

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: P971015

Luminaire Tested: **NAV-SB6C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29557.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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



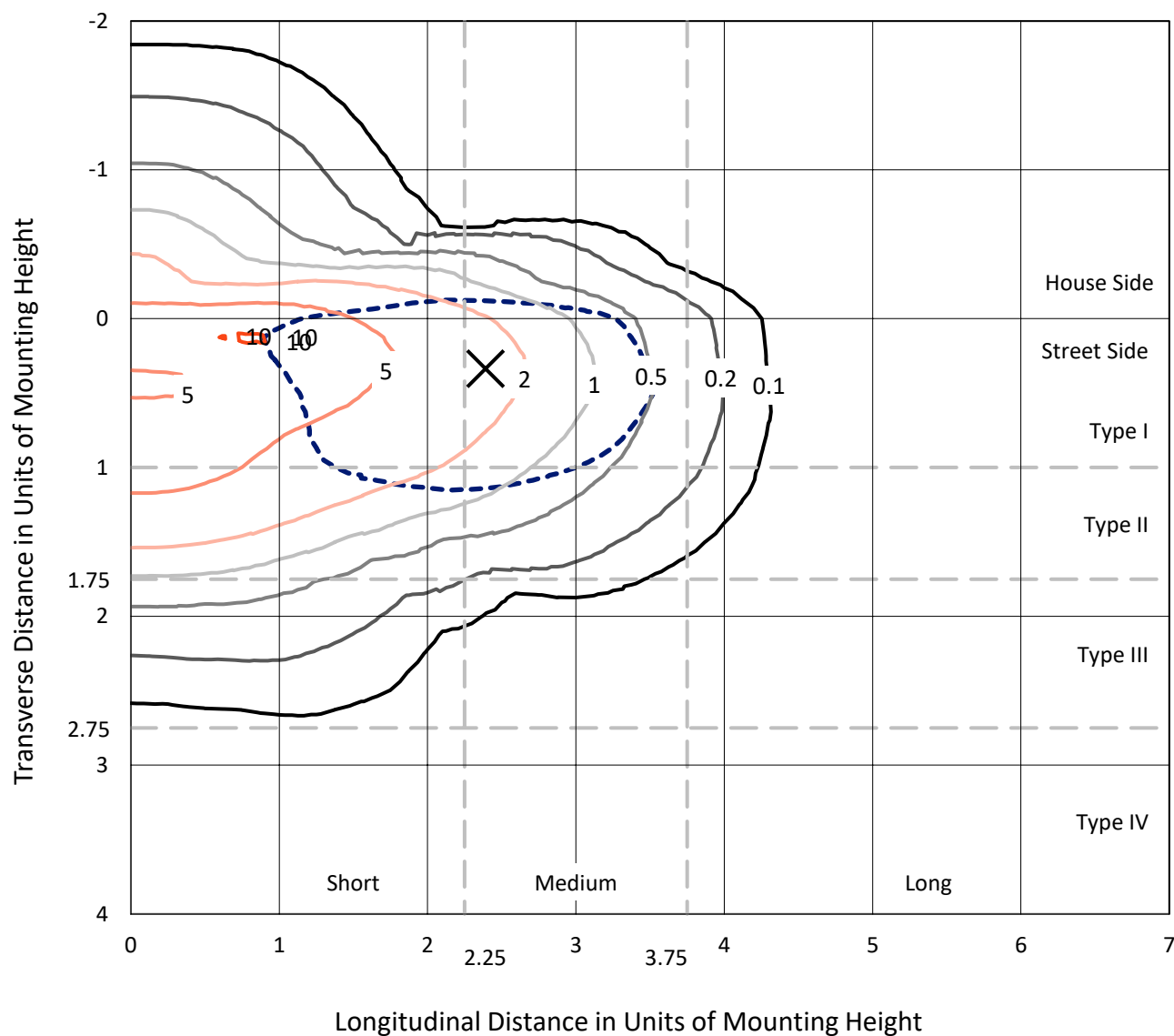
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

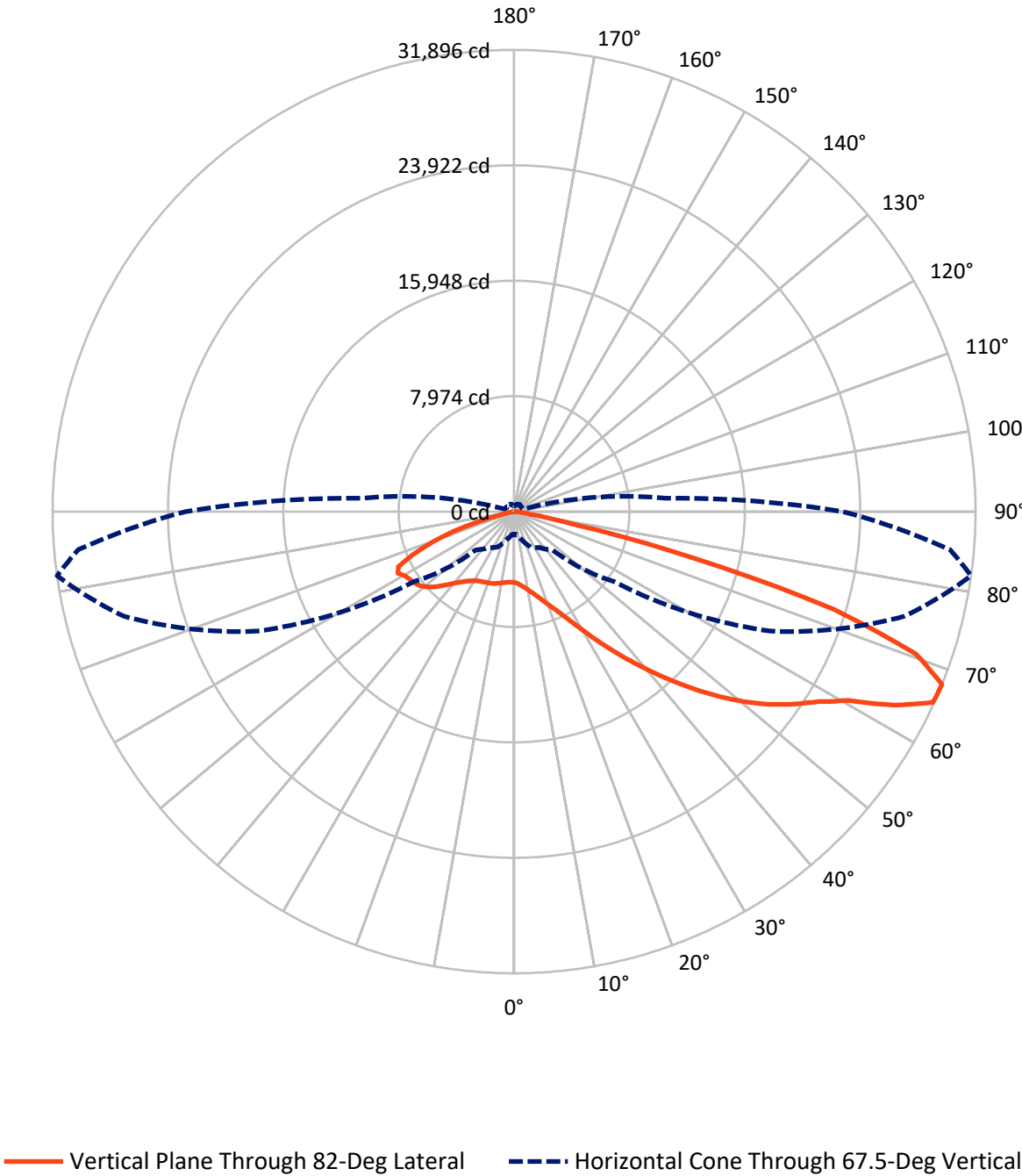
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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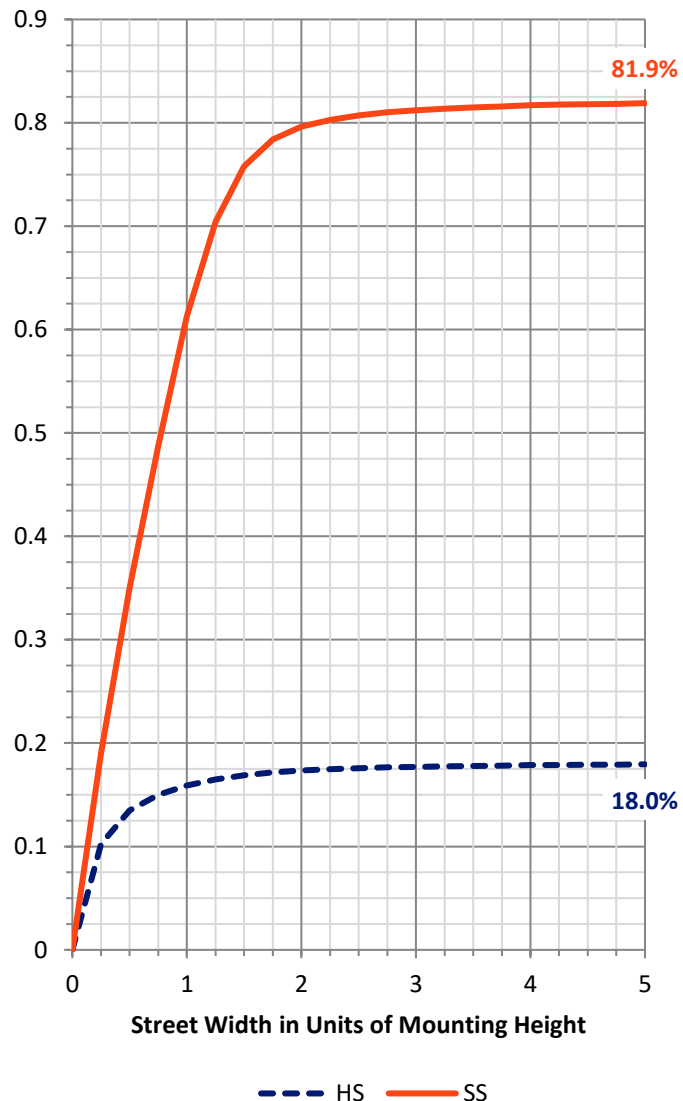
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5354.2	0.0	5354.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24203.8	0.0	24203.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	29557.9	0.0	29557.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.3	1.5
10°-20°	1133.7	3.8
20°-30°	1815.8	6.1
30°-40°	3210.9	10.9
40°-50°	5625.8	19.0
50°-60°	7503.2	25.4
60°-70°	6985.1	23.6
70°-80°	2680.9	9.1
80°-90°	166.5	0.6
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°	29557.9	100.0
0°-180°	29557.9	100.0

Coefficient of Utilization



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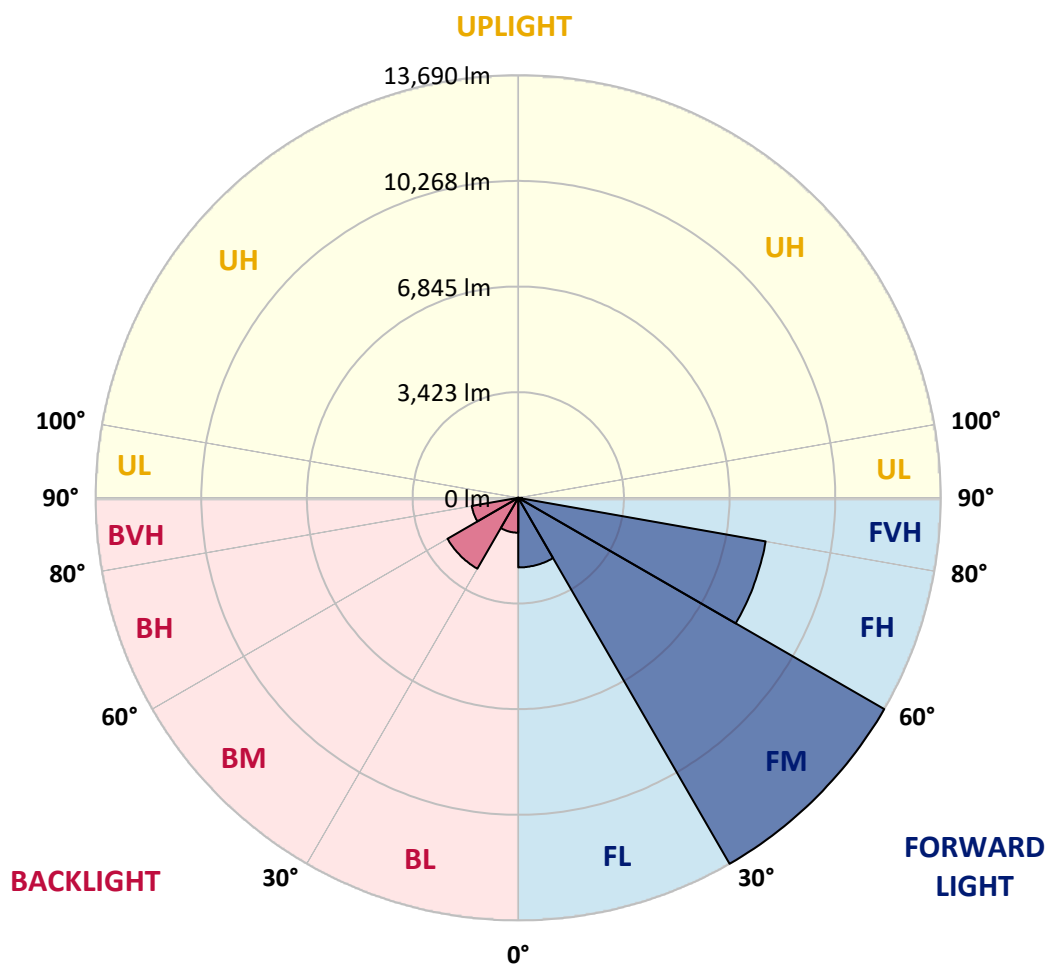
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2254.9	7.6			
FM	(30°-60°)	13690.0	46.3			
FH	(60°-80°)	8137.7	27.5			G4/12000
FVH	(80°-90°)	121.1	0.4			G2/225
BL	(0°-30°)	1130.8	3.8	B3/2500		
BM	(30°-60°)	2649.8	9.0	B3/5000		
BH	(60°-80°)	1528.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	45.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7
2.5°	5175.5	5205.4	5188.3	5179.7	5164.9	5143.7	5126.5	5073.3	5018.1	4981.9	4969.1
5°	5279.8	5309.6	5307.4	5316.0	5326.6	5333.0	5328.8	5269.1	5190.4	5128.7	5092.5
7.5°	5190.4	5224.4	5252.1	5294.7	5369.2	5447.9	5486.2	5473.5	5392.6	5307.4	5262.8
10°	4937.2	4973.4	5039.3	5139.3	5296.8	5467.0	5609.6	5675.6	5624.6	5530.9	5469.2
12.5°	4473.3	4509.4	4639.3	4856.3	5120.2	5416.0	5688.4	5865.0	5877.8	5784.2	5711.8
15°	3951.9	3988.1	4126.3	4398.8	4801.0	5275.6	5731.0	6065.0	6177.9	6097.0	6009.8
17.5°	3628.4	3660.3	3764.6	3983.8	4403.0	4994.6	5716.0	6277.9	6535.4	6471.5	6367.3
20°	3530.5	3558.2	3607.1	3760.3	4109.3	4703.1	5618.1	6477.9	6920.6	6884.4	6767.4
22.5°	3634.8	3660.3	3675.2	3743.3	3962.5	4511.5	5494.7	6682.2	7367.5	7371.7	7229.1
25°	3875.2	3900.8	3883.7	3926.4	4022.1	4452.0	5447.9	6922.6	7929.3	7976.1	7814.4
27.5°	4271.1	4273.2	4232.7	4230.7	4245.5	4541.4	5496.9	7180.2	8638.0	8725.2	8525.1
30°	5064.8	5033.0	4877.6	4709.5	4632.9	4809.5	5633.1	7484.6	9474.3	9629.7	9378.5
32.5°	6288.5	6241.7	5956.6	5554.4	5150.0	5241.5	5877.8	7831.4	10385.1	10666.0	10359.6
35°	7616.5	7603.7	7305.8	6707.8	6001.3	5856.5	6275.8	8286.8	11378.9	11825.8	11462.0
37.5°	8850.8	8844.3	8674.2	7969.7	7110.0	6714.2	6914.1	8882.6	12443.0	13089.9	12660.1
40°	9978.7	9997.7	9827.5	9197.6	8331.5	7814.4	7782.4	9619.0	13626.1	14466.7	13956.1
42.5°	10953.4	10974.6	10802.2	10336.2	9538.1	9031.7	8848.6	10521.3	14781.7	15945.8	15341.5
45°	11615.1	11747.1	11721.6	11349.1	10776.6	10251.0	10129.8	11653.4	16099.1	17514.3	16805.6
47.5°	11802.5	11923.7	12115.3	12166.3	11817.3	11300.2	11444.9	13017.6	17431.3	19084.8	18278.2
50°	11340.6	11453.5	11851.4	12381.3	12623.9	12464.2	12723.8	14479.6	18795.3	20651.1	19723.2
52.5°	10429.8	10544.7	11046.9	11885.4	12875.0	13377.2	14007.1	15920.3	20116.9	22134.4	21091.5
55°	9112.5	9233.8	9878.6	10827.8	12396.1	13753.9	15077.5	17358.9	21327.8	23468.6	22325.8
57.5°	7320.7	7410.0	8080.4	9408.3	11191.7	13379.3	15867.1	18929.4	22468.4	24779.6	23549.5
60°	4771.2	4849.9	5628.8	7110.0	9195.5	12128.0	16024.5	20680.8	23983.7	26484.2	25198.8
62.5°	3173.0	3226.2	3688.0	4775.5	6475.7	9725.4	15103.1	22079.0	26205.4	29450.7	28027.0
65°	2177.0	2230.2	2692.1	3449.6	4183.8	6433.2	12453.6	21893.9	28218.6	31806.5	30123.2
67.5°	1553.5	1598.2	1989.7	2704.8	3028.3	3736.9	8442.1	19527.4	27929.1	31895.8	30236.0
70°	1112.9	1138.6	1462.0	2106.8	2406.9	2245.2	4694.6	14935.0	24453.9	29452.9	27933.4
72.5°	778.9	787.4	1015.1	1604.5	1938.7	1638.7	2234.5	9957.4	18495.3	23117.5	21655.5
75°	527.8	538.4	683.2	1176.8	1555.6	1251.3	1183.3	5339.4	10857.5	12796.2	11470.5
77.5°	323.5	327.7	440.5	804.4	1164.1	953.4	761.9	2262.2	4200.9	4124.3	3515.6
80°	183.1	183.1	281.0	500.1	793.8	615.0	534.1	961.9	1330.0	1168.3	1030.0
82.5°	102.2	104.2	204.3	310.7	525.6	363.9	293.7	444.7	574.6	508.6	442.6
85°	42.5	46.8	125.6	146.9	251.1	180.9	119.2	187.3	212.8	189.4	138.4
87.5°	4.3	6.4	38.3	27.7	29.8	36.2	17.0	36.2	29.8	29.8	21.3
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°	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7	4896.7
2.5°	4928.7	4896.7	4815.9	4722.3	4598.8	4539.2	4458.3	4403.0	4356.2	4360.5	4317.9
5°	5024.4	4943.6	4762.7	4537.1	4256.2	4056.1	3843.3	3696.5	3577.4	3551.8	3494.3
7.5°	5156.4	5028.6	4711.6	4305.1	3830.5	3471.0	3149.6	2943.2	2796.3	2749.5	2702.7
10°	5326.6	5141.5	4645.6	4013.6	3330.4	2873.0	2528.2	2366.4	2266.4	2232.3	2206.8
12.5°	5524.5	5271.3	4558.4	3658.2	2815.5	2374.9	2155.8	2074.9	2042.9	2032.4	2025.9
15°	5773.5	5433.0	4426.5	3236.8	2379.2	2070.6	1977.0	1966.4	1970.7	1966.4	1964.2
17.5°	6069.3	5609.6	4211.5	2802.7	2085.6	1915.3	1881.3	1889.8	1900.4	1898.3	1894.0
20°	6392.8	5784.2	3937.0	2417.6	1885.5	1804.6	1785.4	1794.0	1802.5	1798.3	1796.1
22.5°	6761.0	5971.4	3632.7	2117.4	1751.4	1702.5	1681.2	1683.4	1683.4	1674.8	1670.5
25°	7201.4	6177.9	3313.4	1904.7	1649.2	1611.0	1585.5	1577.0	1564.1	1538.6	1534.3
27.5°	7727.1	6397.0	3007.0	1755.7	1568.5	1532.3	1502.4	1481.1	1449.2	1406.7	1402.4
30°	8318.7	6663.1	2747.4	1662.0	1504.6	1468.4	1434.4	1402.4	1355.6	1302.4	1298.2
32.5°	9014.6	6948.3	2558.0	1600.3	1447.1	1408.8	1368.4	1330.0	1279.0	1225.8	1227.9
35°	9844.6	7293.0	2447.3	1557.8	1402.4	1351.4	1306.7	1264.1	1225.8	1179.0	1174.8
37.5°	10744.8	7659.0	2413.3	1536.5	1372.6	1293.9	1242.8	1213.0	1208.8	1181.1	1179.0
40°	11730.1	8093.2	2438.8	1523.8	1340.7	1238.5	1183.3	1176.8	1187.5	1138.6	1140.6
42.5°	12772.8	8608.2	2481.3	1508.8	1296.0	1183.3	1130.1	1130.1	1121.6	1053.4	1053.4
45°	13900.7	9201.8	2524.0	1472.6	1242.8	1127.9	1087.4	1072.6	1036.4	970.4	968.3
47.5°	15037.2	9806.3	2555.8	1406.7	1179.0	1081.1	1044.9	1010.9	957.7	898.1	896.0
50°	16116.1	10348.9	2521.8	1308.8	1106.6	1036.4	998.0	951.3	893.8	853.4	847.0
52.5°	17080.1	10819.3	2377.1	1193.8	1030.0	989.5	955.5	906.6	859.8	817.2	812.9
55°	17918.5	11200.2	2121.8	1085.4	961.9	949.1	915.1	853.4	789.6	753.4	749.1
57.5°	18723.0	11489.6	1802.5	996.0	900.2	904.5	853.4	798.1	738.4	700.2	695.9
60°	19793.5	11876.9	1479.1	913.0	834.2	847.0	791.6	751.2	676.7	627.8	621.4
62.5°	21504.4	12479.2	1174.8	810.8	757.6	761.9	738.4	689.5	600.1	542.6	538.4
65°	22862.1	12257.9	925.7	700.2	670.3	676.7	676.7	623.5	527.8	461.8	455.4
67.5°	22708.9	10495.8	738.4	591.6	587.3	591.6	606.5	561.8	468.2	415.0	406.5
70°	20919.2	8348.5	591.6	491.6	510.8	500.1	542.6	512.9	421.4	368.2	361.8
72.5°	17069.4	6014.0	451.2	406.5	391.5	408.6	489.4	461.8	351.2	291.5	285.2
75°	9974.4	3209.2	336.2	321.3	283.0	340.5	434.1	393.7	268.1	214.9	208.6
77.5°	3247.5	1119.4	246.8	236.3	210.6	274.5	370.3	332.0	219.1	170.3	163.9
80°	870.4	338.4	168.1	155.4	136.2	204.3	293.7	263.8	157.4	110.7	108.5
82.5°	349.0	142.6	97.9	87.2	74.5	140.4	232.0	212.8	117.1	70.2	70.2
85°	112.7	46.8	36.2	27.7	34.0	87.2	138.4	144.7	83.0	36.2	27.7
87.5°	14.9	6.4	6.4	8.5	6.4	14.9	42.5	40.4	23.4	4.3	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)