

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: P970877

Luminaire Tested: **NAV-SB6C-735-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39689 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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



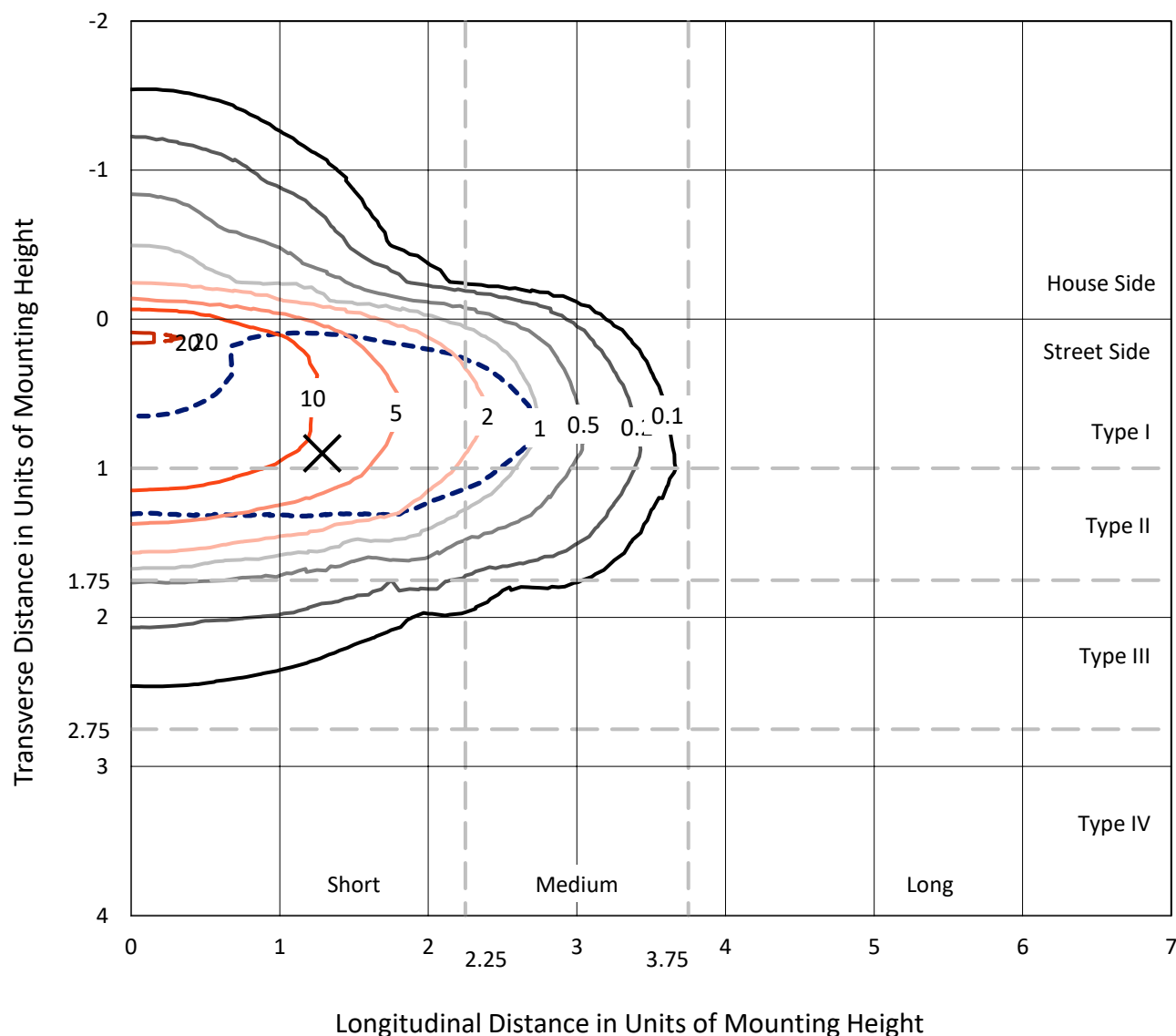
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

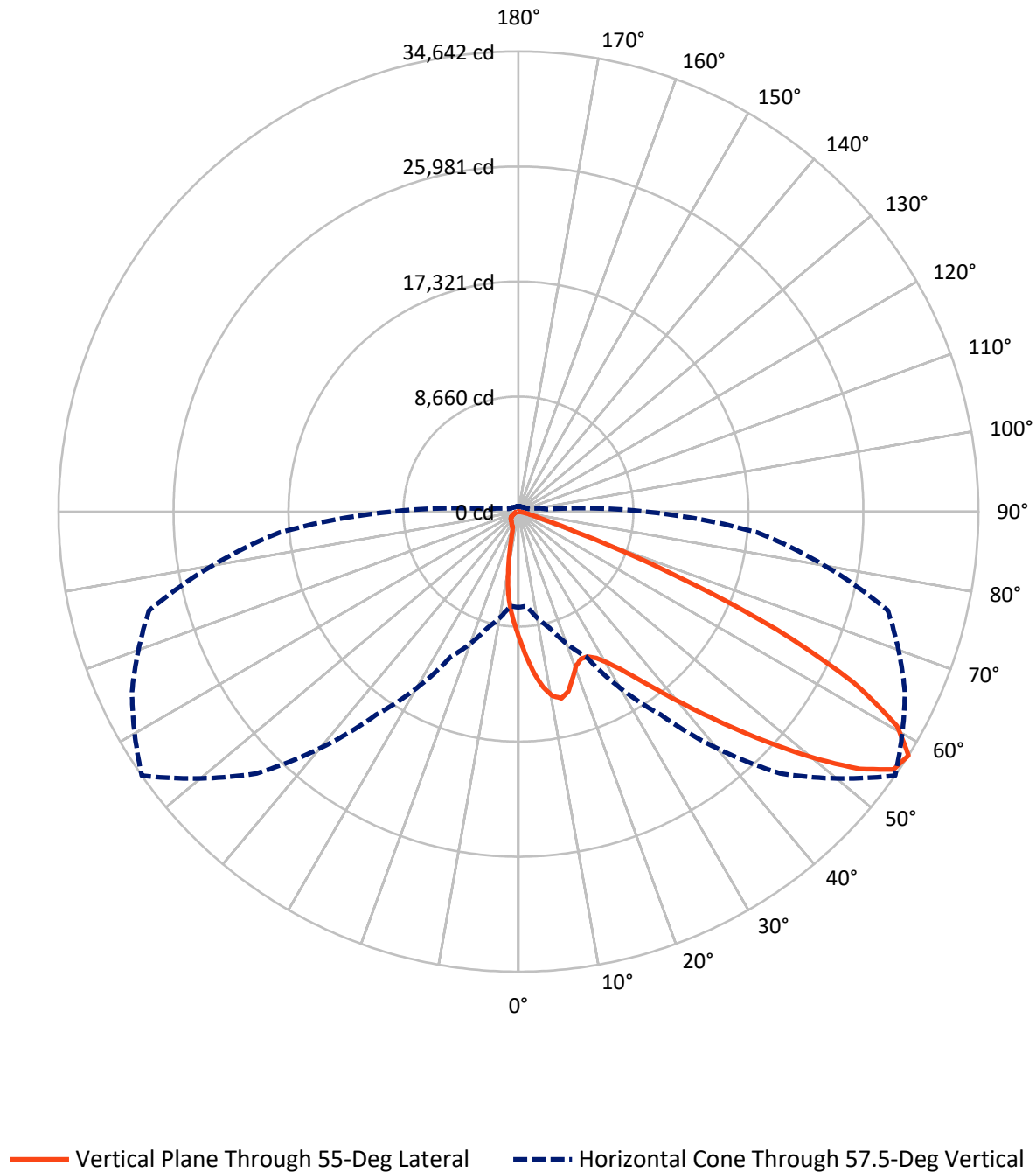


Based on 25 foot mounting height. Maximum calculated value = 21.9 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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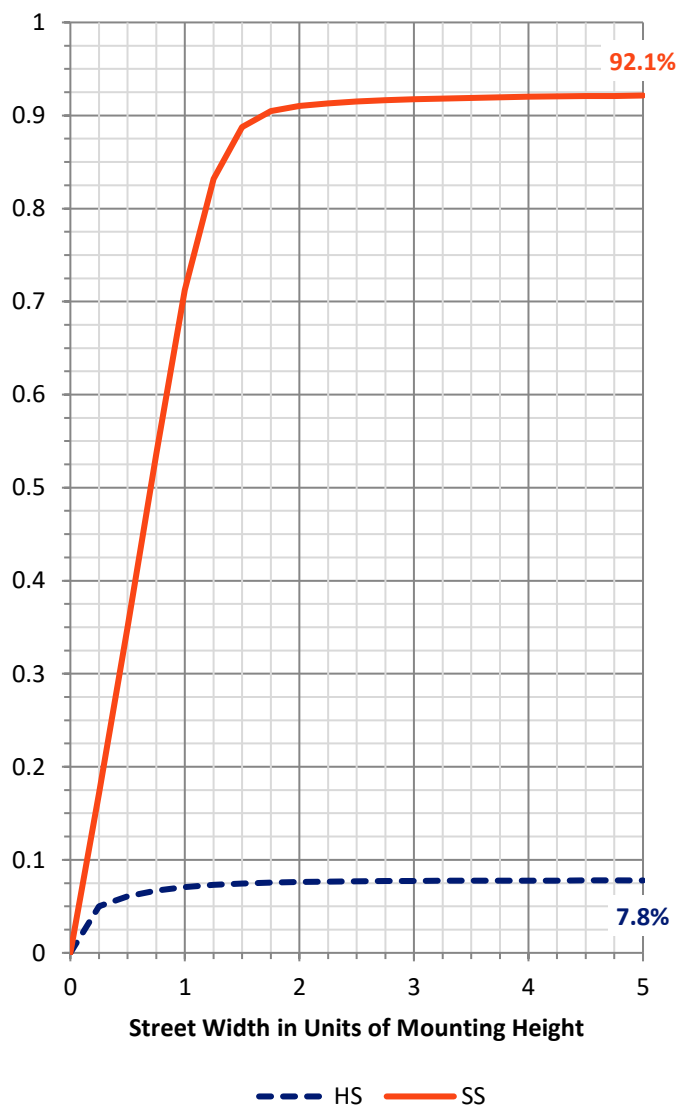
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3099.6	0.0	3099.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	36589.5	0.0	36589.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	39689.0	0.0	39689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	889.9	2.2
10°-20°	2149.5	5.4
20°-30°	3439.2	8.7
30°-40°	5821.1	14.7
40°-50°	9556.9	24.1
50°-60°	10503.8	26.5
60°-70°	6025.0	15.2
70°-80°	1231.1	3.1
80°-90°	72.6	0.2
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°	39689.0	100.0
0°-180°	39689.0	100.0

Coefficient of Utilization



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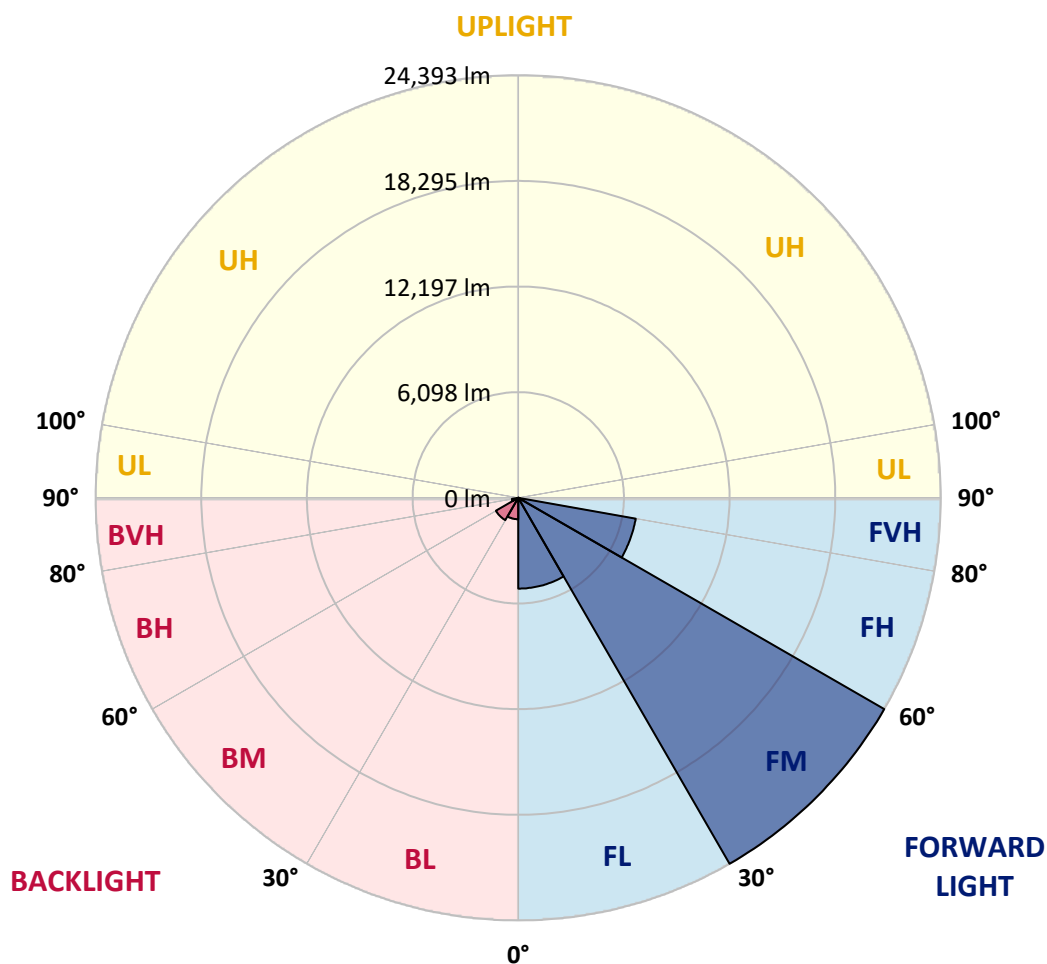
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5241.2	13.2			
FM	(30°-60°)	24393.2	61.5			
FH	(60°-80°)	6887.4	17.4			G3/7500
FVH	(80°-90°)	67.7	0.2			G1/100
BL	(0°-30°)	1237.4	3.1	B3/2500		
BM	(30°-60°)	1488.6	3.8	B2/2500		
BH	(60°-80°)	368.6	0.9	B1/500		G1/500
BVH	(80°-90°)	4.9	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1
2.5°	11867.0	11717.7	11695.7	11666.3	11382.4	11169.5	10861.1	10523.5	10144.1	9757.4	9586.1
5°	13709.8	13592.3	13570.3	13433.2	13110.3	12748.0	12199.9	11507.3	10800.0	9967.9	9610.6
7.5°	14067.1	14045.1	14145.4	14140.6	14096.5	13810.1	13347.7	12522.8	11460.7	10227.3	9674.2
10°	12473.9	12530.2	12828.8	13090.7	13797.9	14209.1	14108.7	13428.4	12141.1	10523.5	9745.2
12.5°	11022.6	10956.6	11169.5	11465.6	12287.9	13511.6	14424.4	14184.6	12919.3	10858.7	9850.5
15°	10112.2	10085.4	10205.3	10342.4	10968.8	12202.3	14057.4	14798.8	13668.2	11255.1	10009.5
17.5°	9821.0	9799.0	9835.7	9870.0	10276.2	11230.7	13183.7	15175.7	14385.3	11708.0	10185.7
20°	10058.4	10029.1	10024.2	9997.2	10166.2	10817.1	12393.2	15202.7	15029.0	12119.1	10337.4
22.5°	10751.0	10716.8	10596.9	10489.1	10503.9	10873.4	12040.8	14933.4	15513.5	12503.3	10432.9
25°	12006.4	11950.2	11700.6	11338.3	11108.3	11265.0	12094.6	14578.6	15976.1	12804.3	10386.3
27.5°	13577.7	13504.3	13183.7	12645.2	12119.1	11928.1	12483.7	14333.9	16360.2	13034.3	10286.1
30°	15117.0	15021.6	14705.9	14287.4	13518.9	12916.8	13186.1	14441.5	16817.9	13274.2	10153.9
32.5°	16778.7	16688.2	16269.7	15750.9	15114.5	14304.5	14147.9	14967.8	17378.4	13609.4	10060.9
35°	18881.0	18739.0	18144.3	17437.1	16761.6	15941.7	15449.8	15875.7	18124.8	14120.9	10112.2
37.5°	21274.5	21083.5	20442.4	19465.9	18584.9	17667.1	17035.7	17123.9	19218.8	14806.2	10271.3
40°	23530.8	23357.1	22764.8	21844.7	20738.5	19625.0	18951.9	18756.2	20728.7	15640.8	10550.3
42.5°	24884.2	24727.6	24477.9	24088.8	23156.4	22020.9	21171.7	20748.3	22515.3	16639.2	10890.5
45°	24960.1	24823.0	25158.3	25611.1	25427.5	24671.3	23636.1	22860.3	24309.1	17576.6	11242.9
47.5°	23746.2	23653.2	24671.3	26252.3	27040.3	27358.5	26404.0	24796.1	25789.7	18249.6	11387.3
50°	20437.5	20403.2	22498.1	25400.6	27654.6	29712.8	29323.6	26597.3	26937.5	18597.1	11250.3
52.5°	17720.9	17596.2	18817.4	22674.3	26761.3	30951.1	32177.2	28364.3	27740.2	18663.2	10929.7
55°	13440.6	13330.4	14862.5	18112.6	23880.9	30510.6	34264.7	30187.6	28315.3	18494.3	10354.6
57.5°	7209.7	7141.3	9077.1	12055.4	18668.0	27867.5	34641.6	32116.0	28799.9	18046.5	9549.4
60°	2807.1	2794.9	3519.2	5849.1	11345.7	22671.9	32740.0	33273.5	29103.3	17495.8	8876.4
62.5°	1698.4	1735.1	1852.6	2625.9	5012.0	14084.2	28356.9	31956.9	29306.5	16991.6	8320.8
65°	1404.8	1407.2	1421.9	1803.7	2400.9	5893.1	21347.9	27625.2	28804.9	16093.5	7532.8
67.5°	1204.1	1226.1	1282.4	1431.7	1693.5	2584.3	12290.4	21399.2	25753.0	14003.4	6304.3
70°	949.6	978.9	1049.9	1177.1	1306.9	1617.7	4542.2	14238.5	19674.0	10555.2	4767.4
72.5°	800.3	797.9	834.6	956.9	1037.6	1138.0	1747.4	7978.2	11433.8	5039.0	2359.2
75°	619.2	643.6	690.1	800.3	849.2	824.7	947.1	2914.8	4096.8	1527.1	802.7
77.5°	484.5	504.1	545.7	653.4	702.3	584.9	545.7	1042.5	1316.6	548.2	362.2
80°	217.8	234.9	372.0	482.2	572.7	403.8	296.1	533.5	584.9	249.6	183.6
82.5°	39.2	66.1	217.8	254.5	293.7	261.9	154.2	276.5	286.4	100.3	63.7
85°	2.5	4.9	75.8	93.0	117.5	85.7	46.5	110.1	95.4	34.2	24.5
87.5°	0.0	0.0	0.0	2.5	2.5	12.2	14.7	19.6	14.7	12.2	9.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1	9564.1
2.5°	9409.9	9062.3	8724.7	8448.2	8286.6	8012.5	7831.4	7802.0	7726.1	7792.3
5°	9228.8	8607.1	7978.2	7415.4	6952.8	6355.6	5910.3	5721.8	5557.9	5614.1
7.5°	9143.1	8161.8	7182.9	6221.0	5232.3	4277.9	3568.1	3272.0	3046.9	3078.7
10°	9028.1	7699.2	6164.8	4696.3	3372.4	2430.2	1940.7	1759.6	1659.3	1661.7
12.5°	8940.0	7146.1	4982.7	3184.0	2053.3	1551.5	1399.8	1355.8	1326.5	1328.9
15°	8896.0	6495.1	3815.4	2121.9	1468.4	1314.3	1277.5	1257.9	1238.3	1235.8
17.5°	8822.6	5770.7	2792.4	1549.2	1284.8	1231.0	1199.1	1177.1	1152.7	1147.8
20°	8712.4	4948.5	2041.1	1309.3	1204.1	1162.5	1118.4	1089.1	1059.6	1054.8
22.5°	8509.2	4079.7	1568.8	1211.4	1145.3	1098.8	1045.0	1010.8	981.3	976.5
25°	8132.5	3264.7	1321.5	1150.3	1094.0	1037.6	978.9	932.4	905.5	900.6
27.5°	7655.2	2564.8	1199.1	1094.0	1027.9	976.5	910.4	866.3	841.8	837.0
30°	7092.3	1975.0	1128.2	1030.3	949.6	905.5	846.8	810.1	795.4	795.4
32.5°	6485.4	1578.5	1098.8	966.7	881.0	832.1	785.6	770.9	766.0	763.5
35°	5915.2	1370.5	1084.1	915.3	819.9	773.4	753.8	756.2	766.0	766.0
37.5°	5408.5	1304.4	1076.9	878.6	766.0	724.4	736.7	758.7	748.9	748.9
40°	4950.9	1311.8	1071.9	851.7	721.9	697.5	721.9	704.8	680.4	677.9
42.5°	4600.9	1373.0	1062.1	829.6	695.1	677.9	668.1	641.2	638.8	643.6
45°	4346.4	1426.8	1059.6	819.9	665.6	633.9	621.7	594.7	643.6	655.9
47.5°	4045.4	1426.8	1059.6	785.6	616.7	604.4	584.9	555.6	604.4	616.7
50°	3656.3	1336.2	1018.0	746.4	577.6	570.2	536.0	499.3	489.4	496.8
52.5°	3164.4	1172.3	912.9	692.6	538.4	523.8	482.2	455.2	447.8	447.8
55°	2603.9	981.3	770.9	614.3	496.8	469.9	440.5	428.2	421.0	416.0
57.5°	2116.9	805.1	619.2	545.7	457.7	423.4	413.6	398.9	386.6	379.4
60°	1737.6	633.9	511.5	484.5	418.5	386.6	384.3	364.7	332.8	327.9
62.5°	1341.1	464.9	430.7	421.0	379.4	352.4	347.5	308.3	259.4	249.6
65°	947.1	362.2	347.5	369.5	337.7	313.2	301.0	242.3	190.9	183.6
67.5°	665.6	303.5	274.1	323.1	293.7	261.9	254.5	205.6	159.1	154.2
70°	474.8	247.1	225.2	276.5	234.9	230.0	215.4	171.3	129.7	124.8
72.5°	335.3	188.4	173.7	239.8	161.5	198.2	176.2	132.1	97.9	93.0
75°	247.1	134.6	122.4	139.5	117.5	149.2	124.8	88.1	61.2	58.7
77.5°	181.1	85.7	73.4	68.6	68.6	93.0	68.6	36.7	27.0	24.5
80°	127.3	39.2	34.2	29.4	27.0	22.0	9.8	4.9	2.5	2.5
82.5°	75.8	17.1	17.1	12.2	7.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	7.4	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	2.5	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

(END OF REPORT)