

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: P970489

Luminaire Tested: **NAV-SB6B-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25769.5 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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

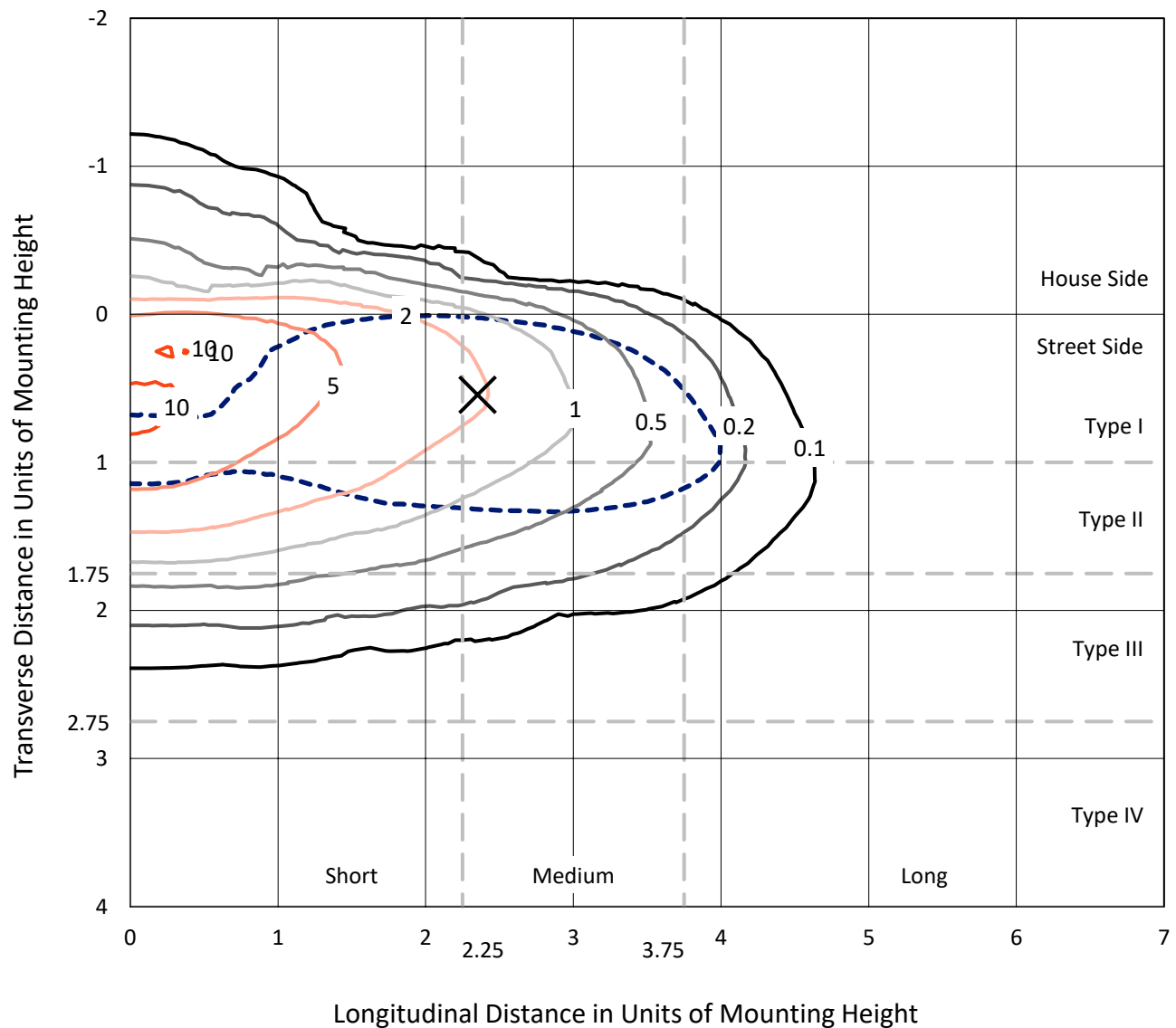


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Iso-Footcandle Lines of Horizontal Illumination

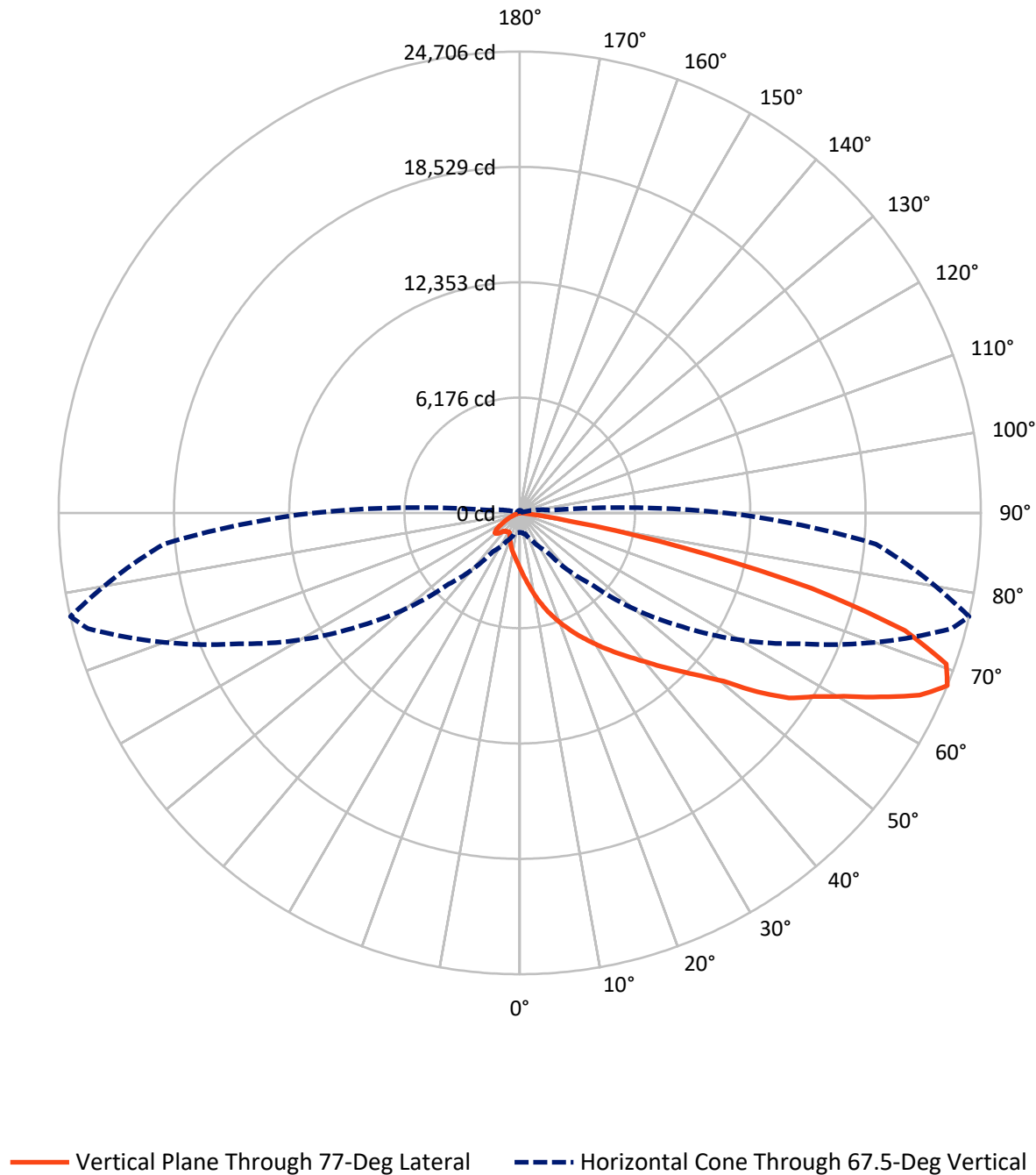
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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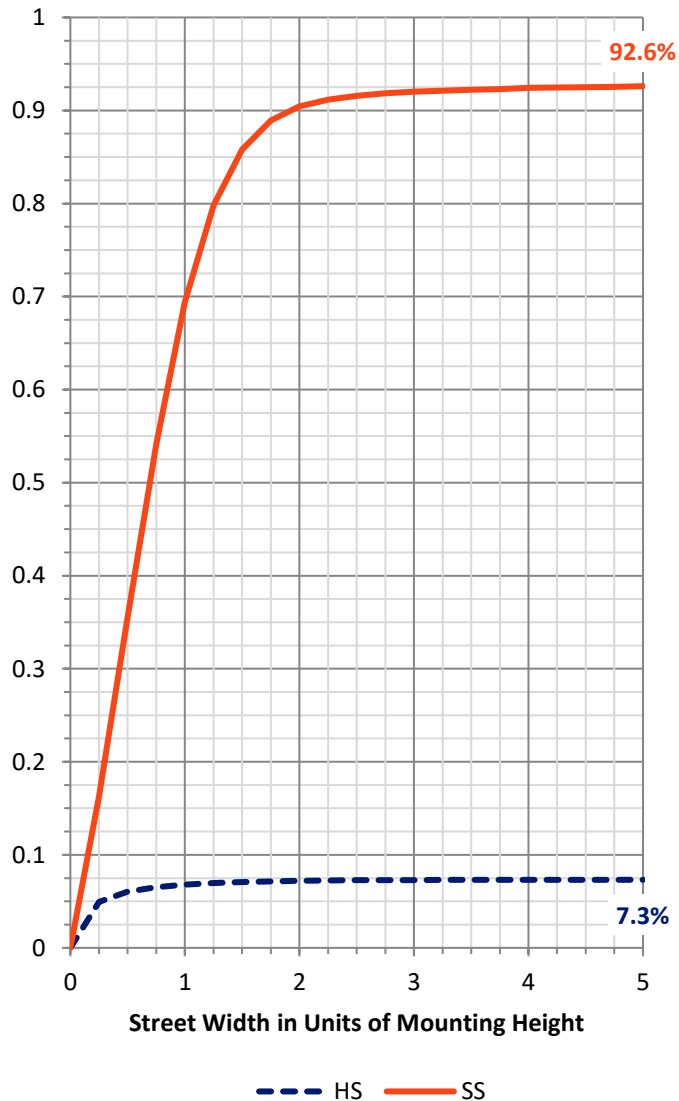
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1895.9	0.0	1895.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	23873.7	0.0	23873.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	25769.5	0.0	25769.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	1.2
10°-20°	1062.1	4.1
20°-30°	2049.6	8.0
30°-40°	3558.2	13.8
40°-50°	5166.4	20.0
50°-60°	5932.9	23.0
60°-70°	5150.9	20.0
70°-80°	2426.1	9.4
80°-90°	120.0	0.5
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°	25769.5	100.0
0°-180°	25769.5	100.0

Coefficient of Utilization



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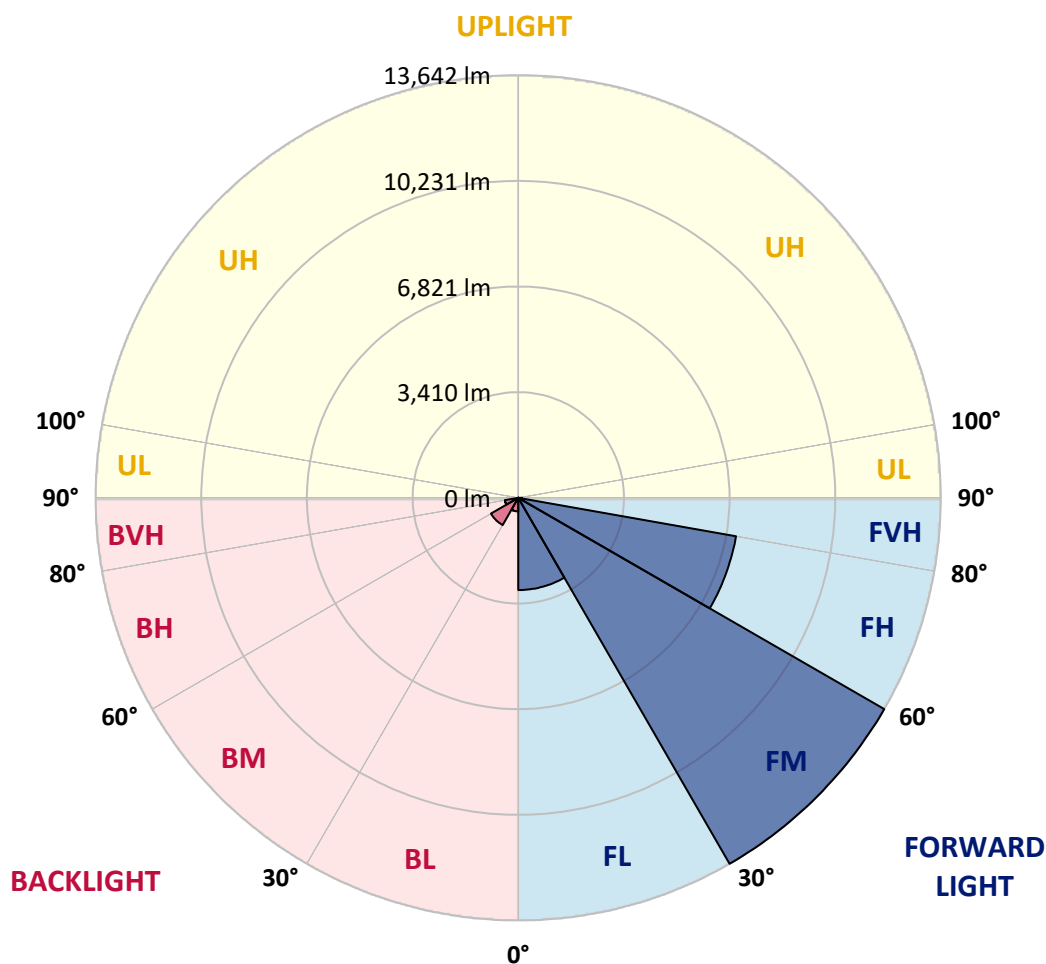
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2976.1	11.5			
FM	(30°-60°)	13641.7	52.9			
FH	(60°-80°)	7138.1	27.7			G3/7500
FVH	(80°-90°)	117.8	0.5			G2/225
BL	(0°-30°)	438.9	1.7	B1/500		
BM	(30°-60°)	1015.8	3.9	B2/2500		
BH	(60°-80°)	438.9	1.7	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6
2.5°	4114.1	4139.8	4103.0	4032.6	3927.0	3858.1	3690.1	3531.6	3355.6	3299.7	3123.6
5°	5015.1	5037.5	4995.8	4919.1	4778.2	4643.9	4423.0	4091.8	3747.7	3637.3	3325.2
7.5°	5682.4	5695.2	5679.2	5608.8	5474.3	5322.3	5075.9	4683.8	4173.4	4051.7	3573.3
10°	6162.4	6204.0	6199.2	6172.0	6082.5	5959.2	5696.7	5250.4	4650.2	4493.4	3853.3
12.5°	6480.9	6527.3	6554.5	6615.4	6610.5	6532.1	6301.7	5829.6	5125.5	4941.4	4168.6
15°	6573.7	6623.3	6727.3	6868.1	6993.0	7032.9	6871.3	6397.6	5648.8	5413.5	4491.9
17.5°	6520.8	6597.7	6722.6	6945.0	7218.6	7399.4	7381.8	6946.5	6124.1	5855.2	4808.7
20°	6637.7	6711.3	6809.0	6996.1	7314.6	7642.6	7773.9	7471.4	6596.1	6314.4	5141.5
22.5°	7284.2	7271.4	7281.0	7311.4	7501.9	7826.7	8097.1	7948.3	7063.4	6775.4	5493.6
25°	8308.3	8250.7	8153.2	7988.3	7940.3	8097.1	8378.8	8370.8	7556.2	7247.4	5853.6
27.5°	9482.9	9473.3	9244.5	8847.6	8623.5	8562.7	8697.2	8782.0	8044.3	7714.7	6215.3
30°	10607.8	10633.5	10324.6	9882.9	9471.7	9233.3	9111.6	9172.4	8540.4	8218.8	6588.1
32.5°	11587.2	11614.4	11278.4	10761.5	10252.6	9964.5	9708.5	9558.1	9081.2	8730.7	6997.8
35°	12414.5	12441.7	12056.0	11484.7	10942.3	10681.4	10391.9	9980.5	9625.3	9298.9	7453.8
37.5°	13153.8	13145.8	12628.9	12052.9	11520.0	11313.5	11161.5	10500.6	10185.4	9870.1	7959.5
40°	13590.7	13624.3	13182.6	12547.3	12030.4	11880.1	11870.4	11145.5	10831.9	10526.2	8513.1
42.5°	13718.7	13777.8	13457.8	12936.1	12467.3	12304.1	12555.3	11843.3	11583.9	11286.4	9138.8
45°	13488.3	13545.9	13400.2	13038.6	12764.9	12659.4	13144.2	12566.5	12387.3	12092.8	9844.5
47.5°	12816.2	12888.1	12923.4	12846.5	12843.4	12950.6	13672.3	13328.2	13341.0	13040.2	10662.3
50°	11515.2	11636.8	11960.0	12232.0	12652.9	13181.0	14185.9	14153.9	14416.3	14157.1	11727.9
52.5°	9150.1	9322.9	10436.7	11180.7	12126.5	13137.8	14750.8	15478.9	16303.0	15923.8	13230.6
55°	7353.0	7353.0	8258.7	9650.9	11099.1	12853.0	14997.3	16339.8	17588.0	17498.4	14288.4
57.5°	5994.4	6066.5	6644.2	7874.7	9612.6	12174.4	15149.3	16880.7	18623.3	18557.7	15322.1
60°	3699.7	3854.9	4946.2	6160.9	7921.1	10966.3	15053.3	17428.0	19879.5	19932.4	16567.1
62.5°	2083.5	2141.1	2627.6	4432.6	6159.2	9342.1	14318.7	17733.6	21486.2	21710.1	17850.5
65°	1438.6	1467.4	1654.7	2758.8	4269.4	7437.8	12883.3	17543.2	23095.9	23548.8	18938.6
67.5°	1045.0	1059.3	1176.2	1685.0	2533.2	5392.7	10633.5	16583.1	23948.8	24705.8	19146.6
70°	803.3	812.9	897.7	1107.3	1496.2	3328.5	7722.7	14674.0	23331.2	24235.3	18080.9
72.5°	652.9	662.5	728.1	819.3	992.1	1968.3	4680.7	11916.9	20604.4	21580.6	15392.5
75°	550.4	563.2	622.5	681.7	777.7	1264.1	2195.5	8298.7	15494.9	16135.0	10703.9
77.5°	305.7	281.7	505.6	564.9	656.1	800.1	1027.4	4883.8	8678.0	8855.6	4749.4
80°	190.4	196.8	401.7	454.5	504.1	403.2	470.5	1880.3	3008.4	2858.0	920.1
82.5°	11.2	25.6	308.8	328.0	345.6	172.8	177.6	638.5	724.9	665.7	163.2
85°	0.0	0.0	140.8	113.6	120.0	49.6	51.2	148.8	97.6	105.6	32.0
87.5°	0.0	0.0	0.0	3.2	0.0	4.8	9.6	12.8	4.8	6.4	11.2
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°	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6	2971.6
2.5°	3011.7	2899.6	2672.4	2450.0	2269.1	2101.0	1981.1	1867.4	1809.8	1806.7	1803.5
5°	3102.8	2867.5	2413.2	2011.5	1688.3	1429.0	1261.0	1140.9	1080.1	1059.3	1056.2
7.5°	3230.8	2877.2	2185.9	1627.4	1246.6	1024.2	928.1	889.7	876.9	862.5	859.4
10°	3392.4	2899.6	1982.7	1310.6	982.6	870.5	832.1	816.1	806.5	796.9	793.7
12.5°	3573.3	2920.4	1781.0	1088.1	864.1	806.5	779.3	760.1	747.3	736.1	732.9
15°	3749.3	2933.2	1571.4	933.0	803.3	756.9	728.1	707.2	689.7	676.9	675.3
17.5°	3923.7	2950.8	1374.6	840.1	753.7	707.2	678.4	652.9	638.5	624.1	622.5
20°	4117.3	2947.6	1189.0	774.5	704.1	657.6	627.3	603.3	588.9	572.9	571.2
22.5°	4296.6	2931.6	1025.7	718.5	652.9	608.1	574.5	550.4	536.1	523.3	521.6
25°	4503.0	2918.8	889.7	667.3	604.9	560.1	523.3	500.9	484.8	473.7	472.1
27.5°	4701.5	2899.6	790.5	620.8	558.5	515.3	480.1	454.5	440.0	432.0	432.0
30°	4896.6	2894.8	753.7	576.0	516.9	473.7	438.5	414.4	403.2	400.1	398.4
32.5°	5131.9	2907.6	769.7	560.1	478.5	435.2	401.7	384.1	372.9	372.9	372.9
35°	5383.1	2904.4	793.7	574.5	452.8	396.9	371.3	360.1	348.8	348.8	348.8
37.5°	5698.4	2909.2	812.9	598.5	443.2	364.9	350.4	336.0	329.6	329.6	329.6
40°	6168.9	3067.6	803.3	619.3	440.0	342.5	313.6	308.8	304.0	304.0	304.0
42.5°	6744.9	3411.7	816.1	620.8	438.5	326.5	288.0	297.7	286.5	284.8	283.2
45°	7375.4	3787.7	897.7	587.3	436.9	318.5	275.2	286.5	268.9	268.9	268.9
47.5°	8001.0	4160.6	980.9	539.3	432.0	316.8	264.0	257.7	252.9	254.4	254.4
50°	8863.6	4464.6	1012.9	473.7	420.9	313.6	243.2	244.9	241.6	244.9	244.9
52.5°	9802.9	4528.7	974.6	400.1	388.9	304.0	228.8	235.2	233.6	236.9	236.9
55°	10388.6	4459.8	804.9	332.8	339.3	265.7	214.4	227.2	227.2	227.2	227.2
57.5°	10993.5	4166.9	571.2	270.4	281.7	217.6	201.6	219.2	217.6	216.1	216.1
60°	11428.7	3693.3	376.1	222.4	224.1	179.3	187.3	206.4	204.8	196.8	196.8
62.5°	11753.6	3170.0	241.6	188.8	171.2	161.6	171.2	187.3	180.8	163.2	160.0
65°	11716.8	2445.1	185.6	161.6	140.8	140.8	148.8	163.2	144.0	115.2	112.0
67.5°	11033.5	1654.7	153.6	136.0	118.4	116.8	123.2	136.0	123.2	97.6	94.4
70°	9812.5	1081.8	123.2	105.6	94.4	86.4	99.2	116.8	104.0	78.4	75.2
72.5°	7964.2	659.3	92.8	76.8	68.8	56.0	78.4	96.0	83.2	57.6	54.4
75°	5152.7	336.0	64.0	49.6	36.8	33.6	57.6	72.1	57.6	35.2	30.4
77.5°	1971.5	140.8	35.2	22.4	19.2	16.0	32.0	43.3	24.0	8.0	6.4
80°	379.2	59.2	17.6	11.2	9.6	6.4	4.8	3.2	0.0	0.0	0.0
82.5°	65.6	19.2	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)