

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: P970480

Luminaire Tested: **NAV-SB6B-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29745.5 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 220.4
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

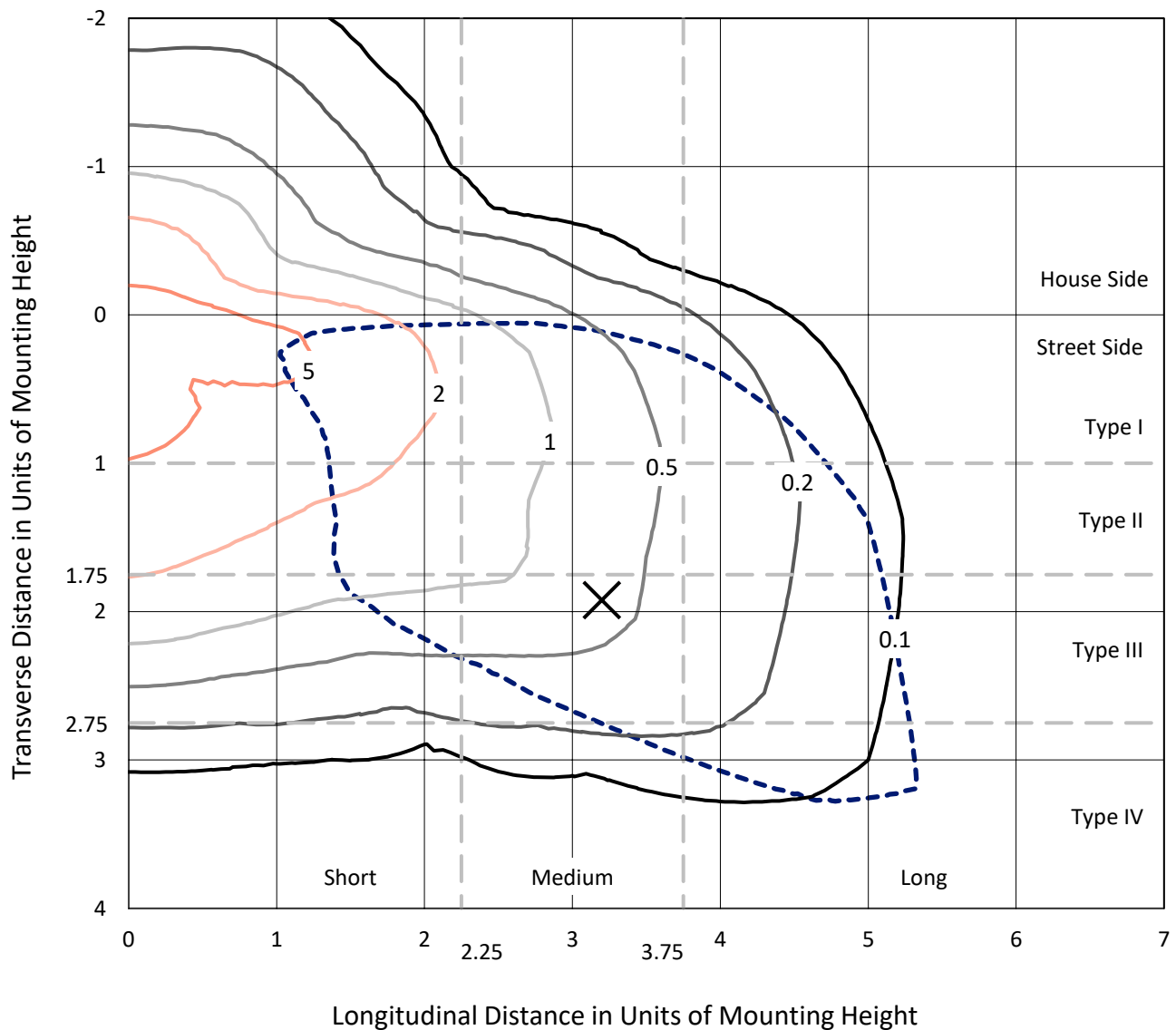


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

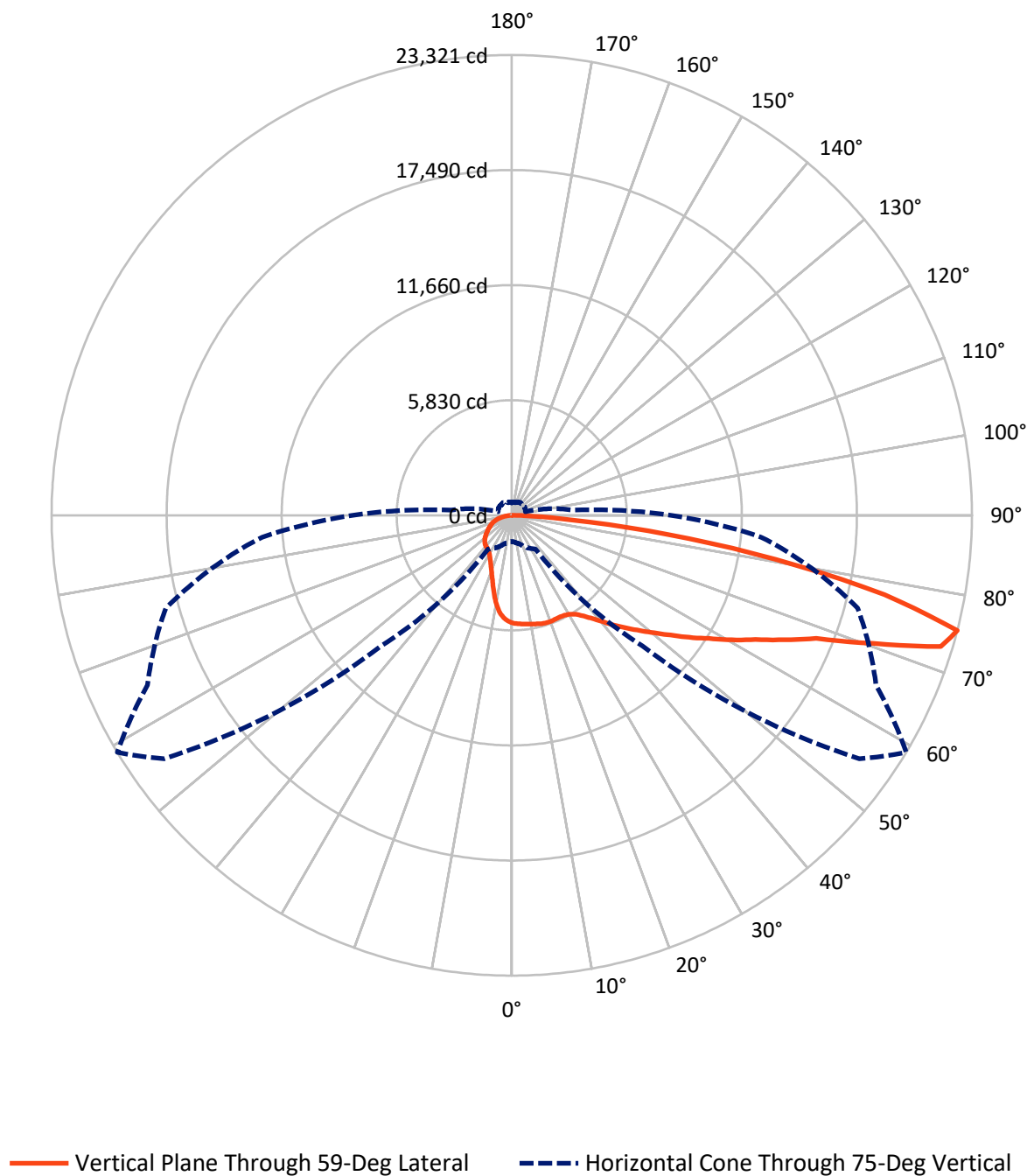


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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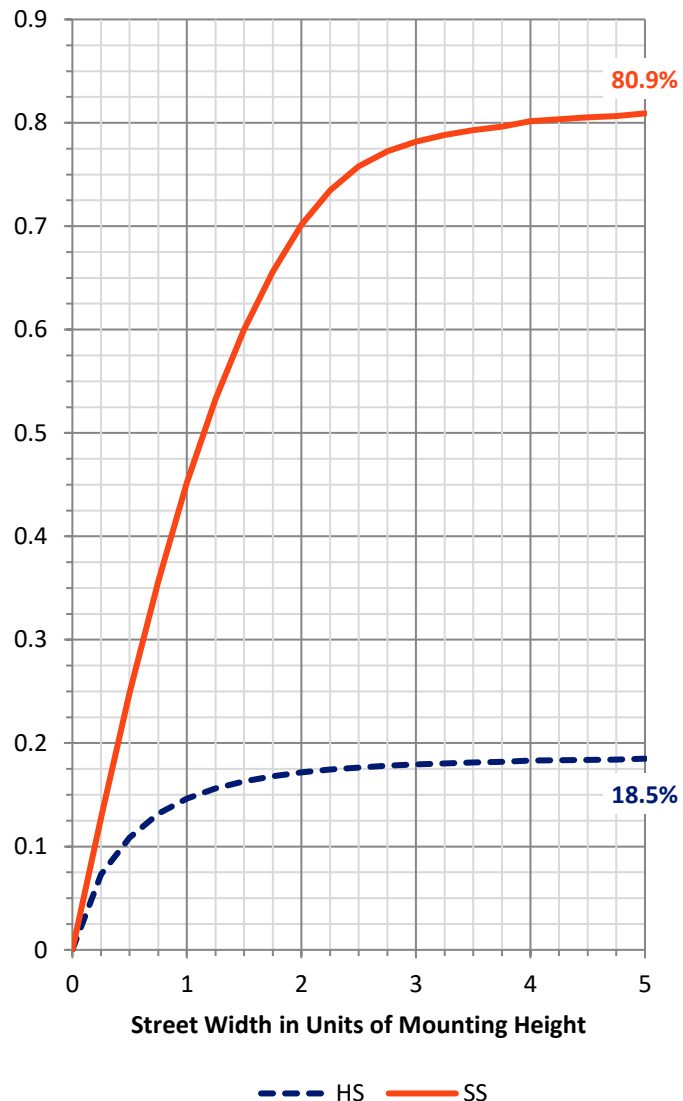
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5579.0	0.0	5579.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24166.5	0.0	24166.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	29745.5	0.0	29745.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.5	1.6
10°-20°	1251.3	4.2
20°-30°	1900.7	6.4
30°-40°	2825.3	9.5
40°-50°	4201.7	14.1
50°-60°	5703.3	19.2
60°-70°	6962.8	23.4
70°-80°	5464.3	18.4
80°-90°	946.6	3.2
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°	29745.5	100.0
0°-180°	29745.5	100.0

Coefficient of Utilization



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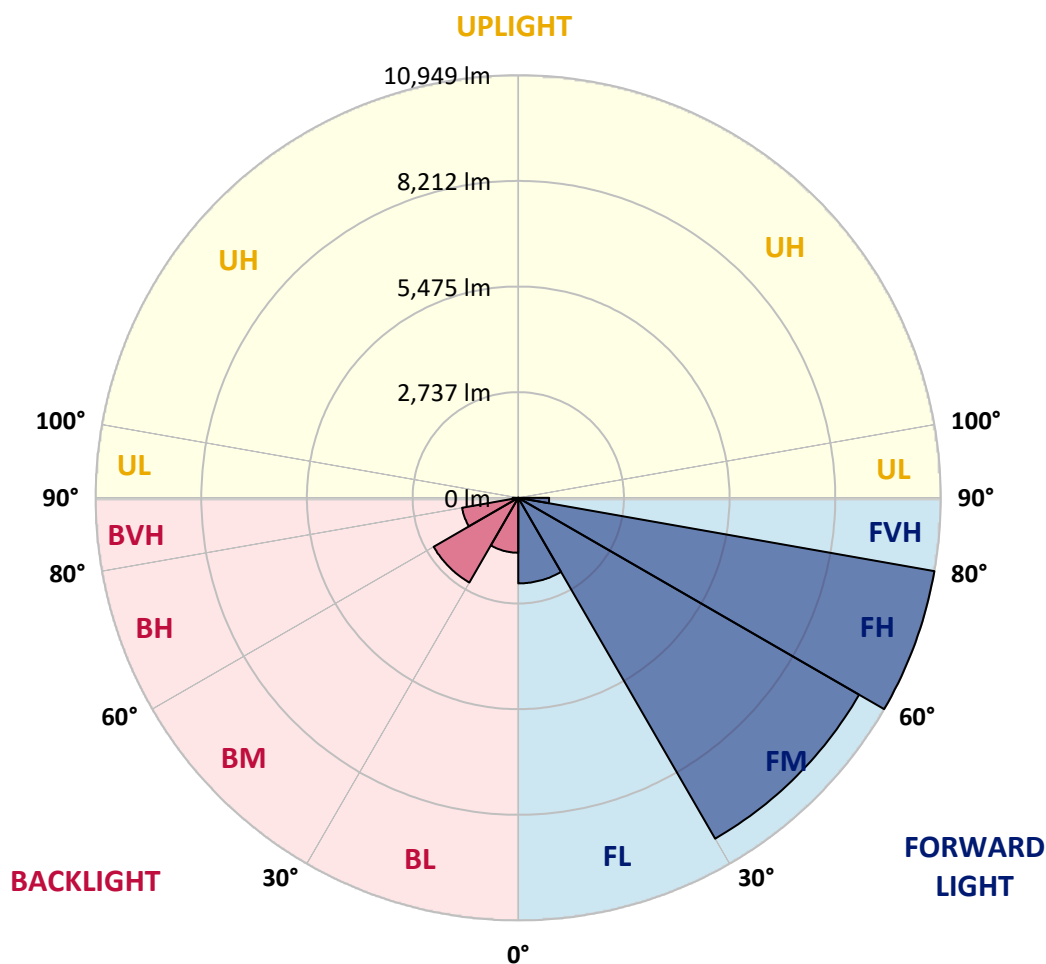
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2217.9	7.5			
FM	(30°-60°)	10198.0	34.3			
FH	(60°-80°)	10949.0	36.8			G4/12000
FVH	(80°-90°)	801.7	2.7			G5
BL	(0°-30°)	1423.7	4.8	B3/2500		
BM	(30°-60°)	2532.3	8.5	B3/5000		
BH	(60°-80°)	1478.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	144.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8
2.5°	5506.1	5486.9	5506.1	5498.1	5494.9	5488.6	5490.1	5501.3	5494.9	5502.9	5475.8
5°	5469.3	5458.1	5477.3	5472.5	5493.3	5496.6	5517.4	5530.1	5538.2	5539.7	5518.9
7.5°	5408.5	5397.3	5424.5	5447.0	5491.7	5504.6	5547.7	5568.5	5579.7	5599.0	5568.5
10°	5186.1	5181.3	5248.5	5333.3	5439.0	5504.6	5570.2	5605.3	5622.9	5674.1	5638.9
12.5°	4792.5	4798.8	4886.9	5050.1	5261.3	5472.5	5595.8	5646.9	5674.1	5738.2	5722.2
15°	4416.4	4414.8	4510.8	4685.3	4981.3	5331.7	5608.5	5696.5	5743.0	5837.4	5824.6
17.5°	4198.8	4192.4	4259.6	4392.4	4667.6	5115.7	5576.5	5723.7	5822.9	5941.4	5930.1
20°	4158.8	4146.0	4181.2	4246.8	4442.0	4878.9	5493.3	5723.7	5887.0	6040.5	6034.2
22.5°	4304.4	4283.6	4269.2	4261.2	4347.6	4683.6	5398.9	5704.5	5981.4	6183.0	6171.8
25°	4597.2	4565.2	4491.7	4419.6	4394.0	4595.6	5315.8	5699.7	6122.2	6375.0	6333.4
27.5°	5070.9	5030.9	4882.1	4709.3	4554.1	4640.5	5278.9	5728.5	6277.4	6578.2	6495.0
30°	5658.1	5615.0	5427.7	5162.1	4883.7	4806.8	5325.3	5813.4	6475.8	6848.6	6685.5
32.5°	6184.5	6136.6	5976.6	5706.2	5330.1	5094.9	5472.5	5974.9	6787.9	7224.7	6971.8
35°	6651.8	6595.9	6451.9	6202.2	5877.3	5499.7	5738.2	6261.4	7231.1	7835.9	7360.7
37.5°	7109.5	7043.9	6887.1	6623.0	6395.8	6039.0	6104.6	6629.4	7819.9	8578.4	7876.0
40°	7621.5	7527.1	7336.7	7075.9	6855.1	6671.0	6586.2	7080.7	8418.4	9407.3	8519.2
42.5°	8117.6	8028.0	7800.8	7578.3	7301.5	7248.7	7144.7	7608.7	9072.9	10317.8	9172.1
45°	8652.0	8544.8	8269.6	7987.9	7813.6	7632.8	7685.6	8136.8	9714.5	11245.9	9856.9
47.5°	9152.8	9032.8	8708.0	8394.4	8298.4	7955.9	8181.6	8717.6	10381.8	12186.7	10535.4
50°	9423.3	9304.8	9034.5	8751.2	8676.0	8354.4	8719.3	9356.1	11081.1	13124.4	11186.6
52.5°	9648.9	9520.9	9167.3	9010.5	8988.0	8788.0	9381.7	10085.8	11780.3	13953.3	11815.5
55°	9888.9	9746.5	9295.3	9154.5	9256.9	9274.5	10167.4	10913.1	12519.6	14761.4	12409.2
57.5°	10165.7	9984.9	9418.5	9276.0	9519.3	9844.1	11069.9	11770.7	13246.1	15510.3	12937.2
60°	10426.6	10244.2	9655.3	9469.7	9802.5	10505.0	12105.1	12809.2	14068.5	16177.6	13436.5
62.5°	10477.8	10327.4	9844.1	9842.6	10186.6	11276.2	13330.8	13857.3	14787.1	16836.9	13884.5
65°	9591.3	9496.9	9210.4	9828.1	10737.0	12386.8	14695.8	15198.3	15700.7	17412.9	14278.1
67.5°	7299.8	7312.7	7291.8	8484.0	10292.2	13982.1	16672.0	16633.6	16828.8	18059.3	14731.0
70°	3337.9	3413.1	3902.8	5856.5	8245.6	14166.1	19939.5	19441.9	18244.9	18896.2	15123.1
72.5°	1803.4	1861.0	2061.0	2837.1	4957.3	12594.8	22381.3	22735.0	20128.3	19459.4	14692.6
75°	1323.3	1355.4	1494.6	1803.4	2081.8	9360.9	21506.0	23320.6	20363.6	18145.8	12687.7
77.5°	990.5	1004.9	1118.5	1429.0	1065.7	4934.9	17184.0	19313.9	17432.1	14908.6	9372.1
80°	718.4	734.5	819.3	1072.1	747.2	1804.9	11799.5	13556.4	11938.7	9503.3	4670.8
82.5°	496.0	502.5	539.3	729.7	521.6	700.9	6695.0	7949.6	6664.7	3334.7	1261.0
85°	299.2	307.2	323.2	425.7	296.0	332.8	2889.9	2989.1	1992.2	796.8	392.1
87.5°	123.2	131.2	144.0	179.2	116.8	92.8	476.8	598.5	372.8	233.6	121.6
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°	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8	5459.8
2.5°	5467.8	5456.5	5426.1	5384.5	5346.1	5298.1	5277.3	5259.7	5243.7	5213.3	5198.9
5°	5501.3	5470.9	5389.3	5283.7	5163.6	5032.4	4904.4	4816.5	4741.2	4685.3	4638.8
7.5°	5552.5	5494.9	5346.1	5130.1	4854.9	4573.2	4318.8	4138.0	4002.0	3952.4	3866.0
10°	5605.3	5536.5	5277.3	4896.4	4421.2	3987.6	3649.9	3464.3	3355.5	3320.3	3266.0
12.5°	5667.7	5567.0	5170.1	4571.6	3936.4	3461.1	3166.7	3057.9	3001.9	2982.6	2987.5
15°	5759.0	5592.5	5008.5	4165.2	3473.9	3077.0	2886.7	2811.5	2782.7	2781.0	2787.5
17.5°	5827.7	5597.3	4757.2	3730.0	3118.7	2845.1	2688.3	2659.5	2678.6	2707.4	2718.7
20°	5904.5	5554.2	4427.6	3333.1	2869.1	2641.8	2576.2	2595.4	2641.8	2683.4	2697.9
22.5°	5958.9	5475.8	4029.2	3024.3	2653.0	2525.1	2521.8	2561.9	2587.4	2608.2	2619.5
25°	6007.0	5342.9	3606.8	2765.0	2475.5	2454.7	2489.8	2477.0	2459.4	2477.0	2488.2
27.5°	6042.2	5133.3	3229.1	2537.8	2350.6	2406.6	2385.8	2357.0	2355.4	2365.0	2381.1
30°	6031.0	4853.3	2918.7	2321.8	2262.6	2317.0	2267.4	2262.6	2257.8	2262.6	2280.2
32.5°	6031.0	4534.8	2680.3	2173.0	2206.6	2185.8	2181.0	2169.8	2150.7	2149.0	2169.8
35°	6064.6	4216.4	2475.5	2093.0	2160.2	2110.6	2113.8	2086.6	2046.6	2027.3	2046.6
37.5°	6133.4	3960.4	2272.2	2054.6	2078.6	2077.0	2064.2	2017.8	1947.4	1886.6	1907.4
40°	6299.8	3885.2	2133.0	2037.0	2040.2	2059.4	2025.8	1936.2	1776.1	1677.0	1689.7
42.5°	6560.6	4011.5	2102.6	1993.8	2014.6	2033.8	1968.2	1760.1	1646.6	1587.3	1587.3
45°	6891.9	4232.4	2168.2	1931.4	1953.8	1987.4	1792.2	1693.0	1641.7	1643.4	1651.4
47.5°	7311.1	4464.4	2289.8	1877.0	1865.8	1885.0	1675.4	1614.6	1544.2	1561.8	1606.6
50°	7795.9	4699.6	2405.1	1803.4	1768.1	1705.8	1600.1	1542.5	1452.9	1411.3	1422.5
52.5°	8320.7	4926.9	2451.4	1713.8	1662.6	1590.6	1549.0	1478.6	1369.7	1300.9	1299.3
55°	8818.5	5133.3	2400.2	1606.6	1557.0	1500.9	1494.6	1451.3	1334.6	1238.5	1238.5
57.5°	9288.9	5306.1	2272.2	1497.7	1449.8	1416.1	1459.3	1438.6	1291.3	1168.1	1161.7
60°	9687.3	5424.5	2086.6	1387.3	1353.7	1336.1	1401.7	1395.3	1230.5	1092.9	1088.1
62.5°	10004.1	5470.9	1881.8	1281.8	1273.8	1241.7	1321.7	1321.7	1153.7	1019.3	1014.5
65°	10252.2	5426.1	1673.7	1177.7	1193.7	1145.7	1224.2	1214.5	1072.1	953.7	947.3
67.5°	10471.4	5278.9	1443.3	1075.3	1112.1	1051.3	1121.7	1099.3	982.5	888.1	881.7
70°	10569.0	4936.5	1180.9	972.9	1017.7	958.5	1019.3	977.6	881.7	817.6	804.8
72.5°	9785.0	4102.8	929.7	865.7	904.0	856.1	908.9	860.9	772.8	744.0	720.1
75°	8095.1	3078.7	715.2	748.9	777.7	740.9	776.0	740.9	660.8	681.6	622.5
77.5°	5879.0	2078.6	547.2	625.7	638.5	619.3	649.6	609.7	537.6	532.9	508.8
80°	2923.5	1217.7	428.9	494.5	489.6	476.8	512.1	492.8	432.0	457.7	452.8
82.5°	846.4	521.6	312.0	347.3	337.6	340.8	366.4	376.1	563.2	558.4	571.2
85°	265.6	204.8	187.3	193.6	184.0	188.8	216.1	428.9	396.9	232.1	251.2
87.5°	68.8	70.4	46.4	49.6	51.2	60.8	68.8	260.9	124.8	81.6	86.4
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)