

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: P970550

Luminaire Tested: **NAV-SB6B-835-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970550
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-835-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 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: 23706.2 lumens
Efficiency: N/A
Efficacy: 107.6 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

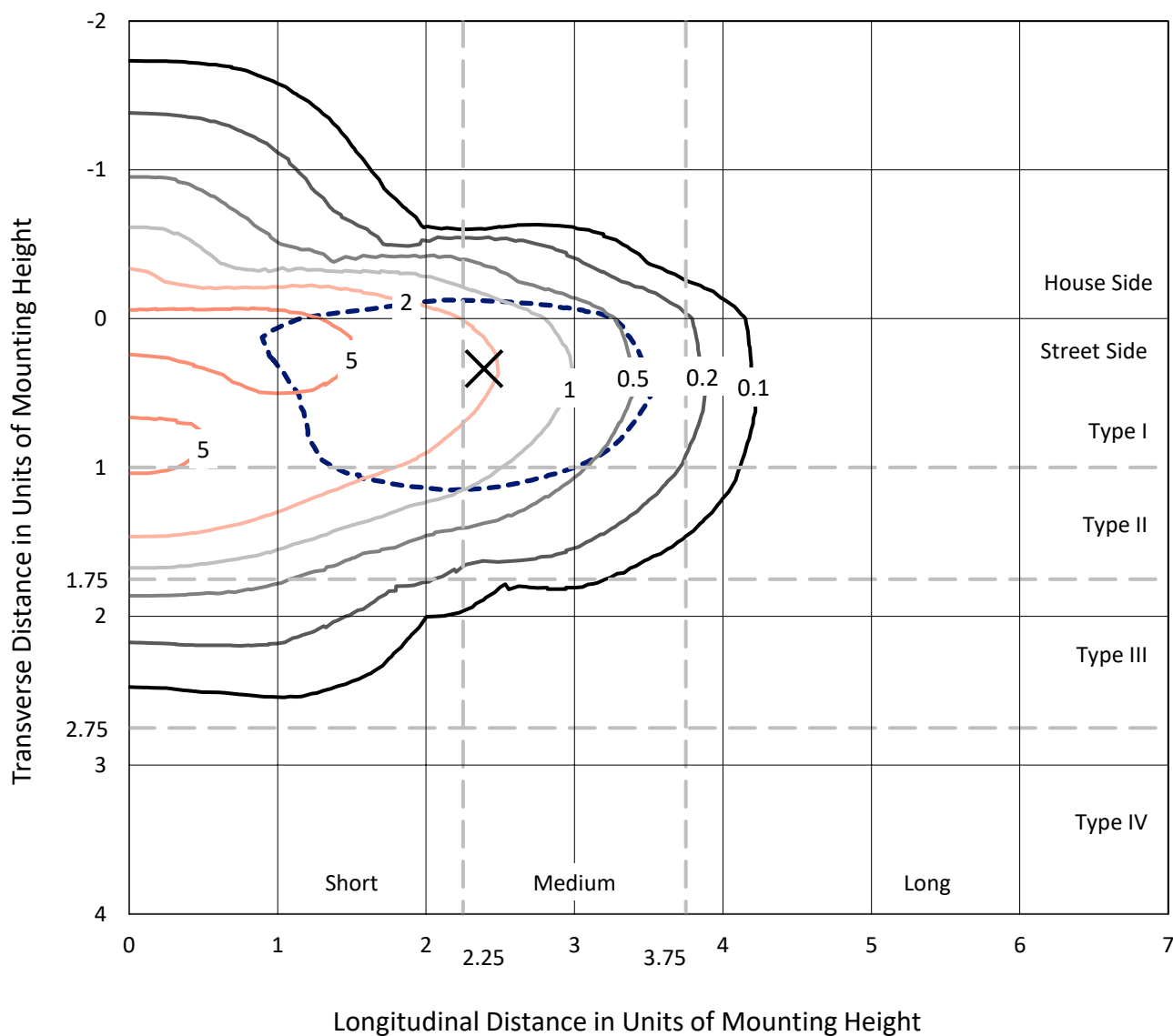


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Iso-Footcandle Lines of Horizontal Illumination

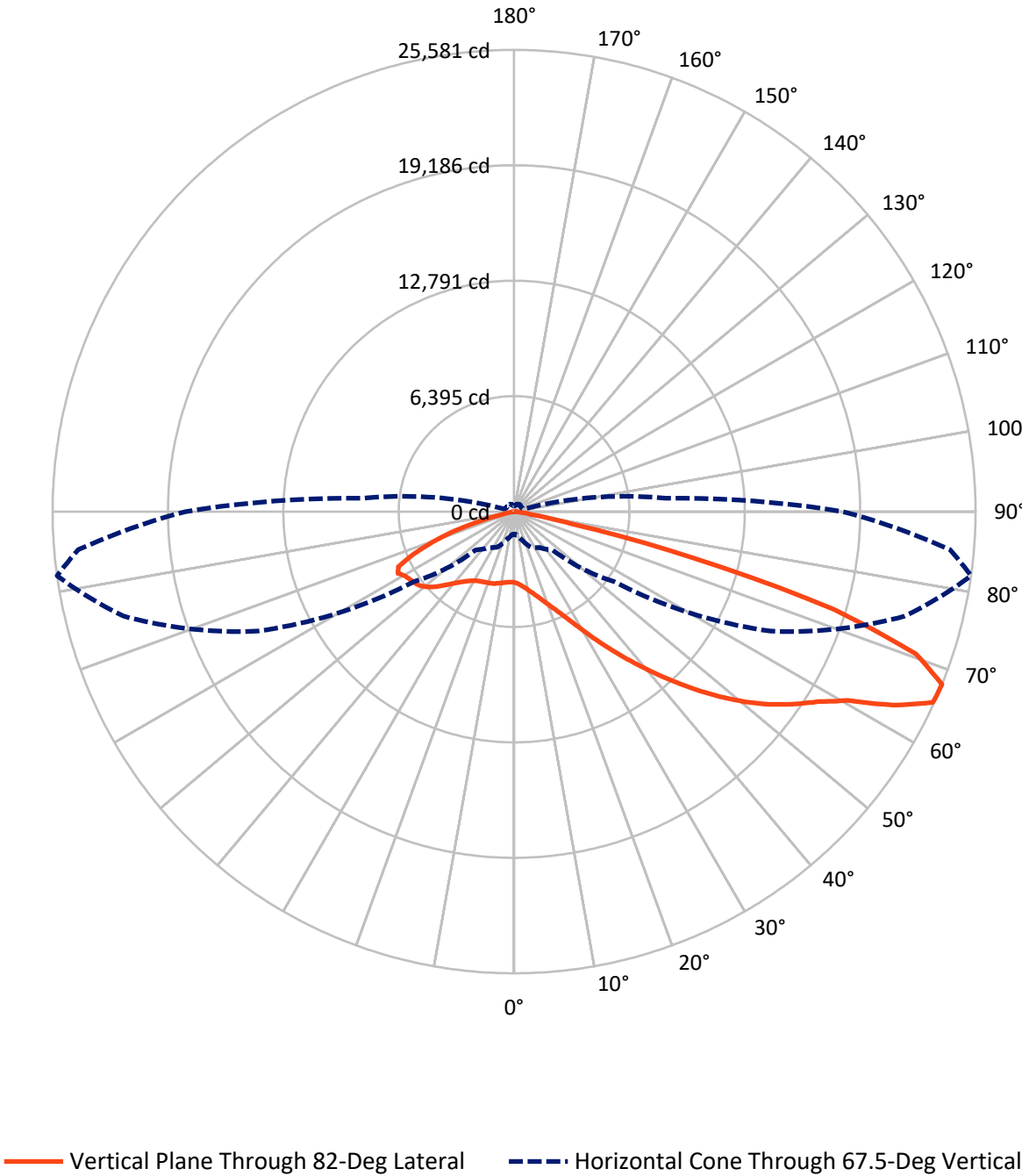
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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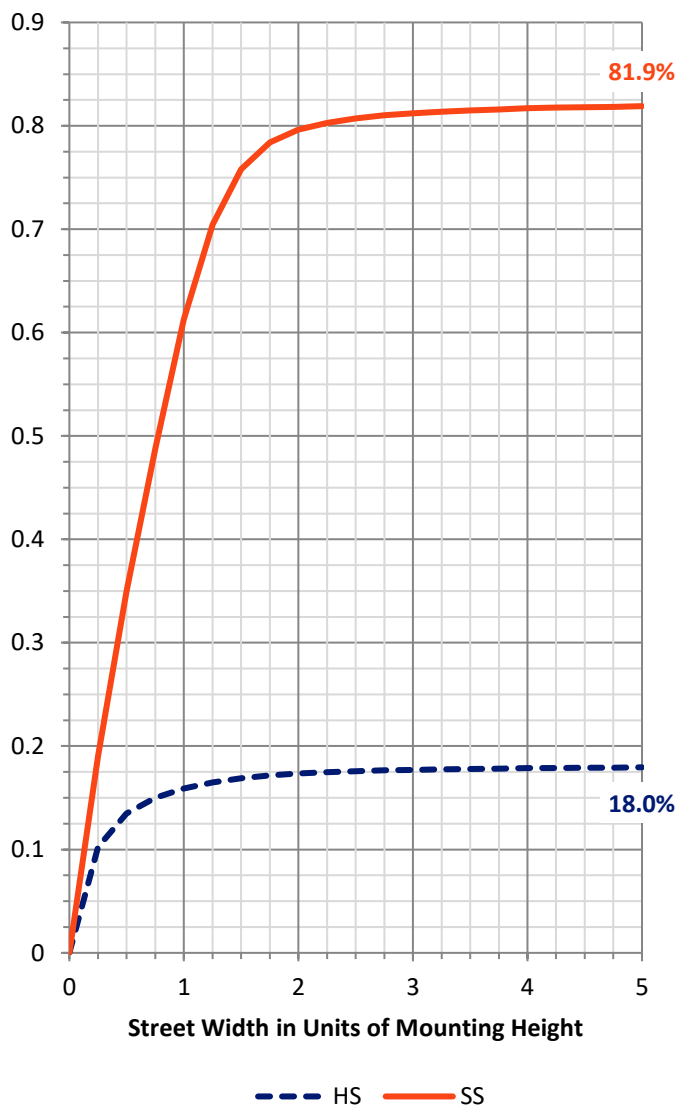
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4294.2	0.0	4294.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19412.0	0.0	19412.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	23706.2	0.0	23706.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.5
10°-20°	909.2	3.8
20°-30°	1456.3	6.1
30°-40°	2575.2	10.9
40°-50°	4512.0	19.0
50°-60°	6017.7	25.4
60°-70°	5602.2	23.6
70°-80°	2150.1	9.1
80°-90°	133.5	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°	23706.2	100.0
0°-180°	23706.2	100.0

Coefficient of Utilization



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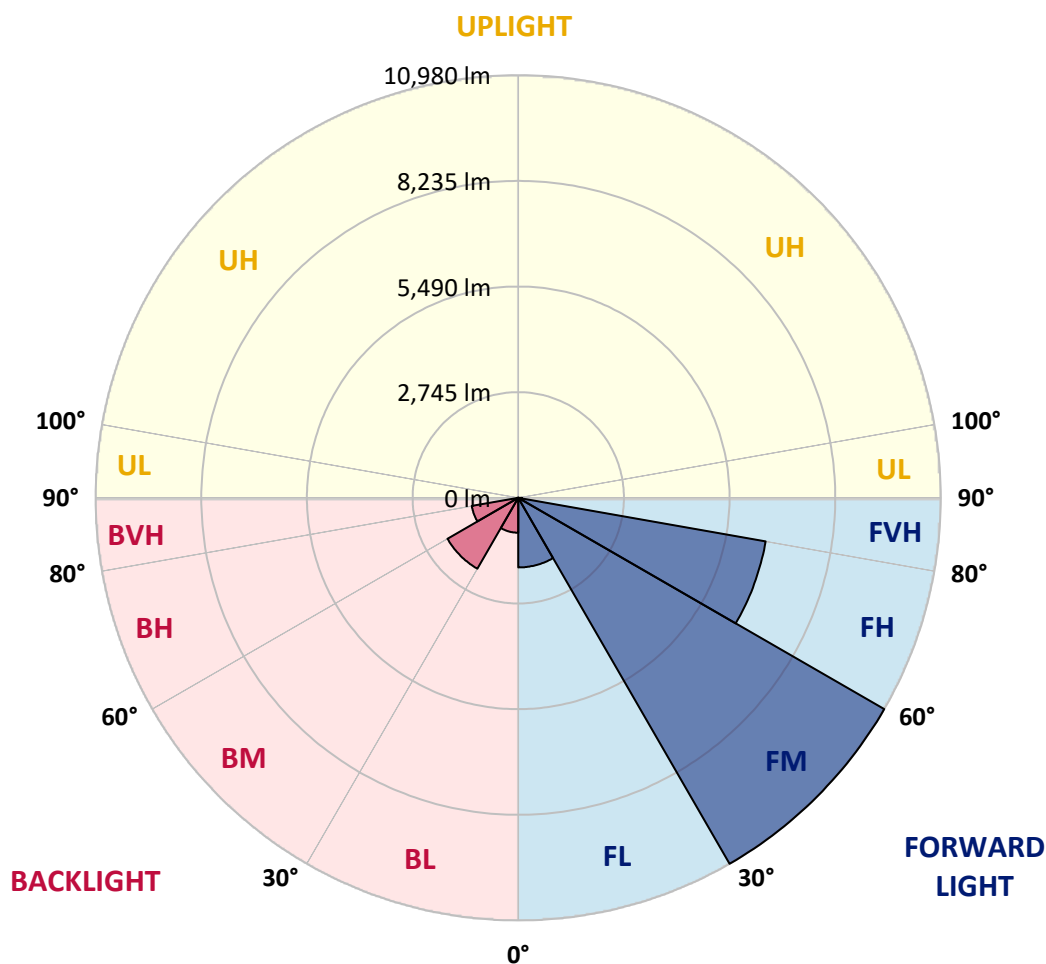
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1808.5	7.6			
FM	(30°-60°)	10979.7	46.3			
FH	(60°-80°)	6526.7	27.5			G3/7500
FVH	(80°-90°)	97.1	0.4			G1/100
BL	(0°-30°)	906.9	3.8	B2/1000		
BM	(30°-60°)	2125.2	9.0	B2/2500		
BH	(60°-80°)	1225.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	36.5	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°	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3
2.5°	4150.9	4174.8	4161.2	4154.3	4142.3	4125.3	4111.7	4068.9	4024.6	3995.6	3985.3
5°	4234.6	4258.5	4256.7	4263.6	4272.1	4277.2	4273.8	4226.0	4162.8	4113.3	4084.3
7.5°	4162.8	4190.2	4212.3	4246.5	4306.2	4369.4	4400.1	4389.9	4325.0	4256.7	4220.8
10°	3959.8	3988.8	4041.7	4121.9	4248.2	4384.7	4499.1	4552.0	4511.0	4435.9	4386.5
12.5°	3587.7	3616.7	3720.7	3894.9	4106.6	4343.7	4562.3	4703.9	4714.2	4639.0	4581.0
15°	3169.5	3198.5	3309.4	3527.9	3850.5	4231.1	4596.4	4864.3	4954.8	4890.0	4820.0
17.5°	2910.1	2935.7	3019.3	3195.1	3531.3	4005.8	4584.4	5035.0	5241.5	5190.3	5106.8
20°	2831.6	2853.7	2893.0	3015.9	3295.8	3772.0	4505.9	5195.4	5550.5	5521.5	5427.6
22.5°	2915.2	2935.7	2947.6	3002.2	3178.0	3618.4	4406.9	5359.3	5908.9	5912.3	5797.9
25°	3108.1	3128.5	3114.9	3149.0	3225.8	3570.6	4369.4	5552.2	6359.5	6397.0	6267.4
27.5°	3425.6	3427.2	3394.8	3393.1	3405.0	3642.2	4408.6	5758.7	6927.9	6997.8	6837.4
30°	4062.2	4036.6	3911.9	3777.1	3715.6	3857.4	4517.9	6002.8	7598.6	7723.2	7521.8
32.5°	5043.5	5006.0	4777.3	4454.8	4130.4	4203.8	4714.2	6281.0	8329.2	8554.4	8308.6
35°	6108.6	6098.3	5859.4	5379.8	4813.1	4697.1	5033.3	6646.2	9126.2	9484.6	9192.7
37.5°	7098.5	7093.4	6956.9	6391.9	5702.4	5384.9	5545.4	7124.2	9979.6	10498.5	10153.6
40°	8003.1	8018.5	7881.9	7376.7	6682.1	6267.4	6241.7	7714.7	10928.6	11602.7	11193.1
42.5°	8784.9	8801.9	8663.6	8289.9	7649.8	7243.6	7096.8	8438.3	11855.4	12788.9	12304.2
45°	9315.6	9421.5	9401.0	9102.3	8643.2	8221.6	8124.3	9346.4	12911.8	14046.8	13478.4
47.5°	9465.9	9563.1	9716.7	9757.7	9477.8	9063.0	9179.1	10440.4	13980.3	15306.4	14659.6
50°	9095.4	9185.9	9505.1	9930.1	10124.6	9996.6	10204.9	11612.9	15074.4	16562.7	15818.5
52.5°	8364.9	8457.2	8859.9	9532.4	10326.1	10728.9	11234.1	12768.4	16134.2	17752.3	16916.0
55°	7308.5	7405.7	7922.9	8684.1	9942.0	11030.9	12092.5	13922.3	17105.4	18822.5	17905.9
57.5°	5871.3	5943.1	6480.7	7545.7	8976.0	10730.5	12725.8	15181.9	18020.2	19873.8	18887.3
60°	3826.6	3889.8	4514.4	5702.4	7375.0	9726.9	12852.1	16586.6	19235.5	21241.0	20210.0
62.5°	2544.8	2587.5	2957.8	3830.0	5193.8	7800.0	12113.0	17707.9	21017.3	23620.2	22478.4
65°	1746.1	1788.7	2159.1	2766.7	3355.5	5159.6	9988.1	17559.4	22632.0	25509.6	24159.6
67.5°	1246.0	1281.8	1595.8	2169.3	2428.7	2997.1	6770.8	15661.5	22399.8	25581.3	24250.1
70°	892.7	913.2	1172.6	1689.7	1930.4	1800.6	3765.1	11978.3	19612.7	23621.9	22403.3
72.5°	624.6	631.5	814.2	1286.9	1554.9	1314.3	1792.1	7986.1	14833.7	18540.8	17368.2
75°	423.3	431.8	547.9	943.8	1247.6	1003.6	948.9	4282.3	8708.0	10262.9	9199.6
77.5°	259.4	262.8	353.3	645.1	933.6	764.6	611.0	1814.4	3369.2	3307.8	2819.6
80°	146.8	146.8	225.3	401.1	636.6	493.2	428.4	771.5	1066.7	937.1	826.0
82.5°	81.9	83.6	163.9	249.2	421.6	291.8	235.5	356.7	460.8	408.0	355.1
85°	34.1	37.5	100.7	117.8	201.4	145.0	95.5	150.2	170.7	151.9	110.9
87.5°	3.4	5.1	30.7	22.1	23.9	29.0	13.6	29.0	23.9	23.9	17.1
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°	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3
2.5°	3952.9	3927.3	3862.5	3787.4	3688.4	3640.6	3575.7	3531.3	3493.8	3497.2	3463.1
5°	4029.7	3964.9	3819.8	3638.9	3413.6	3253.1	3082.5	2964.7	2869.1	2848.6	2802.6
7.5°	4135.6	4033.2	3778.9	3452.8	3072.2	2783.8	2526.0	2360.5	2242.7	2205.2	2167.6
10°	4272.1	4123.6	3725.9	3219.0	2671.1	2304.2	2027.7	1898.0	1817.7	1790.4	1770.0
12.5°	4430.8	4227.7	3656.0	2934.0	2258.1	1904.8	1729.0	1664.1	1638.6	1630.0	1624.8
15°	4630.5	4357.4	3550.1	2596.0	1908.1	1660.7	1585.6	1577.1	1580.4	1577.1	1575.3
17.5°	4867.7	4499.1	3377.7	2247.8	1672.7	1536.1	1508.8	1515.7	1524.2	1522.4	1519.0
20°	5127.2	4639.0	3157.5	1938.9	1512.2	1447.4	1432.0	1438.8	1445.7	1442.3	1440.5
22.5°	5422.5	4789.2	2913.5	1698.2	1404.7	1365.4	1348.4	1350.0	1350.0	1343.3	1339.8
25°	5775.8	4954.8	2657.4	1527.6	1322.8	1292.0	1271.5	1264.7	1254.5	1234.0	1230.6
27.5°	6197.4	5130.6	2411.7	1408.1	1257.9	1228.9	1205.0	1187.9	1162.4	1128.2	1124.7
30°	6671.8	5343.9	2203.4	1333.0	1206.7	1177.7	1150.4	1124.7	1087.2	1044.6	1041.1
32.5°	7229.9	5572.6	2051.5	1283.5	1160.6	1129.9	1097.5	1066.7	1025.8	983.1	984.8
35°	7895.6	5849.2	1962.8	1249.4	1124.7	1083.8	1048.0	1013.8	983.1	945.6	942.2
37.5°	8617.6	6142.7	1935.5	1232.3	1100.8	1037.7	996.8	972.8	969.4	947.3	945.6
40°	9407.8	6490.9	1956.0	1222.1	1075.2	993.3	948.9	943.8	952.4	913.2	914.8
42.5°	10244.2	6904.0	1990.1	1210.1	1039.5	948.9	906.3	906.3	899.4	844.9	844.9
45°	11148.7	7380.1	2024.3	1181.1	996.8	904.6	872.2	860.2	831.2	778.3	776.5
47.5°	12060.2	7864.8	2049.9	1128.2	945.6	867.0	838.0	810.7	768.0	720.3	718.5
50°	12925.5	8300.1	2022.5	1049.7	887.5	831.2	800.5	762.9	716.9	684.4	679.3
52.5°	13698.7	8677.3	1906.5	957.6	826.0	793.7	766.4	727.1	689.5	655.4	652.0
55°	14371.1	8982.8	1701.7	870.4	771.5	761.3	733.9	684.4	633.2	604.2	600.8
57.5°	15016.4	9215.0	1445.7	798.8	722.0	725.4	684.4	640.0	592.2	561.5	558.1
60°	15874.8	9525.5	1186.2	732.3	669.0	679.3	634.9	602.5	542.7	503.5	498.4
62.5°	17247.1	10008.6	942.2	650.3	607.6	611.0	592.2	553.0	481.3	435.2	431.8
65°	18336.0	9831.1	742.4	561.5	537.6	542.7	542.7	500.1	423.3	370.3	365.2
67.5°	18213.1	8417.9	592.2	474.5	471.1	474.5	486.5	450.6	375.5	332.8	326.0
70°	16777.7	6695.7	474.5	394.3	409.6	401.1	435.2	411.3	337.9	295.3	290.2
72.5°	13690.1	4823.3	361.8	326.0	314.1	327.7	392.6	370.3	281.7	233.8	228.7
75°	7999.7	2573.9	269.7	257.7	227.0	273.1	348.2	315.8	215.0	172.4	167.3
77.5°	2604.5	897.8	198.0	189.4	169.0	220.2	296.9	266.3	175.8	136.5	131.4
80°	698.0	271.4	134.8	124.6	109.3	163.9	235.5	211.7	126.3	88.8	87.0
82.5°	279.9	114.4	78.5	70.0	59.8	112.6	186.0	170.7	93.9	56.4	56.4
85°	90.5	37.5	29.0	22.1	27.3	70.0	110.9	116.0	66.5	29.0	22.1
87.5°	12.0	5.1	5.1	6.9	5.1	12.0	34.1	32.4	18.8	3.4	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)