

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: P971579

Luminaire Tested: **NAV-SB6D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971579
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-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 44573.2 lumens
Efficiency: N/A
Efficacy: 101.3 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



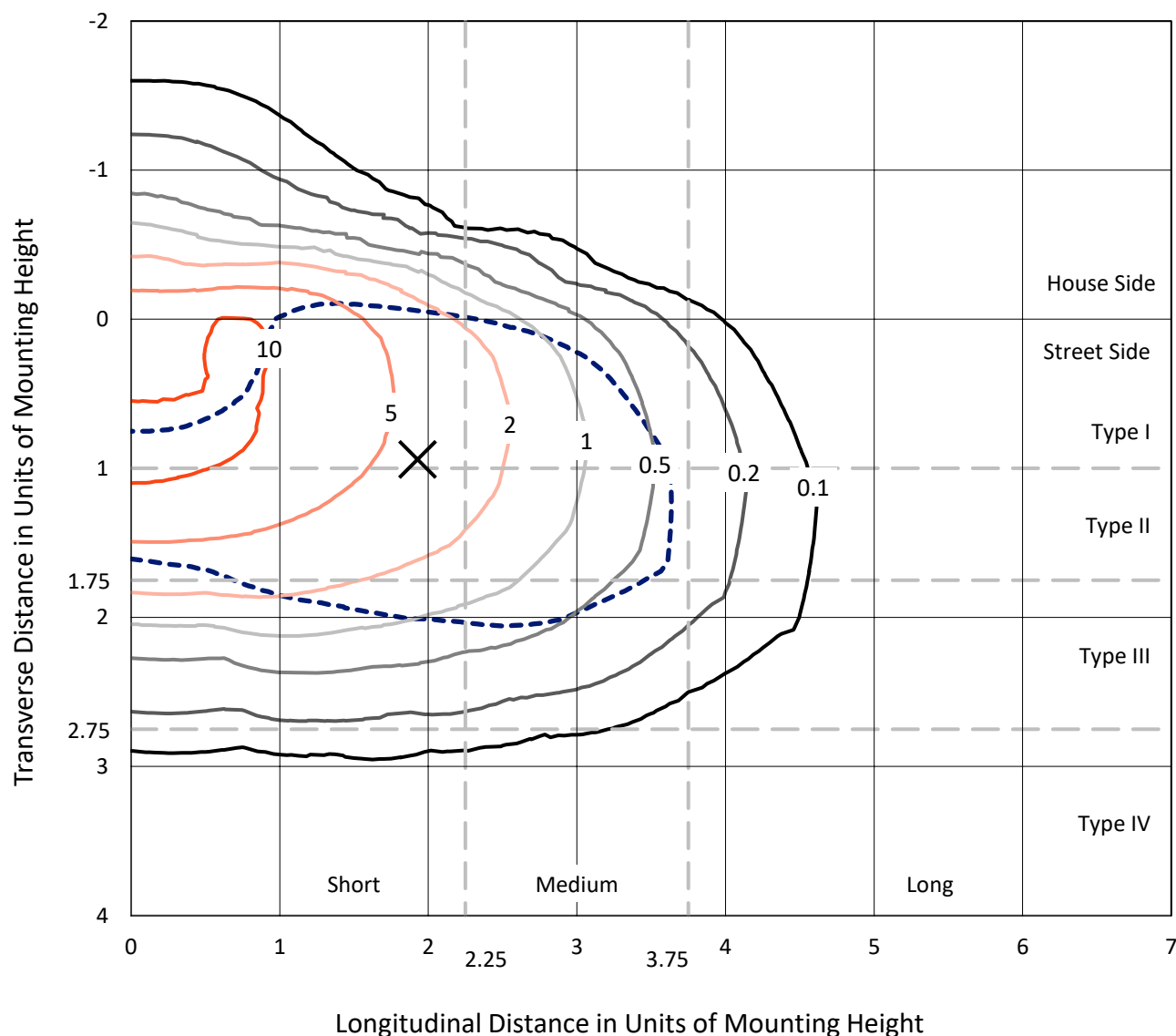
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



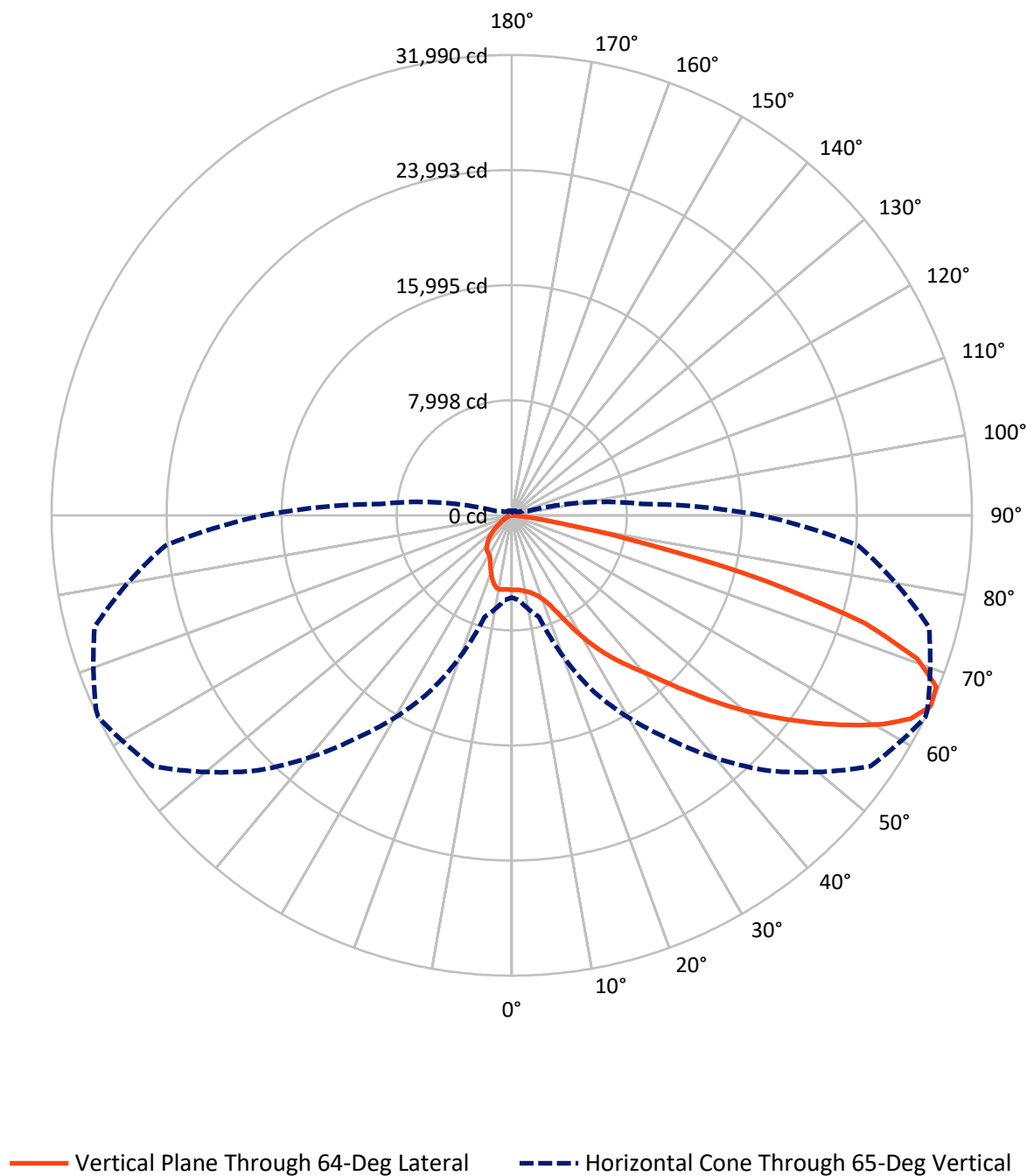
Based on 25 foot mounting height. Maximum calculated value = 13 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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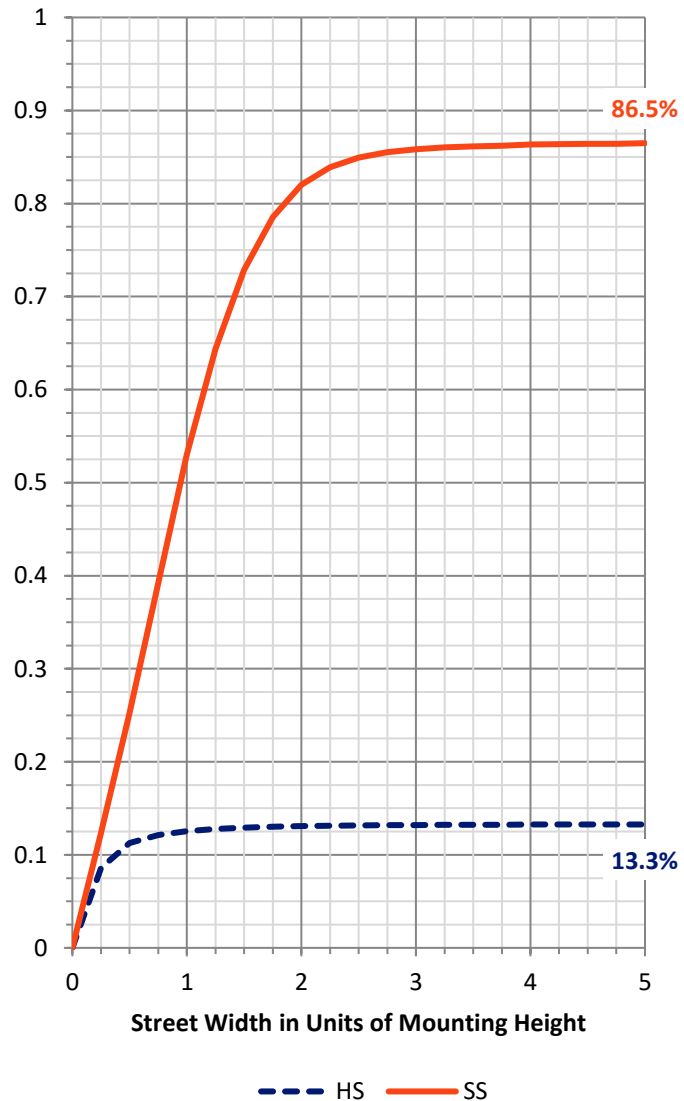
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5960.8	0.0	5960.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38612.4	0.0	38612.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	44573.2	0.0	44573.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	1.1
10°-20°	1297.3	2.9
20°-30°	2458.3	5.5
30°-40°	4974.4	11.2
40°-50°	8473.9	19.0
50°-60°	11523.9	25.9
60°-70°	10821.5	24.3
70°-80°	4335.6	9.7
80°-90°	210.0	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°	44573.2	100.0
0°-180°	44573.2	100.0

Coefficient of Utilization



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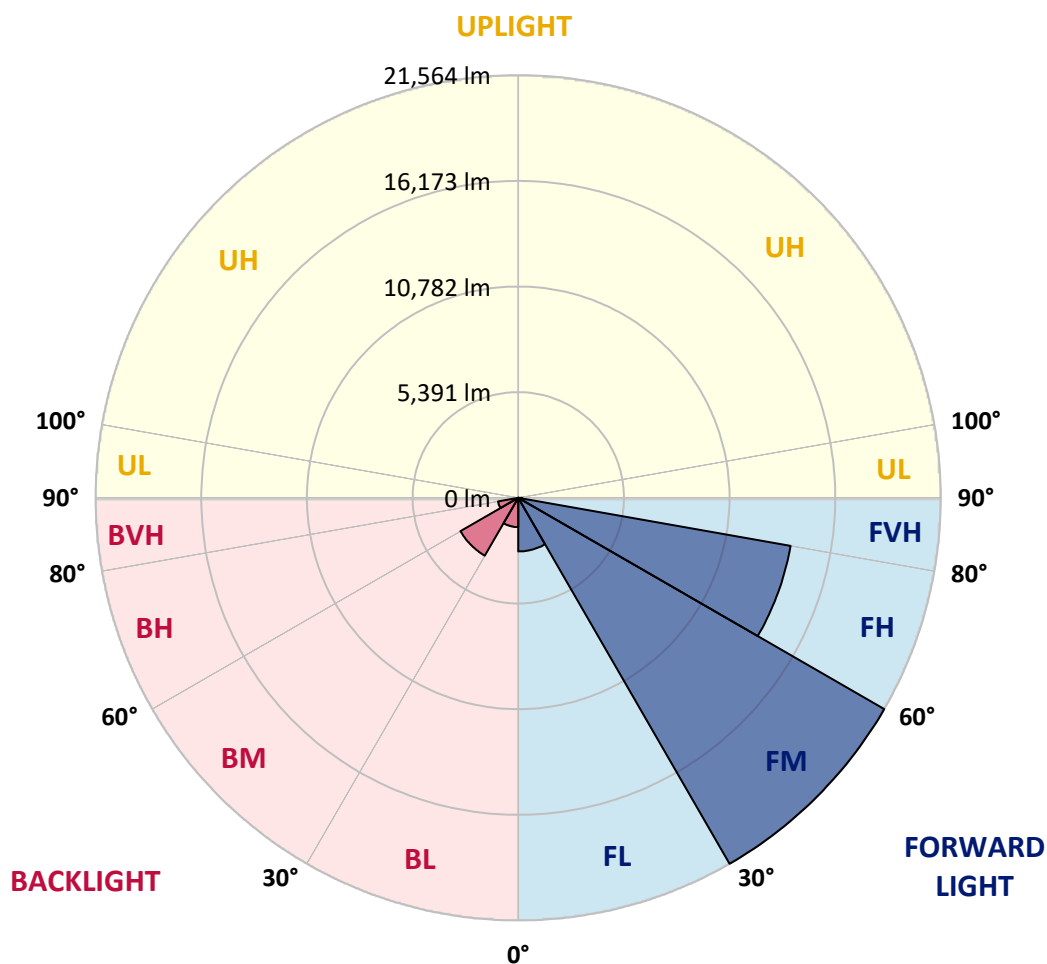
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2737.3	6.1			
FM	(30°-60°)	21564.4	48.4			
FH	(60°-80°)	14110.8	31.7			G5
FVH	(80°-90°)	199.8	0.4			G2/225
BL	(0°-30°)	1496.6	3.4	B3/2500		
BM	(30°-60°)	3407.7	7.6	B3/5000		
BH	(60°-80°)	1046.2	2.3	B3/2500		G3/2500
BVH	(80°-90°)	10.3	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°	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3
2.5°	5166.4	5202.3	5193.3	5184.3	5181.4	5187.3	5190.3	5187.3	5187.3	5187.3	5190.3
5°	5067.8	5097.6	5097.6	5118.5	5148.5	5184.3	5211.2	5217.1	5223.2	5232.1	5229.1
7.5°	4879.5	4903.4	4921.3	4990.1	5064.8	5160.5	5241.1	5283.0	5288.9	5321.8	5333.7
10°	4751.1	4780.9	4810.8	4882.5	4990.1	5133.5	5271.0	5372.5	5387.5	5465.2	5501.1
12.5°	4745.0	4775.0	4813.8	4891.5	5017.0	5169.4	5336.7	5483.1	5510.0	5623.6	5698.3
15°	4807.9	4843.6	4879.5	4975.1	5109.6	5294.8	5474.1	5656.5	5683.3	5844.7	5925.3
17.5°	4936.3	4984.2	5011.0	5106.7	5250.0	5456.3	5692.3	5901.4	5925.3	6113.6	6215.2
20°	5190.3	5247.1	5256.0	5333.7	5474.1	5695.3	5976.2	6236.1	6266.0	6481.2	6594.6
22.5°	5716.2	5796.9	5725.1	5764.0	5889.5	6110.6	6415.4	6744.1	6785.9	7031.0	7132.6
25°	6642.5	6756.1	6570.8	6505.1	6558.9	6788.9	7171.4	7586.7	7634.5	7831.7	7882.6
27.5°	8462.2	8315.8	8035.0	7760.1	7598.7	7730.1	8160.4	8674.4	8734.1	8925.4	8865.6
30°	10461.3	10332.8	9953.3	9343.7	8961.3	8940.4	9337.8	9911.4	9980.2	10162.5	9980.2
32.5°	12463.3	12340.8	11928.4	11178.4	10515.1	10186.3	10461.3	11097.8	11133.6	11250.1	10981.2
35°	14432.4	14307.0	13894.6	13126.7	12310.9	11563.8	11510.1	12227.2	12239.2	12361.7	11961.2
37.5°	16413.5	16309.0	15869.7	15116.7	14312.9	13282.1	12783.0	13296.9	13311.9	13431.4	13016.1
40°	17826.9	17871.7	17569.9	16987.2	16297.0	15170.5	14211.3	14435.4	14345.8	14546.0	14297.9
42.5°	19040.1	19129.7	18866.8	18573.9	18173.6	17181.5	15980.3	15941.4	15798.0	15905.5	15648.6
45°	20088.9	20163.6	19927.5	19858.8	19849.8	19153.6	17913.5	17680.4	17480.2	17459.3	17151.6
47.5°	20474.4	20617.8	20719.4	20949.5	21397.7	21104.9	19912.6	19551.1	19326.9	19162.6	18675.5
50°	20620.7	20773.2	21119.7	21789.0	22849.8	22975.4	21902.6	21496.3	21221.4	20922.5	20205.4
52.5°	20423.5	20695.5	21161.6	22288.1	23826.9	24475.4	23812.0	23456.4	23142.7	22655.7	21591.8
55°	19261.2	19533.1	20486.3	22282.2	24314.0	25527.2	25616.8	25458.4	25105.8	24337.9	22712.4
57.5°	16810.9	17214.4	18723.3	21523.2	24305.0	26432.6	27385.7	27499.3	27104.9	26005.3	23593.9
60°	13416.5	13963.3	15804.0	19840.8	23555.0	26922.6	28936.6	29504.3	29086.0	27648.8	24308.1
62.5°	9361.6	9995.1	11737.2	17205.3	21839.9	26570.0	30069.1	31117.9	30801.1	29118.8	24583.0
65°	5710.2	5913.4	7317.8	13539.0	18923.6	25093.9	30418.6	31990.4	31885.8	30018.3	24176.6
67.5°	3803.9	3974.1	4377.6	9283.9	14689.4	22144.7	29582.0	31838.0	31867.9	29871.9	22688.5
70°	2291.9	2438.3	2701.2	5399.5	9520.0	17528.1	26991.3	29895.8	30069.1	27914.6	19867.8
72.5°	944.2	1042.8	1281.9	2447.2	4930.4	11124.6	21493.2	25667.6	26071.0	23471.4	15248.2
75°	534.8	585.7	753.0	1228.1	2139.5	5184.3	13019.0	18221.3	18815.9	16177.5	9173.4
77.5°	355.6	379.5	487.1	794.8	1204.2	1768.9	5563.8	9493.1	10628.6	8835.7	3971.2
80°	239.0	259.9	334.7	531.9	782.9	759.0	1771.9	3517.0	4326.7	3035.8	968.1
82.5°	161.3	164.3	239.0	349.6	496.0	367.6	523.0	1093.7	1374.5	878.5	367.6
85°	92.7	89.7	176.3	203.2	221.1	152.4	158.4	328.7	430.3	370.5	209.2
87.5°	12.0	17.9	68.7	53.8	29.9	32.9	32.9	56.8	83.6	89.7	44.8
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°	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3	5184.3
2.5°	5190.3	5187.3	5178.3	5169.4	5148.5	5136.5	5142.5	5136.5	5133.5	5136.5	5148.5
5°	5229.1	5220.2	5196.2	5166.4	5124.6	5073.8	5040.8	4993.1	4948.3	4921.3	4927.4
7.5°	5333.7	5324.8	5291.9	5208.2	5073.8	4861.6	4667.3	4497.1	4368.5	4293.8	4296.9
10°	5501.1	5486.1	5435.4	5250.0	4897.4	4434.4	4048.9	3729.2	3520.0	3421.3	3412.4
12.5°	5698.3	5680.3	5590.7	5211.2	4562.8	3839.6	3307.8	2952.2	2758.0	2671.4	2662.3
15°	5931.4	5907.5	5731.2	5026.0	4075.7	3182.3	2695.2	2429.4	2303.8	2226.1	2229.1
17.5°	6221.1	6179.3	5835.7	4748.1	3546.8	2680.3	2318.8	2118.6	2008.0	1933.3	1927.3
20°	6597.7	6528.9	5919.4	4416.4	3059.8	2363.5	2064.8	1897.5	1813.7	1748.0	1736.0
22.5°	7123.5	7024.9	6021.0	4057.8	2716.1	2145.4	1876.5	1754.0	1685.3	1610.6	1598.6
25°	7775.0	7658.5	6146.5	3726.2	2480.1	1957.2	1739.0	1637.4	1556.8	1470.2	1461.1
27.5°	8686.4	8477.2	6295.9	3454.2	2276.9	1795.8	1613.6	1500.0	1407.4	1335.7	1320.7
30°	9702.3	9358.7	6427.4	3289.8	2091.6	1646.5	1449.2	1335.7	1249.1	1198.2	1189.2
32.5°	10664.5	10198.3	6514.0	3218.2	1924.3	1476.1	1270.0	1147.4	1081.7	1066.7	1075.7
35°	11572.9	10957.2	6505.1	3149.4	1774.9	1305.7	1093.7	968.1	917.4	926.3	926.3
37.5°	12618.7	11767.1	6442.3	3041.9	1652.4	1150.5	941.3	830.7	785.9	788.8	800.8
40°	13834.8	12702.3	6403.5	2838.6	1517.9	1007.0	815.7	726.1	693.2	681.3	678.3
42.5°	15131.7	13607.7	6409.4	2608.6	1350.6	878.5	729.1	654.4	624.5	615.5	612.5
45°	16434.4	14471.3	6418.4	2369.6	1174.3	779.9	666.4	603.6	585.7	573.7	573.7
47.5°	17659.5	15206.4	6251.1	2112.5	1001.0	705.2	615.5	573.7	558.7	543.9	543.9
50°	18801.0	15696.3	5847.6	1813.7	863.6	645.4	576.7	546.8	531.9	516.9	516.9
52.5°	19688.5	15774.0	5181.4	1506.0	767.9	600.6	552.8	525.9	508.0	493.0	490.1
55°	20082.9	15287.1	4234.1	1219.1	693.2	561.8	528.9	502.0	481.0	466.2	463.2
57.5°	19981.2	14262.2	3301.8	980.1	621.6	523.0	499.0	481.0	457.2	433.3	430.3
60°	19482.3	12890.6	2489.1	815.7	555.8	481.0	466.2	451.2	418.3	382.4	376.5
62.5°	18618.7	11166.5	1774.9	675.3	484.1	433.3	427.3	415.3	367.6	301.8	295.8
65°	17298.0	9071.8	1195.3	561.8	415.3	379.5	382.4	361.5	298.8	224.1	218.1
67.5°	15367.7	6633.5	765.0	460.1	346.7	316.7	319.7	307.8	254.0	191.3	182.2
70°	12908.5	4392.4	499.0	349.6	277.9	245.0	262.9	266.0	215.1	155.4	149.4
72.5°	9463.2	2593.7	349.6	259.9	203.2	170.4	215.1	221.1	173.3	116.5	110.6
75°	5393.4	1231.1	262.9	188.3	125.5	119.5	167.4	167.4	119.5	77.7	71.8
77.5°	2264.9	513.9	185.2	122.5	71.8	68.7	113.6	104.6	59.8	35.9	35.9
80°	654.4	230.1	98.6	59.8	29.9	26.9	44.8	32.9	15.0	5.9	5.9
82.5°	257.0	101.6	38.8	23.9	12.0	12.0	5.9	0.0	0.0	0.0	0.0
85°	152.4	41.8	17.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.8	8.9	5.9	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)