

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: P971505

Luminaire Tested: **NAV-SB6D-760-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-760-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66332.9 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - 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

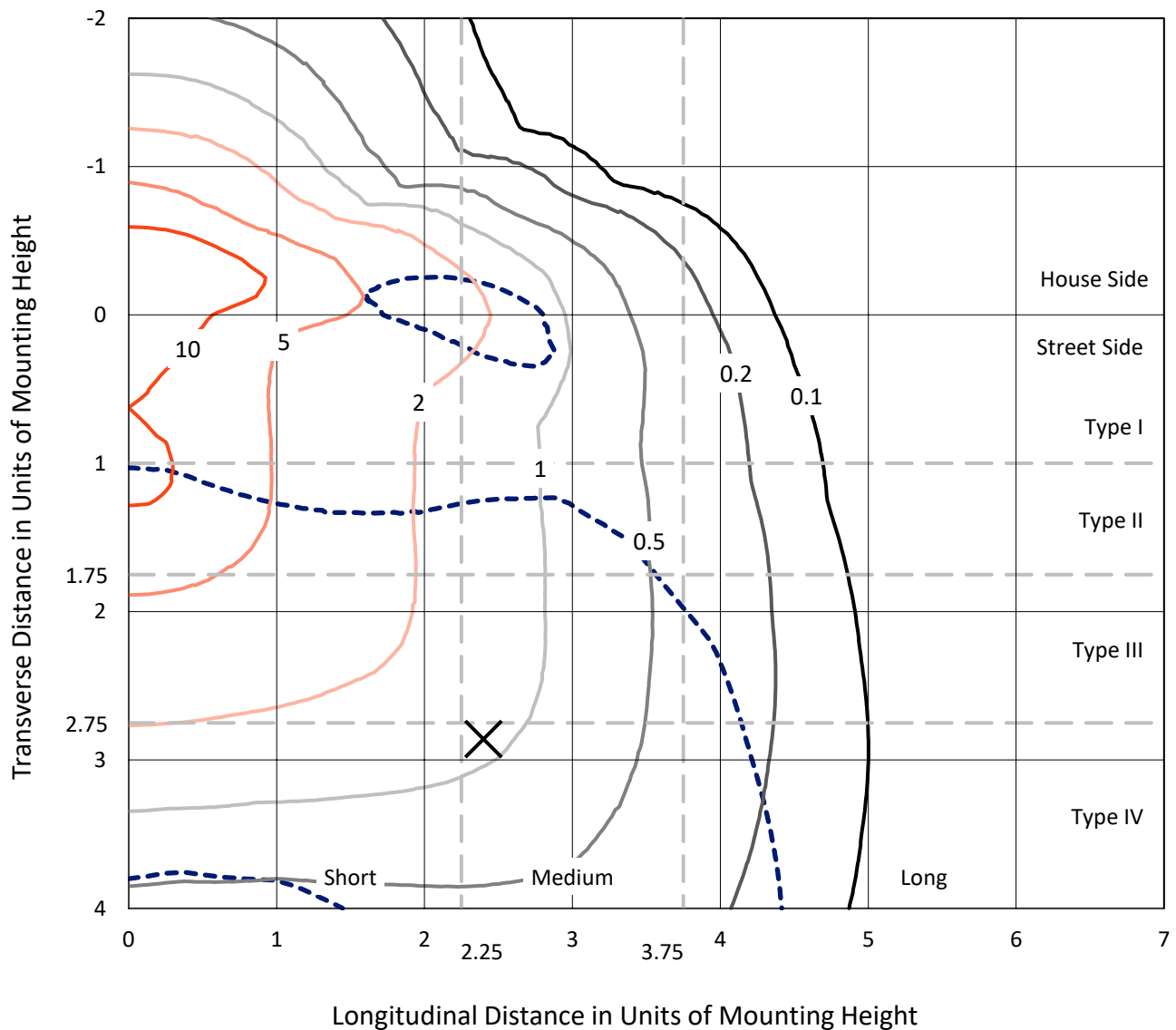


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Iso-Footcandle Lines of Horizontal Illumination

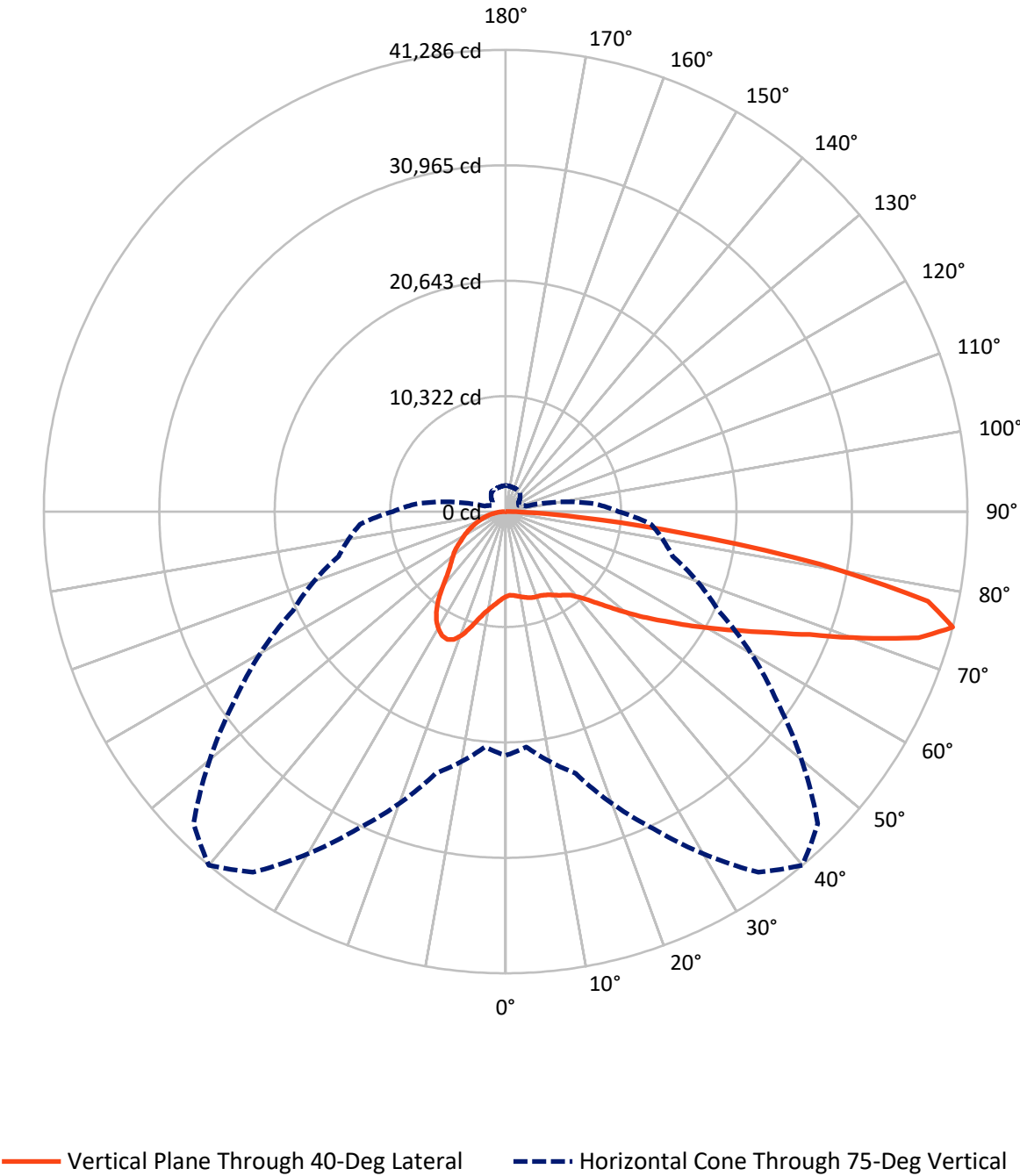
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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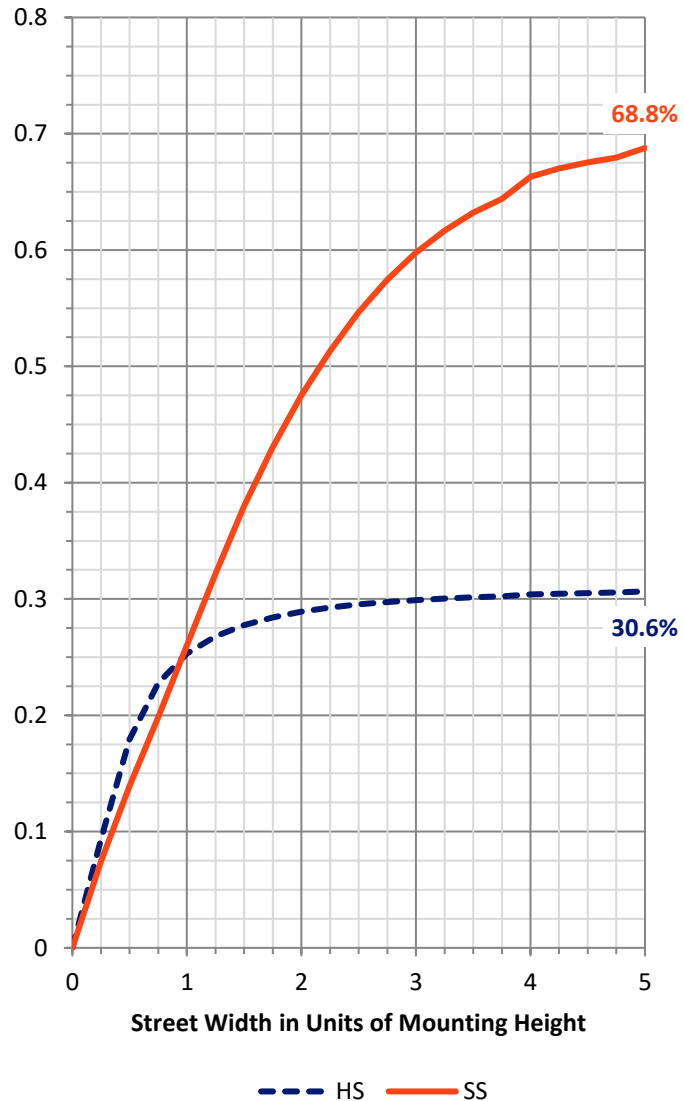
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20552.1	0.0	20552.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	45780.7	0.0	45780.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	66332.9	0.0	66332.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.2	1.1
10°-20°	2542.1	3.8
20°-30°	4641.7	7.0
30°-40°	6583.2	9.9
40°-50°	8889.3	13.4
50°-60°	11958.5	18.0
60°-70°	15178.0	22.9
70°-80°	13775.0	20.8
80°-90°	2007.9	3.0
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°	66332.9	100.0
0°-180°	66332.9	100.0

Coefficient of Utilization



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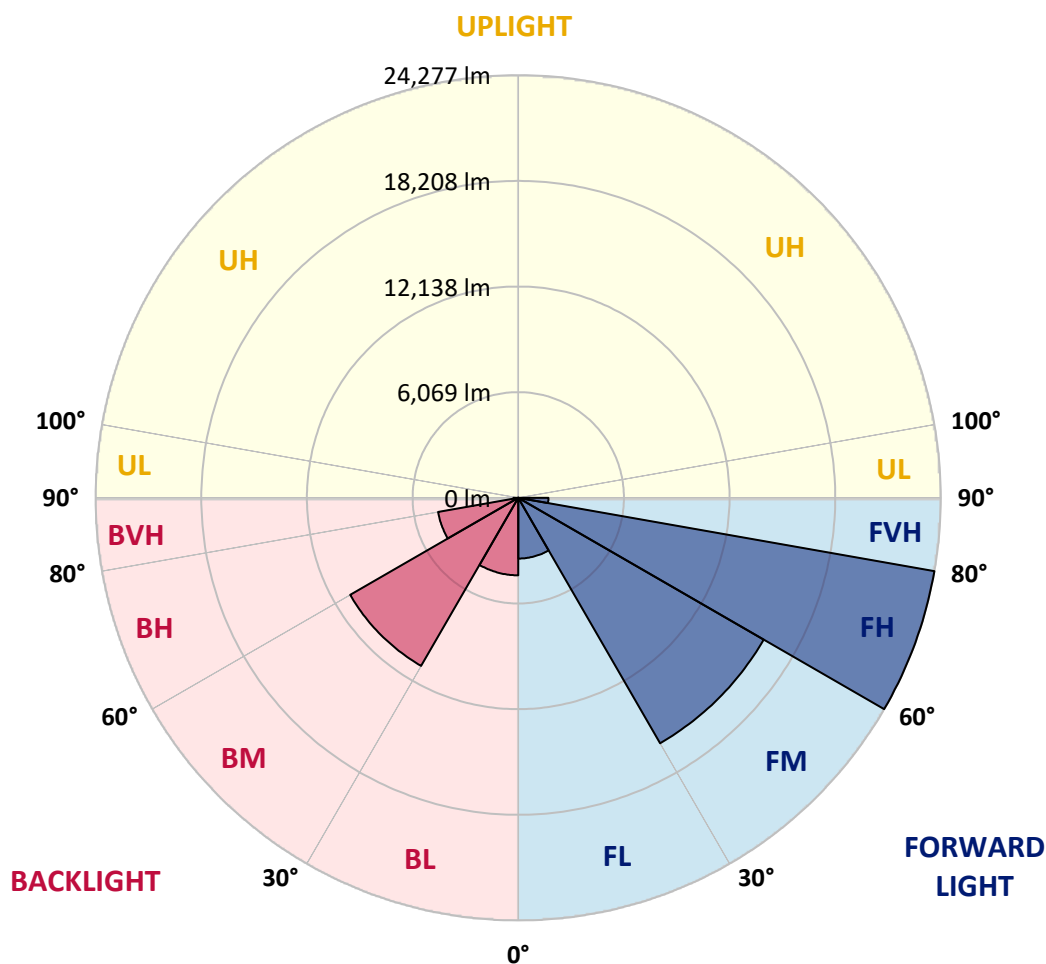
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3489.2	5.3			
FM	(30°-60°)	16283.2	24.5			
FH	(60°-80°)	24276.8	36.6			G5
FVH	(80°-90°)	1731.5	2.6			G5
BL	(0°-30°)	4451.8	6.7	B4/5000		
BM	(30°-60°)	11147.7	16.8	B5		
BH	(60°-80°)	4676.2	7.0	B4/5000		G4/5000
BVH	(80°-90°)	276.4	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2
2.5°	7469.2	7511.4	7500.8	7486.7	7486.7	7490.3	7486.7	7511.4	7536.0	7560.6	7599.4
5°	7546.6	7588.8	7567.7	7550.0	7536.0	7532.5	7522.0	7518.4	7532.5	7564.2	7616.9
7.5°	7697.9	7740.1	7708.4	7676.7	7648.6	7634.5	7620.5	7599.4	7588.8	7606.3	7680.2
10°	7866.7	7908.9	7870.3	7814.0	7768.2	7750.6	7736.5	7715.4	7701.3	7711.9	7792.9
12.5°	8035.6	8077.8	8025.0	7947.6	7887.8	7877.2	7859.7	7852.6	7849.1	7845.6	7926.5
15°	8194.0	8229.1	8162.3	8070.7	8007.4	7989.9	7972.2	7982.8	8000.4	8021.5	8113.0
17.5°	8317.1	8352.2	8253.7	8134.1	8074.2	8067.3	8056.7	8091.9	8141.2	8194.0	8306.5
20°	8429.6	8464.8	8338.2	8176.3	8105.9	8105.9	8109.5	8183.4	8253.7	8331.1	8485.9
22.5°	8588.0	8616.0	8461.3	8239.7	8137.6	8144.6	8172.8	8246.6	8334.6	8440.2	8654.8
25°	8823.6	8844.7	8654.8	8359.3	8243.2	8264.3	8288.9	8324.0	8408.5	8531.7	8820.1
27.5°	9203.6	9221.2	8971.4	8570.3	8394.4	8429.6	8464.8	8440.2	8478.9	8584.4	8953.8
30°	9738.4	9749.0	9432.4	8901.1	8651.3	8668.8	8675.9	8573.8	8500.0	8584.4	9048.8
32.5°	10371.7	10368.2	9991.7	9302.2	8943.3	8925.7	8865.8	8665.3	8492.9	8566.8	9133.3
35°	11353.2	11314.6	10829.0	9865.0	9274.0	9164.9	9024.2	8767.3	8528.1	8549.2	9207.2
37.5°	12978.7	12859.0	12187.0	10786.8	9766.5	9488.6	9281.1	8932.8	8605.5	8542.2	9295.1
40°	14811.7	14660.4	13921.6	12049.9	10505.3	10058.5	9724.3	9168.4	8732.2	8573.8	9425.3
42.5°	16985.9	16771.3	15976.2	13538.1	11441.3	10793.9	10290.8	9467.5	8918.6	8675.9	9601.2
45°	19656.2	19371.3	18245.4	15216.2	12619.8	11757.9	11085.9	9921.4	9203.6	8872.9	9865.0
47.5°	22354.6	22425.1	20824.3	17137.2	14034.1	12947.0	12081.5	10603.8	9618.8	9189.5	10290.8
50°	25222.0	25271.3	23389.1	19265.7	15638.4	14291.0	13200.4	11367.4	10195.8	9639.9	10927.5
52.5°	27459.6	27466.6	25718.1	21492.7	17309.6	15768.6	14407.1	12239.8	10864.2	10238.0	11775.4
55°	28859.8	28842.3	27350.5	23600.1	19230.5	17320.1	15744.0	13231.9	11680.5	10941.7	12841.4
57.5°	29876.6	29823.8	28476.3	25412.0	21278.1	19153.1	17256.8	14357.8	12644.4	11779.0	14245.2
60°	30263.6	30232.0	29239.8	26977.6	23431.3	21179.6	19001.9	15617.3	13738.6	12767.6	16050.1
62.5°	30411.3	30471.2	29989.1	28494.0	25735.7	23424.2	20919.2	17123.1	14969.9	13886.4	17953.4
65°	30932.0	31041.1	30942.6	30478.2	28339.2	26052.3	23463.0	18913.9	16313.9	15086.1	19941.2
67.5°	31962.9	32071.9	32114.2	32853.0	31519.6	29327.8	26636.4	21144.4	17886.6	16331.5	21436.4
70°	31938.3	31906.6	32652.5	34742.3	35502.2	33862.7	30914.5	23888.6	19761.8	17365.9	21626.4
72.5°	29070.9	28817.7	30580.3	34721.2	38816.3	38598.2	36139.0	27428.0	21380.2	17492.5	18766.1
75°	21809.3	21133.9	24247.5	31290.9	39368.7	41286.2	39460.2	29623.3	20996.6	15455.5	13059.6
77.5°	9326.8	8647.7	12317.2	23163.9	35234.8	38594.7	36413.4	25844.8	16760.7	10220.4	6413.7
80°	2441.7	2438.2	3722.3	10501.8	23962.6	28500.9	25003.8	16690.4	9576.6	3651.9	1769.7
82.5°	1009.7	985.1	1368.6	4084.6	11708.6	15993.8	13052.6	7444.6	3458.4	988.6	587.5
85°	376.5	372.9	664.9	1410.8	4130.3	6596.6	4774.2	1903.3	861.9	482.0	263.8
87.5°	105.6	102.0	144.2	489.0	1006.2	1526.9	816.2	313.1	242.7	189.9	77.4
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°	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2	7585.2
2.5°	7609.9	7627.4	7659.1	7683.8	7715.4	7750.6	7799.8	7831.5	7863.2	7884.3	7870.3
5°	7641.6	7680.2	7761.2	7842.1	7937.1	8025.0	8127.0	8200.9	8260.8	8278.3	8285.4
7.5°	7711.9	7775.2	7912.5	8049.6	8200.9	8345.1	8492.9	8619.6	8721.6	8760.4	8763.9
10°	7835.0	7919.5	8113.0	8306.5	8507.0	8728.7	8918.6	9101.6	9245.8	9305.7	9309.2
12.5°	7989.9	8095.3	8348.7	8616.0	8894.0	9200.1	9446.4	9671.6	9851.0	9931.9	9931.9
15°	8190.4	8327.6	8651.3	9010.2	9418.2	9843.9	10157.0	10406.8	10607.4	10705.9	10698.8
17.5°	8408.5	8591.4	8999.6	9541.4	10125.4	10684.8	11050.7	11233.6	11441.3	11536.2	11532.7
20°	8619.6	8844.7	9428.8	10216.9	10994.4	11589.0	11884.5	11933.8	11947.8	11958.4	11986.6
22.5°	8837.8	9140.3	9967.1	11068.3	11902.1	12313.7	12356.0	12144.8	11849.3	11712.1	11750.8
25°	9077.0	9478.1	10670.8	12007.7	12683.1	12732.3	12408.8	11895.0	11335.7	11078.8	11117.6
27.5°	9309.2	9868.6	11515.1	12904.7	13246.1	12813.3	12116.7	11388.5	10712.9	10442.1	10473.7
30°	9541.4	10315.4	12447.4	13689.4	13502.8	12612.7	11655.8	10843.1	10164.1	9879.2	9910.8
32.5°	9777.1	10836.1	13520.5	14255.8	13457.1	12187.0	11082.3	10230.9	9632.8	9333.8	9372.5
35°	10044.5	11476.4	14537.3	14565.4	13151.1	11560.9	10326.0	9499.2	8978.5	8739.3	8792.0
37.5°	10392.8	12289.1	15434.3	14642.7	12616.3	10642.6	9386.5	8633.7	8204.4	8095.3	8172.8
40°	10825.5	13267.2	16120.4	14519.6	11824.7	9527.3	8359.3	7757.6	7514.9	7539.5	7623.9
42.5°	11388.5	14361.3	16602.4	14203.0	10723.4	8376.8	7458.6	7191.2	7307.3	7405.8	7497.3
45°	12120.2	15497.7	16901.4	13664.7	9478.1	7402.3	6927.4	6990.7	7078.6	7089.2	7159.5
47.5°	13056.0	16648.2	17098.4	12852.0	8208.0	6716.2	6589.6	6603.7	6586.0	6512.2	6568.5
50°	14224.1	17766.9	17274.4	11775.4	7127.8	6287.0	6118.1	6068.9	5826.1	5586.9	5618.5
52.5°	15554.0	18794.3	17348.2	10438.5	6287.0	5928.2	5653.8	5344.1	4890.3	4816.5	4841.1
55°	17031.6	19744.2	17158.3	8795.5	5579.9	5467.2	5052.1	4679.2	4629.9	4566.7	4577.1
57.5°	18797.8	20767.9	16771.3	6962.5	4855.1	4929.0	4524.5	4566.7	4478.6	4380.1	4362.6
60°	20729.3	21827.0	16092.3	5291.4	4105.7	4257.0	4387.2	4383.7	4359.0	4278.1	4250.0
62.5°	22467.3	22523.6	14755.4	4053.0	3447.8	3736.3	4091.7	4088.1	4067.1	4021.3	4003.8
65°	23501.6	22418.0	12524.8	3191.0	2906.1	3307.2	3690.6	3718.7	3722.3	3718.7	3718.7
67.5°	23318.6	21183.2	9463.9	2540.2	2459.2	2870.8	3293.0	3331.8	3359.8	3366.9	3374.0
70°	21250.0	18470.6	6170.9	2026.5	2061.7	2487.4	2916.6	2955.3	2979.9	3008.1	3022.1
72.5°	16563.7	13580.2	3532.3	1639.5	1713.4	2156.7	2543.6	2589.4	2603.5	2656.3	2677.4
75°	10093.7	7986.3	1906.9	1291.2	1407.3	1843.6	2174.2	2227.0	2251.6	2315.0	2322.0
77.5°	4798.8	3458.4	1087.1	1006.2	1132.8	1505.8	1836.5	1896.4	1829.4	1864.7	1836.5
80°	1621.9	1284.1	686.0	767.0	865.5	1175.1	1470.6	1530.4	1389.7	1382.6	1368.6
82.5°	566.4	520.7	436.2	510.1	559.4	840.8	1111.7	1189.1	1034.3	1030.8	981.5
85°	221.6	211.0	242.7	278.0	334.3	517.2	731.7	770.5	636.8	513.6	506.7
87.5°	45.7	49.3	59.9	63.3	102.0	179.5	263.8	323.7	256.9	218.1	200.5
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)