

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: P971517

Luminaire Tested: **NAV-SB6D-760-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-760-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52482 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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



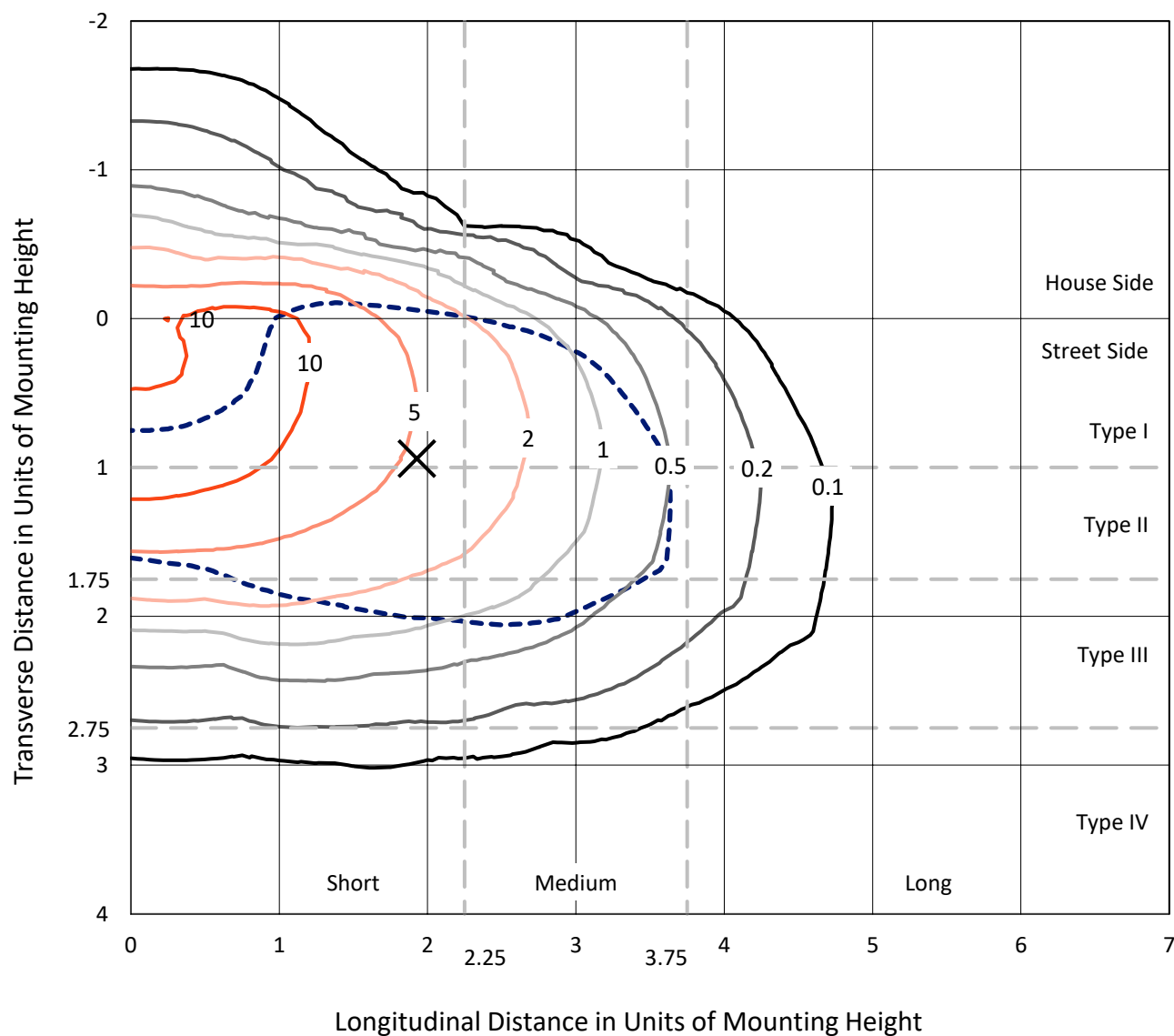
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



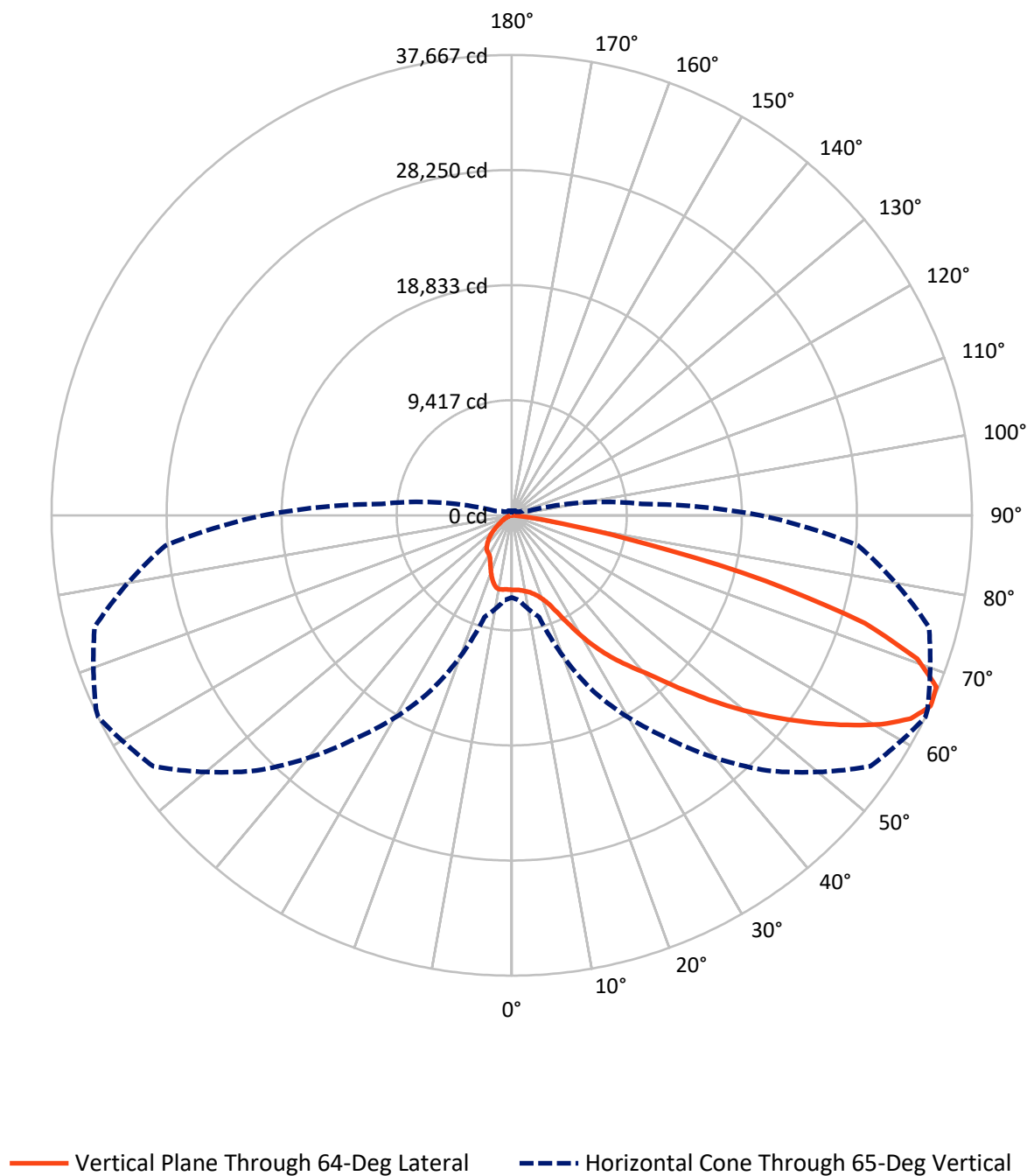
Based on 25 foot mounting height. Maximum calculated value = 15.4 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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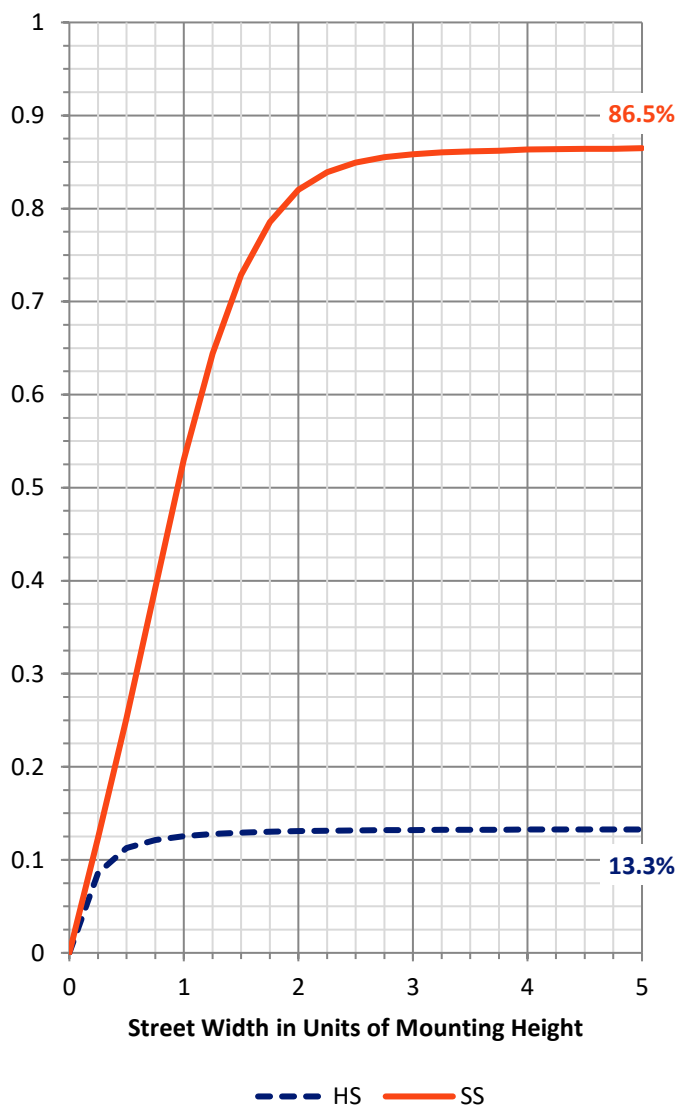
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7018.4	0.0	7018.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	45463.6	0.0	45463.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	52482.0	0.0	52482.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.2	1.1
10°-20°	1527.5	2.9
20°-30°	2894.5	5.5
30°-40°	5857.0	11.2
40°-50°	9977.5	19.0
50°-60°	13568.6	25.9
60°-70°	12741.6	24.3
70°-80°	5104.8	9.7
80°-90°	247.3	0.5
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°	52482.0	100.0
0°-180°	52482.0	100.0

Coefficient of Utilization



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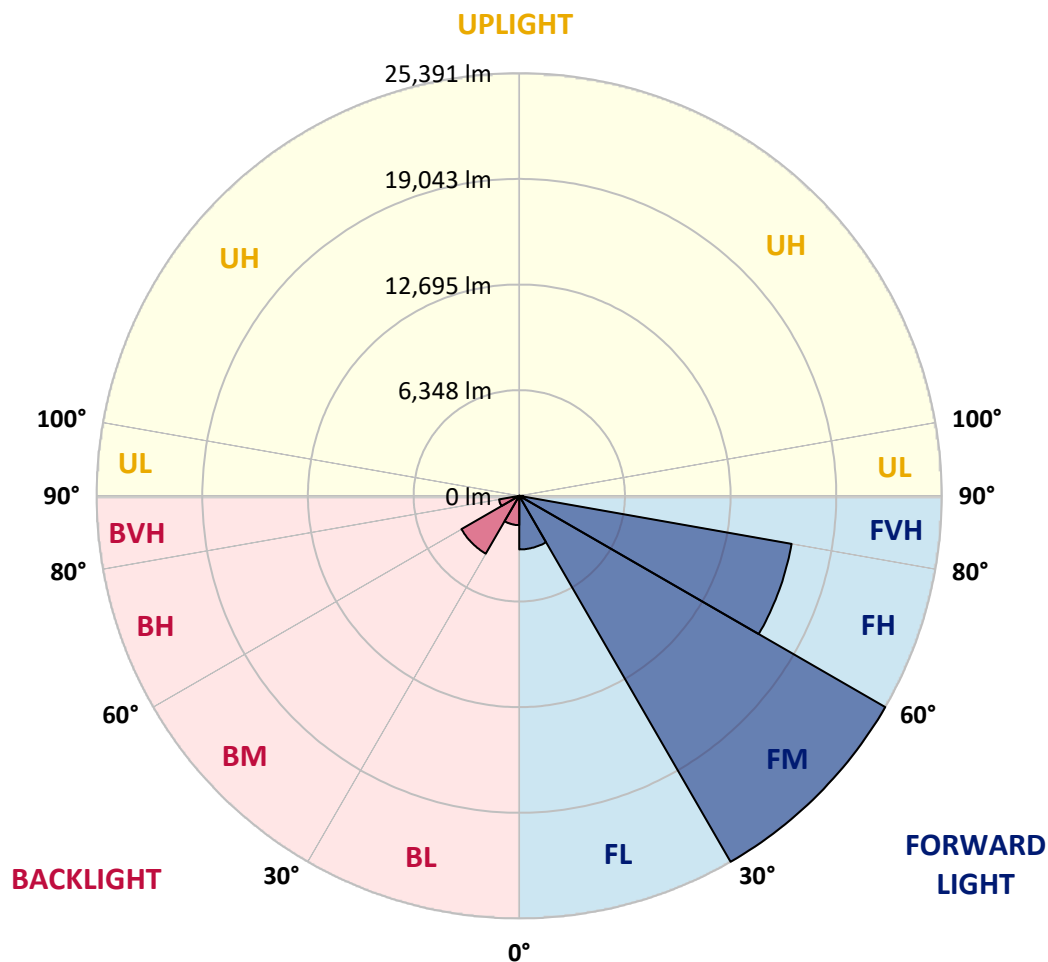
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3223.0	6.1			
FM	(30°-60°)	25390.8	48.4			
FH	(60°-80°)	16614.6	31.7			G5
FVH	(80°-90°)	235.2	0.4			G3/500
BL	(0°-30°)	1762.1	3.4	B3/2500		
BM	(30°-60°)	4012.4	7.6	B3/5000		
BH	(60°-80°)	1231.8	2.3	B3/2500		G3/2500
BVH	(80°-90°)	12.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2
2.5°	6083.1	6125.3	6114.7	6104.2	6100.7	6107.8	6111.3	6107.8	6107.8	6107.8	6111.3
5°	5967.0	6002.2	6002.2	6026.8	6062.0	6104.2	6135.9	6142.9	6149.9	6160.5	6157.0
7.5°	5745.3	5773.5	5794.6	5875.5	5963.4	6076.1	6171.0	6220.3	6227.4	6266.0	6280.1
10°	5594.0	5629.2	5664.5	5748.8	5875.5	6044.4	6206.3	6325.9	6343.4	6435.0	6477.2
12.5°	5587.1	5622.2	5667.9	5759.4	5907.2	6086.7	6283.7	6456.1	6487.7	6621.4	6709.3
15°	5660.9	5703.1	5745.3	5858.0	6016.2	6234.4	6445.5	6660.1	6691.7	6881.7	6976.8
17.5°	5812.2	5868.4	5900.1	6012.8	6181.6	6424.4	6702.3	6948.6	6976.8	7198.4	7318.0
20°	6111.3	6178.1	6188.6	6280.1	6445.5	6705.9	7036.5	7342.7	7377.8	7631.1	7764.8
22.5°	6730.5	6825.5	6741.0	6786.7	6934.5	7194.9	7553.7	7940.8	7990.0	8278.5	8398.1
25°	7821.2	7954.8	7736.7	7659.3	7722.7	7993.6	8443.8	8932.9	8989.1	9221.4	9281.2
27.5°	9963.7	9791.3	9460.6	9137.0	8947.0	9101.8	9608.5	10213.5	10283.9	10509.1	10438.7
30°	12317.5	12166.2	11719.3	11001.6	10551.3	10526.6	10994.6	11670.1	11751.0	11965.6	11751.0
32.5°	14674.7	14530.5	14045.0	13161.8	12380.8	11993.8	12317.5	13066.9	13109.1	13246.3	12929.7
35°	16993.3	16845.5	16360.0	15455.8	14495.2	13615.7	13552.3	14396.7	14410.9	14555.1	14083.7
37.5°	19325.9	19202.8	18685.5	17798.9	16852.5	15638.7	15051.2	15656.4	15673.9	15814.6	15325.6
40°	20990.1	21042.8	20687.5	20001.4	19188.7	17862.3	16732.9	16996.8	16891.3	17126.9	16834.9
42.5°	22418.5	22524.0	22214.4	21869.6	21398.1	20230.1	18815.7	18770.0	18601.1	18727.8	18425.2
45°	23653.4	23741.4	23463.4	23382.5	23371.9	22552.2	21092.0	20817.6	20581.9	20557.3	20194.9
47.5°	24107.2	24276.1	24395.7	24666.6	25194.4	24849.6	23445.7	23020.1	22756.2	22562.7	21989.2
50°	24279.6	24459.1	24867.2	25655.2	26904.2	27052.0	25789.0	25310.4	24986.8	24635.0	23790.6
52.5°	24047.4	24367.5	24916.4	26242.8	28054.8	28818.2	28037.1	27618.4	27249.0	26675.5	25423.1
55°	22678.8	22998.9	24121.3	26235.8	28628.2	30056.6	30162.2	29975.7	29560.6	28656.3	26742.5
57.5°	19793.8	20268.8	22045.5	25342.1	28617.7	31122.7	32245.0	32378.7	31914.3	30619.5	27780.3
60°	15797.1	16440.9	18608.2	23361.4	27734.6	31699.7	34071.0	34739.4	34246.9	32554.6	28621.2
62.5°	11022.7	11768.6	13819.8	20258.2	25715.1	31284.5	35404.4	36639.3	36266.3	34285.6	28944.9
65°	6723.4	6962.6	8616.3	15941.3	22281.2	29546.4	35816.1	37666.7	37543.5	35344.6	28466.4
67.5°	4478.7	4679.3	5154.3	10931.3	17295.8	26073.9	34830.9	37487.2	37522.4	35172.2	26714.3
70°	2698.5	2870.9	3180.5	6357.6	11209.2	20638.2	31780.5	35200.3	35404.4	32867.8	23393.1
72.5°	1111.8	1227.8	1509.3	2881.5	5805.2	13098.6	25306.9	30222.0	30696.9	27636.0	17953.8
75°	629.8	689.6	886.6	1446.0	2519.0	6104.2	15329.1	21454.5	22154.6	19048.0	10801.1
77.5°	418.7	446.8	573.5	935.8	1417.9	2082.8	6551.0	11177.5	12514.5	10403.5	4675.7
80°	281.5	306.1	394.0	626.3	921.8	893.6	2086.4	4141.0	5094.5	3574.6	1139.9
82.5°	190.0	193.5	281.5	411.6	584.0	432.8	615.7	1287.7	1618.4	1034.3	432.8
85°	109.1	105.6	207.6	239.2	260.3	179.5	186.4	387.0	506.7	436.2	246.3
87.5°	14.0	21.1	80.9	63.3	35.2	38.7	38.7	66.8	98.5	105.6	52.8
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°	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2	6104.2
2.5°	6111.3	6107.8	6097.2	6086.7	6062.0	6047.9	6055.0	6047.9	6044.4	6047.9	6062.0
5°	6157.0	6146.4	6118.3	6083.1	6033.9	5974.0	5935.4	5879.0	5826.3	5794.6	5801.6
7.5°	6280.1	6269.6	6230.9	6132.4	5974.0	5724.2	5495.5	5295.0	5143.8	5055.8	5059.3
10°	6477.2	6459.5	6399.8	6181.6	5766.4	5221.1	4767.3	4390.8	4144.5	4028.5	4017.9
12.5°	6709.3	6688.2	6582.7	6135.9	5372.4	4521.0	3894.7	3476.1	3247.4	3145.3	3134.8
15°	6983.7	6955.6	6748.1	5917.7	4798.9	3747.0	3173.5	2860.4	2712.6	2621.1	2624.6
17.5°	7325.1	7275.8	6871.2	5590.6	4176.2	3155.9	2730.2	2494.4	2364.3	2276.3	2269.2
20°	7768.4	7687.4	6969.7	5200.0	3602.7	2783.0	2431.1	2234.1	2135.6	2058.2	2044.2
22.5°	8387.6	8271.4	7089.3	4777.8	3198.1	2526.1	2209.5	2065.3	1984.3	1896.4	1882.3
25°	9154.6	9017.3	7237.1	4387.3	2920.1	2304.5	2047.6	1928.0	1833.0	1731.0	1720.5
27.5°	10227.7	9981.3	7413.0	4067.1	2680.9	2114.5	1899.8	1766.2	1657.1	1572.7	1555.0
30°	11423.8	11019.3	7567.8	3873.6	2462.8	1938.6	1706.3	1572.7	1470.7	1410.8	1400.3
32.5°	12556.8	12007.9	7669.9	3789.2	2265.8	1738.0	1495.3	1351.1	1273.7	1256.0	1266.6
35°	13626.2	12901.5	7659.3	3708.2	2089.9	1537.5	1287.7	1139.9	1080.1	1090.7	1090.7
37.5°	14857.7	13854.9	7585.4	3581.6	1945.7	1354.5	1108.2	978.1	925.3	928.9	942.9
40°	16289.6	14956.2	7539.7	3342.3	1787.3	1185.6	960.5	855.0	816.2	802.2	798.7
42.5°	17816.6	16022.2	7546.7	3071.4	1590.3	1034.3	858.4	770.5	735.3	724.8	721.3
45°	19350.5	17039.0	7557.2	2789.9	1382.7	918.3	784.5	710.7	689.6	675.5	675.5
47.5°	20793.0	17904.5	7360.2	2487.5	1178.6	830.4	724.8	675.5	657.9	640.3	640.3
50°	22137.0	18481.5	6885.2	2135.6	1016.8	759.9	679.1	643.8	626.3	608.6	608.6
52.5°	23181.9	18573.0	6100.7	1773.2	904.2	707.1	650.9	619.2	598.1	580.6	577.0
55°	23646.3	17999.5	4985.4	1435.4	816.2	661.4	622.7	591.1	566.4	548.9	545.3
57.5°	23526.7	16792.7	3887.7	1153.9	731.8	615.7	587.5	566.4	538.3	510.1	506.7
60°	22939.2	15177.8	2930.7	960.5	654.4	566.4	548.9	531.3	492.5	450.4	443.3
62.5°	21922.4	13147.8	2089.9	795.1	570.0	510.1	503.1	489.0	432.8	355.4	348.3
65°	20367.3	10681.5	1407.3	661.4	489.0	446.8	450.4	425.7	351.8	263.8	256.9
67.5°	18094.5	7810.6	900.7	541.8	408.2	372.9	376.5	362.3	299.1	225.2	214.6
70°	15198.9	5171.8	587.5	411.6	327.2	288.5	309.7	313.1	253.3	183.0	175.9
72.5°	11142.4	3053.9	411.6	306.1	239.2	200.6	253.3	260.3	204.1	137.2	130.2
75°	6350.5	1449.6	309.7	221.6	147.8	140.7	197.0	197.0	140.7	91.4	84.5
77.5°	2666.8	605.2	218.1	144.2	84.5	80.9	133.7	123.1	70.3	42.2	42.2
80°	770.5	270.9	116.1	70.3	35.2	31.7	52.8	38.7	17.6	7.1	7.1
82.5°	302.6	119.6	45.7	28.2	14.0	14.0	7.1	0.0	0.0	0.0	0.0
85°	179.5	49.3	21.1	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.7	10.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)