

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: P971551

Luminaire Tested: **NAV-SB6D-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971551
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-827-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55037.4 lumens
Efficiency: N/A
Efficacy: 125.1 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



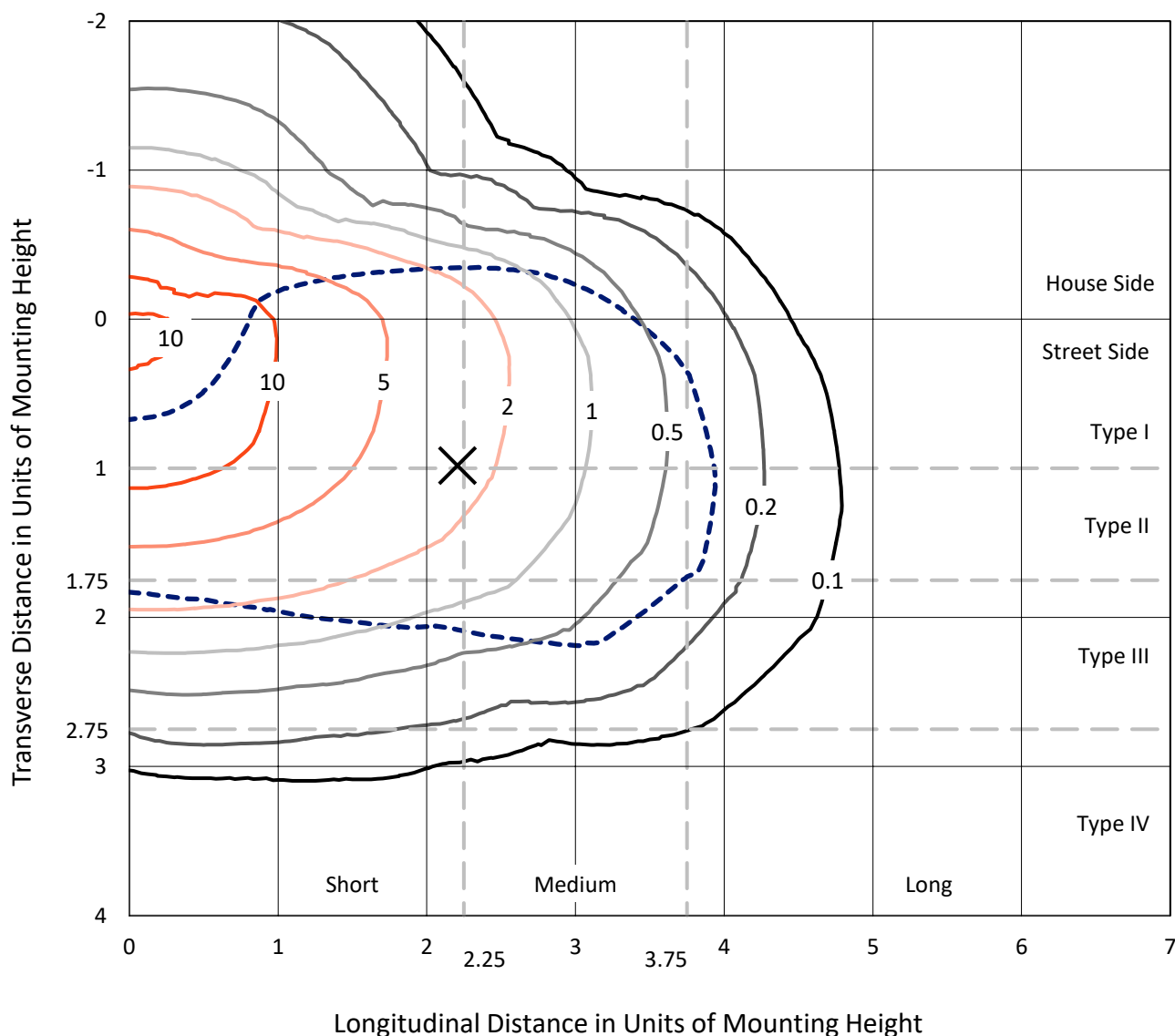
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

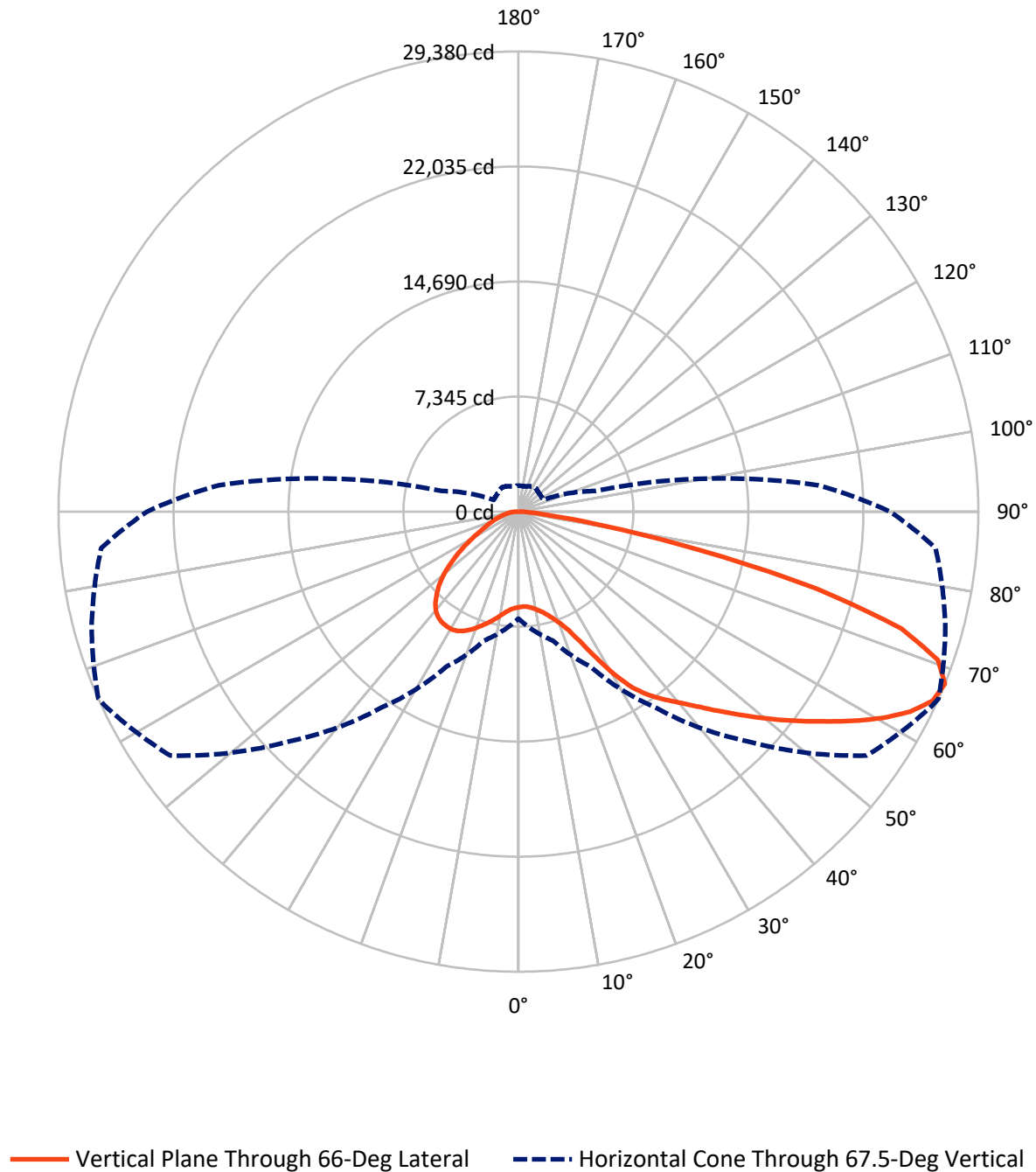


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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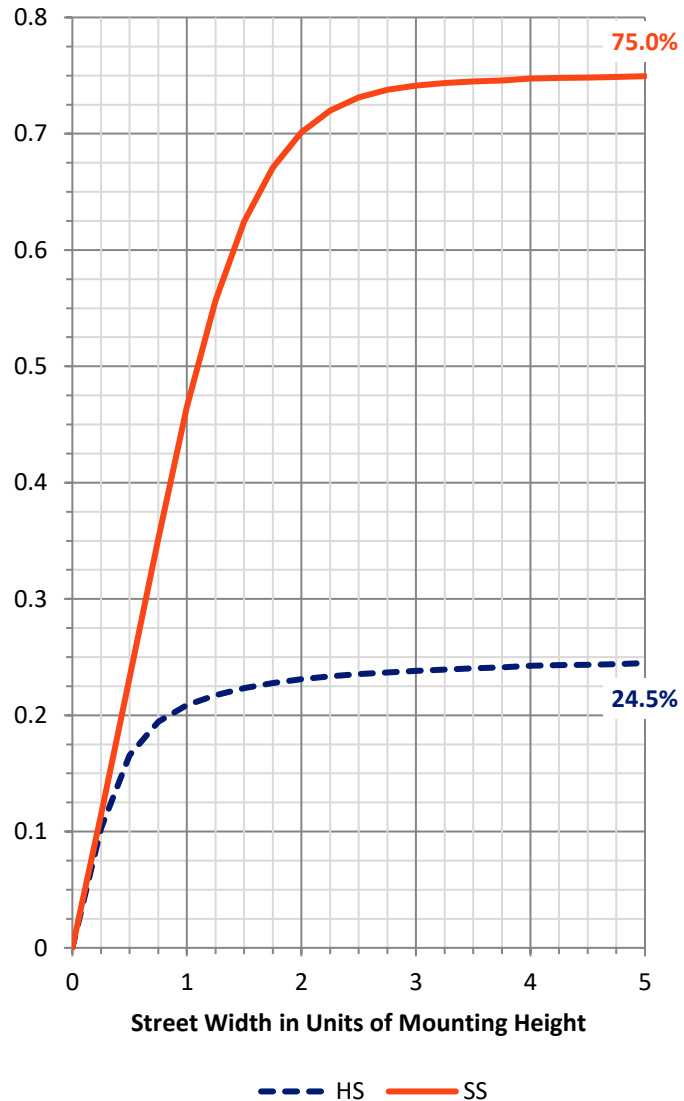
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13684.9	0.0	13684.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	41352.5	0.0	41352.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	55037.4	0.0	55037.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.2	1.1
10°-20°	1999.6	3.6
20°-30°	3854.1	7.0
30°-40°	6757.6	12.3
40°-50°	10046.4	18.3
50°-60°	12734.8	23.1
60°-70°	12460.6	22.6
70°-80°	5943.8	10.8
80°-90°	635.2	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°	55037.4	100.0
0°-180°	55037.4	100.0

Coefficient of Utilization



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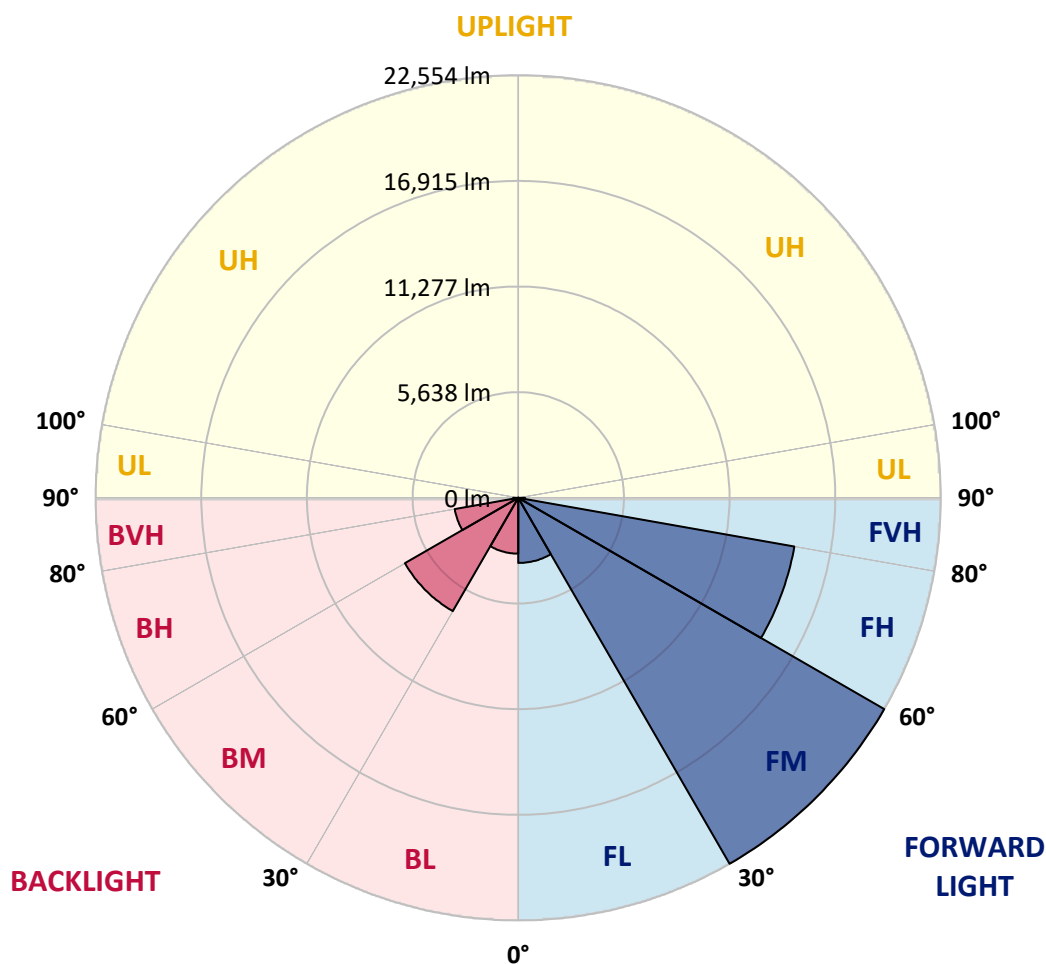
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3477.8	6.3			
FM	(30°-60°)	22553.9	41.0			
FH	(60°-80°)	14960.7	27.2			G5
FVH	(80°-90°)	360.2	0.7			G3/500
BL	(0°-30°)	2981.1	5.4	B4/5000		
BM	(30°-60°)	6984.9	12.7	B4/8500		
BH	(60°-80°)	3443.8	6.3	B4/5000		G4/5000
BVH	(80°-90°)	275.1	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°	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4
2.5°	6040.7	6075.5	6066.8	6052.3	6049.4	6055.2	6063.9	6072.6	6069.6	6084.1	6107.3
5°	6023.4	6058.1	6055.2	6055.2	6066.8	6089.9	6104.4	6118.8	6104.4	6121.7	6153.5
7.5°	6035.0	6061.0	6072.6	6084.1	6113.0	6156.5	6191.1	6223.0	6205.6	6225.8	6266.3
10°	6182.5	6202.7	6214.3	6214.3	6234.5	6283.7	6318.4	6376.2	6361.8	6393.5	6445.6
12.5°	6451.3	6471.6	6471.6	6460.1	6474.5	6506.3	6517.9	6581.5	6555.5	6607.6	6659.5
15°	6781.0	6821.5	6789.7	6769.5	6775.2	6807.0	6804.2	6853.4	6827.3	6870.7	6916.9
17.5°	7145.4	7197.4	7145.4	7142.5	7130.9	7165.7	7168.5	7211.9	7165.7	7197.4	7229.2
20°	7576.3	7648.6	7605.2	7619.6	7593.6	7608.1	7622.5	7686.2	7613.8	7637.0	7628.3
22.5°	8183.5	8270.2	8224.0	8278.9	8261.6	8250.0	8247.2	8359.9	8247.2	8255.8	8171.9
25°	9068.4	9172.4	9091.5	9166.7	9166.7	9204.3	9247.7	9392.3	9204.3	9149.4	8932.5
27.5°	10375.4	10479.5	10320.4	10366.7	10352.3	10444.9	10398.5	10757.1	10554.7	10465.0	10028.4
30°	11948.5	12133.5	11832.8	11821.2	11806.8	11954.3	12020.8	12257.9	12052.6	11963.0	11436.6
32.5°	13648.8	13842.5	13484.0	13379.8	13324.9	13414.6	13359.6	13550.5	13408.8	13270.0	12619.4
35°	15447.5	15638.3	15297.1	15094.7	14874.9	14686.9	14490.3	14539.4	14406.5	14195.3	13521.6
37.5°	17147.7	17497.7	17136.2	16919.4	16514.5	16147.2	15597.8	15369.4	15245.0	15051.3	14371.7
40°	18879.9	19079.5	18804.8	18619.6	18180.1	17604.7	16725.5	16242.7	16075.0	15887.0	15311.6
42.5°	20155.1	20345.9	20198.5	20071.2	19727.1	19059.2	17922.7	17318.4	17075.5	16864.4	16375.7
45°	21167.2	21308.9	21216.4	21262.6	21115.2	20467.4	19163.3	18472.1	18220.6	17963.2	17578.6
47.5°	21574.9	21725.3	21872.8	22147.5	22399.1	21922.0	20496.3	19721.4	19455.3	19192.2	18813.4
50°	21528.7	21681.9	22109.9	22694.0	23474.8	23315.8	21901.7	21051.6	20805.8	20505.0	20155.1
52.5°	21158.6	21332.1	21881.5	22853.1	24096.5	24359.6	23333.1	22425.2	22193.8	21835.2	21485.3
55°	20187.0	20291.0	21115.2	22491.6	24244.0	25088.4	24735.6	23888.3	23657.0	23156.7	22775.0
57.5°	18385.4	18535.8	19735.9	21517.1	23873.9	25582.9	25967.5	25426.7	25204.0	24484.0	24084.9
60°	16034.5	16274.4	17648.0	19880.4	22931.2	25579.9	27086.5	26939.0	26753.9	25791.0	25374.6
62.5°	13374.1	13651.7	14973.2	17567.1	21282.9	24854.1	27786.3	28205.6	28110.2	26996.9	26464.8
65°	10271.3	10462.2	11777.9	14574.2	18717.9	23295.5	27867.3	29070.2	29087.6	27913.5	27034.5
67.5°	6838.9	7388.3	8530.5	10936.4	15282.6	20747.9	27155.9	29211.9	29379.7	28228.7	26748.2
70°	3337.0	4059.9	5179.0	7107.8	10936.4	16841.3	25296.6	28049.4	28422.5	27309.2	25042.1
72.5°	1385.1	1619.4	2229.5	3507.7	6277.9	11364.4	21560.5	24897.6	25588.6	24197.7	21054.4
75°	934.0	1012.1	1275.2	1798.7	2859.9	5604.1	15548.6	18564.7	19677.9	18275.5	14938.6
77.5°	720.1	769.2	928.2	1257.9	1700.3	2119.6	8322.3	11188.0	11763.4	10890.1	7772.9
80°	566.7	604.3	694.0	916.7	1205.8	1133.5	2836.8	5069.1	5401.6	4531.3	2498.4
82.5°	491.6	506.0	497.3	621.8	801.0	662.2	931.1	1870.9	2064.7	1497.9	815.5
85°	355.7	396.2	413.5	384.6	425.1	335.5	381.7	662.2	728.7	650.7	459.8
87.5°	144.6	214.0	263.1	248.7	156.1	95.4	118.6	193.7	222.6	242.9	150.4
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°	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4	6104.4
2.5°	6110.1	6130.4	6144.9	6162.2	6173.8	6191.1	6225.8	6246.0	6248.9	6263.4	6260.5
5°	6165.1	6194.0	6225.8	6272.1	6324.1	6367.5	6434.0	6480.3	6497.7	6512.1	6509.2
7.5°	6283.7	6324.1	6382.0	6462.9	6538.2	6596.0	6677.0	6731.9	6786.8	6807.0	6810.0
10°	6460.1	6517.9	6601.7	6711.6	6792.6	6867.8	6951.7	6997.9	7052.8	7076.0	7087.6
12.5°	6679.8	6740.5	6850.4	7003.7	7078.9	7130.9	7159.8	7148.2	7159.8	7180.1	7185.9
15°	6931.4	6997.9	7122.2	7287.0	7339.1	7292.9	7229.2	7171.4	7162.7	7168.5	7188.7
17.5°	7229.2	7278.4	7422.9	7561.8	7524.2	7333.4	7194.6	7102.0	7055.7	7041.2	7061.5
20°	7645.7	7645.7	7764.2	7851.0	7599.4	7275.6	7058.7	6908.3	6812.9	6772.4	6763.7
22.5°	8151.7	8105.4	8180.6	8119.8	7584.9	7113.6	6812.9	6552.6	6408.0	6350.2	6341.5
25°	8793.7	8738.7	8718.4	8342.6	7480.9	6856.2	6367.5	6052.3	5925.1	5893.2	5899.1
27.5°	9762.4	9623.5	9360.4	8464.0	7290.0	6451.3	5847.0	5555.0	5482.6	5485.6	5494.2
30°	11052.1	10774.5	10129.7	8484.2	6977.7	5878.8	5314.9	5106.8	5072.0	5086.5	5135.7
32.5°	12246.3	11983.2	10916.1	8391.7	6497.7	5317.8	4837.8	4699.0	4646.9	4664.3	4687.4
35°	13183.2	13111.0	11644.8	8261.6	5907.7	4791.6	4409.9	4291.3	4190.1	4166.9	4184.3
37.5°	14068.1	14039.2	12191.3	8079.4	5323.6	4418.5	4065.8	3909.6	3762.1	3681.1	3684.1
40°	15039.7	15010.8	12550.0	7798.9	4806.0	4094.7	3756.3	3551.0	3368.9	3221.4	3235.8
42.5°	16132.8	15962.1	12720.6	7396.9	4366.5	3820.0	3504.8	3227.1	2987.2	2851.2	2859.9
45°	17327.0	16942.4	12717.7	6885.1	3996.4	3568.3	3235.8	2842.5	2619.9	2492.6	2486.9
47.5°	18593.6	17879.4	12561.6	6318.4	3637.7	3290.8	2819.4	2518.6	2371.2	2293.1	2275.8
50°	19900.7	18755.6	12295.5	5667.7	3270.5	2975.6	2559.1	2353.8	2241.1	2168.8	2142.8
52.5°	21129.7	19550.7	11974.6	4930.4	2897.5	2669.0	2443.5	2284.4	2165.9	2085.0	2050.2
55°	22271.8	20236.1	11520.5	4175.6	2593.9	2463.7	2388.6	2255.5	2119.6	2024.2	1986.6
57.5°	23286.9	20681.4	10736.9	3467.2	2377.0	2322.0	2330.7	2206.4	2050.2	1969.2	1917.2
60°	24131.2	21008.2	9577.3	2810.8	2200.6	2183.2	2241.1	2113.9	1931.6	1839.2	1798.7
62.5°	24637.2	21002.4	8154.6	2301.7	2050.2	2056.0	2122.5	1998.1	1813.1	1726.3	1700.3
65°	24593.8	20487.7	6593.1	1969.2	1905.6	1911.4	1998.1	1870.9	1714.8	1662.8	1659.9
67.5°	23723.5	19232.7	5057.6	1752.3	1746.6	1772.6	1873.8	1784.2	1654.0	1648.3	1656.9
70°	21366.7	16627.2	3643.6	1578.9	1581.8	1619.4	1752.3	1729.3	1622.3	1633.8	1630.9
72.5°	17133.3	12677.2	2446.4	1396.7	1399.5	1460.3	1636.7	1685.8	1590.4	1743.7	1766.8
75°	11410.6	7905.9	1573.1	1202.9	1205.8	1283.9	1535.4	1602.0	1503.7	1737.9	1752.3
77.5°	5482.6	3553.9	1139.3	1012.1	1012.1	1084.3	1327.3	1434.3	1281.0	1350.4	1237.7
80°	1894.1	1336.0	896.5	815.5	798.1	847.3	1119.1	1243.4	1104.6	1017.9	954.3
82.5°	746.1	694.0	720.1	633.2	575.4	607.2	870.4	1026.5	812.5	734.5	731.6
85°	427.9	451.1	508.9	419.3	332.5	373.0	639.1	737.4	613.1	540.8	552.3
87.5°	115.6	159.1	234.2	216.9	150.4	159.1	303.6	407.7	352.8	271.8	280.5
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)