

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: P971051

Luminaire Tested: **NAV-SB6C-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41443.8 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

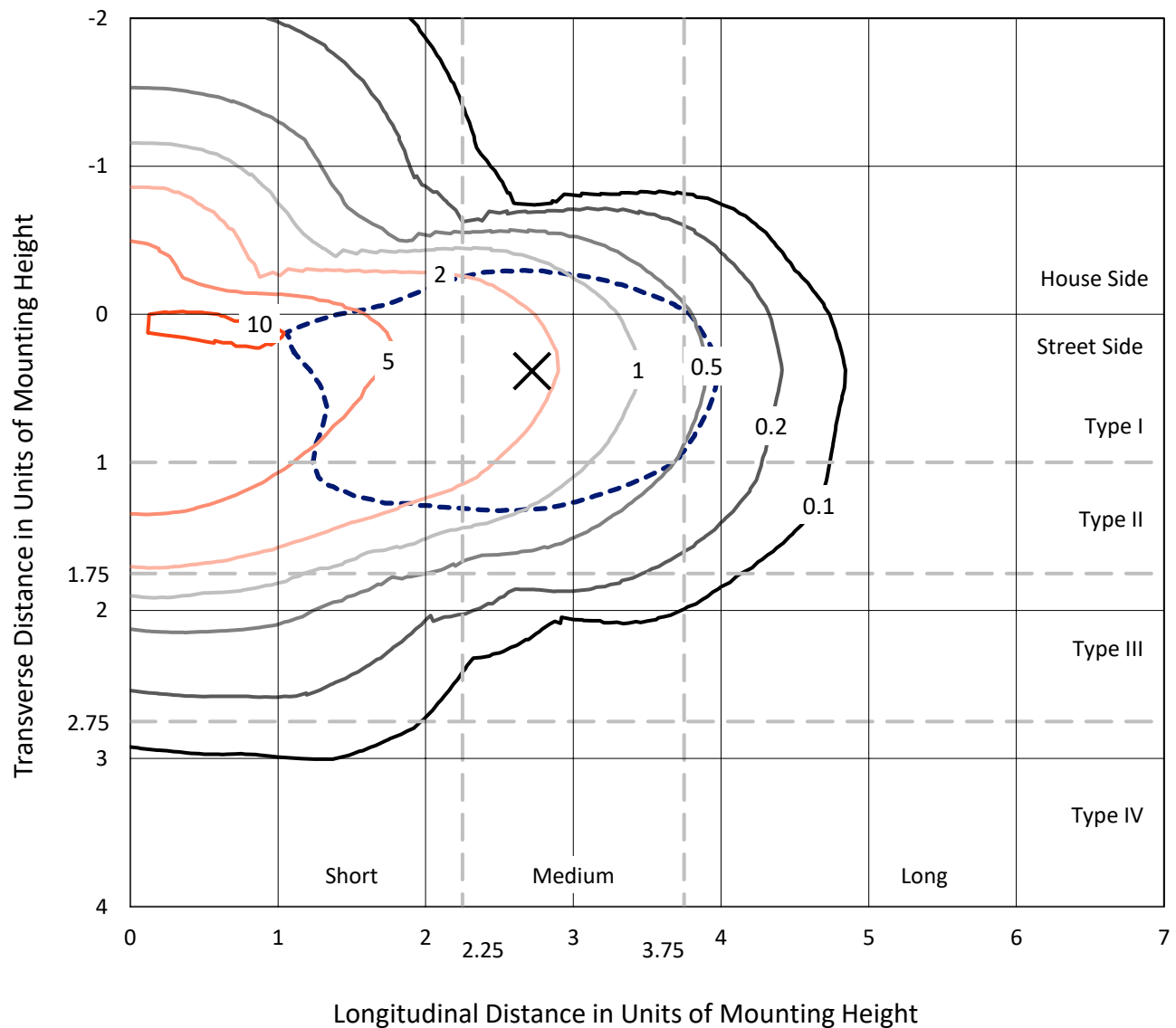
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

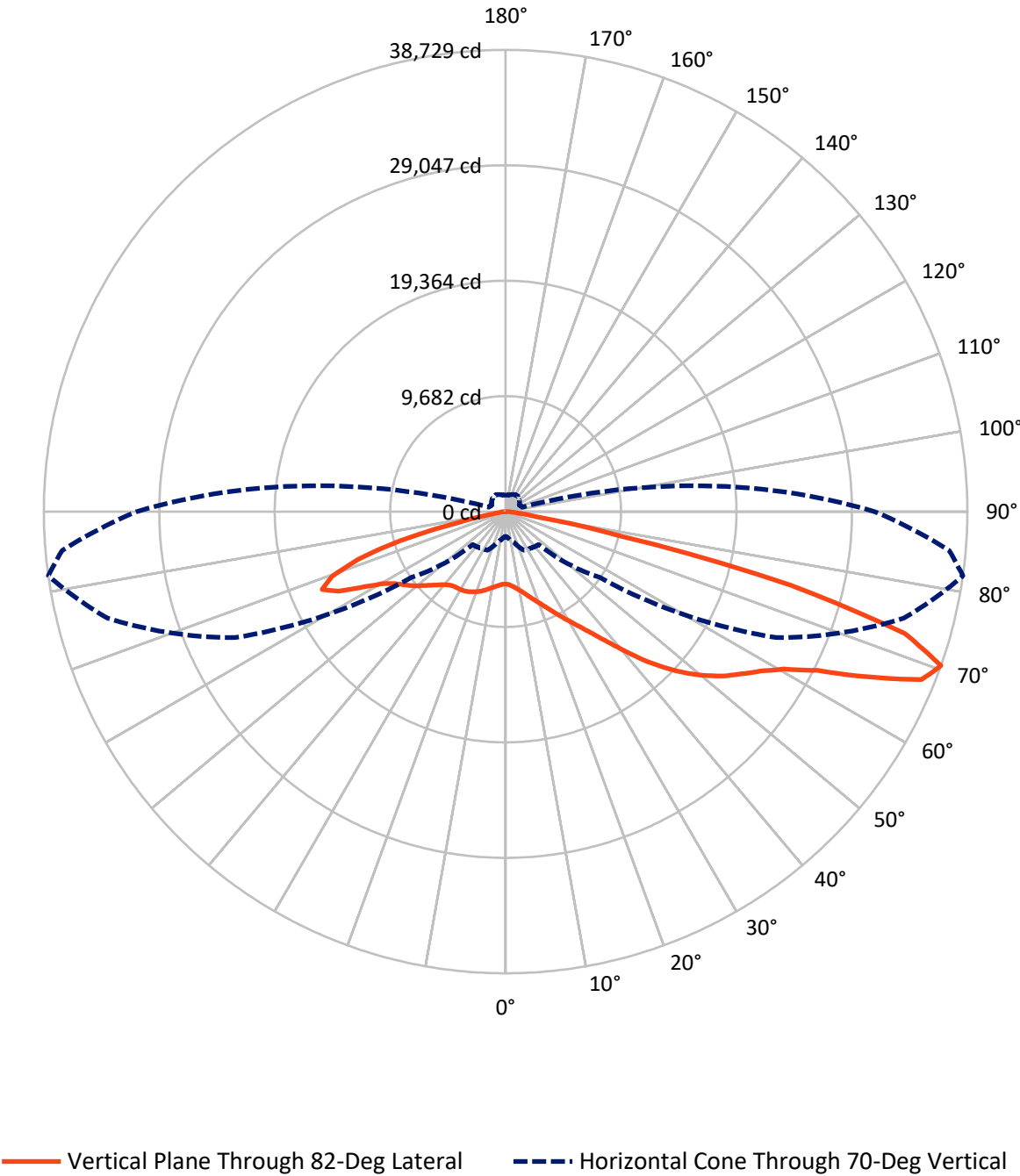
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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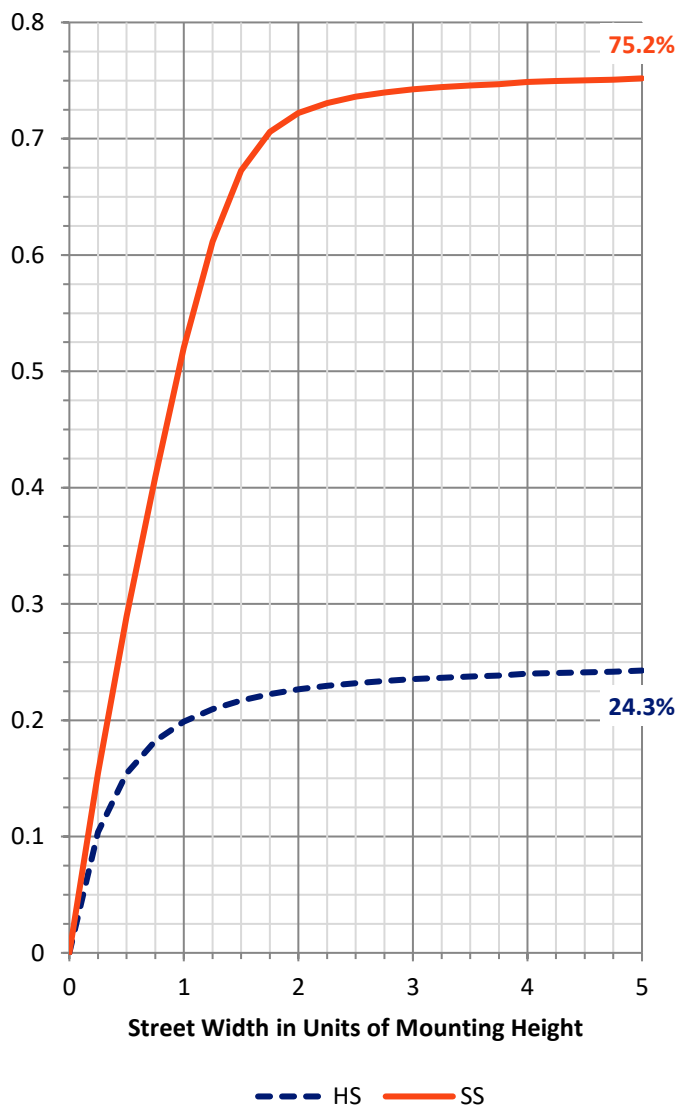
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10216.9	0.0	10216.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	31226.9	0.0	31226.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	41443.8	0.0	41443.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.7	1.4
10°-20°	1648.3	4.0
20°-30°	2757.4	6.7
30°-40°	4307.8	10.4
40°-50°	6860.6	16.6
50°-60°	9547.4	23.0
60°-70°	9987.0	24.1
70°-80°	5219.7	12.6
80°-90°	542.0	1.3
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°	41443.8	100.0
0°-180°	41443.8	100.0

Coefficient of Utilization



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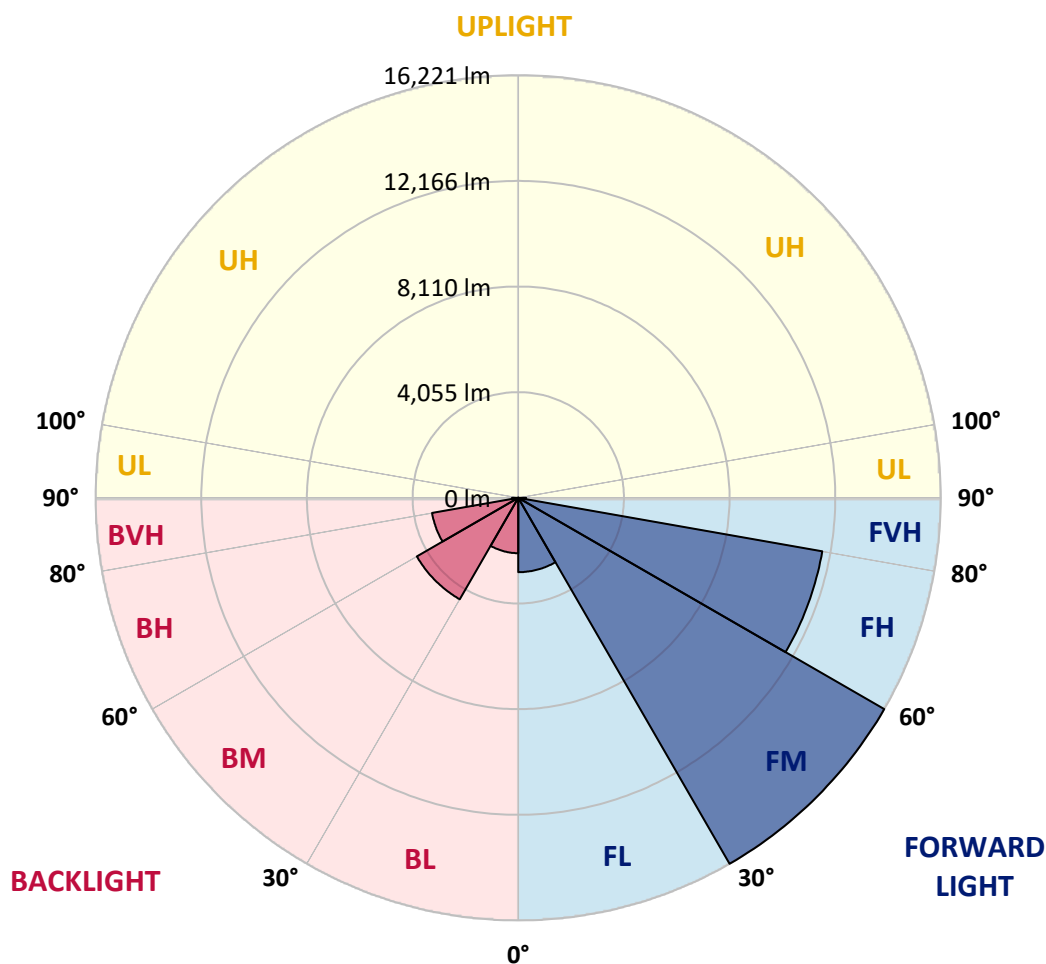
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2853.9	6.9			
FM	(30°-60°)	16220.7	39.1			
FH	(60°-80°)	11848.9	28.6			G4/12000
FVH	(80°-90°)	303.4	0.7			G3/500
BL	(0°-30°)	2125.5	5.1	B3/2500		
BM	(30°-60°)	4495.0	10.8	B3/5000		
BH	(60°-80°)	3357.8	8.1	B4/5000		G4/5000
BVH	(80°-90°)	238.6	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2
2.5°	6221.3	6256.5	6245.5	6234.6	6234.6	6219.1	6216.9	6194.9	6177.4	6148.8	6142.1
5°	6300.5	6337.9	6333.5	6342.3	6370.9	6377.4	6384.1	6370.9	6335.7	6300.5	6285.1
7.5°	6230.2	6271.9	6285.1	6337.9	6425.8	6505.1	6564.4	6588.6	6555.6	6505.1	6480.9
10°	5992.7	6038.8	6085.0	6210.4	6366.5	6553.4	6711.7	6806.3	6799.6	6751.3	6709.5
12.5°	5511.0	5559.4	5658.3	5902.5	6188.3	6518.2	6812.9	7010.8	7079.0	7043.8	6971.2
15°	5126.1	5167.9	5242.7	5493.4	5865.0	6366.5	6850.3	7235.2	7408.8	7389.0	7301.1
17.5°	5115.2	5132.8	5178.9	5297.7	5583.6	6129.0	6810.7	7455.0	7787.1	7784.9	7675.0
20°	5308.7	5315.2	5341.7	5365.9	5528.6	5948.6	6709.5	7637.6	8211.6	8211.6	8092.8
22.5°	5577.0	5572.6	5599.0	5577.0	5656.2	5933.2	6645.8	7798.1	8684.3	8719.6	8570.0
25°	5979.4	5957.4	5950.8	5900.2	5915.7	6076.2	6716.1	7980.6	9245.1	9317.7	9130.8
27.5°	6516.0	6480.9	6456.7	6340.0	6300.5	6370.9	6931.7	8200.5	9869.7	9995.0	9757.5
30°	7215.3	7151.5	7116.4	6914.0	6771.2	6782.1	7257.1	8493.0	10522.9	10725.1	10423.8
32.5°	8169.8	8070.7	7976.2	7644.1	7382.5	7296.7	7677.1	8897.6	11230.9	11554.2	11167.2
35°	9238.5	9159.4	9058.2	8545.8	8143.3	7945.4	8244.5	9462.8	12060.0	12572.4	12068.8
37.5°	10267.7	10199.6	10247.9	9557.4	9038.4	8750.3	8987.8	10221.5	13082.6	13839.1	13199.1
40°	11332.1	11279.3	11285.9	10626.2	10021.4	9698.1	9889.5	11173.7	14254.8	15345.5	14558.2
42.5°	12488.8	12449.2	12317.3	11732.4	11052.8	10751.5	10927.4	12273.3	15512.7	17060.8	16049.2
45°	13784.1	13759.9	13636.8	12966.0	12187.6	11848.9	12086.4	13487.3	16777.1	18675.0	17546.8
47.5°	14903.5	14923.3	14907.9	14342.7	13535.6	13038.6	13322.3	14754.0	17953.7	20192.4	18982.9
50°	15442.2	15545.7	15697.4	15521.5	15020.0	14514.2	14569.2	15976.7	19075.2	21615.2	20359.5
52.5°	15160.8	15356.4	15769.9	16051.4	16244.9	16139.3	15992.0	17190.6	20130.8	22899.5	21661.4
55°	14111.8	14386.7	15072.8	15752.3	16739.8	17507.2	17700.7	18536.4	21160.0	24029.8	22892.9
57.5°	12200.8	12647.2	13262.9	14637.4	16300.0	18169.1	19693.1	20403.4	22250.7	25237.1	24181.6
60°	8924.1	9522.2	10287.5	12332.7	14760.5	17815.1	21388.7	23271.2	23801.1	26800.8	25859.5
62.5°	5711.1	6080.6	6784.3	8710.8	11501.4	16000.9	21907.7	26855.7	26429.1	29364.9	28375.3
65°	3910.1	4147.6	4791.9	5873.9	7435.2	11910.5	20517.8	29543.1	30603.0	33428.9	32676.8
67.5°	2841.3	3021.6	3571.4	4519.2	4844.7	7048.2	15921.6	29419.9	34660.4	37616.1	36446.1
70°	2071.5	2199.1	2660.9	3571.4	3727.5	3921.0	9645.4	25008.5	34572.4	38728.8	37327.9
72.5°	1535.0	1623.0	1933.0	2770.9	3017.2	2647.8	4774.3	18175.8	29708.0	35029.9	33906.1
75°	1110.6	1176.5	1405.3	2120.0	2414.6	2016.6	2381.7	10621.8	20722.3	24641.2	24839.1
77.5°	848.9	899.4	1049.0	1552.6	1933.0	1513.0	1477.8	4886.5	9825.6	9874.0	10428.2
80°	681.7	714.7	796.1	1093.0	1482.3	1132.5	963.2	1972.6	3105.1	2628.0	2757.7
82.5°	501.4	556.4	672.9	767.5	1060.0	780.6	587.1	996.2	1180.9	1016.0	1024.8
85°	285.9	323.3	406.8	549.8	677.3	477.2	336.5	442.0	549.8	450.8	402.4
87.5°	101.2	131.9	143.0	215.6	294.7	197.9	129.8	127.5	180.3	134.2	112.1
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°	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2	6076.2
2.5°	6120.2	6109.2	6065.2	6005.8	5944.3	5884.8	5865.0	5823.3	5794.7	5779.3	5796.9
5°	6243.3	6208.1	6104.8	5972.8	5834.3	5684.8	5579.2	5482.4	5412.0	5346.1	5372.4
7.5°	6419.3	6357.7	6179.5	5948.6	5702.4	5453.8	5269.1	5128.4	5033.8	4972.2	4985.4
10°	6623.8	6529.2	6256.5	5911.3	5530.8	5174.5	4956.8	4835.8	4776.5	4743.5	4752.3
12.5°	6859.1	6724.9	6335.7	5825.5	5269.1	4862.3	4712.7	4677.6	4679.7	4681.9	4686.3
15°	7149.4	6962.4	6399.5	5638.5	4928.2	4622.5	4596.2	4653.4	4712.7	4741.3	4739.1
17.5°	7477.1	7213.1	6410.5	5330.7	4593.9	4468.6	4552.2	4675.3	4765.5	4805.1	4813.9
20°	7828.8	7468.3	6331.3	4895.3	4319.0	4343.2	4492.8	4651.1	4750.2	4800.7	4813.9
22.5°	8231.4	7740.9	6142.1	4437.8	4094.8	4206.9	4382.9	4536.8	4640.2	4690.7	4703.9
25°	8691.0	8046.6	5845.3	4053.0	3901.3	4053.0	4228.9	4356.5	4440.0	4486.2	4499.4
27.5°	9201.1	8365.4	5449.4	3747.3	3731.9	3894.7	4039.8	4138.7	4182.7	4217.9	4231.1
30°	9713.5	8655.7	4970.0	3516.4	3584.5	3738.5	3841.9	3885.9	3899.1	3905.7	3921.0
32.5°	10267.7	8906.4	4466.4	3325.1	3443.8	3586.8	3648.4	3668.2	3606.6	3564.7	3578.0
35°	10938.5	9174.8	3973.8	3173.3	3305.3	3428.4	3448.2	3430.7	3358.1	3272.3	3276.7
37.5°	11767.5	9509.0	3580.2	3065.6	3175.6	3256.9	3232.7	3228.3	3234.9	3133.7	3140.4
40°	12783.5	9944.4	3292.1	2982.0	3070.0	3087.6	3019.4	3056.8	3089.8	2935.8	2940.2
42.5°	13911.7	10470.1	3109.5	2924.8	2982.0	2940.2	2834.6	2876.5	2872.0	2669.7	2667.6
45°	15061.8	11041.8	3045.8	2883.0	2900.6	2817.1	2700.6	2711.5	2619.2	2436.6	2443.2
47.5°	16205.4	11655.4	3085.4	2847.9	2799.5	2705.0	2614.8	2566.4	2430.1	2293.6	2293.6
50°	17326.9	12299.7	3230.5	2777.5	2660.9	2606.0	2540.0	2454.3	2309.1	2192.6	2183.8
52.5°	18367.1	12948.4	3393.3	2660.9	2487.2	2520.2	2478.4	2379.4	2236.5	2117.8	2120.0
55°	19352.3	13597.2	3457.0	2500.4	2324.5	2445.4	2421.3	2238.7	2067.2	1970.5	1961.6
57.5°	20425.5	14377.9	3386.7	2295.9	2192.6	2359.7	2267.3	2065.0	1966.1	1893.5	1886.8
60°	21912.0	15602.8	3234.9	2043.0	2067.2	2232.1	2073.8	1990.2	1882.4	1801.1	1796.7
62.5°	24381.7	17887.7	2990.8	1792.3	1919.8	2043.0	1981.4	1897.9	1787.9	1708.7	1708.7
65°	28032.2	21063.2	2531.2	1596.5	1754.9	1858.2	1882.4	1798.9	1684.5	1600.9	1605.4
67.5°	31111.0	23055.6	1915.4	1433.9	1585.6	1708.7	1776.9	1695.6	1574.6	1493.2	1495.4
70°	30941.7	21608.6	1462.4	1273.3	1436.0	1561.4	1649.3	1585.6	1455.8	1378.8	1385.5
72.5°	27482.5	18076.8	1183.2	1110.6	1284.3	1407.4	1513.0	1464.6	1332.7	1257.9	1257.9
75°	20190.1	12831.9	945.7	945.7	1095.2	1246.9	1363.5	1332.7	1211.8	1159.0	1143.6
77.5°	8510.6	5383.5	741.1	785.0	910.4	1071.0	1216.2	1227.1	1121.6	1187.6	1077.6
80°	2262.9	1484.4	565.2	618.0	714.7	884.1	1057.8	1053.4	939.0	877.4	815.9
82.5°	862.0	585.0	402.4	435.4	516.8	677.3	837.8	864.3	749.9	648.7	648.7
85°	332.1	250.7	248.5	261.7	301.2	448.6	633.3	655.4	565.2	479.4	494.8
87.5°	85.8	74.7	92.4	87.9	138.6	239.7	362.8	376.1	345.2	200.1	285.9
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)