

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: P971536

Luminaire Tested: **NAV-SB6D-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54519.8 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - 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

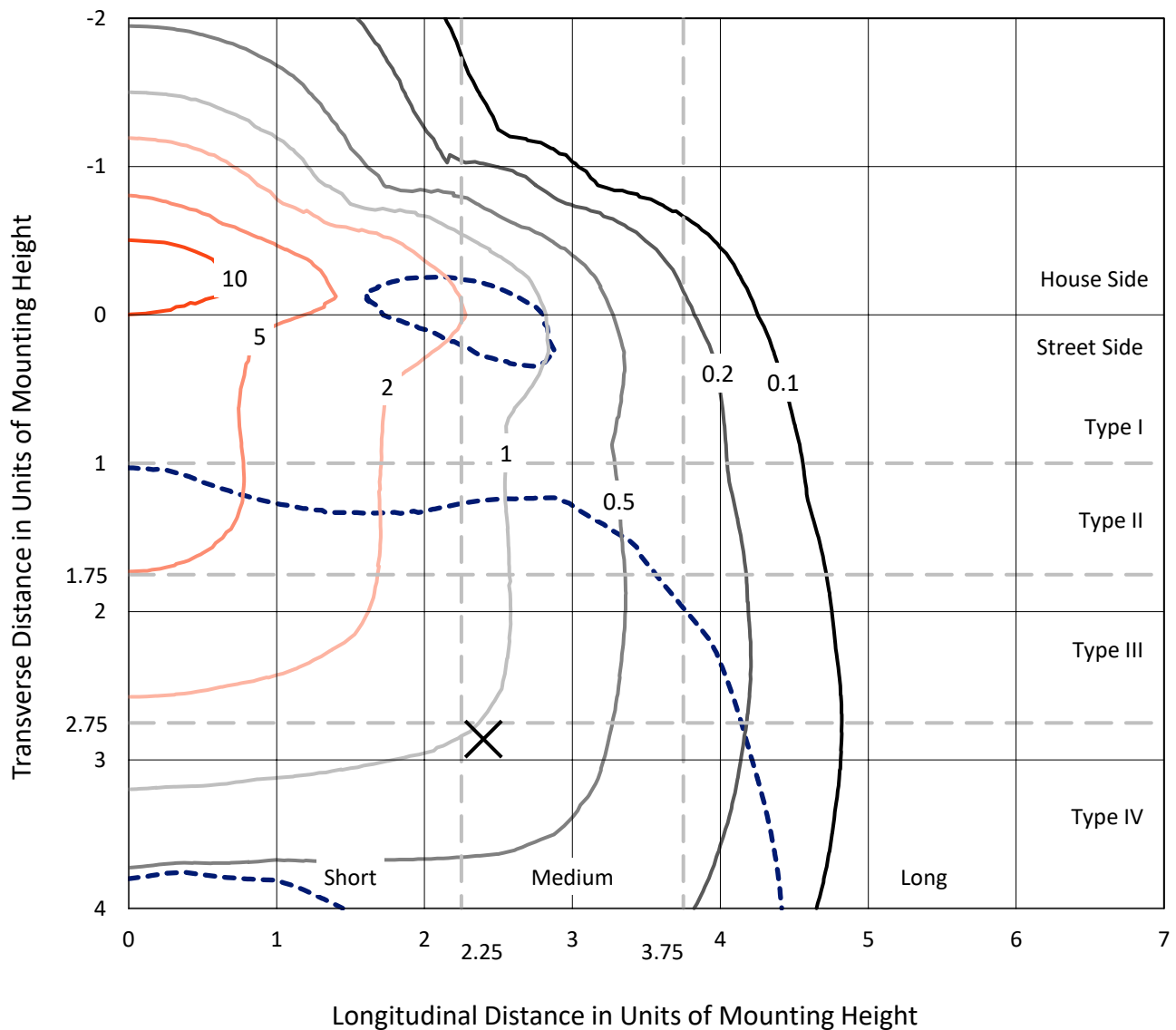


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Iso-Footcandle Lines of Horizontal Illumination

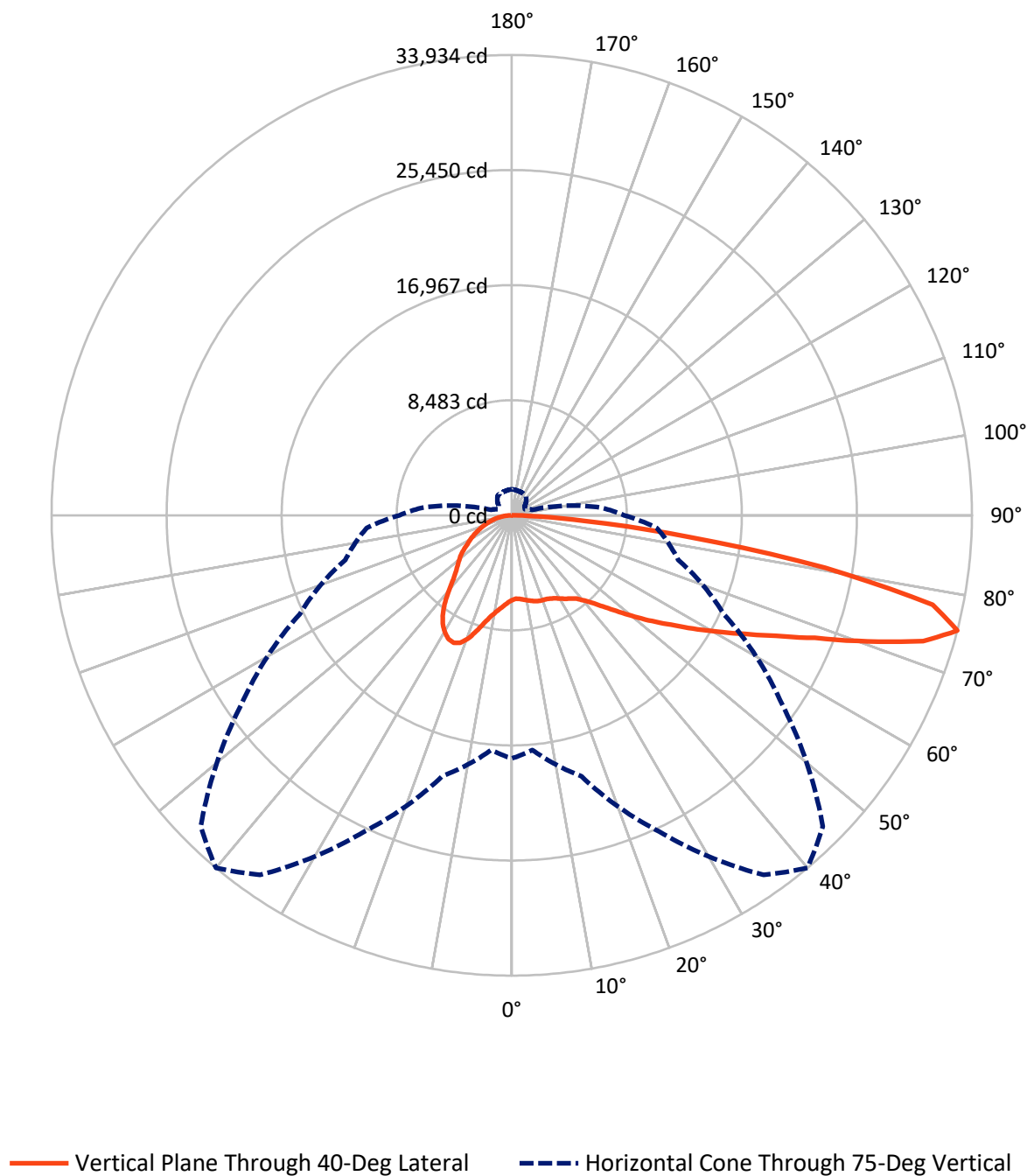
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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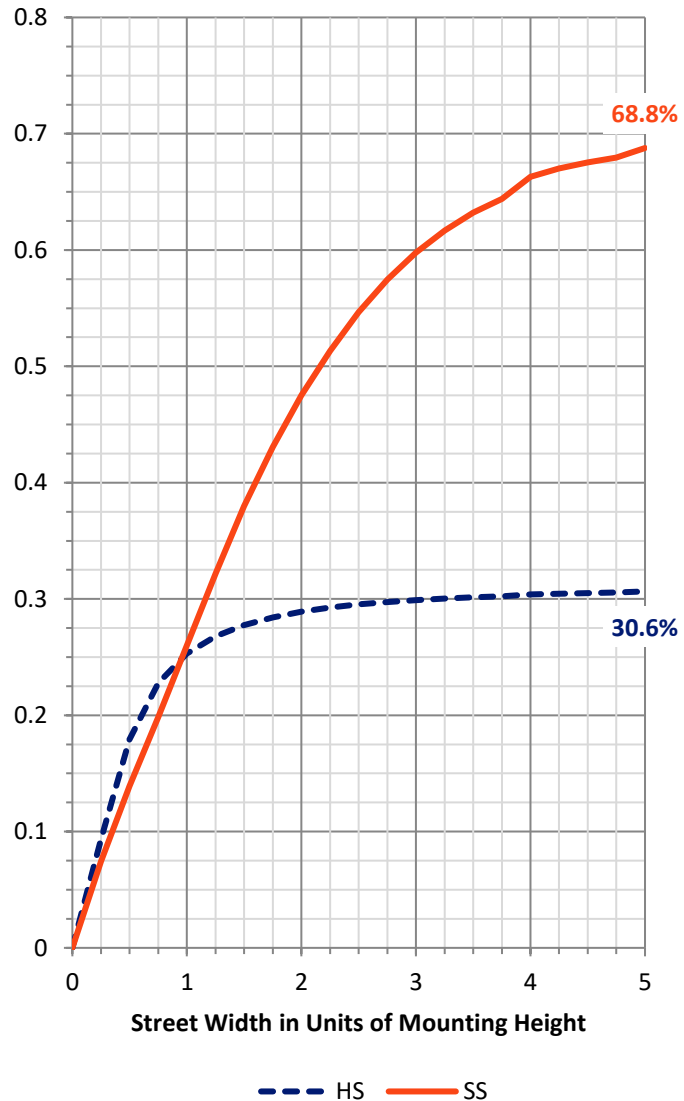
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16892.0	0.0	16892.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	37627.7	0.0	37627.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	54519.8	0.0	54519.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.3	1.1
10°-20°	2089.4	3.8
20°-30°	3815.1	7.0
30°-40°	5410.8	9.9
40°-50°	7306.2	13.4
50°-60°	9828.8	18.0
60°-70°	12475.0	22.9
70°-80°	11321.8	20.8
80°-90°	1650.4	3.0
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°	54519.8	100.0
0°-180°	54519.8	100.0

Coefficient of Utilization



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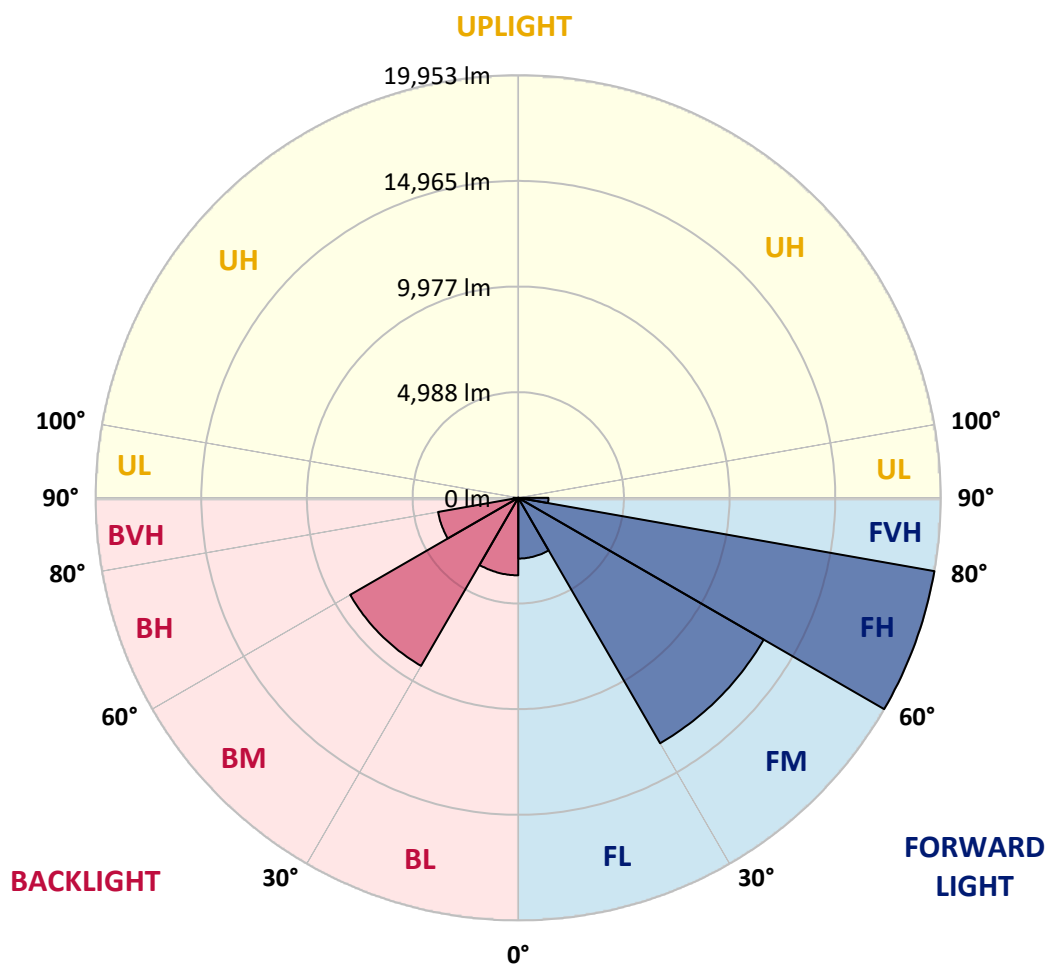
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2867.8	5.3			
FM	(30°-60°)	13383.4	24.5			
FH	(60°-80°)	19953.4	36.6			G5
FVH	(80°-90°)	1423.1	2.6			G5
BL	(0°-30°)	3659.0	6.7	B4/5000		
BM	(30°-60°)	9162.4	16.8	B5		
BH	(60°-80°)	3843.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	227.2	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4
2.5°	6139.0	6173.7	6165.0	6153.5	6153.5	6156.4	6153.5	6173.7	6194.0	6214.2	6245.9
5°	6202.6	6237.3	6219.9	6205.5	6194.0	6191.0	6182.4	6179.4	6191.0	6217.0	6260.4
7.5°	6326.9	6361.7	6335.6	6309.6	6286.4	6274.8	6263.4	6245.9	6237.3	6251.8	6312.5
10°	6465.7	6500.4	6468.7	6422.3	6384.7	6370.3	6358.8	6341.4	6329.8	6338.5	6405.0
12.5°	6604.6	6639.2	6595.9	6532.2	6483.1	6474.4	6460.0	6454.2	6451.2	6448.4	6514.9
15°	6734.7	6763.6	6708.6	6633.5	6581.4	6567.0	6552.5	6561.1	6575.6	6593.0	6668.1
17.5°	6835.8	6864.8	6783.9	6685.5	6636.4	6630.5	6621.9	6650.8	6691.3	6734.7	6827.2
20°	6928.4	6957.3	6853.3	6720.2	6662.4	6662.4	6665.3	6725.9	6783.9	6847.4	6974.7
22.5°	7058.6	7081.6	6954.4	6772.3	6688.4	6694.2	6717.3	6778.0	6850.3	6937.1	7113.5
25°	7252.3	7269.6	7113.5	6870.6	6775.1	6792.5	6812.8	6841.7	6911.1	7012.2	7249.4
27.5°	7564.6	7579.1	7373.7	7044.1	6899.5	6928.4	6957.3	6937.1	6968.9	7055.6	7359.3
30°	8004.1	8012.7	7752.5	7315.8	7110.5	7125.1	7130.8	7047.0	6986.2	7055.6	7437.3
32.5°	8524.6	8521.7	8212.3	7645.6	7350.6	7336.1	7286.9	7122.1	6980.5	7041.1	7506.7
35°	9331.4	9299.5	8900.5	8108.2	7622.4	7532.7	7417.1	7206.0	7009.4	7026.7	7567.5
37.5°	10667.3	10569.0	10016.7	8865.8	8027.2	7798.8	7628.2	7341.9	7073.0	7020.9	7639.7
40°	12173.8	12049.5	11442.3	9904.0	8634.5	8267.2	7992.5	7535.7	7177.0	7047.0	7746.7
42.5°	13960.9	13784.5	13131.0	11127.1	9403.7	8871.6	8458.1	7781.4	7330.4	7130.8	7891.4
45°	16155.6	15921.4	14996.2	12506.4	10372.4	9663.9	9111.6	8154.5	7564.6	7292.8	8108.2
47.5°	18373.5	18431.4	17115.7	14085.2	11534.8	10641.2	9929.9	8715.5	7905.8	7553.0	8458.1
50°	20730.3	20770.7	19223.7	15834.7	12853.4	11745.9	10849.5	9343.0	8380.0	7923.1	8981.5
52.5°	22569.4	22575.1	21138.0	17665.2	14226.9	12960.4	11841.3	10060.1	8929.4	8414.7	9678.4
55°	23720.2	23705.8	22479.7	19397.2	15805.8	14235.6	12940.1	10875.6	9600.3	8993.0	10554.5
57.5°	24555.9	24512.6	23405.1	20886.4	17488.8	15742.2	14183.5	11800.8	10392.6	9681.2	11708.3
60°	24874.0	24847.9	24032.6	22173.2	19258.4	17407.8	15617.8	12836.1	11291.9	10493.8	13191.7
62.5°	24995.4	25044.6	24648.5	23419.5	21152.4	19252.7	17193.8	14073.7	12304.0	11413.4	14756.1
65°	25423.4	25513.1	25432.1	25050.4	23292.3	21412.7	19284.5	15545.6	13408.6	12399.4	16389.9
67.5°	26270.6	26360.3	26395.0	27002.3	25906.4	24104.8	21892.7	17378.9	14701.2	13423.1	17618.8
70°	26250.5	26224.4	26837.5	28555.1	29179.7	27832.1	25408.9	19634.3	16242.5	14273.2	17775.0
72.5°	23893.8	23685.5	25134.2	28537.7	31903.6	31724.4	29703.1	22543.3	17572.6	14377.3	15424.1
75°	17925.4	17370.2	19929.3	25718.4	32357.6	33933.5	32432.7	24347.7	17257.4	12703.0	10733.8
77.5°	7665.8	7107.7	10123.7	19038.7	28959.9	31721.5	29928.7	21242.1	13775.8	8400.3	5271.5
80°	2006.8	2003.9	3059.4	8631.6	19695.1	23425.2	20550.9	13718.0	7871.1	3001.5	1454.5
82.5°	829.9	809.6	1124.8	3357.2	9623.4	13145.4	10728.1	6118.7	2842.5	812.5	482.9
85°	309.4	306.5	546.5	1159.6	3394.8	5421.8	3924.0	1564.4	708.5	396.2	216.9
87.5°	86.7	83.8	118.6	401.9	827.0	1255.0	670.9	257.4	199.6	156.1	63.7
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°	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4	6234.4
2.5°	6254.7	6269.1	6295.1	6315.3	6341.4	6370.3	6410.8	6436.8	6462.8	6480.2	6468.7
5°	6280.7	6312.5	6379.0	6445.5	6523.6	6595.9	6679.7	6740.4	6789.6	6804.1	6809.9
7.5°	6338.5	6390.6	6503.3	6616.1	6740.4	6859.0	6980.5	7084.6	7168.4	7200.2	7203.1
10°	6439.7	6509.2	6668.1	6827.2	6992.0	7174.2	7330.4	7480.8	7599.2	7648.4	7651.3
12.5°	6567.0	6653.7	6861.9	7081.6	7310.1	7561.6	7764.1	7949.2	8096.7	8163.1	8163.1
15°	6731.8	6844.5	7110.5	7405.5	7741.0	8090.8	8348.2	8553.5	8718.3	8799.3	8793.5
17.5°	6911.1	7061.4	7396.8	7842.2	8322.2	8782.0	9082.7	9233.1	9403.7	9481.8	9478.9
20°	7084.6	7269.6	7749.6	8397.3	9036.4	9525.1	9768.0	9808.5	9820.0	9828.7	9851.9
22.5°	7263.9	7512.5	8192.0	9097.2	9782.5	10120.7	10155.5	9982.0	9739.1	9626.3	9658.2
25°	7460.5	7790.1	8770.4	9869.2	10424.5	10464.9	10198.9	9776.7	9316.9	9105.8	9137.7
27.5°	7651.3	8111.1	9464.3	10606.6	10887.0	10531.4	9958.9	9360.3	8805.1	8582.4	8608.5
30°	7842.2	8478.3	10230.6	11251.4	11098.2	10366.5	9580.1	8912.1	8354.0	8119.7	8145.8
32.5°	8035.9	8906.3	11112.6	11717.0	11060.6	10016.7	9108.7	8408.9	7917.3	7671.5	7703.4
35°	8255.7	9432.6	11948.3	11971.5	10809.0	9502.0	8487.0	7807.4	7379.5	7182.9	7226.2
37.5°	8541.9	10100.6	12685.7	12035.0	10369.5	8747.2	7715.0	7096.1	6743.4	6653.7	6717.3
40°	8897.6	10904.5	13249.6	11933.9	9718.8	7830.6	6870.6	6376.1	6176.5	6196.8	6266.2
42.5°	9360.3	11803.7	13645.7	11673.6	8813.8	6885.0	6130.3	5910.6	6006.0	6087.0	6162.1
45°	9961.8	12737.8	13891.5	11231.2	7790.1	6084.0	5693.7	5745.7	5818.0	5826.7	5884.5
47.5°	10730.9	13683.3	14053.5	10563.2	6746.2	5520.1	5416.1	5427.7	5413.1	5352.4	5398.7
50°	11690.9	14602.9	14198.0	9678.4	5858.5	5167.4	5028.5	4988.1	4788.6	4591.9	4617.9
52.5°	12784.0	15447.3	14258.8	8579.6	5167.4	4872.4	4646.8	4392.4	4019.4	3958.7	3978.9
55°	13998.5	16228.0	14102.6	7229.1	4586.2	4493.6	4152.4	3845.9	3805.4	3753.3	3762.1
57.5°	15450.1	17069.4	13784.5	5722.6	3990.5	4051.2	3718.7	3753.3	3681.1	3600.1	3585.7
60°	17037.7	17939.9	13226.4	4349.1	3374.6	3498.9	3605.8	3603.0	3582.8	3516.3	3493.1
62.5°	18466.1	18512.3	12127.6	3331.1	2833.8	3070.9	3363.0	3360.1	3342.7	3305.1	3290.7
65°	19316.2	18425.6	10294.3	2622.8	2388.5	2718.2	3033.4	3056.4	3059.4	3056.4	3056.4
67.5°	19165.9	17410.6	7778.5	2087.8	2021.3	2359.5	2706.6	2738.4	2761.6	2767.3	2773.1
70°	17465.6	15181.2	5072.0	1665.6	1694.5	2044.4	2397.2	2428.9	2449.2	2472.4	2483.9
72.5°	13613.9	11161.7	2903.2	1347.5	1408.2	1772.6	2090.7	2128.2	2139.8	2183.2	2200.6
75°	8296.1	6564.1	1567.3	1061.3	1156.7	1515.3	1787.1	1830.4	1850.6	1902.7	1908.4
77.5°	3944.2	2842.5	893.5	827.0	931.1	1237.6	1509.4	1558.6	1503.7	1532.6	1509.4
80°	1333.0	1055.4	563.9	630.4	711.3	965.9	1208.7	1257.9	1142.2	1136.4	1124.8
82.5°	465.6	427.9	358.5	419.3	459.8	691.1	913.8	977.3	850.1	847.3	806.8
85°	182.1	173.5	199.6	228.5	274.7	425.1	601.5	633.2	523.4	422.2	416.4
87.5°	37.6	40.5	49.2	52.1	83.8	147.5	216.9	266.0	211.0	179.3	164.8
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)