

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: P971462

Luminaire Tested: **NAV-SB6D-740-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66786.9 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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



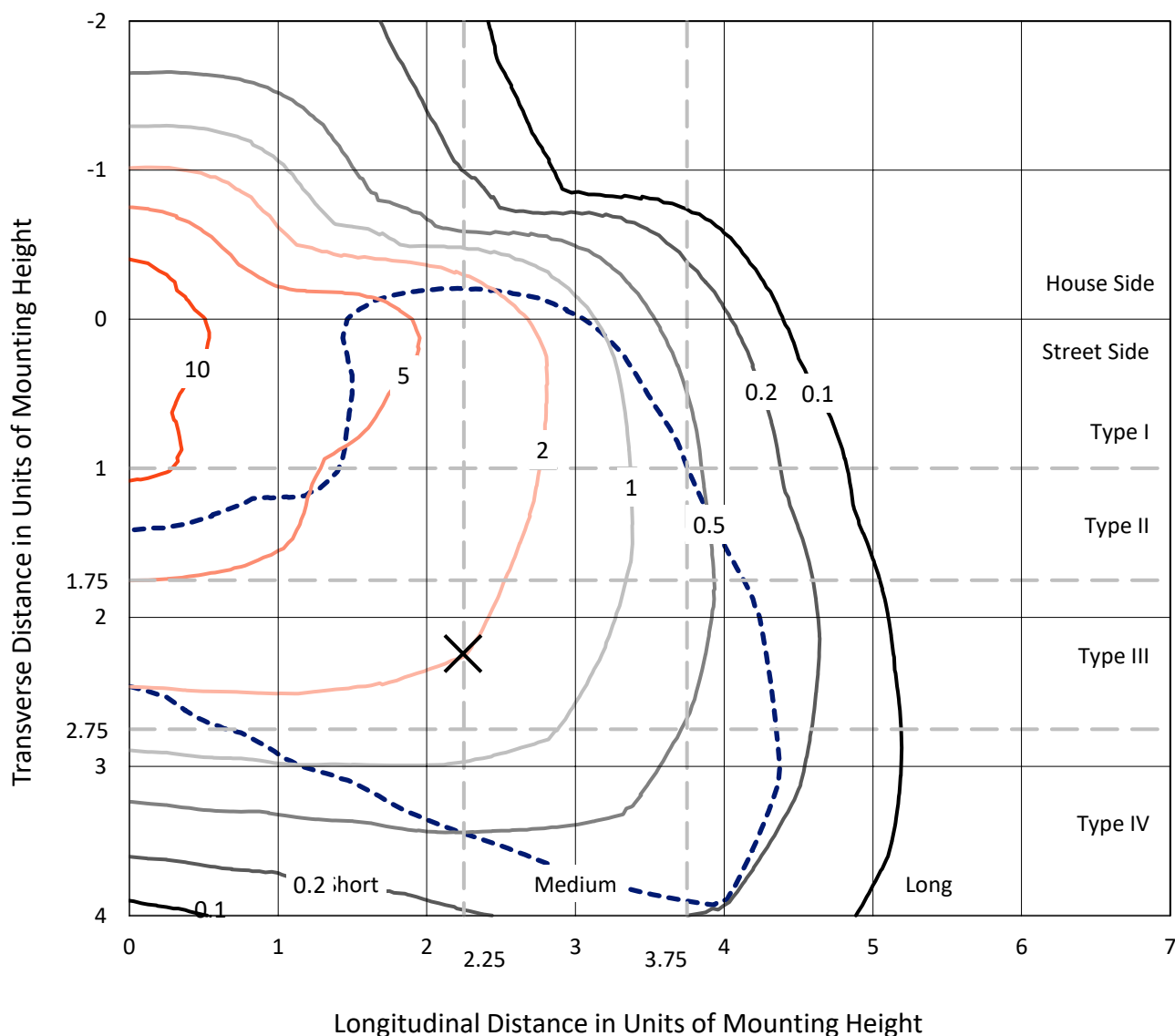
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



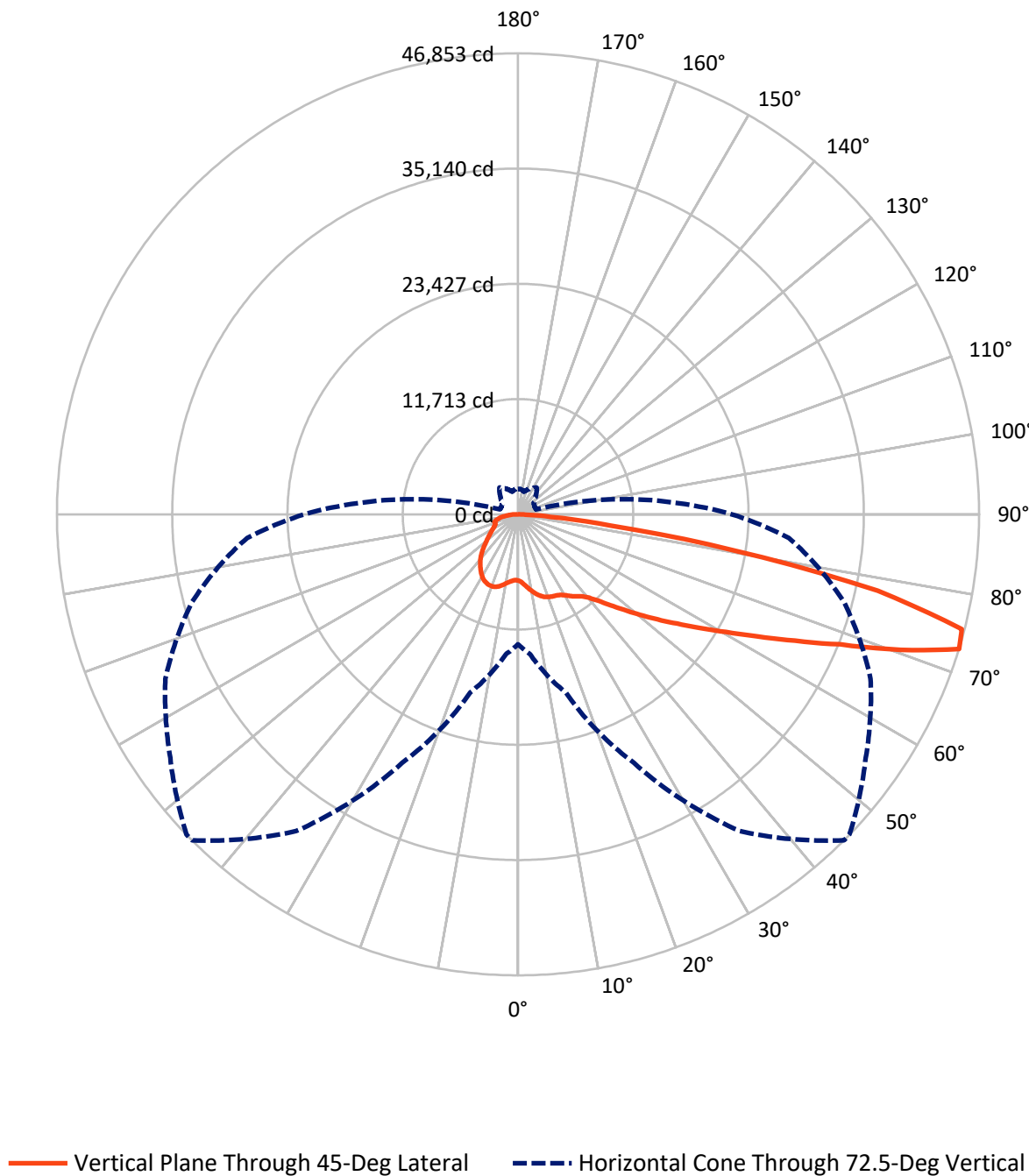
Based on 25 foot mounting height. Maximum calculated value = 13.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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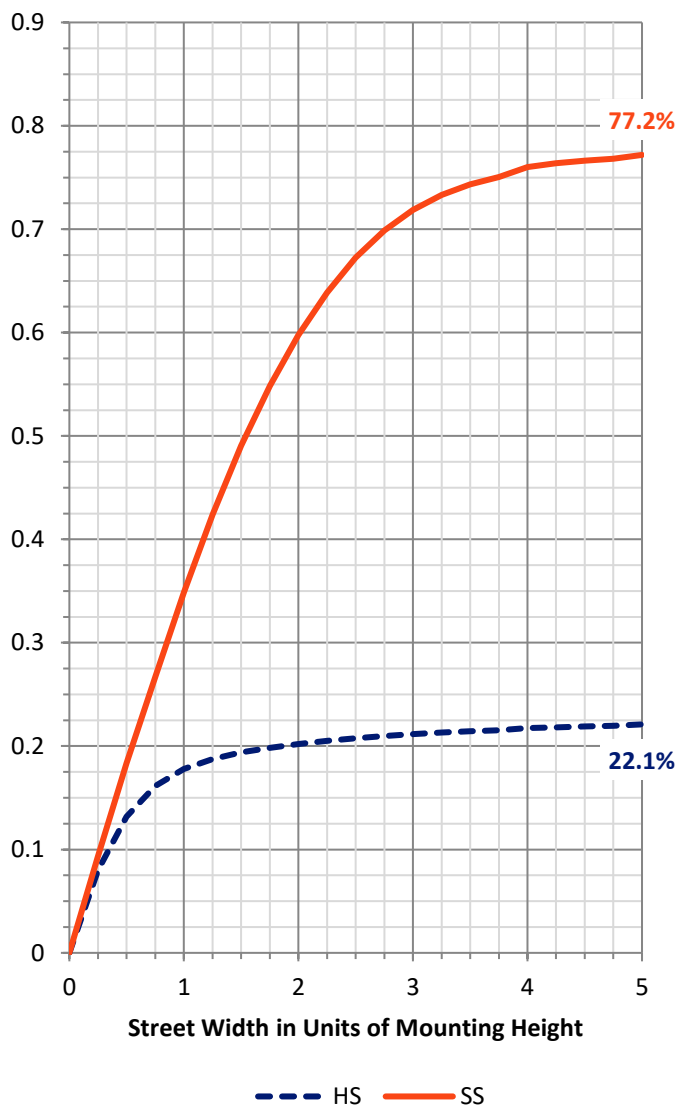
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15098.2	0.0	15098.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	51688.7	0.0	51688.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	66786.9	0.0	66786.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.7	1.0
10°-20°	2286.4	3.4
20°-30°	3977.3	6.0
30°-40°	5701.6	8.5
40°-50°	8028.2	12.0
50°-60°	12296.9	18.4
60°-70°	17813.8	26.7
70°-80°	14225.4	21.3
80°-90°	1771.7	2.7
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°	66786.9	100.0
0°-180°	66786.9	100.0

Coefficient of Utilization



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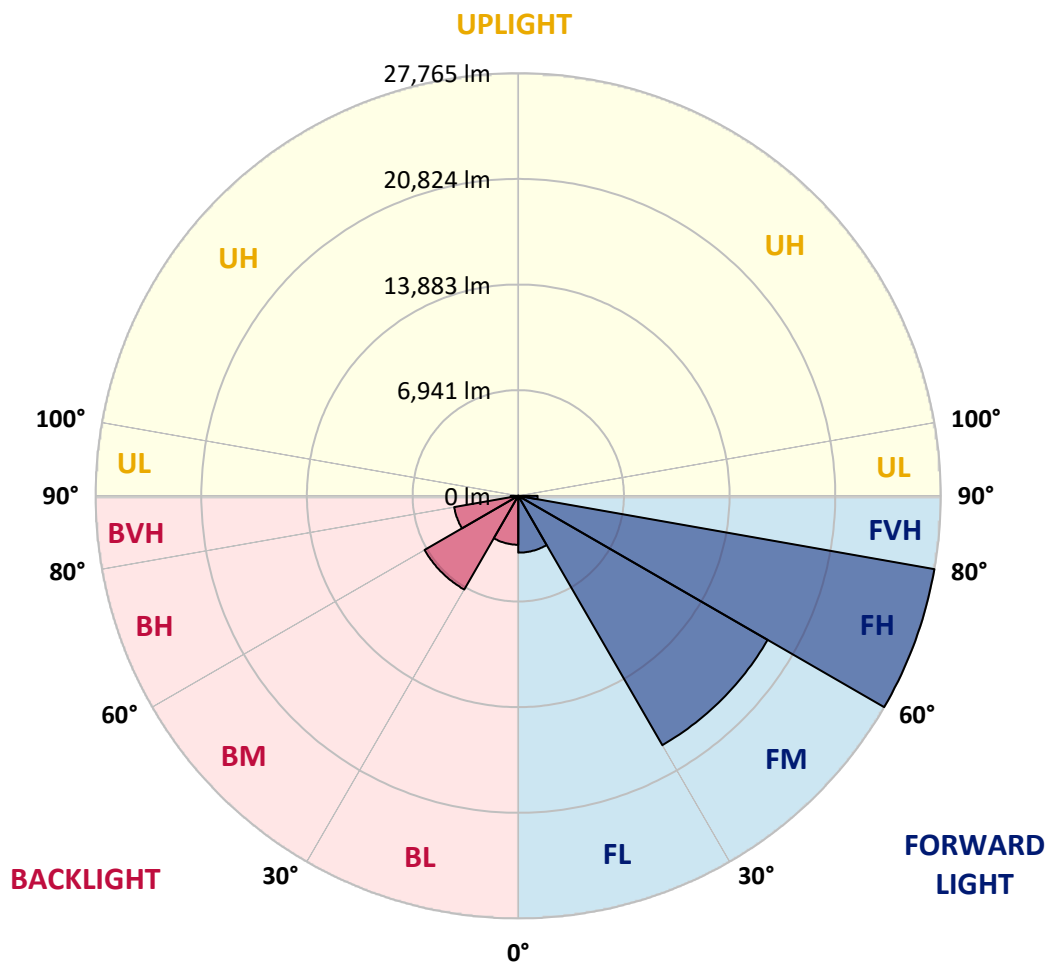
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3734.8	5.6			
FM	(30°-60°)	18917.5	28.3			
FH	(60°-80°)	27765.3	41.6			G5
FVH	(80°-90°)	1271.1	1.9			G5
BL	(0°-30°)	3214.5	4.8	B4/5000		
BM	(30°-60°)	7109.1	10.6	B4/8500		
BH	(60°-80°)	4273.9	6.4	B4/5000		G4/5000
BVH	(80°-90°)	500.7	0.7			G4/750
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5
2.5°	7001.4	7047.1	7004.8	6966.2	6948.6	6902.9	6899.4	6871.2	6853.6	6804.4	6790.3
5°	7490.4	7550.3	7479.8	7402.4	7332.1	7219.5	7205.4	7124.5	7033.0	6927.5	6867.7
7.5°	8042.8	8095.6	8014.7	7898.5	7775.4	7588.9	7585.4	7437.6	7293.4	7113.9	7011.9
10°	8524.8	8595.1	8486.1	8327.7	8172.9	7961.9	7937.2	7768.4	7585.4	7353.2	7198.4
12.5°	8950.5	8999.8	8894.2	8700.7	8521.2	8310.2	8278.5	8092.1	7888.0	7624.2	7427.0
15°	9288.2	9351.6	9210.9	9003.3	8813.3	8605.7	8577.6	8408.7	8204.6	7926.6	7673.4
17.5°	9509.9	9562.6	9418.4	9186.3	9003.3	8830.9	8809.8	8669.0	8489.6	8208.1	7937.2
20°	9594.3	9650.7	9499.4	9263.6	9094.7	8961.1	8950.5	8848.5	8725.3	8468.4	8194.1
22.5°	9678.8	9731.6	9534.6	9288.2	9140.4	9056.1	9052.5	8985.7	8936.5	8725.3	8458.0
25°	10020.1	10034.1	9770.3	9414.9	9203.8	9130.0	9126.4	9122.9	9144.0	8978.7	8742.9
27.5°	10315.6	10312.1	10086.9	9752.7	9425.5	9270.7	9267.1	9302.3	9369.2	9232.0	9038.4
30°	10748.4	10709.6	10442.3	10093.9	9794.9	9555.7	9534.6	9502.9	9555.7	9446.6	9334.0
32.5°	11666.7	11543.4	11110.7	10491.5	10101.0	9918.0	9889.9	9692.8	9713.9	9647.1	9590.8
35°	12982.4	12820.6	12243.6	11244.5	10480.9	10220.6	10206.5	9956.7	9914.5	9854.7	9875.8
37.5°	14548.1	14347.5	13675.6	12335.1	11135.4	10572.5	10551.3	10326.2	10153.8	10090.4	10210.0
40°	16120.8	15867.4	15311.6	13665.0	12099.4	11160.0	11093.2	10751.8	10554.8	10449.3	10702.6
42.5°	17647.7	17436.6	16961.6	15156.8	13288.5	12018.4	11870.6	11286.7	11138.9	11040.4	11497.7
45°	18998.7	18808.8	18460.5	16750.6	14681.8	13186.5	13042.3	12088.8	12043.0	12043.0	12704.5
47.5°	20096.5	20054.2	19684.8	18376.0	16324.8	14516.5	14266.7	13204.0	13327.3	13517.2	14417.9
50°	21313.7	21197.6	20803.6	19976.7	18256.4	16039.8	15835.7	14572.7	15033.6	15554.3	16894.8
52.5°	22432.5	22495.9	22056.1	21644.4	20437.7	17739.2	17380.3	16187.6	17183.3	18045.2	19797.4
55°	23583.0	23586.6	23463.4	23407.1	22724.6	19617.9	19223.9	18129.7	19712.9	20782.5	23181.9
57.5°	24663.1	24670.2	24853.1	25349.2	25377.4	21785.1	21338.3	20515.1	22524.1	23614.7	26672.0
60°	25627.2	25676.4	26176.0	27337.1	27710.0	24269.1	23846.9	23333.2	25430.1	26527.8	30341.6
62.5°	25950.8	26130.2	27242.0	28892.1	30014.5	27315.9	26900.7	26594.6	28484.0	29504.3	33409.6
65°	25402.0	25813.6	27963.2	30176.3	32385.8	30936.2	30524.6	30190.4	31657.4	32618.0	35928.7
67.5°	24054.5	24585.8	27921.1	31523.8	35263.7	35291.9	34908.3	34123.8	35059.6	35429.0	36748.4
70°	20504.5	21299.7	25461.8	32026.8	38567.4	41248.3	40878.8	38859.4	38454.8	36667.5	34440.4
72.5°	13211.1	14280.7	18748.9	27885.8	39302.7	46853.0	46831.8	43134.0	39527.9	34261.0	27622.0
75°	4820.1	5474.4	8711.3	17503.4	32990.9	46567.9	46705.1	42402.3	36083.5	26464.5	17207.9
77.5°	1755.6	1921.0	2842.7	6727.0	20289.9	37364.1	37649.1	33898.6	25683.4	13281.5	6818.4
80°	921.8	1013.3	1456.5	2610.6	8693.6	22189.8	22636.6	20145.7	12071.2	4000.3	2044.2
82.5°	510.1	552.4	816.2	1417.9	3915.8	9488.8	9756.2	7958.3	4246.6	1695.8	844.4
85°	274.4	292.0	383.5	774.0	1914.0	3289.6	3363.4	2378.3	1692.3	995.7	408.2
87.5°	80.9	98.5	126.7	246.3	749.4	738.8	756.4	471.5	668.5	503.1	133.7
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°	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5	6737.5
2.5°	6769.2	6758.6	6719.9	6702.3	6681.3	6677.7	6695.3	6698.8	6702.3	6705.9	6719.9
5°	6832.5	6797.3	6762.1	6741.0	6748.1	6751.6	6786.7	6811.4	6829.0	6843.0	6850.1
7.5°	6955.6	6927.5	6867.7	6864.1	6874.7	6906.3	6952.2	7008.4	7040.1	7064.7	7071.8
10°	7138.6	7085.8	7015.4	7026.0	7047.1	7092.9	7187.8	7233.6	7286.3	7332.1	7321.6
12.5°	7325.1	7279.3	7198.4	7205.4	7240.6	7321.6	7413.0	7469.3	7504.5	7539.7	7553.7
15°	7567.8	7486.9	7399.0	7399.0	7462.3	7550.3	7592.5	7638.2	7659.3	7698.0	7712.1
17.5°	7817.6	7712.1	7596.0	7588.9	7666.3	7708.5	7733.2	7740.2	7747.3	7789.5	7803.5
20°	8067.4	7951.3	7785.9	7771.9	7789.5	7782.4	7778.9	7771.9	7782.4	7835.2	7856.3
22.5°	8313.7	8180.0	7951.3	7888.0	7838.7	7771.9	7768.4	7764.9	7771.9	7824.6	7859.8
25°	8602.2	8440.4	8134.3	7944.3	7778.9	7687.4	7698.0	7701.5	7708.5	7750.7	7807.0
27.5°	8915.3	8735.9	8303.1	7926.6	7627.6	7564.3	7546.7	7557.2	7581.9	7648.8	7715.6
30°	9228.5	9017.3	8458.0	7856.3	7437.6	7349.7	7293.4	7318.0	7395.4	7462.3	7536.1
32.5°	9513.4	9302.3	8581.1	7701.5	7194.9	7057.6	6983.7	7015.4	7092.9	7117.5	7205.4
35°	9847.7	9608.5	8633.9	7455.2	6931.0	6719.9	6621.4	6575.7	6614.3	6589.7	6667.1
37.5°	10220.6	9970.8	8626.8	7131.5	6621.4	6378.7	6241.4	6069.0	5988.2	5903.7	5956.5
40°	10773.0	10414.1	8542.3	6741.0	6237.9	6016.2	5769.9	5478.0	5295.0	5129.6	5140.2
42.5°	11525.9	11029.8	8387.6	6311.7	5805.2	5597.6	5263.4	4922.0	4633.6	4359.1	4334.5
45°	12648.2	11835.5	8194.1	5854.4	5337.3	5133.2	4770.8	4387.3	4060.1	3708.2	3666.0
47.5°	14266.7	12919.1	8011.1	5333.7	4844.7	4658.2	4331.0	3975.7	3588.6	3247.4	3208.7
50°	16490.2	14474.2	7842.3	4827.0	4359.1	4218.4	3958.0	3595.7	3205.2	2930.7	2913.2
52.5°	19318.9	16588.7	7771.9	4338.0	3905.2	3852.6	3644.9	3307.2	2937.8	2705.6	2688.0
55°	22566.2	19118.3	7771.9	3870.1	3507.8	3525.3	3381.1	3067.9	2747.8	2540.2	2519.0
57.5°	25880.4	21679.7	7631.1	3437.3	3170.0	3243.8	3152.4	2878.0	2589.5	2374.8	2339.7
60°	28934.3	23825.8	7061.2	3043.3	2870.9	2987.1	2927.2	2691.4	2339.7	2160.2	2132.1
62.5°	31281.1	25036.0	5963.4	2730.2	2624.6	2758.4	2726.7	2445.2	2294.0	2220.0	2195.4
65°	32456.1	24839.0	4559.7	2452.2	2417.1	2624.6	2557.8	2547.2	2427.6	2343.1	2315.1
67.5°	31734.9	23143.3	3307.2	2248.1	2297.4	2501.5	2758.4	2800.5	2578.9	2413.6	2385.4
70°	28572.0	20075.3	2462.8	2054.7	2146.1	2505.0	3145.3	2930.7	2529.6	2336.2	2304.5
72.5°	21735.9	14970.2	1910.4	1850.6	1949.1	2522.6	3317.7	2870.9	2388.9	2582.4	2561.3
75°	12430.1	8218.7	1534.0	1600.8	1702.8	2357.3	3229.8	2716.1	2279.8	2371.3	2371.3
77.5°	4739.1	3159.5	1266.6	1354.5	1368.6	2058.2	3089.0	2705.6	2170.7	2118.0	1931.5
80°	1643.1	1234.9	1048.5	1076.6	1059.0	1829.5	2962.4	2353.7	1776.7	1590.3	1537.5
82.5°	672.0	615.7	830.4	795.1	752.9	1421.4	2392.5	1924.5	1453.0	1284.2	1270.1
85°	292.0	390.5	548.9	482.0	436.2	985.1	1917.5	1628.9	1227.8	1059.0	1055.4
87.5°	59.9	147.8	232.2	218.1	225.2	657.9	1361.6	1157.5	869.0	650.9	510.1
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)