

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: P971582

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56872.1 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

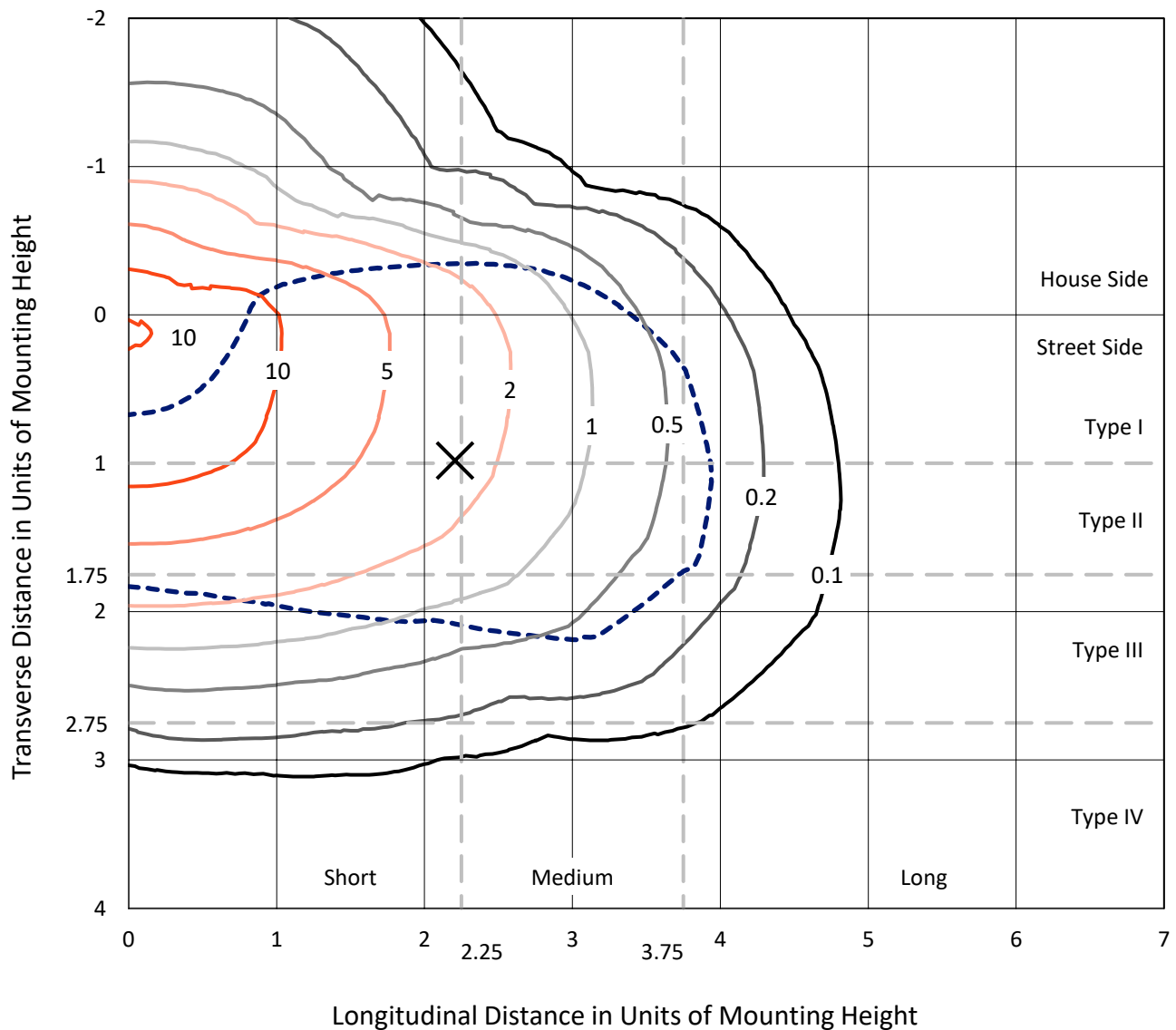
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

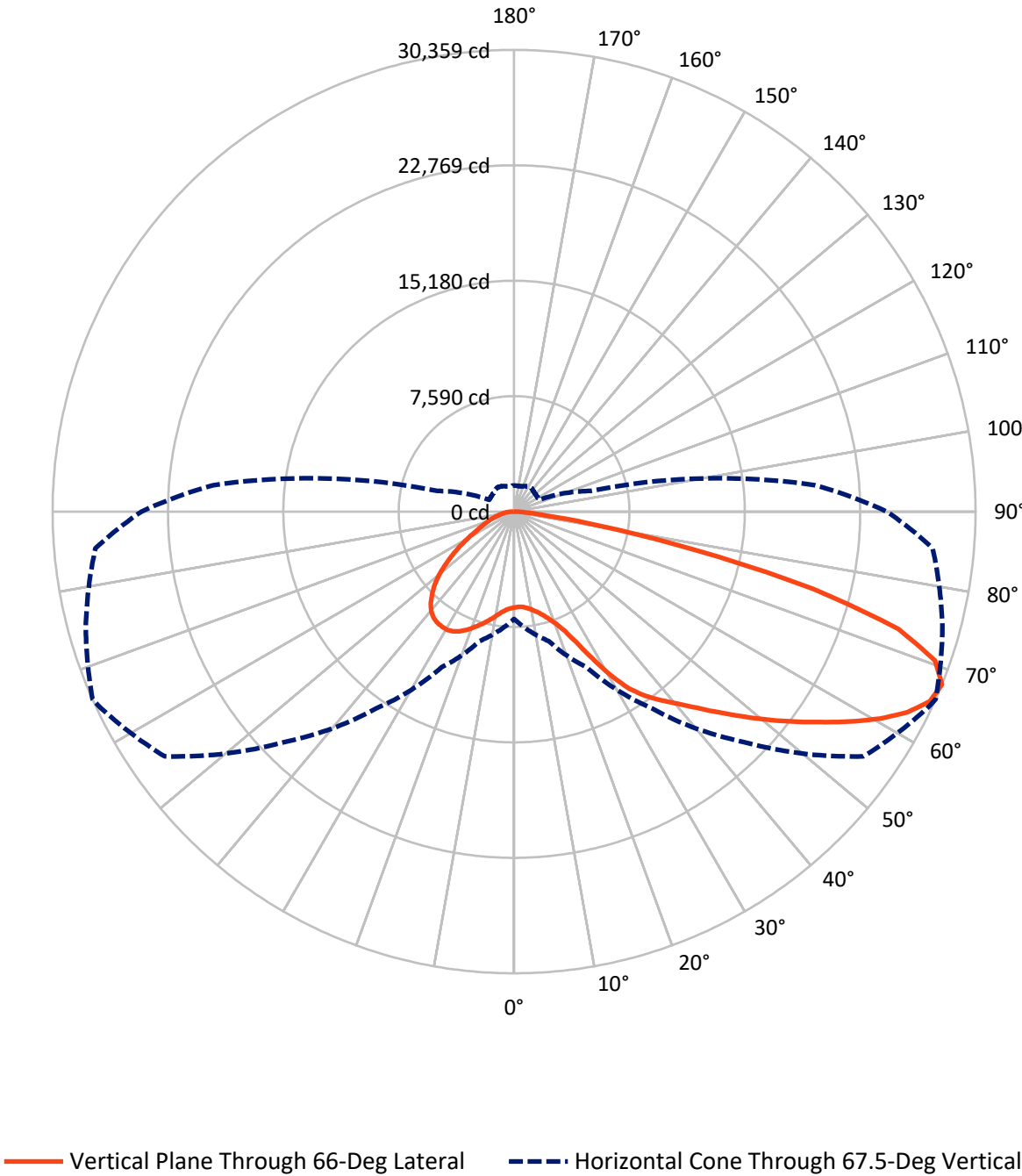
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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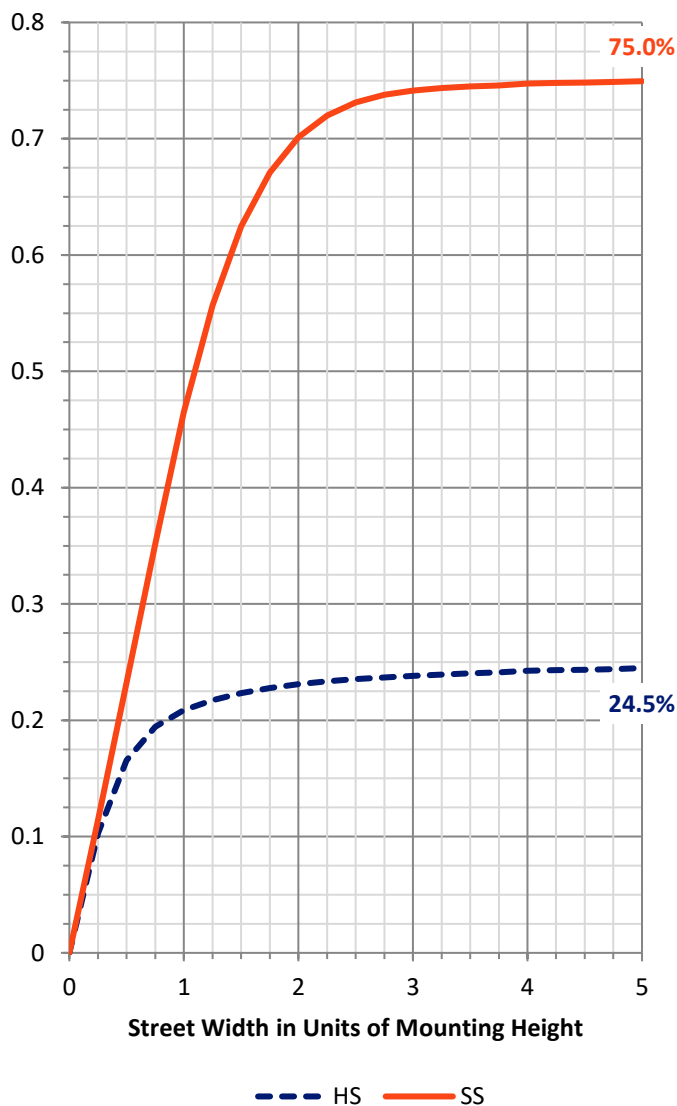
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14141.1	0.0	14141.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	42731.0	0.0	42731.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	56872.1	0.0	56872.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.4	1.1
10°-20°	2066.2	3.6
20°-30°	3982.6	7.0
30°-40°	6982.9	12.3
40°-50°	10381.3	18.3
50°-60°	13159.3	23.1
60°-70°	12876.0	22.6
70°-80°	6142.0	10.8
80°-90°	656.4	1.2
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°	56872.1	100.0
0°-180°	56872.1	100.0

Coefficient of Utilization



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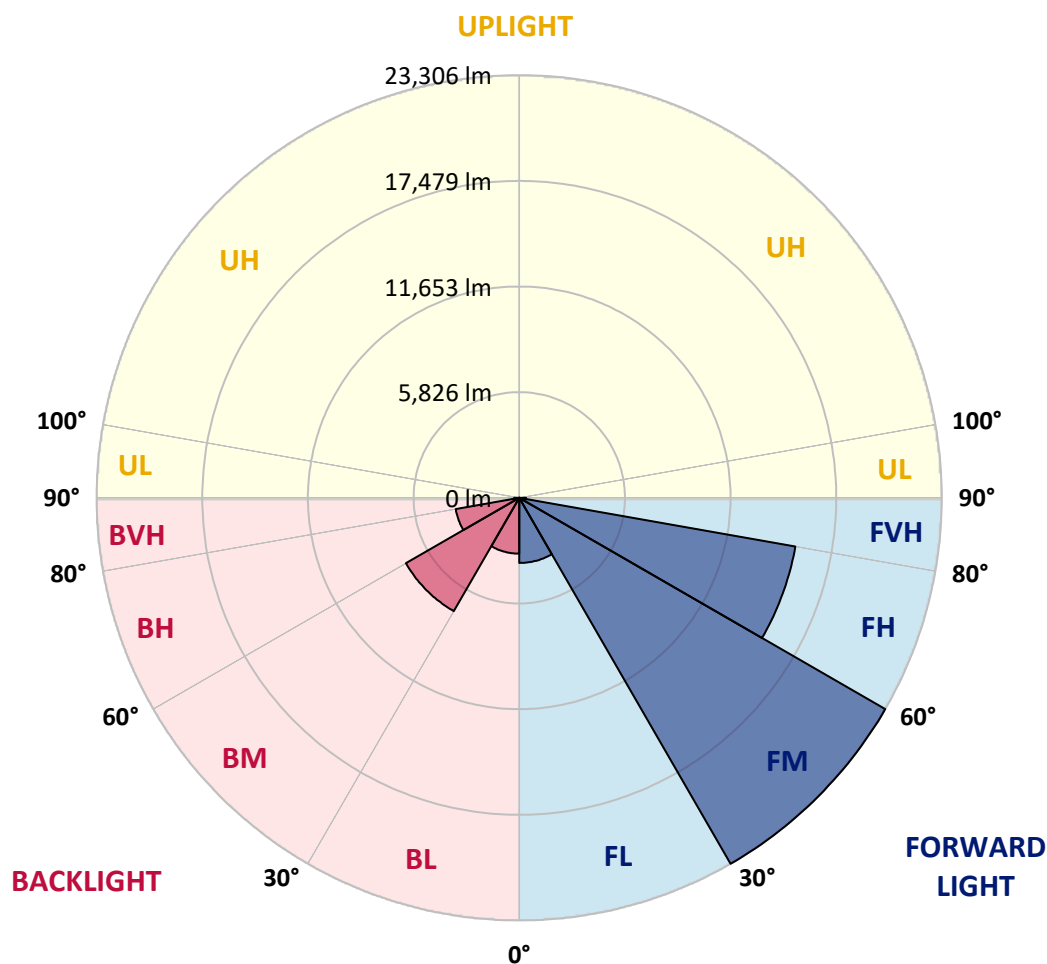
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3593.8	6.3			
FM	(30°-60°)	23305.7	41.0			
FH	(60°-80°)	15459.4	27.2			G5
FVH	(80°-90°)	372.2	0.7			G3/500
BL	(0°-30°)	3080.4	5.4	B4/5000		
BM	(30°-60°)	7217.8	12.7	B4/8500		
BH	(60°-80°)	3558.6	6.3	B4/5000		G4/5000
BVH	(80°-90°)	284.3	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8
2.5°	6242.1	6278.0	6269.0	6254.0	6251.1	6257.1	6266.0	6275.0	6272.0	6286.9	6310.8
5°	6224.2	6260.1	6257.1	6257.1	6269.0	6292.9	6307.8	6322.8	6307.8	6325.8	6358.7
7.5°	6236.2	6263.1	6275.0	6286.9	6316.9	6361.7	6397.5	6430.3	6412.5	6433.4	6475.2
10°	6388.5	6409.4	6421.4	6421.4	6442.3	6493.2	6528.9	6588.8	6573.8	6606.6	6660.4
12.5°	6666.4	6687.4	6687.4	6675.4	6690.4	6723.2	6735.2	6800.9	6774.0	6827.8	6881.5
15°	7007.1	7048.9	7016.0	6995.1	7001.1	7034.0	7031.0	7081.8	7054.9	7099.8	7147.5
17.5°	7383.6	7437.4	7383.6	7380.6	7368.6	7404.5	7407.5	7452.3	7404.5	7437.4	7470.2
20°	7828.8	7903.5	7858.7	7873.6	7846.8	7861.6	7876.6	7942.3	7867.7	7891.6	7882.6
22.5°	8456.4	8545.9	8498.2	8555.0	8537.0	8525.0	8522.1	8638.6	8522.1	8531.0	8444.4
25°	9370.7	9478.3	9394.5	9472.2	9472.2	9511.1	9556.0	9705.3	9511.1	9454.3	9230.2
27.5°	10721.3	10828.8	10664.5	10712.3	10697.4	10793.0	10745.2	11115.7	10906.5	10814.0	10362.8
30°	12346.8	12538.0	12227.3	12215.3	12200.4	12352.8	12421.6	12666.5	12454.4	12361.7	11817.9
32.5°	14103.8	14304.0	13933.4	13825.9	13769.1	13861.8	13805.0	14002.2	13855.8	13712.3	13040.0
35°	15962.4	16159.6	15807.0	15597.8	15370.8	15176.6	14973.3	15024.1	14886.7	14668.6	13972.3
37.5°	17719.4	18081.0	17707.5	17483.3	17065.0	16685.6	16117.8	15881.8	15753.2	15553.0	14850.8
40°	19509.2	19715.5	19431.5	19240.4	18786.2	18191.5	17283.1	16784.2	16610.8	16416.6	15822.0
42.5°	20827.1	21024.3	20871.9	20740.4	20384.8	19694.6	18520.2	17895.7	17644.7	17426.5	16921.6
45°	21872.9	22019.3	21923.6	21971.5	21819.1	21149.7	19802.1	19088.0	18828.0	18562.0	18164.6
47.5°	22294.2	22449.6	22602.0	22885.8	23145.8	22652.7	21179.6	20378.8	20103.9	19832.0	19440.6
50°	22246.4	22404.8	22846.9	23450.6	24257.3	24093.0	22631.8	21753.4	21499.4	21188.6	20827.1
52.5°	21863.9	22043.1	22610.9	23614.9	24899.8	25171.7	24111.0	23172.7	22933.7	22563.1	22201.6
55°	20859.9	20967.5	21819.1	23241.4	25052.2	25924.7	25560.2	24684.7	24445.6	23928.6	23534.2
57.5°	18998.3	19153.7	20393.7	22234.4	24669.7	26435.7	26833.1	26274.3	26044.2	25300.2	24887.8
60°	16569.0	16817.0	18236.4	20543.2	23695.6	26432.7	27989.5	27837.1	27645.9	26650.8	26220.5
62.5°	13820.0	14106.8	15472.4	18152.6	21992.4	25682.7	28712.6	29145.9	29047.3	27896.9	27347.1
65°	10613.7	10810.9	12170.5	15060.0	19342.0	24072.1	28796.2	30039.4	30057.3	28844.1	27935.7
67.5°	7066.9	7634.6	8814.9	11300.9	15792.1	21439.6	28061.2	30185.7	30359.1	29169.8	27639.8
70°	3448.3	4195.3	5351.7	7344.7	11300.9	17402.7	26139.9	28984.5	29370.0	28219.6	25876.9
72.5°	1431.3	1673.3	2303.8	3624.6	6487.1	11743.2	22279.2	25727.5	26441.6	25004.4	21756.3
75°	965.1	1045.8	1317.7	1858.6	2955.2	5790.9	16067.0	19183.6	20333.9	18884.8	15436.5
77.5°	744.0	794.8	959.2	1299.8	1757.0	2190.3	8599.8	11561.0	12155.6	11253.2	8032.0
80°	585.7	624.5	717.2	947.2	1246.0	1171.4	2931.3	5238.2	5581.7	4682.3	2581.7
82.5°	508.0	523.0	513.9	642.5	827.7	684.3	962.2	1933.3	2133.5	1547.9	842.7
85°	367.6	409.4	427.3	397.4	439.2	346.7	394.4	684.3	753.0	672.3	475.1
87.5°	149.4	221.1	271.9	257.0	161.3	98.6	122.5	200.2	230.1	251.0	155.4
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°	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8	6307.8
2.5°	6313.9	6334.8	6349.7	6367.6	6379.6	6397.5	6433.4	6454.3	6457.3	6472.3	6469.2
5°	6370.6	6400.5	6433.4	6481.2	6535.0	6579.8	6648.6	6696.3	6714.3	6729.2	6726.2
7.5°	6493.2	6535.0	6594.7	6678.4	6756.1	6815.8	6899.5	6956.3	7013.0	7034.0	7036.9
10°	6675.4	6735.2	6821.8	6935.4	7019.0	7096.7	7183.4	7231.2	7288.0	7311.8	7323.8
12.5°	6902.5	6965.3	7078.8	7237.2	7314.8	7368.6	7398.6	7386.6	7398.6	7419.5	7425.4
15°	7162.5	7231.2	7359.7	7530.0	7583.8	7536.0	7470.2	7410.4	7401.5	7407.5	7428.4
17.5°	7470.2	7521.0	7670.5	7813.9	7775.0	7577.8	7434.4	7338.8	7290.9	7276.0	7297.0
20°	7900.5	7900.5	8023.1	8112.7	7852.7	7518.1	7293.9	7138.5	7039.9	6998.1	6989.2
22.5°	8423.4	8375.6	8453.3	8390.5	7837.8	7350.7	7039.9	6771.0	6621.6	6561.8	6552.9
25°	9086.8	9030.0	9009.1	8620.7	7730.2	7084.8	6579.8	6254.0	6122.6	6089.7	6095.7
27.5°	10087.8	9944.3	9672.5	8746.1	7533.0	6666.4	6042.0	5740.1	5665.4	5668.5	5677.4
30°	11420.6	11133.7	10467.3	8767.0	7210.3	6074.8	5492.2	5277.0	5241.1	5256.1	5306.8
32.5°	12654.5	12382.7	11280.0	8671.5	6714.3	5495.1	4999.1	4855.6	4801.9	4819.8	4843.7
35°	13622.8	13548.0	12033.1	8537.0	6104.7	4951.3	4556.8	4434.4	4329.7	4305.8	4323.8
37.5°	14537.1	14507.2	12597.8	8348.7	5501.1	4565.8	4201.3	4039.9	3887.5	3803.9	3806.8
40°	15541.0	15511.2	12968.3	8058.9	4966.2	4231.1	3881.6	3669.4	3481.1	3328.7	3343.7
42.5°	16670.6	16494.3	13144.6	7643.5	4512.0	3947.3	3621.5	3334.7	3086.7	2946.3	2955.2
45°	17904.7	17507.2	13141.6	7114.6	4129.5	3687.3	3343.7	2937.3	2707.2	2575.7	2569.8
47.5°	19213.4	18475.4	12980.3	6528.9	3759.0	3400.4	2913.4	2602.7	2450.3	2369.6	2351.7
50°	20564.1	19380.8	12705.4	5856.6	3379.5	3074.8	2644.5	2432.3	2315.8	2241.1	2214.2
52.5°	21834.0	20202.5	12373.7	5094.7	2994.0	2758.0	2525.0	2360.6	2238.1	2154.4	2118.6
55°	23014.3	20910.7	11904.6	4314.8	2680.3	2545.9	2468.2	2330.7	2190.3	2091.7	2052.9
57.5°	24063.1	21370.8	11094.8	3582.7	2456.2	2399.4	2408.4	2279.9	2118.6	2034.9	1981.1
60°	24935.7	21708.5	9896.6	2904.4	2274.0	2256.0	2315.8	2184.3	1996.1	1900.5	1858.6
62.5°	25458.5	21702.5	8426.4	2378.5	2118.6	2124.5	2193.3	2064.8	1873.5	1783.9	1757.0
65°	25413.7	21170.7	6812.9	2034.9	1969.1	1975.2	2064.8	1933.3	1771.9	1718.1	1715.1
67.5°	24514.3	19873.8	5226.2	1810.8	1804.8	1831.7	1936.3	1843.7	1709.2	1703.2	1712.2
70°	22079.0	17181.6	3765.0	1631.5	1634.5	1673.3	1810.8	1786.9	1676.3	1688.3	1685.3
72.5°	17704.5	13099.8	2528.0	1443.2	1446.3	1509.0	1691.2	1742.1	1643.5	1801.8	1825.7
75°	11791.0	8169.5	1625.5	1243.0	1246.0	1326.8	1586.7	1655.4	1553.8	1795.8	1810.8
77.5°	5665.4	3672.4	1177.3	1045.8	1045.8	1120.5	1371.6	1482.0	1323.7	1395.4	1278.9
80°	1957.2	1380.5	926.3	842.7	824.7	875.6	1156.4	1284.8	1141.4	1051.9	986.0
82.5°	770.9	717.2	744.0	654.4	594.6	627.5	899.4	1060.8	839.7	759.0	755.9
85°	442.3	466.2	525.9	433.3	343.6	385.5	660.4	762.0	633.4	558.7	570.7
87.5°	119.5	164.3	242.0	224.1	155.4	164.3	313.8	421.3	364.6	280.8	289.9
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)