8383.0
7.5°	10034.1	9930.1	9661.1	9270.7	8773.4	8264.5	7804.7	7477.9	7232.1	7142.5	6986.3
10°	10129.6	10005.2	9536.8	8848.5	7989.8	7206.1	6596.0	6260.5	6063.9	6000.2	5902.0
12.5°	10242.3	10060.2	9343.1	8261.6	7113.6	6254.8	5722.7	5526.0	5424.8	5390.1	5398.8
15°	10407.2	10106.5	9051.0	7527.1	6277.8	5560.7	5216.6	5080.7	5028.6	5025.8	5037.4
17.5°	10531.6	10115.1	8597.0	6740.5	5635.9	5141.4	4858.0	4806.0	4840.7	4892.7	4912.9
20°	10670.4	10037.0	8001.3	6023.4	5184.8	4774.1	4655.7	4690.3	4774.1	4849.4	4875.4
22.5°	10768.6	9895.3	7281.3	5465.3	4794.4	4563.1	4557.3	4629.6	4675.8	4713.5	4733.7
25°	10855.4	9655.4	6517.9	4996.9	4473.4	4435.9	4499.4	4476.4	4444.5	4476.4	4496.6
27.5°	10919.0	9276.6	5835.4	4586.3	4247.9	4349.1	4311.5	4259.5	4256.5	4273.9	4302.8
30°	10898.7	8770.5	5274.4	4195.8	4088.8	4187.1	4097.5	4088.8	4080.2	4088.8	4120.7
32.5°	10898.7	8195.1	4843.5	3926.9	3987.7	3950.0	3941.3	3921.1	3886.4	3883.5	3921.1
35°	10959.5	7619.6	4473.4	3782.4	3903.8	3814.1	3820.0	3770.8	3698.5	3663.8	3698.5
37.5°	11083.8	7157.0	4106.2	3713.0	3756.3	3753.4	3730.3	3646.4	3519.2	3409.3	3446.9
40°	11384.6	7021.0	3854.6	3681.1	3686.9	3721.6	3660.9	3498.9	3209.8	3030.5	3053.6
42.5°	11856.0	7249.4	3799.7	3603.1	3640.6	3675.3	3556.7	3180.9	2975.6	2868.6	2868.6
45°	12454.5	7648.6	3918.3	3490.2	3530.7	3591.5	3238.7	3059.4	2966.9	2969.7	2984.2
47.5°	13212.1	8067.8	4138.0	3391.9	3371.7	3406.4	3027.6	2917.7	2790.5	2822.3	2903.2
50°	14088.3	8492.8	4346.2	3258.9	3195.3	3082.6	2891.7	2787.6	2625.6	2550.5	2570.7
52.5°	15036.7	8903.5	4430.0	3097.0	3004.5	2874.3	2799.2	2672.0	2475.3	2350.9	2348.1
55°	15936.1	9276.6	4337.5	2903.2	2813.6	2712.4	2700.9	2622.8	2411.6	2238.2	2238.2
57.5°	16786.2	9588.9	4106.2	2706.6	2619.9	2559.1	2637.2	2599.6	2333.6	2110.9	2099.4
60°	17506.3	9802.8	3770.8	2507.0	2446.4	2414.6	2533.1	2521.6	2223.7	1975.1	1966.4
62.5°	18078.8	9886.6	3400.6	2316.2	2301.7	2243.9	2388.6	2388.6	2085.0	1842.0	1833.3
65°	18527.1	9805.8	3024.7	2128.3	2157.2	2070.5	2212.2	2194.8	1937.5	1723.4	1711.9
67.5°	18923.2	9539.7	2608.3	1943.2	2009.7	1899.8	2027.0	1986.6	1775.5	1604.8	1593.4
70°	19099.6	8920.9	2134.0	1758.2	1839.2	1732.1	1842.0	1766.8	1593.4	1477.6	1454.5
72.5°	17682.7	7414.3	1680.1	1564.4	1633.8	1547.0	1642.5	1555.7	1396.7	1344.6	1301.2
75°	14629.0	5563.6	1292.6	1353.3	1405.4	1338.9	1402.5	1338.9	1194.2	1231.8	1124.8
77.5°	10624.0	3756.3	988.9	1130.7	1153.7	1119.1	1174.0	1101.8	971.6	962.9	919.5
80°	5283.2	2200.6	775.0	893.5	884.9	861.7	925.4	890.6	780.7	827.1	818.4
82.5°	1529.7	942.7	563.9	627.5	610.2	615.9	662.2	679.6	1017.8	1009.2	1032.4
85°	480.0	370.1	338.4	349.9	332.5	341.2	390.4	775.0	717.1	419.3	454.0
87.5°	124.3	127.2	83.8	89.7	92.6	109.9	124.3	471.3	225.6	147.5	156.1
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)