

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: P971522

Luminaire Tested: **NAV-SB6D-760-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-760-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66139.1 lumens
Efficiency: N/A
Efficacy: 150.3 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



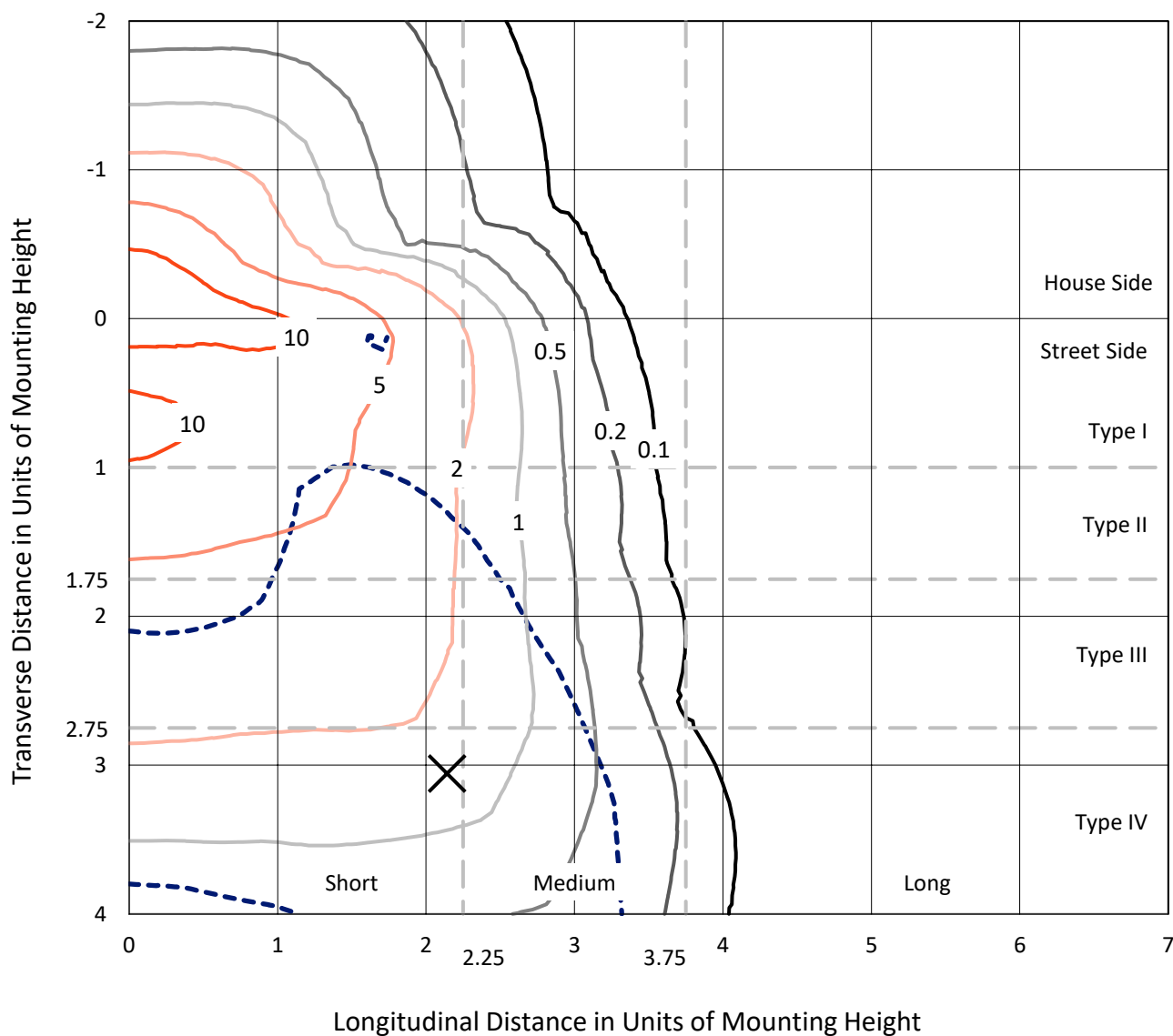
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

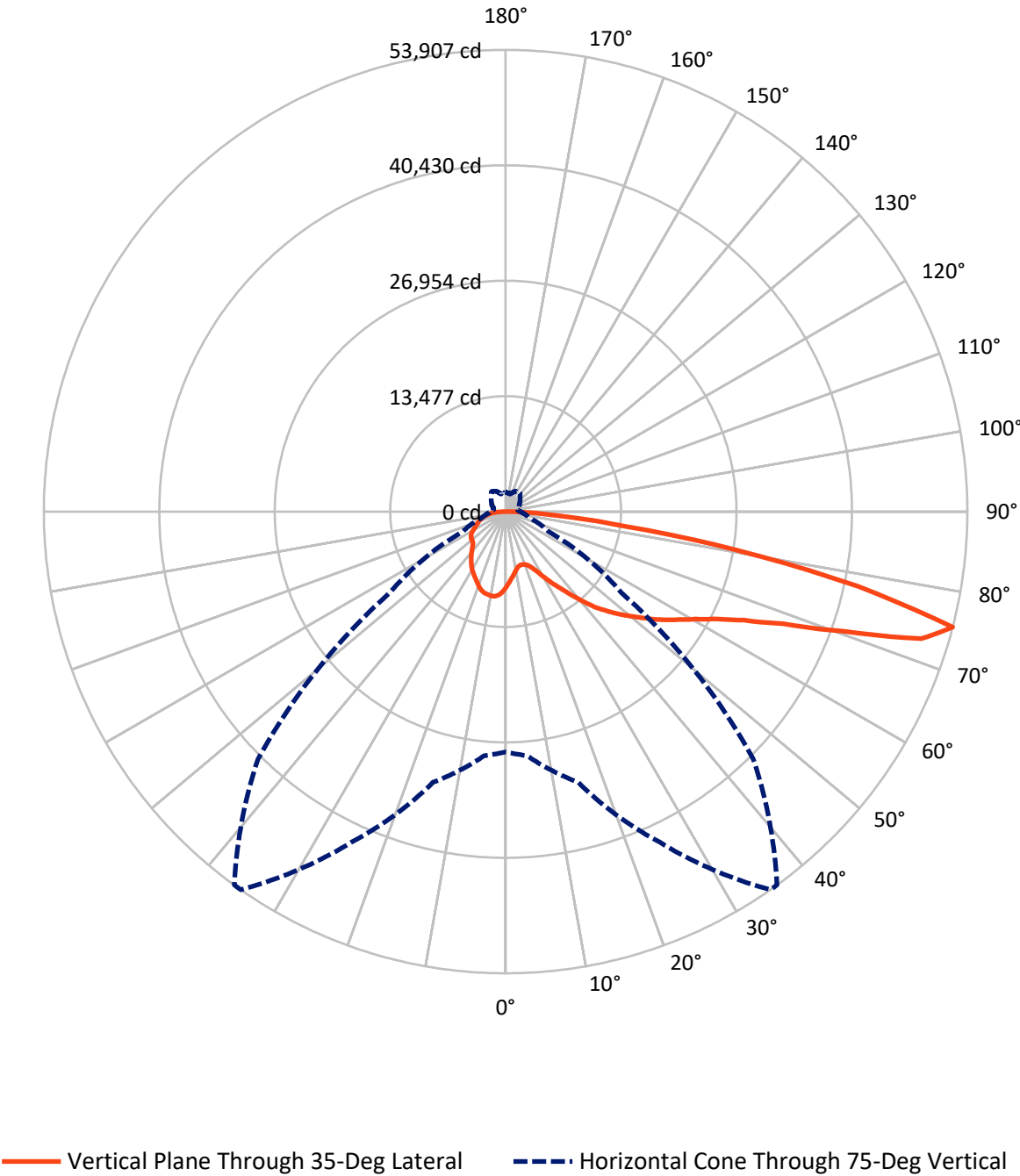


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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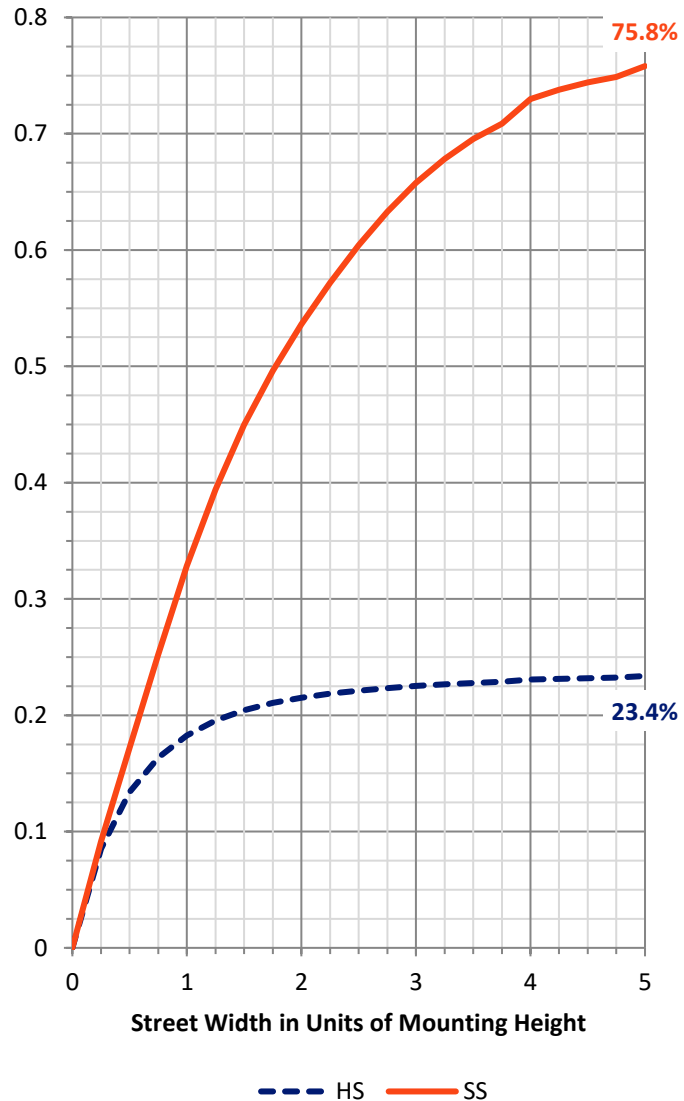
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15739.5	0.0	15739.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	50399.7	0.0	50399.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	66139.1	0.0	66139.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.5	1.3
10°-20°	2407.0	3.6
20°-30°	4041.9	6.1
30°-40°	6281.7	9.5
40°-50°	9323.7	14.1
50°-60°	12871.9	19.5
60°-70°	15616.5	23.6
70°-80°	12905.9	19.5
80°-90°	1856.3	2.8
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°	66139.1	100.0
0°-180°	66139.1	100.0

Coefficient of Utilization



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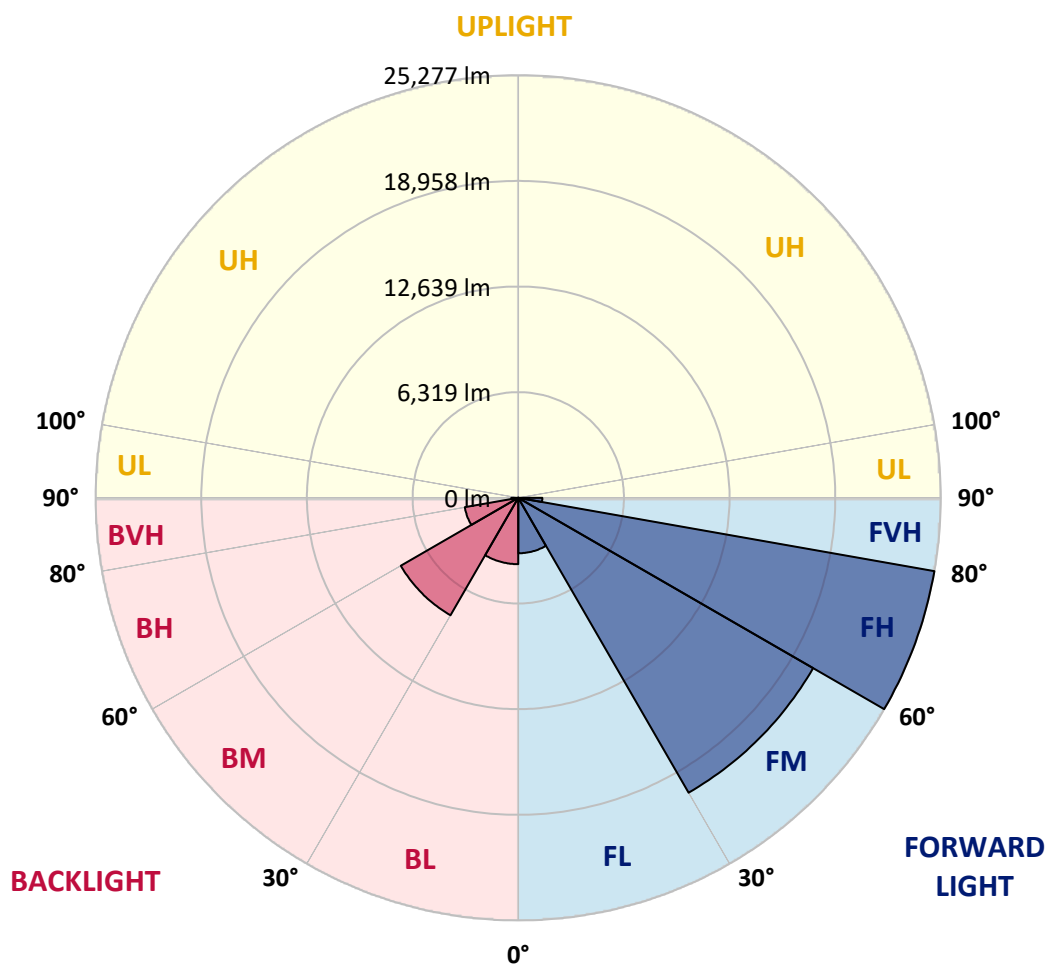
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3316.8	5.0			
FM	(30°-60°)	20367.3	30.8			
FH	(60°-80°)	25277.4	38.2			G5
FVH	(80°-90°)	1438.3	2.2			G5
BL	(0°-30°)	3966.6	6.0	B4/5000		
BM	(30°-60°)	8109.9	12.3	B4/8500		
BH	(60°-80°)	3245.0	4.9	B4/5000		G4/5000
BVH	(80°-90°)	418.0	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5
2.5°	8127.0	8177.0	8198.5	8187.8	8241.4	8234.2	8309.4	8402.3	8531.1	8656.1	8838.5
5°	7501.3	7555.0	7601.4	7644.3	7748.0	7780.2	7898.1	8076.9	8313.0	8552.5	8852.8
7.5°	6918.5	6965.0	7036.5	7115.1	7290.3	7322.5	7519.2	7798.1	8127.0	8477.4	8892.2
10°	6442.9	6489.5	6564.5	6653.9	6872.0	6911.4	7161.7	7533.4	7962.5	8405.9	8935.0
12.5°	6239.2	6253.4	6296.4	6385.7	6575.3	6600.3	6875.6	7301.1	7801.7	8352.2	8999.4
15°	6228.4	6257.0	6260.6	6307.1	6464.4	6475.1	6729.0	7150.9	7701.5	8341.6	9096.0
17.5°	6335.7	6357.2	6325.0	6353.6	6485.9	6503.7	6704.0	7079.4	7669.4	8388.0	9260.5
20°	6621.7	6639.6	6543.1	6503.7	6600.3	6614.6	6811.2	7125.9	7701.5	8484.5	9485.7
22.5°	7229.5	7240.3	7004.3	6843.4	6850.6	6857.8	7029.3	7315.4	7826.7	8659.7	9771.7
25°	8177.0	8169.9	7794.5	7483.4	7304.7	7265.3	7379.7	7622.8	8037.6	8892.2	10140.0
27.5°	9285.5	9231.9	8856.4	8391.6	8001.9	7944.7	7919.7	8023.3	8338.0	9199.7	10590.5
30°	10536.9	10486.8	10082.8	9475.0	8935.0	8842.1	8606.1	8552.5	8784.9	9618.0	11216.2
32.5°	11909.8	11877.7	11394.9	10658.5	9936.1	9828.9	9432.0	9289.1	9471.4	10250.8	12088.6
35°	13061.2	13032.6	12632.1	11874.1	10991.0	10858.6	10454.6	10293.8	10386.7	11062.4	13229.2
37.5°	14101.5	14087.3	13744.0	13147.0	12235.2	12074.3	11620.2	11566.6	11548.7	12131.5	14612.9
40°	15067.0	15031.2	14673.7	14359.0	13683.2	13536.7	13136.2	13089.8	12953.8	13447.3	16178.9
42.5°	16136.1	16043.1	15524.6	15378.0	15195.6	15074.1	14834.5	14841.7	14541.4	14931.1	17838.0
45°	17008.4	16954.8	16422.0	16336.2	16532.8	16482.8	16690.2	16743.9	16161.1	16486.4	19561.3
47.5°	17945.2	17895.2	17444.7	17383.9	17916.6	17930.9	18663.8	18681.8	17741.4	18102.5	21288.2
50°	19100.1	19028.5	18581.6	18656.7	19253.8	19307.4	20648.2	20526.6	19196.6	19743.7	23000.9
52.5°	19861.6	19904.6	19808.0	19929.6	20744.8	20794.8	22600.4	22289.3	20637.6	21363.4	24681.4
55°	20423.0	20508.8	20809.1	21088.0	22317.9	22368.1	24441.7	23966.2	21831.7	22865.0	26261.7
57.5°	21145.2	21023.7	21585.0	22128.5	23812.5	23944.8	26233.1	25582.4	22890.0	24159.4	27345.1
60°	22182.1	22096.3	22532.5	23337.0	25485.8	25696.7	28128.0	27037.6	23665.9	25185.5	27556.0
62.5°	24284.5	24070.0	24137.8	24849.4	27595.4	27874.3	30266.2	28306.8	24052.0	25585.9	26426.1
65°	27427.3	27059.0	26715.8	27209.2	30566.5	30841.8	32679.7	29304.4	23909.0	24810.0	23426.4
67.5°	31385.3	31020.6	30598.7	31063.5	34942.9	35161.0	35658.0	29865.7	22782.8	21821.0	18123.9
70°	34649.7	34513.8	35018.0	36930.9	41932.9	41940.0	39476.5	29400.9	19697.1	15470.9	10486.8
72.5°	34217.1	34134.9	36791.4	42705.2	50742.8	50553.3	43091.3	25882.7	13268.5	6979.3	3929.4
75°	28070.9	28603.6	32718.9	42601.5	53907.1	53882.1	40878.1	16454.2	5488.4	2892.5	2030.8
77.5°	15052.6	15896.4	21241.8	31453.3	42083.1	42716.0	28739.5	5756.5	2356.3	1852.1	1405.2
80°	4909.1	5645.6	8466.7	16014.5	27345.1	27227.1	12317.4	2259.7	1612.5	1312.2	972.5
82.5°	2084.4	2170.3	3782.9	7562.0	14033.7	13815.6	3922.3	1297.9	1133.4	897.4	600.6
85°	815.2	911.7	1669.7	3496.8	6078.2	5946.0	1415.8	643.6	725.8	586.4	357.5
87.5°	268.1	325.3	597.1	1197.8	1891.4	1823.5	346.9	221.7	314.7	268.1	128.7
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°	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5	8813.5
2.5°	8888.6	8945.8	9013.7	9113.8	9199.7	9271.1	9346.3	9392.7	9410.6	9464.2	9460.6
5°	8953.0	9078.1	9246.1	9410.6	9571.4	9668.0	9753.8	9796.7	9836.1	9864.7	9871.8
7.5°	9060.2	9221.1	9485.7	9700.2	9836.1	9914.7	9971.9	9957.7	9971.9	9979.1	9989.9
10°	9153.1	9378.4	9693.0	9896.9	10000.5	10004.1	9989.9	9939.7	9914.7	9918.3	9925.5
12.5°	9263.9	9514.3	9853.9	10025.5	10054.1	9975.5	9914.7	9828.9	9796.7	9782.4	9775.3
15°	9414.2	9700.2	10029.1	10093.5	10022.0	9921.9	9818.2	9678.8	9607.2	9550.0	9567.9
17.5°	9596.6	9911.1	10165.0	10118.5	9964.7	9800.3	9632.2	9421.3	9274.7	9213.9	9217.5
20°	9850.4	10132.8	10268.7	10064.9	9832.5	9582.2	9296.1	9038.8	8902.8	8842.1	8835.0
22.5°	10157.9	10429.6	10368.8	9971.9	9643.0	9242.5	8885.0	8695.5	8627.5	8584.7	8591.9
25°	10526.1	10758.5	10440.3	9836.1	9331.9	8792.0	8516.7	8455.9	8423.8	8391.6	8391.6
27.5°	11005.2	11130.4	10493.9	9635.8	8845.6	8313.0	8212.8	8223.6	8212.8	8159.2	8169.9
30°	11638.1	11613.0	10544.0	9310.5	8287.9	7880.3	7887.5	7933.9	7941.1	7905.3	7923.2
32.5°	12471.2	12217.3	10569.1	8888.6	7755.2	7501.3	7508.4	7558.6	7594.2	7533.4	7562.0
35°	13479.5	12921.7	10529.7	8359.4	7344.0	7140.2	7086.5	7100.9	7111.6	7054.4	7093.7
37.5°	14655.8	13711.8	10354.6	7773.0	7004.3	6786.2	6671.8	6575.3	6518.1	6464.4	6500.1
40°	15946.5	14573.6	10032.7	7200.9	6625.3	6410.8	6239.2	6056.8	5863.7	5792.3	5824.5
42.5°	17298.0	15460.3	9643.0	6653.9	6189.2	6013.9	5831.5	5567.0	5277.4	5130.7	5148.7
45°	18699.6	16368.4	9260.5	6114.0	5742.2	5667.1	5456.2	5137.9	4823.2	4637.4	4623.1
47.5°	20072.6	17226.6	8699.1	5570.6	5323.8	5406.1	5241.6	4948.4	4598.0	4304.8	4272.7
50°	21384.8	18031.0	7780.2	5019.9	4984.2	5327.4	5170.1	4748.2	4347.7	3972.3	3940.1
52.5°	22686.2	18681.8	6603.9	4519.3	4801.8	5306.0	5077.1	4612.3	4122.4	3729.2	3686.3
55°	23791.1	19017.8	5470.4	4090.4	4537.3	5123.7	4966.3	4451.5	3804.3	3386.0	3350.2
57.5°	24420.3	18746.1	4526.5	3668.4	4172.6	4823.2	4776.8	4108.2	3425.2	3103.5	3060.5
60°	24148.6	17644.9	3754.3	3300.2	3825.7	4497.9	4447.9	3768.5	3135.7	2831.8	2788.8
62.5°	22650.4	15546.1	3142.9	2978.3	3511.1	4165.4	4119.0	3507.6	2914.0	2620.8	2574.3
65°	19632.8	12646.3	2667.3	2710.2	3192.9	3764.9	3832.9	3289.4	2738.8	2452.7	2406.3
67.5°	14974.0	9160.3	2295.5	2477.8	2881.8	3371.6	3568.3	3132.1	2592.2	2320.5	2277.5
70°	8534.6	5202.3	1980.8	2252.5	2606.5	3006.9	3364.5	3006.9	2434.9	2209.6	2181.0
72.5°	3235.8	2388.4	1712.7	2027.2	2341.9	2699.4	3139.3	2810.3	2252.5	2084.4	2055.8
75°	1726.9	1455.2	1440.9	1762.7	2038.0	2399.1	2856.8	2617.2	2116.6	2202.5	2274.0
77.5°	1176.3	1029.7	1204.9	1508.8	1705.5	2066.6	2556.5	2324.1	1834.2	1827.1	1684.1
80°	815.2	729.4	979.7	1215.6	1319.4	1737.7	2231.1	1995.1	1494.6	1394.4	1333.6
82.5°	489.8	475.5	733.0	908.2	933.2	1340.8	1848.5	1673.3	1222.8	1065.5	1072.7
85°	268.1	282.5	468.4	532.7	543.5	936.7	1448.0	1294.3	940.3	790.2	797.3
87.5°	75.1	96.6	171.6	210.9	261.0	486.3	861.7	768.7	471.9	328.9	328.9
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)