

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: P970914

Luminaire Tested: **NAV-SB6C-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970914
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-SB6C-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48132 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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



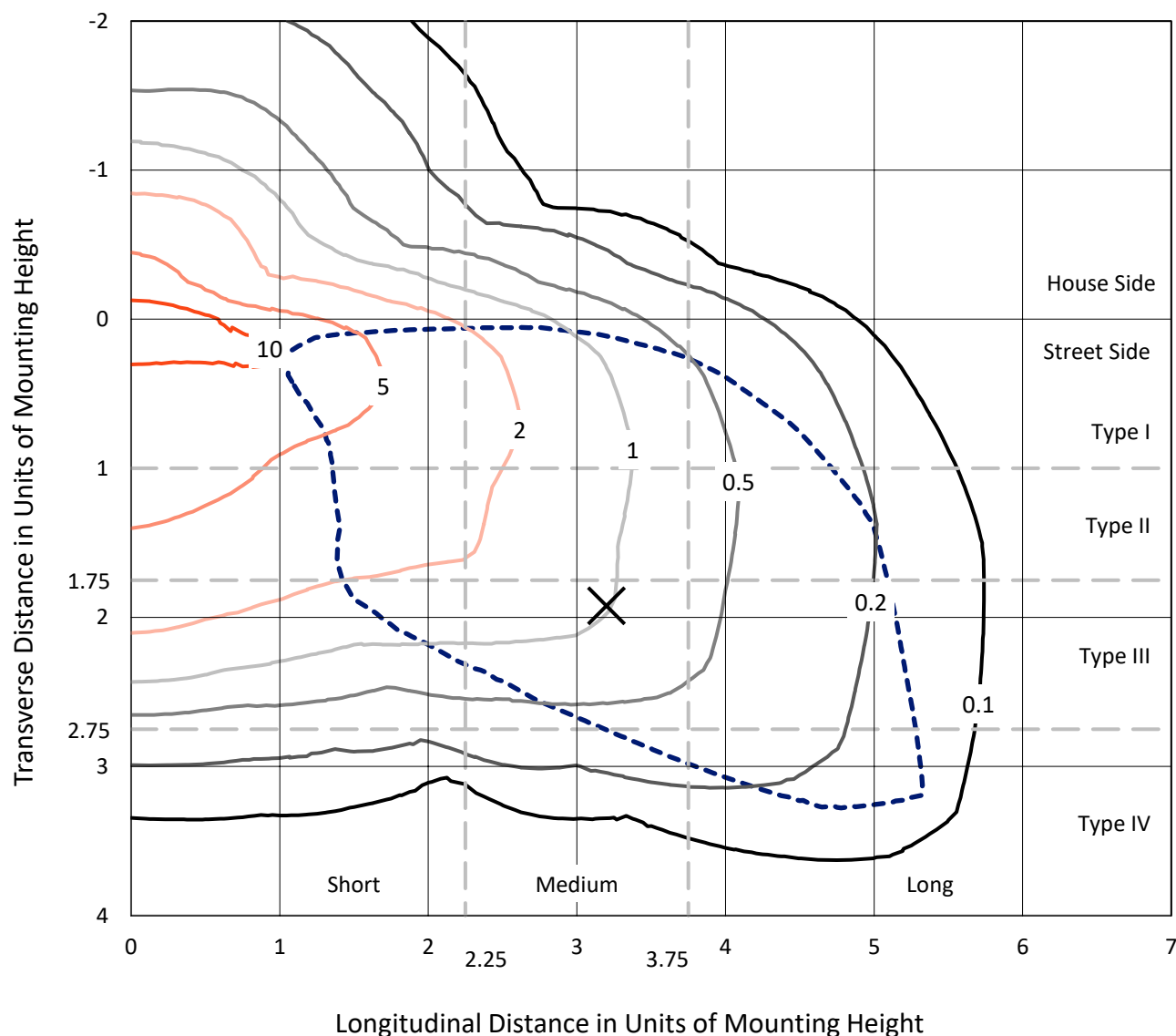
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

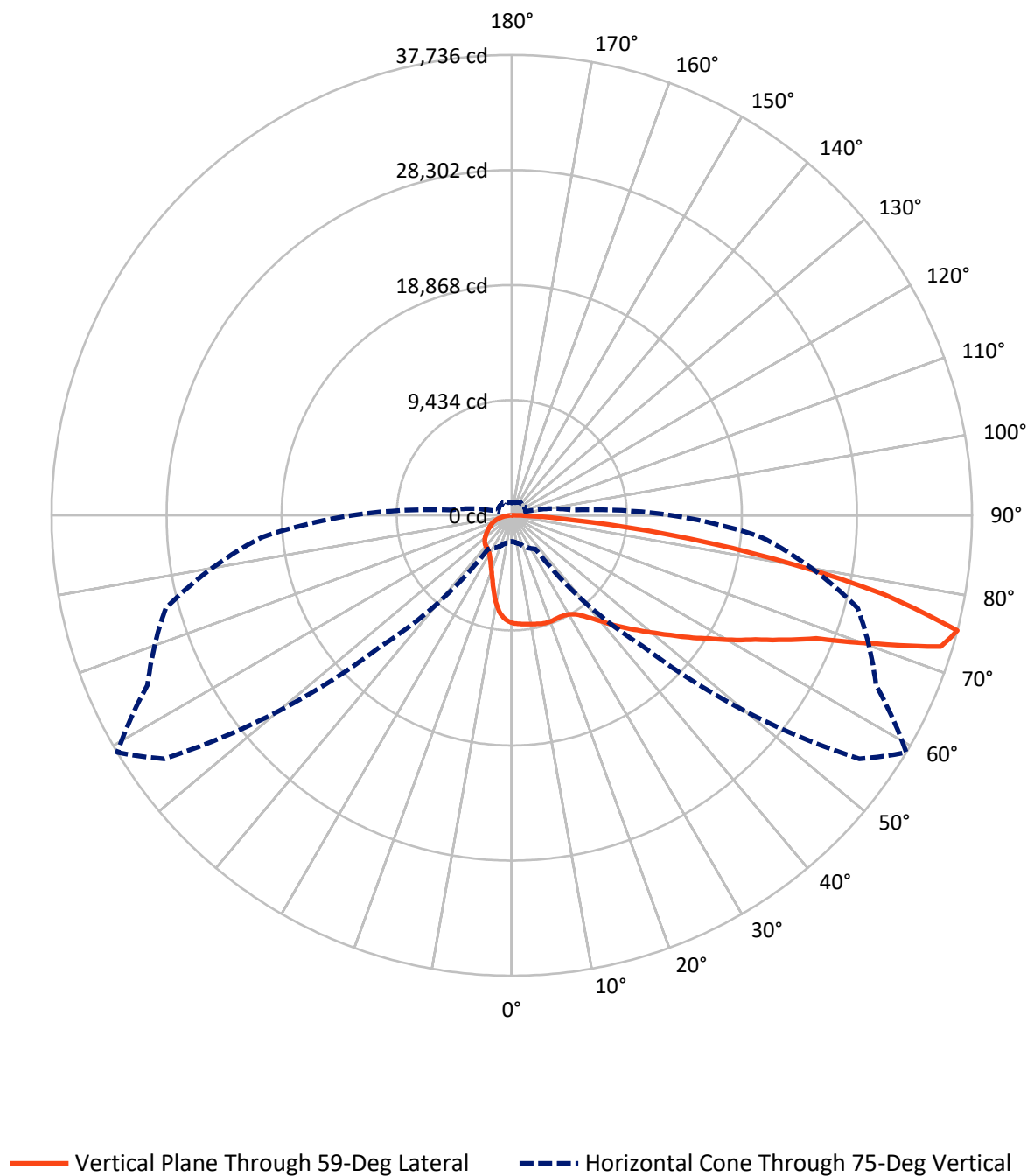


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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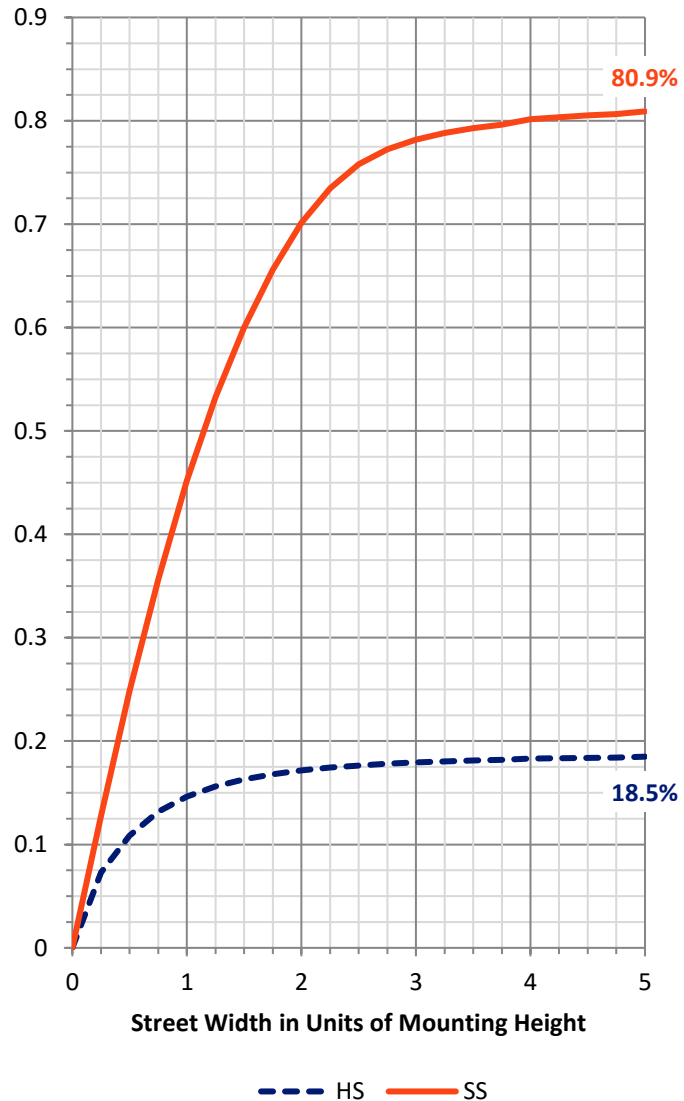
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9027.5	0.0	9027.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39104.5	0.0	39104.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	48132.0	0.0	48132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.2	1.6
10°-20°	2024.8	4.2
20°-30°	3075.5	6.4
30°-40°	4571.7	9.5
40°-50°	6798.9	14.1
50°-60°	9228.7	19.2
60°-70°	11266.7	23.4
70°-80°	8841.9	18.4
80°-90°	1531.6	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°	48132.0	100.0
0°-180°	48132.0	100.0

Coefficient of Utilization



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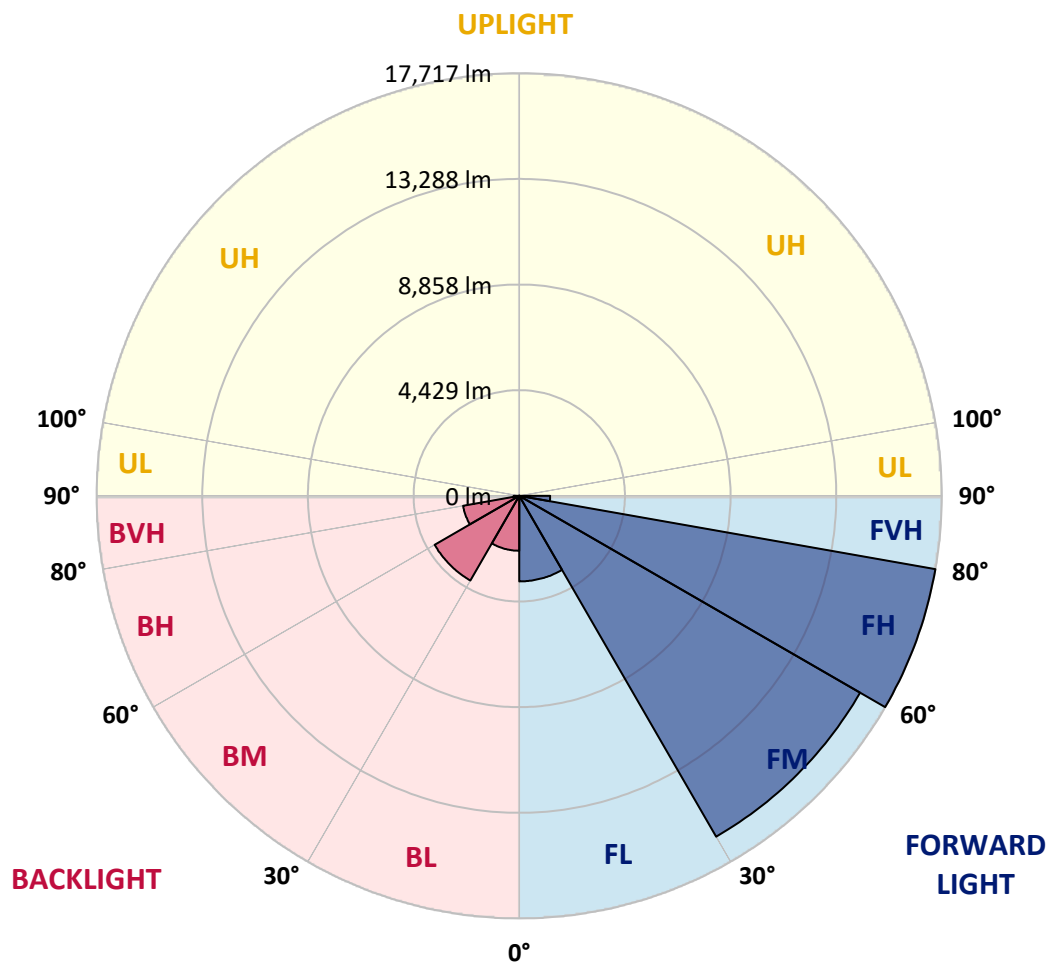
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3588.8	7.5			
FM	(30°-60°)	16501.6	34.3			
FH	(60°-80°)	17716.9	36.8			G5
FVH	(80°-90°)	1297.2	2.7			G5
BL	(0°-30°)	2303.7	4.8	B3/2500		
BM	(30°-60°)	4097.6	8.5	B3/5000		
BH	(60°-80°)	2391.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	234.5	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5
2.5°	8909.6	8878.6	8909.6	8896.7	8891.5	8881.1	8883.7	8901.8	8891.5	8904.4	8860.4
5°	8850.1	8831.9	8863.0	8855.2	8888.9	8894.0	8927.8	8948.5	8961.4	8963.9	8930.3
7.5°	8751.7	8733.5	8777.6	8813.8	8886.3	8907.0	8976.9	9010.6	9028.7	9059.8	9010.6
10°	8391.8	8384.0	8492.7	8630.0	8800.9	8907.0	9013.1	9070.1	9098.6	9181.4	9124.6
12.5°	7754.8	7765.2	7907.6	8171.7	8513.4	8855.2	9054.6	9137.5	9181.4	9285.1	9259.1
15°	7146.3	7143.7	7299.1	7581.3	8060.3	8627.3	9075.3	9217.7	9292.9	9445.6	9424.9
17.5°	6794.2	6783.9	6892.6	7107.5	7552.8	8277.8	9023.5	9261.7	9422.3	9613.9	9595.7
20°	6729.4	6708.7	6765.7	6871.9	7187.7	7894.7	8888.9	9261.7	9525.8	9774.4	9764.0
22.5°	6965.1	6931.5	6908.1	6895.2	7035.0	7578.7	8736.1	9230.6	9678.6	10004.8	9986.7
25°	7438.9	7387.1	7268.0	7151.5	7110.1	7436.3	8601.5	9222.9	9906.4	10315.6	10248.3
27.5°	8205.3	8140.6	7899.8	7620.2	7369.0	7508.8	8541.9	9269.5	10157.6	10644.4	10509.7
30°	9155.6	9085.7	8782.7	8352.9	7902.3	7778.1	8617.0	9406.7	10478.7	11082.0	10817.8
32.5°	10007.5	9929.8	9670.9	9233.3	8624.8	8244.2	8855.2	9668.2	10983.6	11690.4	11281.4
35°	10763.5	10672.9	10439.8	10035.9	9510.3	8899.3	9285.1	10131.7	11700.8	12679.6	11910.5
37.5°	11504.0	11397.9	11144.1	10716.9	10349.2	9771.8	9878.0	10727.2	12653.6	13881.0	12744.2
40°	12332.6	12179.9	11871.7	11449.7	11092.3	10794.6	10657.3	11457.4	13622.0	15222.2	13785.1
42.5°	13135.3	12990.2	12622.6	12262.7	11814.8	11729.3	11561.0	12311.9	14681.1	16695.5	14841.6
45°	14000.1	13826.5	13381.3	12925.6	12643.3	12350.7	12436.1	13166.3	15719.3	18197.2	15949.7
47.5°	14810.5	14616.3	14090.7	13583.2	13427.8	12873.7	13238.8	14106.3	16799.0	19719.7	17047.6
50°	15248.1	15056.4	14618.9	14160.6	14038.9	13518.4	14108.8	15139.4	17930.5	21237.0	18101.4
52.5°	15613.2	15406.1	14833.8	14580.0	14543.8	14220.1	15180.8	16320.0	19062.0	22578.2	19119.0
55°	16001.6	15771.1	15041.0	14813.1	14978.8	15007.2	16452.1	17658.7	20258.3	23885.8	20079.6
57.5°	16449.5	16156.9	15240.3	15009.9	15403.4	15929.0	17912.4	19046.6	21433.8	25097.5	20934.1
60°	16871.5	16576.4	15623.6	15323.1	15861.8	16998.4	19587.6	20726.9	22764.6	26177.3	21741.9
62.5°	16954.4	16711.0	15929.0	15926.4	16483.1	18246.4	21571.0	22422.9	23927.2	27244.1	22466.9
65°	15519.9	15367.2	14903.7	15903.2	17373.9	20043.4	23779.7	24592.7	25405.6	28176.2	23103.8
67.5°	11812.1	11832.9	11799.2	13728.2	16654.0	22624.8	26977.4	26915.3	27231.1	29222.2	23836.6
70°	5401.1	5522.9	6315.1	9476.6	13342.4	22922.6	32264.6	31459.4	29522.6	30576.5	24471.0
72.5°	2918.1	3011.2	3334.9	4590.8	8021.4	20380.0	36215.8	36788.1	32570.1	31487.8	23774.5
75°	2141.3	2193.1	2418.4	2918.1	3368.6	15147.1	34799.5	37735.7	32950.8	29362.0	20530.1
77.5°	1602.8	1626.1	1809.8	2312.2	1724.5	7985.3	27805.9	31252.2	28207.3	24124.0	15165.2
80°	1162.6	1188.5	1325.7	1734.8	1209.2	2920.6	19093.1	21936.1	19318.4	15377.6	7558.0
82.5°	802.7	813.0	872.6	1180.7	844.1	1134.1	10833.4	12863.3	10784.2	5396.0	2040.4
85°	484.2	497.1	523.1	688.7	479.0	538.5	4676.2	4836.7	3223.6	1289.4	634.4
87.5°	199.4	212.3	233.0	290.0	189.0	150.2	771.6	968.4	603.3	378.0	196.8
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°	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5	8834.5
2.5°	8847.5	8829.3	8780.2	8712.8	8650.7	8573.0	8539.4	8510.9	8484.9	8435.8	8412.5
5°	8901.8	8852.6	8720.6	8549.7	8355.5	8143.2	7936.1	7793.6	7671.9	7581.3	7506.2
7.5°	8984.6	8891.5	8650.7	8301.2	7855.8	7400.1	6988.3	6695.8	6475.7	6395.5	6255.6
10°	9070.1	8958.8	8539.4	7923.1	7154.1	6452.4	5906.0	5605.7	5429.6	5372.6	5284.7
12.5°	9171.1	9008.0	8365.8	7397.5	6369.6	5600.5	5124.1	4948.1	4857.5	4826.3	4834.1
15°	9318.7	9049.4	8104.4	6739.8	5621.3	4979.1	4671.0	4549.3	4502.7	4500.2	4510.5
17.5°	9430.0	9057.2	7697.9	6035.5	5046.5	4603.7	4349.9	4303.4	4334.4	4381.1	4399.1
20°	9554.3	8987.3	7164.4	5393.4	4642.5	4274.9	4168.7	4199.7	4274.9	4342.2	4365.5
22.5°	9642.4	8860.4	6519.7	4893.7	4293.0	4085.9	4080.6	4145.4	4186.8	4220.4	4238.6
25°	9720.1	8645.5	5836.1	4474.2	4005.6	3971.9	4028.9	4008.2	3979.7	4008.2	4026.3
27.5°	9777.0	8306.3	5225.1	4106.6	3803.6	3894.2	3860.6	3813.9	3811.4	3826.9	3852.8
30°	9758.9	7853.1	4722.8	3757.0	3661.2	3749.2	3669.0	3661.2	3653.4	3661.2	3689.7
32.5°	9758.9	7338.0	4337.0	3516.2	3570.6	3536.9	3529.2	3511.0	3480.0	3477.3	3511.0
35°	9813.2	6822.7	4005.6	3386.7	3495.5	3415.2	3420.4	3376.4	3311.7	3280.6	3311.7
37.5°	9924.6	6408.4	3676.8	3324.6	3363.4	3360.9	3340.2	3265.0	3151.2	3052.8	3086.4
40°	10193.8	6286.7	3451.5	3296.1	3301.3	3332.4	3278.0	3133.0	2874.1	2713.5	2734.3
42.5°	10615.9	6491.2	3402.3	3226.2	3259.9	3291.0	3184.8	2848.2	2664.4	2568.5	2568.5
45°	11151.9	6848.5	3508.5	3125.2	3161.5	3215.8	2899.9	2739.4	2656.6	2659.2	2672.1
47.5°	11830.2	7224.0	3705.2	3037.2	3019.0	3050.1	2710.9	2612.5	2498.6	2527.1	2599.6
50°	12614.8	7604.6	3891.6	2918.1	2861.1	2760.1	2589.3	2496.1	2351.0	2283.7	2301.8
52.5°	13464.1	7972.2	3966.7	2773.0	2690.2	2573.7	2506.4	2392.5	2216.4	2105.0	2102.5
55°	14269.3	8306.3	3883.8	2599.6	2519.3	2428.7	2418.4	2348.5	2159.5	2004.1	2004.1
57.5°	15030.6	8585.9	3676.8	2423.5	2345.8	2291.5	2361.4	2327.8	2089.6	1890.1	1879.7
60°	15675.3	8777.6	3376.4	2244.9	2190.5	2162.0	2268.2	2257.9	1991.2	1768.4	1760.6
62.5°	16187.9	8852.6	3045.0	2074.0	2061.1	2009.2	2138.8	2138.8	1866.8	1649.3	1641.5
65°	16589.3	8780.2	2708.4	1905.7	1931.6	1853.9	1980.8	1965.2	1734.8	1543.2	1532.8
67.5°	16944.1	8541.9	2335.5	1739.9	1799.5	1701.1	1815.1	1778.8	1589.8	1437.0	1426.7
70°	17102.0	7987.8	1910.9	1574.3	1646.8	1550.9	1649.3	1582.0	1426.7	1323.1	1302.4
72.5°	15833.3	6638.8	1504.4	1400.8	1462.9	1385.3	1470.7	1393.0	1250.6	1204.0	1165.1
75°	13099.0	4981.7	1157.4	1211.8	1258.4	1198.8	1255.8	1198.8	1069.4	1103.0	1007.3
77.5°	9512.9	3363.4	885.5	1012.4	1033.1	1002.0	1051.2	986.5	870.0	862.2	823.4
80°	4730.6	1970.5	693.9	800.1	792.3	771.6	828.6	797.4	699.0	740.6	732.8
82.5°	1369.7	844.1	504.9	561.9	546.3	551.6	593.0	608.4	911.4	903.6	924.3
85°	429.8	331.4	303.0	313.3	297.8	305.6	349.5	693.9	642.2	375.5	406.5
87.5°	111.3	113.9	75.1	80.3	82.8	98.4	111.3	422.1	201.9	132.0	139.8
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)