

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: P970364

Luminaire Tested: **NAV-SB6B-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970364
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-SB6B-735-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA 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: 25558.4 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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



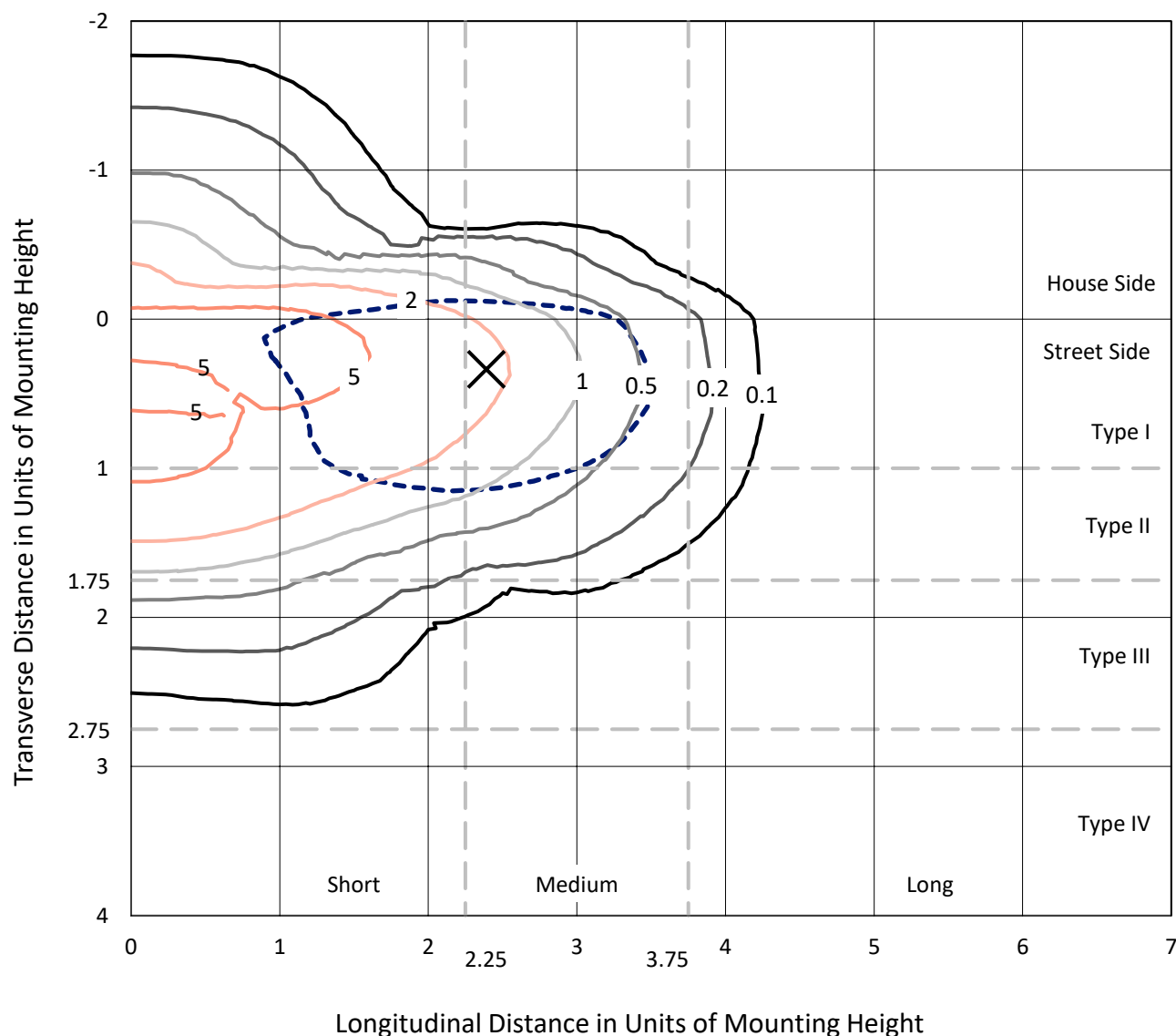
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Iso-Footcandle Lines of Horizontal Illumination

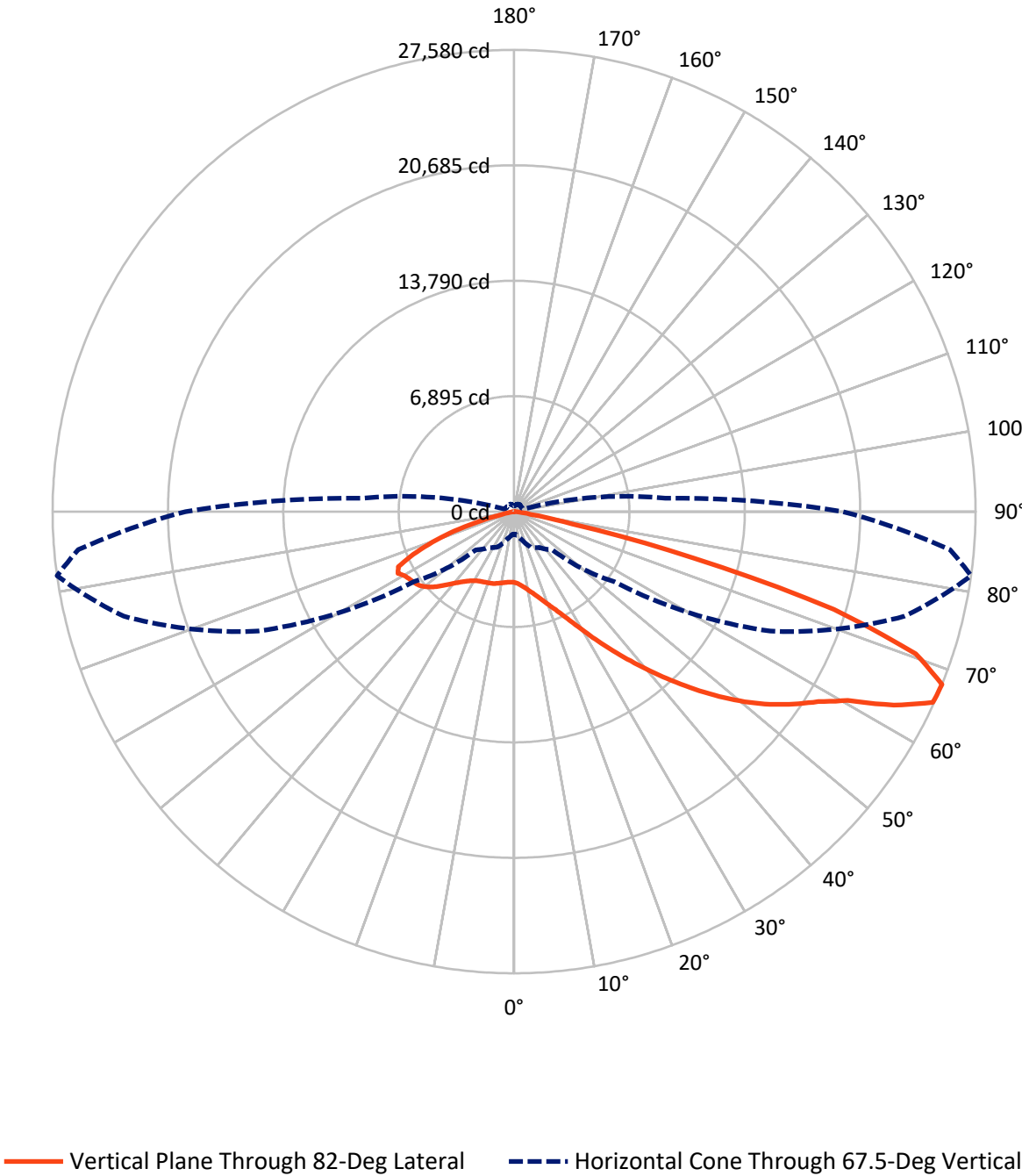
× Max cd

--- 1/2 Max cd



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Luminous Intensity Polar Plot



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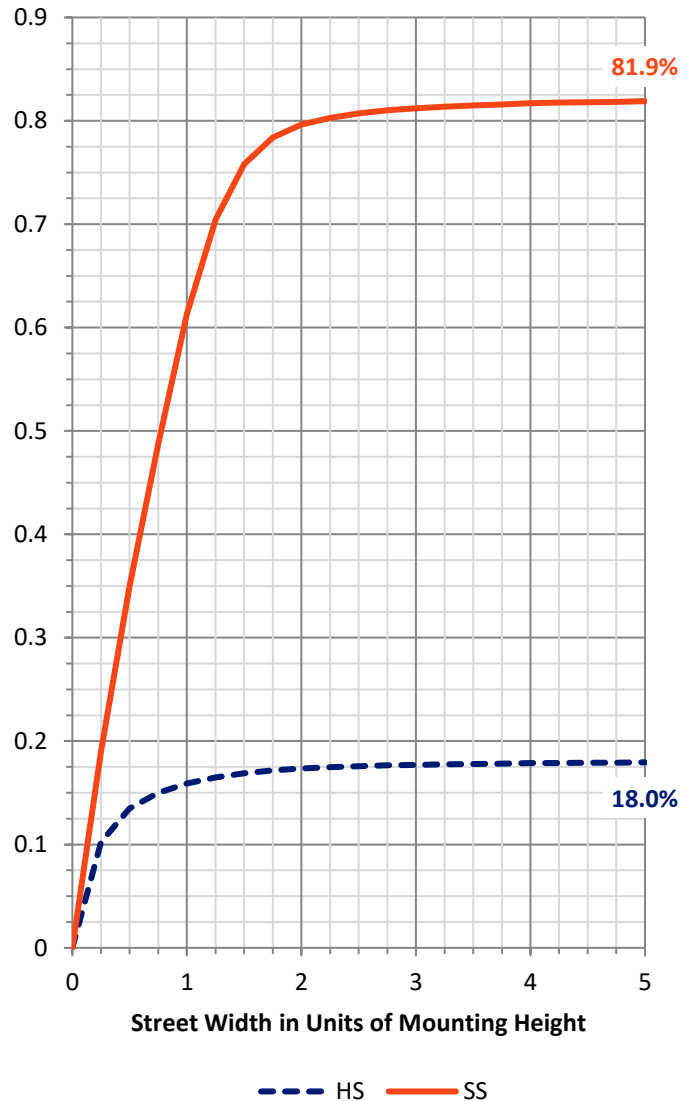
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4629.7	0.0	4629.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20928.7	0.0	20928.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	25558.4	0.0	25558.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.2	1.5
10°-20°	980.3	3.8
20°-30°	1570.1	6.1
30°-40°	2776.4	10.9
40°-50°	4864.5	19.0
50°-60°	6487.9	25.4
60°-70°	6039.9	23.6
70°-80°	2318.1	9.1
80°-90°	144.0	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°	25558.4	100.0
0°-180°	25558.4	100.0

Coefficient of Utilization



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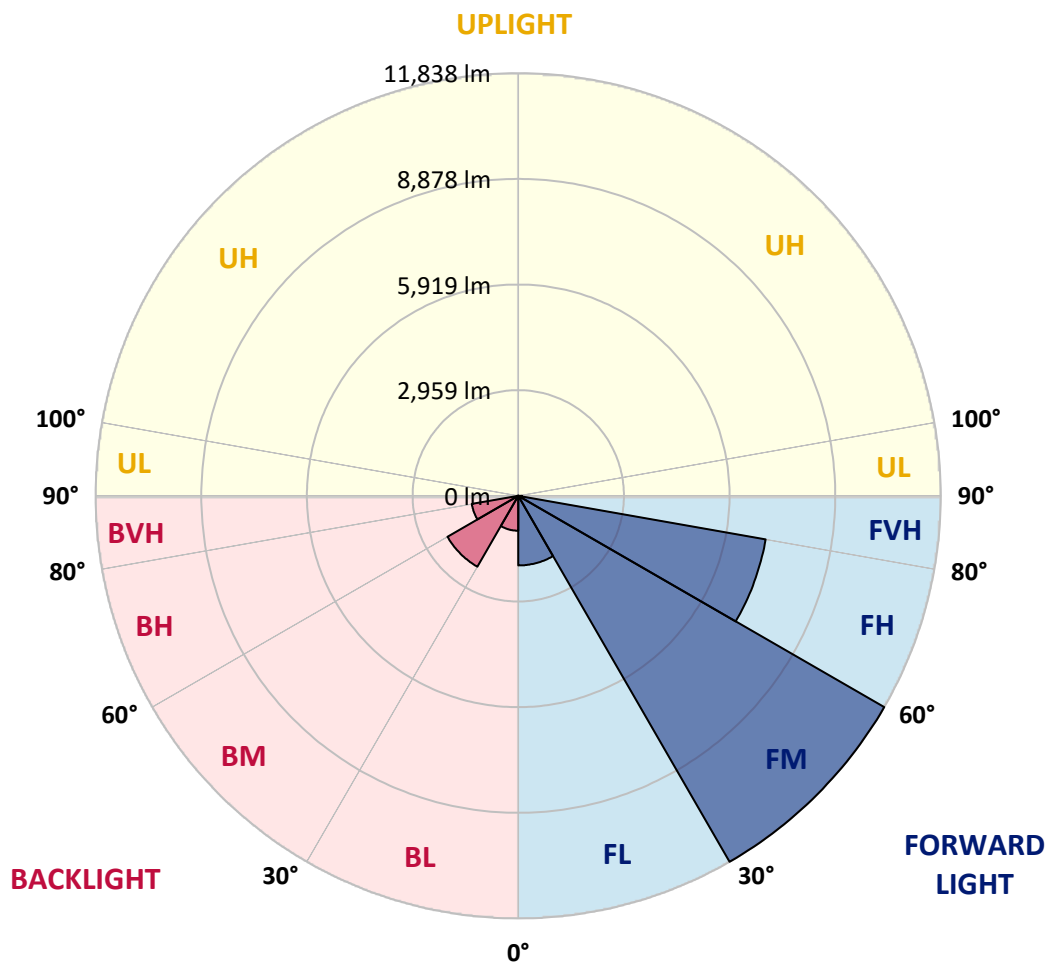
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1949.8	7.6			
FM	(30°-60°)	11837.6	46.3			
FH	(60°-80°)	7036.6	27.5			G3/7500
FVH	(80°-90°)	104.7	0.4			G2/225
BL	(0°-30°)	977.8	3.8	B2/1000		
BM	(30°-60°)	2291.2	9.0	B2/2500		
BH	(60°-80°)	1321.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	39.3	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2
2.5°	4475.3	4501.0	4486.2	4478.9	4466.0	4447.6	4432.9	4386.9	4339.0	4307.8	4296.7
5°	4565.3	4591.2	4589.3	4596.7	4605.8	4611.4	4607.7	4556.2	4488.1	4434.8	4403.4
7.5°	4488.1	4517.6	4541.5	4578.3	4642.6	4710.8	4743.9	4732.8	4662.9	4589.3	4550.7
10°	4269.1	4300.4	4357.5	4443.9	4580.1	4727.3	4850.6	4907.6	4863.5	4782.5	4729.1
12.5°	3867.9	3899.2	4011.5	4199.2	4427.4	4683.1	4918.7	5071.4	5082.5	5001.5	4939.0
15°	3417.1	3448.4	3568.0	3803.6	4151.4	4561.7	4955.5	5244.4	5341.9	5272.0	5196.5
17.5°	3137.4	3165.0	3255.2	3444.7	3807.3	4318.8	4942.7	5428.4	5651.0	5595.9	5505.7
20°	3052.8	3076.7	3119.1	3251.5	3553.3	4066.7	4858.0	5601.4	5984.2	5952.9	5851.6
22.5°	3143.0	3165.0	3177.9	3236.8	3426.4	3901.0	4751.3	5778.0	6370.6	6374.3	6251.0
25°	3350.9	3373.0	3358.2	3395.0	3477.8	3849.6	4710.8	5986.0	6856.3	6896.8	6757.0
27.5°	3693.2	3695.0	3660.1	3658.2	3671.0	3926.9	4753.0	6208.6	7469.1	7544.6	7371.6
30°	4379.5	4351.9	4217.6	4072.2	4006.0	4158.7	4870.8	6471.7	8192.3	8326.6	8109.5
32.5°	5437.6	5397.1	5150.5	4802.7	4453.1	4532.2	5082.5	6771.7	8979.9	9222.7	8957.8
35°	6585.8	6574.9	6317.2	5800.1	5189.2	5064.0	5426.6	7165.5	9839.2	10225.6	9911.0
37.5°	7653.2	7647.6	7500.4	6891.3	6148.0	5805.6	5978.6	7680.7	10759.3	11318.7	10947.0
40°	8628.4	8645.0	8497.8	7953.1	7204.1	6757.0	6729.4	8317.5	11782.4	12509.3	12067.6
42.5°	9471.2	9489.6	9340.5	8937.6	8247.5	7809.6	7651.3	9097.6	12781.6	13788.2	13265.6
45°	10043.5	10157.5	10135.5	9813.5	9318.5	8864.0	8759.0	10076.6	13920.6	15144.4	14531.5
47.5°	10205.4	10310.3	10475.9	10520.1	10218.3	9771.1	9896.3	11256.1	15072.5	16502.4	15805.0
50°	9806.1	9903.7	10247.7	10705.9	10915.7	10777.7	11002.1	12520.3	16252.1	17856.7	17054.4
52.5°	9018.6	9117.9	9552.2	10277.2	11132.8	11567.1	12111.8	13766.1	17394.9	19139.3	18237.6
55°	7879.5	7984.3	8541.9	9362.7	10718.8	11892.8	13037.4	15010.0	18441.9	20293.1	19304.8
57.5°	6330.1	6407.4	6987.0	8135.2	9677.3	11569.0	13720.0	16368.0	19428.2	21426.6	20363.0
60°	4125.6	4193.7	4867.2	6148.0	7951.2	10487.0	13856.3	17882.5	20738.3	22900.6	21789.0
62.5°	2743.6	2789.6	3189.0	4129.3	5599.6	8409.4	13059.4	19091.4	22659.5	25465.7	24234.6
65°	1882.4	1928.4	2327.8	2982.9	3617.7	5562.8	10768.4	18931.3	24400.2	27502.7	26047.2
67.5°	1343.3	1381.9	1720.6	2338.8	2618.6	3231.3	7299.8	16885.1	24149.9	27580.0	26144.7
70°	962.4	984.5	1264.1	1821.7	2081.2	1941.4	4059.3	12914.1	21145.0	25467.6	24153.6
72.5°	673.5	680.8	877.7	1387.4	1676.4	1416.9	1932.1	8610.0	15992.7	19989.4	18725.2
75°	456.3	465.6	590.7	1017.6	1345.1	1082.0	1023.2	4616.9	9388.4	11064.8	9918.3
77.5°	279.7	283.4	380.9	695.6	1006.6	824.4	658.8	1956.1	3632.4	3566.2	3039.9
80°	158.3	158.3	242.9	432.4	686.3	531.8	461.9	831.8	1150.0	1010.2	890.6
82.5°	88.4	90.2	176.6	268.7	454.5	314.7	253.9	384.6	496.8	439.8	382.7
85°	36.8	40.5	108.5	127.0	217.1	156.4	103.0	162.0	184.0	163.8	119.6
87.5°	3.7	5.5	33.1	23.9	25.7	31.3	14.8	31.3	25.7	25.7	18.4
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°	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2	4234.2
2.5°	4261.7	4234.2	4164.3	4083.3	3976.5	3925.0	3855.1	3807.3	3766.8	3770.5	3733.7
5°	4344.6	4274.7	4118.2	3923.2	3680.3	3507.3	3323.3	3196.4	3093.2	3071.2	3021.5
7.5°	4458.6	4348.3	4074.1	3722.6	3312.3	3001.3	2723.4	2544.9	2418.0	2377.5	2337.0
10°	4605.8	4445.7	4017.0	3470.5	2879.8	2484.2	2186.1	2046.2	1959.7	1930.3	1908.2
12.5°	4777.0	4558.1	3941.5	3163.1	2434.5	2053.6	1864.1	1794.2	1766.5	1757.4	1751.8
15°	4992.3	4697.9	3827.5	2798.9	2057.3	1790.5	1709.5	1700.3	1704.0	1700.3	1698.4
17.5°	5248.1	4850.6	3641.6	2423.5	1803.4	1656.1	1626.7	1634.1	1643.3	1641.4	1637.7
20°	5527.8	5001.5	3404.2	2090.4	1630.4	1560.5	1543.9	1551.2	1558.6	1554.9	1553.1
22.5°	5846.1	5163.4	3141.1	1831.0	1514.4	1472.1	1453.8	1455.5	1455.5	1448.2	1444.5
25°	6227.0	5341.9	2865.1	1647.0	1426.1	1393.0	1370.9	1363.6	1352.5	1330.4	1326.8
27.5°	6681.6	5531.4	2600.1	1518.1	1356.2	1324.9	1299.2	1280.7	1253.2	1216.4	1212.7
30°	7193.1	5761.4	2375.6	1437.2	1300.9	1269.7	1240.2	1212.7	1172.2	1126.2	1122.5
32.5°	7794.8	6008.0	2211.8	1383.7	1251.3	1218.2	1183.3	1150.0	1105.9	1060.0	1061.8
35°	8512.5	6306.1	2116.1	1347.0	1212.7	1168.5	1129.9	1093.1	1060.0	1019.5	1015.8
37.5°	9290.9	6622.6	2086.7	1328.6	1186.8	1118.8	1074.6	1048.9	1045.2	1021.3	1019.5
40°	10142.9	6998.1	2108.8	1317.5	1159.3	1070.9	1023.2	1017.6	1026.8	984.5	986.4
42.5°	11044.5	7443.3	2145.6	1304.6	1120.6	1023.2	977.1	977.1	969.8	910.9	910.9
45°	12019.8	7956.8	2182.4	1273.4	1074.6	975.3	940.3	927.4	896.2	839.1	837.2
47.5°	13002.4	8479.3	2210.0	1216.4	1019.5	934.8	903.5	874.0	828.1	776.5	774.7
50°	13935.4	8948.6	2180.6	1131.7	956.8	896.2	863.0	822.6	772.8	737.9	732.4
52.5°	14768.9	9355.3	2055.4	1032.3	890.6	855.7	826.3	783.9	743.4	706.6	702.9
55°	15494.0	9684.6	1834.6	938.5	831.8	820.7	791.3	737.9	682.6	651.4	647.7
57.5°	16189.6	9934.9	1558.6	861.2	778.4	782.1	737.9	690.0	638.6	605.4	601.7
60°	17115.1	10269.8	1278.9	789.5	721.3	732.4	684.5	649.5	585.2	542.8	537.3
62.5°	18594.6	10790.6	1015.8	701.1	655.1	658.8	638.6	596.2	519.0	469.2	465.6
65°	19768.6	10599.2	800.4	605.4	579.6	585.2	585.2	539.2	456.3	399.3	393.8
67.5°	19636.1	9075.6	638.6	511.6	507.9	511.6	524.4	485.7	404.9	358.9	351.5
70°	18088.6	7218.9	511.6	425.1	441.7	432.4	469.2	443.5	364.4	318.4	312.8
72.5°	14759.8	5200.2	390.1	351.5	338.6	353.3	423.2	399.3	303.6	252.2	246.6
75°	8624.8	2774.9	290.8	277.9	244.8	294.4	375.4	340.4	231.9	185.8	180.3
77.5°	2808.1	967.9	213.4	204.3	182.1	237.4	320.2	287.1	189.5	147.2	141.7
80°	752.7	292.5	145.3	134.4	117.8	176.6	253.9	228.2	136.1	95.7	93.9
82.5°	301.8	123.3	84.7	75.4	64.4	121.5	200.6	184.0	101.2	60.7	60.7
85°	97.5	40.5	31.3	23.9	29.4	75.4	119.6	125.2	71.8	31.3	23.9
87.5°	12.9	5.5	5.5	7.4	5.5	12.9	36.8	35.0	20.2	3.7	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)