

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: P970929

Luminaire Tested: **NAV-SB6C-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41001 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

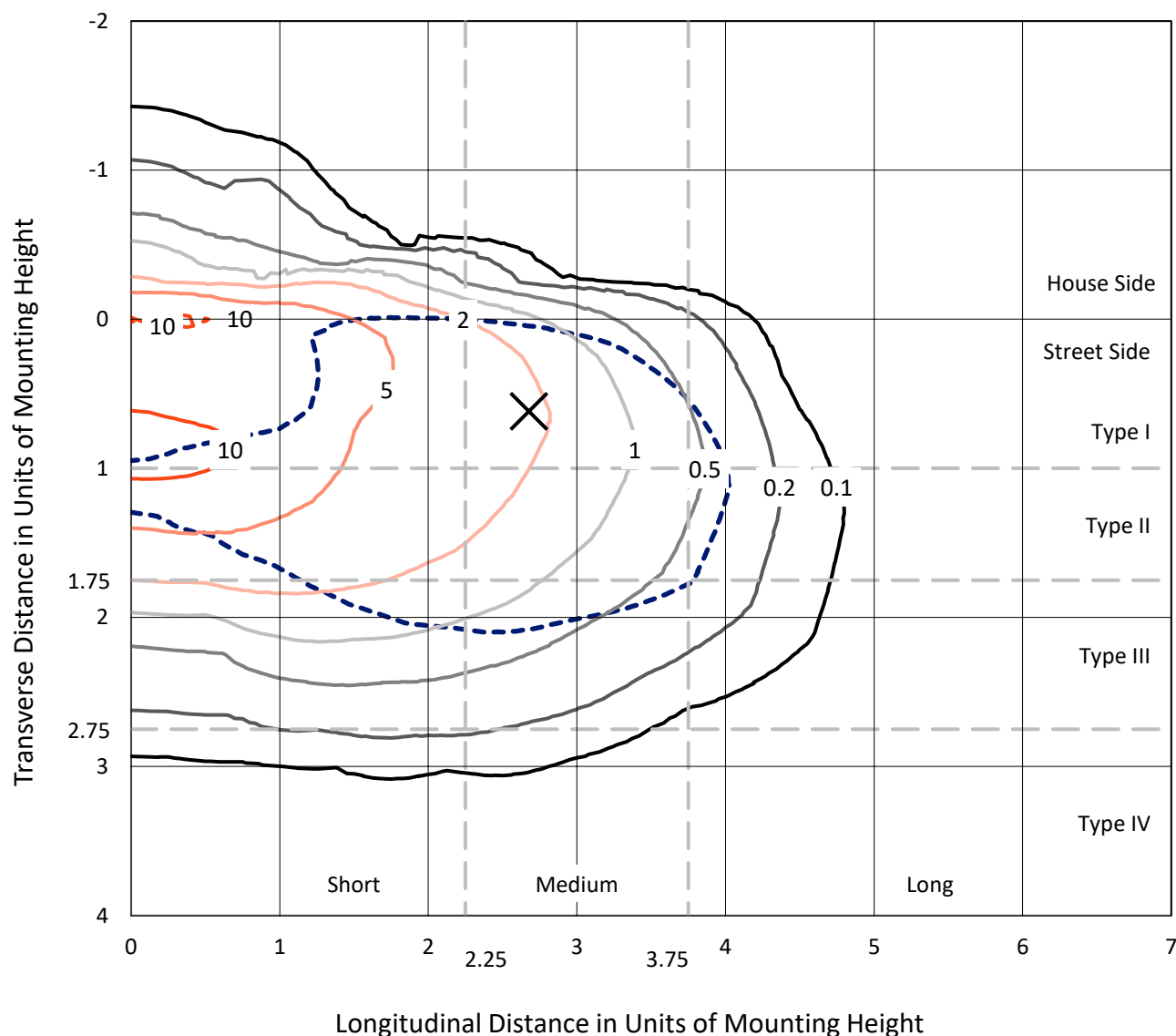


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Iso-Footcandle Lines of Horizontal Illumination

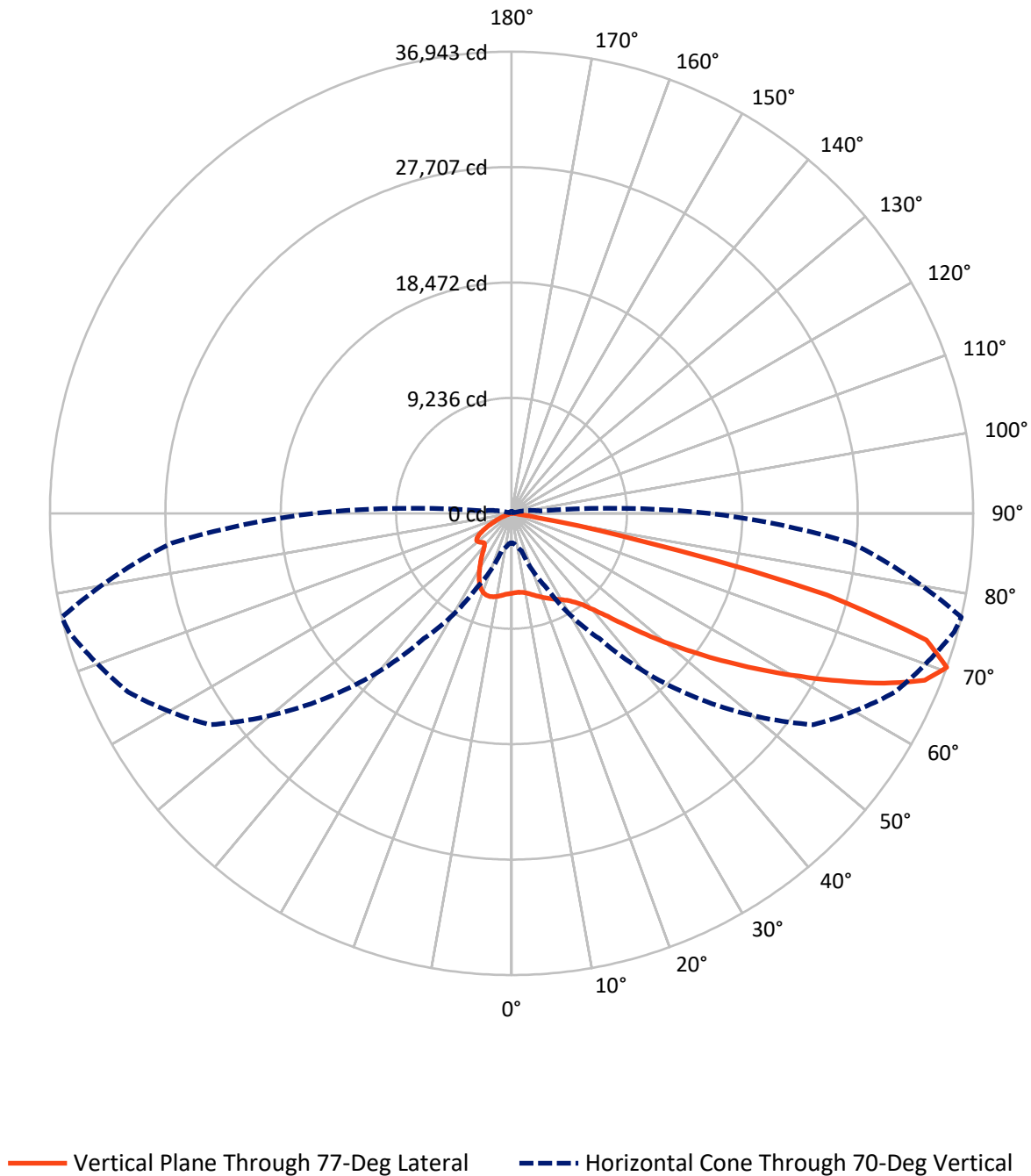
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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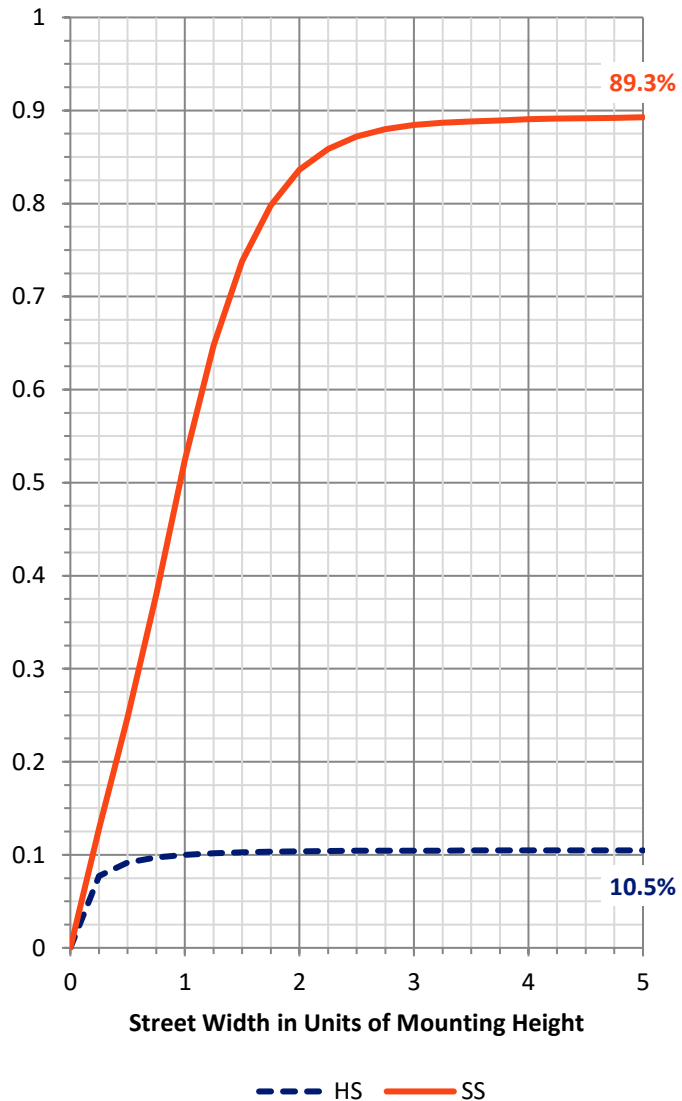
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4322.1	0.0	4322.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36678.9	0.0	36678.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	41001.0	0.0	41001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.2	1.3
10°-20°	1308.4	3.2
20°-30°	2023.8	4.9
30°-40°	3672.3	9.0
40°-50°	6931.9	16.9
50°-60°	10016.0	24.4
60°-70°	10661.8	26.0
70°-80°	5650.0	13.8
80°-90°	185.5	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°	41001.0	100.0
0°-180°	41001.0	100.0

Coefficient of Utilization



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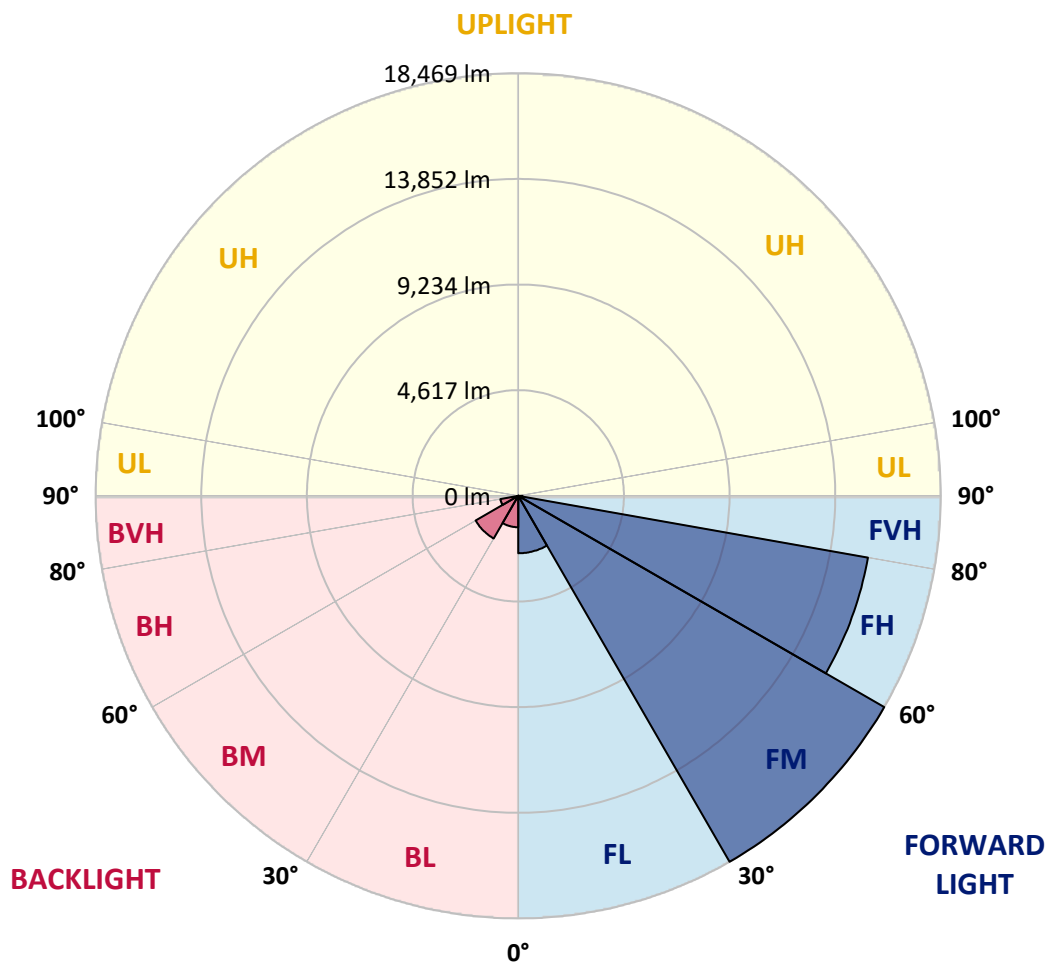
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2510.2	6.1			
FM	(30°-60°)	18468.7	45.0			
FH	(60°-80°)	15519.5	37.9			G5
FVH	(80°-90°)	180.5	0.4			G2/225
BL	(0°-30°)	1373.2	3.3	B3/2500		
BM	(30°-60°)	2151.5	5.2	B2/2500		
BH	(60°-80°)	792.3	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.0	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4
2.5°	6004.4	6058.8	6051.1	6087.3	6100.3	6152.0	6203.8	6273.7	6351.4	6348.8	6400.6
5°	5665.3	5719.6	5732.6	5781.8	5843.9	5924.2	6030.4	6170.2	6315.1	6338.5	6442.0
7.5°	5263.9	5320.9	5354.5	5452.9	5566.9	5732.6	5906.0	6110.6	6351.4	6385.0	6584.4
10°	4862.6	4914.4	4958.4	5098.2	5279.5	5525.5	5807.6	6102.8	6426.4	6475.6	6757.9
12.5°	4614.0	4663.2	4712.4	4834.1	5059.4	5359.7	5743.0	6139.1	6550.8	6620.7	6993.6
15°	4526.0	4570.0	4608.8	4717.6	4927.3	5269.1	5730.0	6214.2	6708.7	6801.9	7278.3
17.5°	4538.9	4562.3	4588.1	4671.0	4875.5	5227.7	5753.3	6343.6	6895.2	6978.0	7563.2
20°	4614.0	4627.0	4629.5	4686.5	4867.7	5222.5	5799.9	6468.0	7071.2	7182.6	7845.4
22.5°	4709.9	4715.0	4709.9	4748.6	4916.9	5261.3	5862.1	6618.1	7268.0	7371.6	8130.2
25°	5157.8	5059.4	4935.1	4860.0	4999.8	5336.5	5955.2	6820.0	7482.9	7583.9	8407.3
27.5°	6548.2	6265.9	5820.6	5320.9	5170.7	5445.2	6084.7	7024.6	7700.4	7791.0	8705.0
30°	8806.0	8435.8	7679.7	6553.3	5719.6	5673.1	6253.0	7229.1	7930.8	8029.2	9023.5
32.5°	11069.0	10978.4	10105.8	8547.1	6954.7	6180.5	6532.6	7506.2	8236.4	8314.1	9453.3
35°	13357.9	13174.0	12459.4	10918.8	8857.7	7213.6	6998.7	7868.7	8637.7	8725.7	10080.0
37.5°	15110.8	14999.4	14556.7	13288.0	11115.6	8808.5	7796.2	8430.5	9220.3	9318.7	10882.5
40°	16659.1	16607.4	16457.2	15620.9	13640.1	10895.5	9036.4	9300.5	10028.1	10144.6	11866.5
42.5°	17876.1	17997.8	18083.3	17850.2	16242.3	13277.6	10703.9	10522.6	11154.5	11273.6	13119.7
45°	19121.5	19163.0	19507.3	19843.9	18826.4	15768.5	12583.7	11954.5	12555.2	12702.8	14621.4
47.5°	19921.6	20087.3	20693.2	21286.2	20998.8	18238.6	14603.3	13645.3	14178.6	14455.7	16304.5
50°	19981.1	20294.5	21128.2	22161.3	22580.7	20589.6	16798.9	15571.7	16138.7	16444.3	18101.4
52.5°	18989.5	19476.2	20768.2	22280.4	23435.2	22580.7	19069.7	17498.1	18225.6	18624.4	19965.7
55°	14559.3	15196.2	19414.1	21633.1	23468.8	24090.3	21280.9	19504.7	20550.7	21001.3	21980.0
57.5°	12684.7	13005.7	15263.6	20509.3	22844.9	24698.7	23279.8	21415.6	23080.4	23639.8	23883.1
60°	10553.7	10975.8	12801.2	18671.0	21998.1	24758.3	25045.7	23880.6	25822.5	26451.7	25628.3
62.5°	7172.2	7630.5	9445.6	15512.1	20840.8	24729.9	26493.1	26418.0	28870.0	29545.8	27106.7
65°	4443.2	4730.6	5926.8	12666.5	19222.5	24760.9	28007.8	29499.2	32085.9	32772.0	28251.2
67.5°	3511.0	3643.1	4267.1	9725.2	16433.9	24061.8	29519.9	32396.6	35112.7	35656.4	28600.8
70°	2358.8	2439.1	3104.5	6519.7	12226.4	20835.6	29491.4	33851.8	36671.4	36943.3	27326.8
72.5°	1242.8	1304.9	1815.1	3019.0	7384.5	14810.4	24859.3	32111.7	35120.4	34711.3	23357.5
75°	621.5	725.0	1222.1	1532.8	3153.7	8259.7	15437.0	25317.6	27642.7	26058.1	14986.5
77.5°	471.2	569.6	1009.8	1009.8	1097.9	2780.8	6537.9	13808.4	12736.4	10605.6	4399.1
80°	300.3	388.4	882.9	763.8	458.3	706.8	1703.8	3868.3	2705.8	2058.4	800.1
82.5°	176.1	253.8	735.3	504.9	256.4	261.5	481.6	823.4	701.7	546.3	246.0
85°	69.9	165.7	504.9	199.4	101.0	64.8	145.0	176.1	145.0	108.8	62.1
87.5°	0.0	38.8	88.0	0.0	7.8	5.2	10.4	12.9	12.9	10.4	20.7
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°	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4	6395.4
2.5°	6423.9	6429.1	6444.6	6447.2	6411.0	6364.3	6346.2	6338.5	6307.3	6304.8	6310.0
5°	6501.6	6524.8	6501.6	6434.2	6273.7	6048.4	5877.6	5737.7	5610.8	5572.0	5548.7
7.5°	6657.0	6680.2	6610.3	6346.2	5942.3	5494.4	5090.5	4805.6	4549.3	4453.5	4414.7
10°	6879.6	6910.7	6690.6	6157.2	5442.5	4722.8	4039.2	3557.6	3182.2	3029.4	2964.7
12.5°	7159.2	7172.2	6734.7	5869.8	4792.7	3764.7	2796.4	2281.1	1947.1	1822.9	1784.0
15°	7467.3	7449.3	6739.8	5478.8	3907.2	2661.7	1825.4	1499.2	1364.5	1323.1	1323.1
17.5°	7791.0	7715.9	6636.3	4914.4	2936.2	1820.2	1354.1	1276.5	1253.2	1242.8	1240.2
20°	8109.5	7941.2	6447.2	4176.5	2107.6	1359.4	1229.9	1206.6	1193.6	1188.5	1183.3
22.5°	8399.5	8112.1	6123.6	3319.4	1530.2	1201.4	1162.6	1141.8	1118.6	1108.2	1105.6
25°	8681.8	8210.5	5667.8	2519.3	1224.7	1123.7	1092.6	1053.8	1022.7	1009.8	1004.6
27.5°	8956.1	8272.6	5098.2	1864.3	1092.6	1051.2	994.2	939.9	916.6	911.4	906.2
30°	9248.8	8293.4	4450.9	1390.4	1012.4	960.6	877.7	815.6	802.7	805.2	805.2
32.5°	9606.1	8324.4	3798.4	1139.3	945.0	851.9	753.5	688.7	678.3	688.7	686.1
35°	10033.3	8386.6	3169.2	1048.7	885.5	740.6	634.4	579.9	569.6	577.4	574.8
37.5°	10613.3	8487.5	2581.5	1030.5	836.3	647.3	533.4	489.3	489.3	492.0	489.3
40°	11384.9	8756.8	2055.8	1017.6	810.5	577.4	450.5	432.4	440.1	445.4	445.4
42.5°	12324.8	9329.0	1701.1	1002.0	782.0	546.3	409.1	401.3	414.3	419.4	419.4
45°	13378.6	10054.0	1576.9	976.1	756.0	567.0	390.9	380.6	396.2	398.7	401.3
47.5°	14468.7	10763.4	1561.3	947.6	730.2	598.1	385.8	362.5	380.6	383.2	385.8
50°	15571.7	11226.9	1576.9	903.6	688.7	598.1	388.4	344.4	359.9	367.7	370.2
52.5°	16682.5	11439.2	1566.5	807.8	616.2	561.9	388.4	328.8	344.4	349.5	349.5
55°	17759.6	11397.8	1408.6	665.4	523.1	497.1	378.0	315.9	326.3	328.8	328.8
57.5°	18611.4	10820.4	1115.9	517.8	424.7	414.3	344.4	300.3	308.1	305.6	305.6
60°	19056.8	9551.7	797.4	398.7	334.0	326.3	303.0	279.6	284.8	271.8	269.3
62.5°	19061.9	7873.8	533.4	315.9	266.7	258.9	258.9	251.1	246.0	220.1	212.3
65°	18655.5	6012.2	354.8	251.1	214.9	201.9	217.5	214.9	196.8	160.5	155.4
67.5°	17733.7	3940.8	269.3	196.8	165.7	158.0	173.4	181.2	168.3	134.7	132.0
70°	15838.4	2294.1	222.6	152.7	124.3	116.5	139.8	155.4	139.8	108.8	103.5
72.5°	13155.9	1237.7	181.2	113.9	85.5	77.7	111.3	126.9	111.3	80.3	77.7
75°	8536.7	662.9	139.8	75.1	44.0	49.2	82.8	93.2	77.7	51.8	46.6
77.5°	2866.3	292.5	88.0	36.3	20.7	20.7	49.2	57.0	36.3	18.1	15.6
80°	639.5	121.7	36.3	15.6	7.8	7.8	10.4	10.4	5.2	0.0	0.0
82.5°	209.7	49.2	15.6	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.3	18.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.1	2.6	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)