

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: P971419

Luminaire Tested: **NAV-SB6D-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971419
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-SB6D-735-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA 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: 53553.2 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 440.1
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

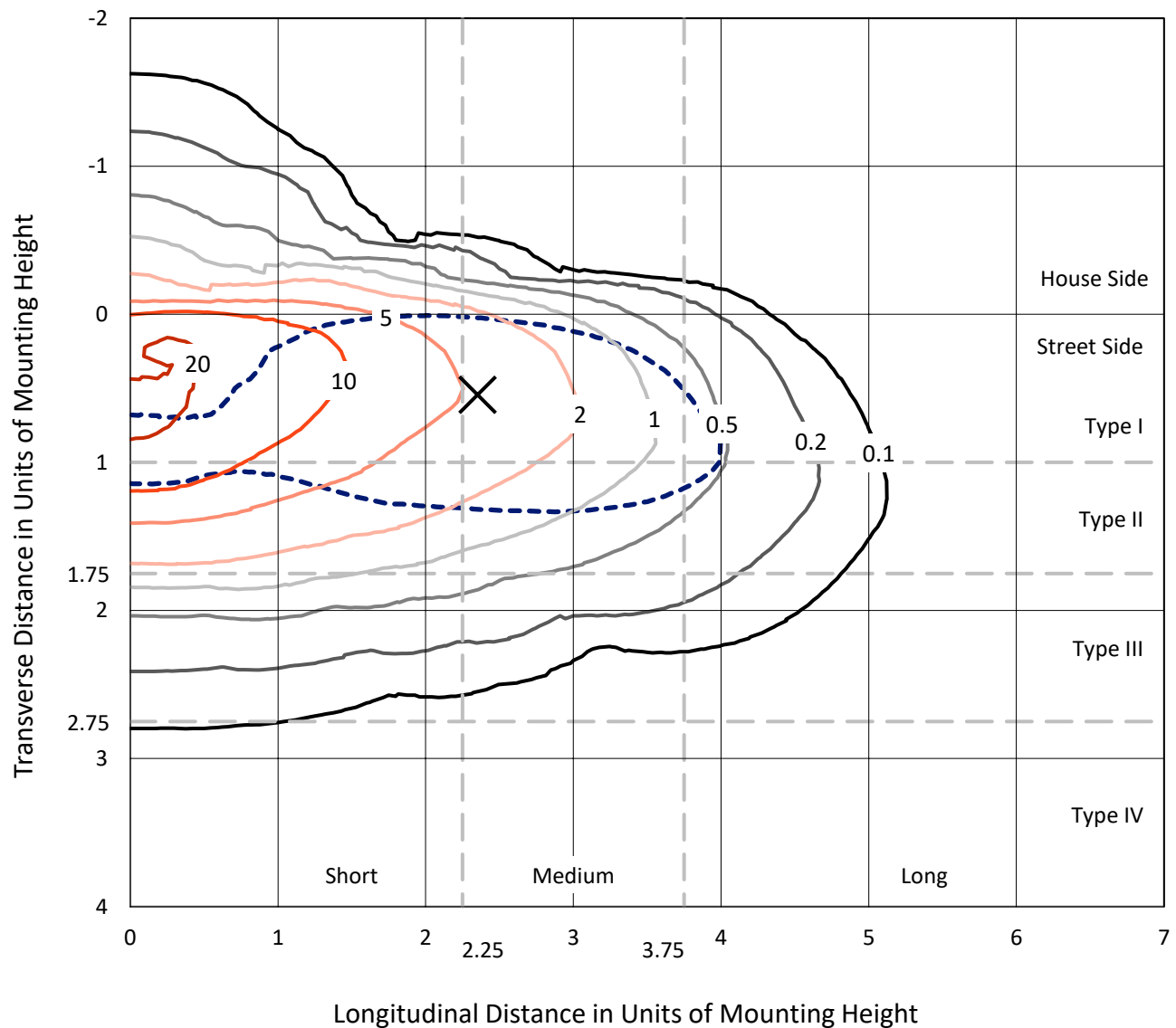


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Iso-Footcandle Lines of Horizontal Illumination

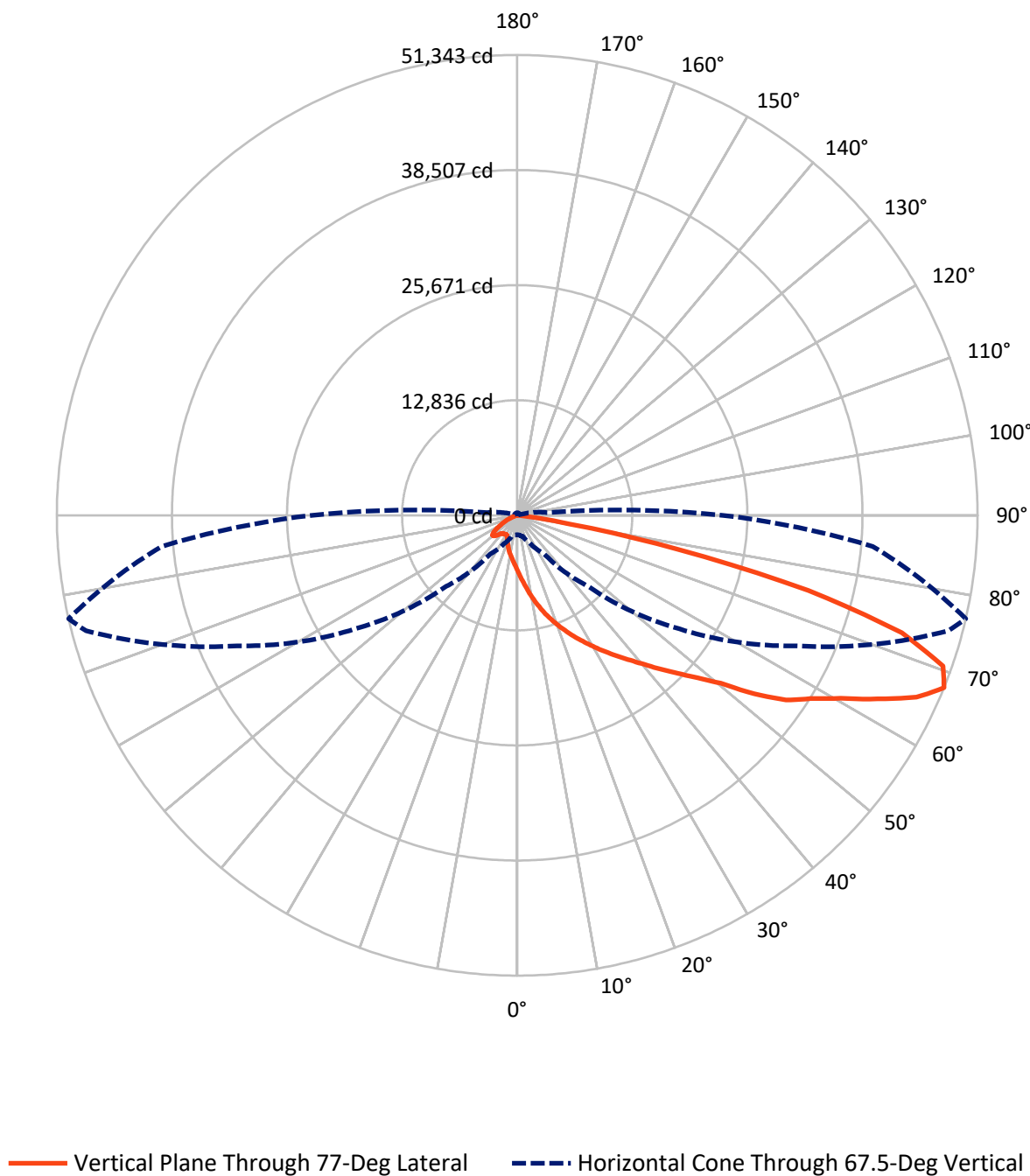
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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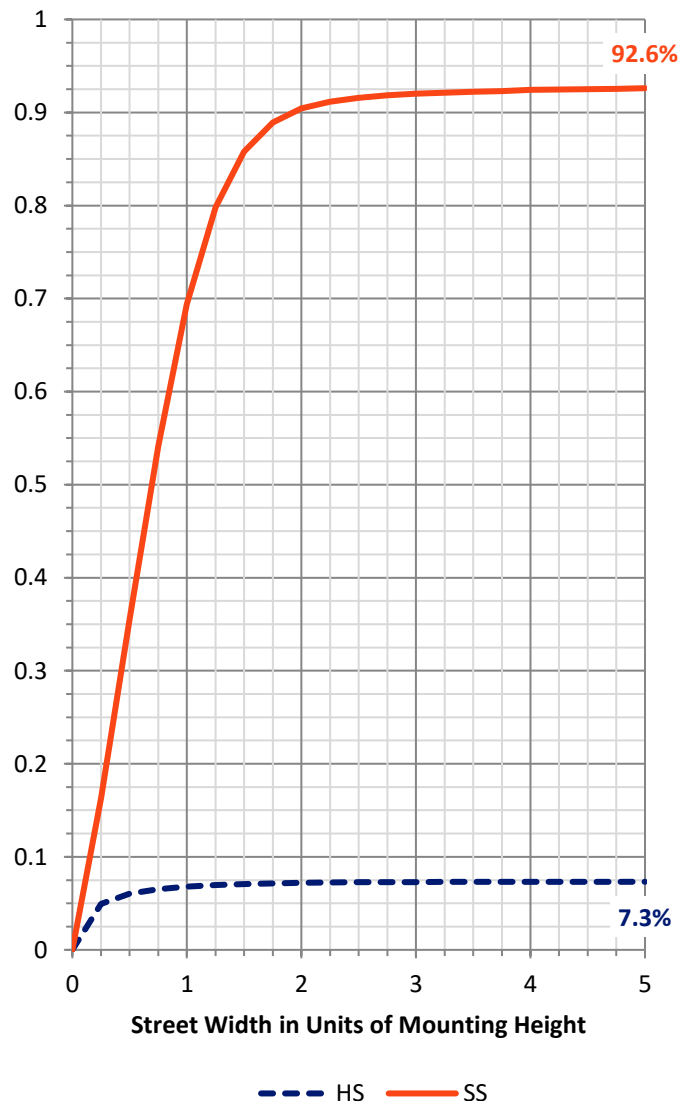
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3939.9	0.0	3939.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	49613.2	0.0	49613.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	53553.2	0.0	53553.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.3	1.2
10°-20°	2207.3	4.1
20°-30°	4259.4	8.0
30°-40°	7394.6	13.8
40°-50°	10736.5	20.0
50°-60°	12329.6	23.0
60°-70°	10704.3	20.0
70°-80°	5041.9	9.4
80°-90°	249.3	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°	53553.2	100.0
0°-180°	53553.2	100.0

Coefficient of Utilization



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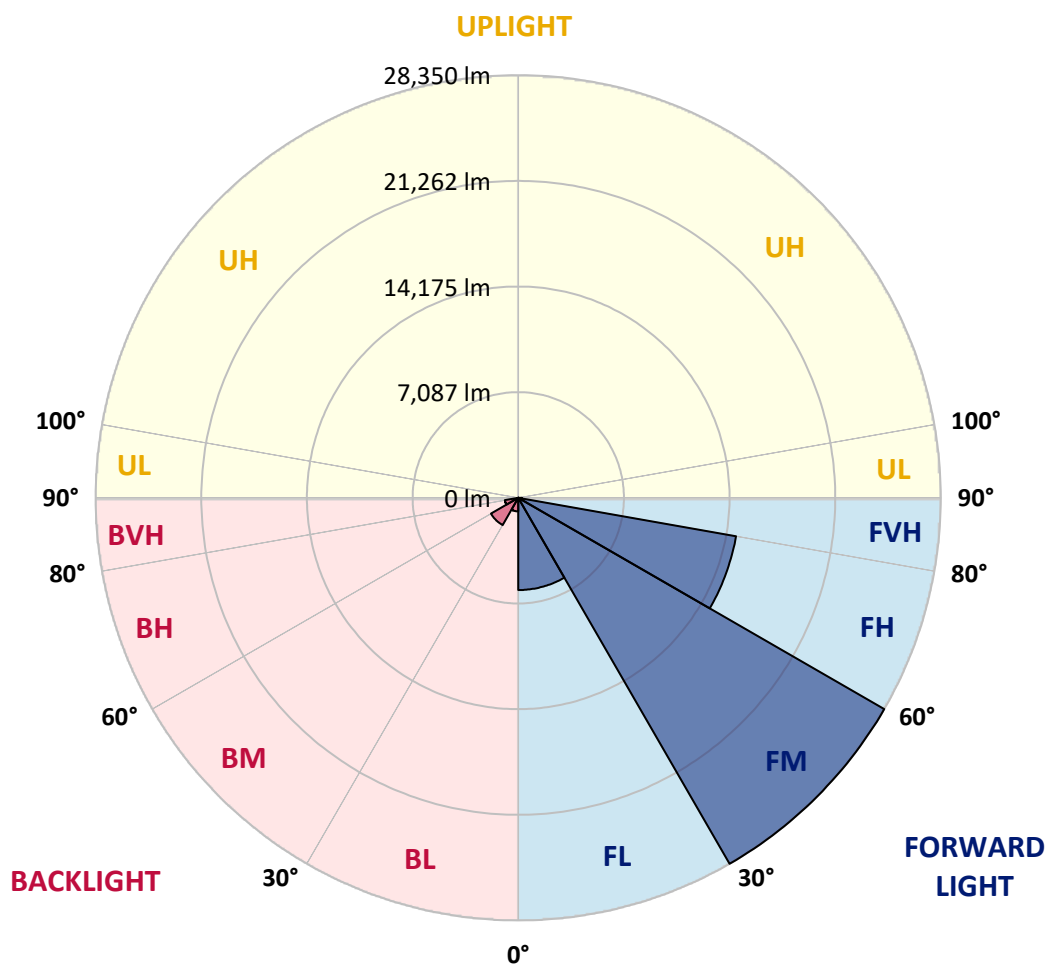
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6184.8	11.5			
FM	(30°-60°)	28349.6	52.9			
FH	(60°-80°)	14834.1	27.7			G5
FVH	(80°-90°)	244.8	0.5			G3/500
BL	(0°-30°)	912.2	1.7	B2/1000		
BM	(30°-60°)	2111.1	3.9	B2/2500		
BH	(60°-80°)	912.1	1.7	B2/1000		G2/1000
BVH	(80°-90°)	4.6	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4
2.5°	8549.8	8603.1	8526.6	8380.3	8160.8	8017.8	7668.6	7339.4	6973.6	6857.1	6491.4
5°	10422.1	10468.7	10382.2	10222.6	9930.0	9650.6	9191.7	8503.3	7788.4	7558.9	6910.4
7.5°	11808.9	11835.5	11802.3	11655.9	11376.6	11060.7	10548.5	9733.8	8672.9	8420.2	7425.8
10°	12806.6	12893.0	12883.0	12826.4	12640.3	12384.2	11838.9	10911.0	9663.9	9338.1	8007.8
12.5°	13468.3	13564.7	13621.3	13747.6	13737.7	13574.7	13095.8	12114.8	10651.6	10269.2	8663.0
15°	13661.2	13764.3	13980.4	14273.1	14532.4	14615.6	14279.7	13295.4	11739.0	11250.2	9334.7
17.5°	13551.4	13711.1	13970.4	14432.7	15001.4	15377.2	15340.6	14436.0	12726.7	12168.1	9993.1
20°	13794.2	13947.2	14150.0	14539.1	15200.9	15882.6	16155.3	15526.8	13707.7	13122.5	10684.9
22.5°	15137.7	15111.1	15131.0	15194.3	15589.9	16265.1	16827.1	16517.8	14678.8	14080.2	11416.4
25°	17266.0	17146.3	16943.5	16600.9	16501.2	16827.1	17412.4	17395.7	15703.0	15061.2	12164.7
27.5°	19707.0	19687.0	19211.5	18386.8	17921.2	17794.8	18074.1	18250.4	16717.3	16032.2	12916.2
30°	22044.8	22098.0	21456.2	20538.3	19683.7	19188.2	18935.4	19061.8	17748.3	17079.8	13691.1
32.5°	24080.0	24136.5	23438.2	22364.1	21306.6	20708.0	20175.9	19863.3	18872.3	18143.9	14542.5
35°	25799.2	25855.8	25054.4	23867.1	22739.8	22197.8	21595.8	20741.2	20003.0	19324.5	15490.2
37.5°	27335.7	27319.0	26244.9	25047.7	23940.3	23511.3	23195.4	21821.9	21166.9	20511.7	16541.0
40°	28243.6	28313.4	27395.6	26075.3	25001.2	24688.6	24668.6	23162.1	22510.3	21875.2	17691.7
42.5°	28509.6	28632.7	27967.5	26883.4	25909.0	25569.9	26091.9	24612.1	24073.4	23454.8	18992.0
45°	28030.7	28150.4	27847.8	27096.3	26527.6	26308.1	27315.7	26115.3	25742.8	25130.8	20458.5
47.5°	26634.0	26783.7	26856.8	26697.2	26690.5	26913.3	28413.1	27698.2	27724.7	27099.6	22157.8
50°	23930.4	24183.1	24854.8	25420.2	26294.8	27392.2	29480.6	29414.1	29959.5	29420.8	24372.7
52.5°	19015.3	19374.4	21689.0	23235.3	25200.6	27302.4	30654.6	32167.7	33880.2	33092.1	27495.3
55°	15280.7	15280.7	17162.9	20056.2	23065.7	26710.5	31166.7	33956.7	36550.7	36364.4	29693.4
57.5°	12457.3	12607.0	13807.5	16364.8	19976.3	25300.5	31482.6	35080.8	38702.3	38565.9	31841.7
60°	7688.5	8011.2	10279.1	12803.2	16461.3	22789.7	31283.1	36218.1	41312.8	41422.5	34429.0
62.5°	4329.8	4449.5	5460.5	9211.7	12799.9	19414.3	29756.7	36853.3	44651.6	45117.1	37096.1
65°	2989.6	3049.5	3438.6	5733.1	8872.5	15457.0	26773.6	36457.5	47997.1	48938.2	39357.4
67.5°	2171.6	2201.5	2444.2	3501.8	5264.3	11206.9	22098.0	34462.2	49769.6	51342.6	39789.7
70°	1669.4	1689.4	1865.6	2301.2	3109.3	6917.0	16048.9	30494.9	48485.9	50364.8	37575.0
72.5°	1356.8	1376.8	1513.1	1702.6	2061.8	4090.4	9727.1	24765.0	42819.3	44847.8	31988.1
75°	1144.0	1170.6	1293.7	1416.7	1616.2	2627.2	4562.6	17246.0	32200.9	33531.1	22244.3
77.5°	635.2	585.3	1050.8	1173.9	1363.5	1662.8	2135.0	10149.4	18034.3	18403.4	9870.1
80°	395.8	409.1	834.7	944.4	1047.6	838.0	977.7	3907.5	6252.0	5939.4	1912.1
82.5°	23.3	53.2	641.9	681.7	718.3	359.2	369.1	1326.9	1506.4	1383.4	339.2
85°	0.0	0.0	292.6	236.2	249.4	103.1	106.4	309.2	202.8	219.5	66.5
87.5°	0.0	0.0	0.0	6.7	0.0	9.9	20.0	26.6	9.9	13.3	23.3
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°	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4	6175.4
2.5°	6258.6	6025.8	5553.6	5091.4	4715.6	4366.4	4117.0	3880.9	3761.1	3754.5	3747.8
5°	6448.2	5959.3	5014.9	4180.2	3508.4	2969.6	2620.5	2371.1	2244.8	2201.5	2194.8
7.5°	6714.2	5979.2	4542.6	3382.1	2590.6	2128.3	1928.8	1849.0	1822.3	1792.4	1785.8
10°	7050.1	6025.8	4120.3	2723.6	2041.9	1809.1	1729.3	1696.0	1676.1	1656.1	1649.4
12.5°	7425.8	6069.0	3701.3	2261.4	1795.8	1676.1	1619.5	1579.6	1553.0	1529.7	1523.0
15°	7791.6	6095.7	3265.6	1938.8	1669.4	1573.0	1513.1	1469.8	1433.3	1406.7	1403.3
17.5°	8154.2	6132.3	2856.6	1745.9	1566.3	1469.8	1410.0	1356.8	1326.9	1296.9	1293.7
20°	8556.5	6125.6	2470.9	1609.6	1463.2	1366.7	1303.6	1253.7	1223.7	1190.5	1187.3
22.5°	8929.0	6092.3	2131.7	1493.1	1356.8	1263.7	1193.8	1144.0	1114.1	1087.4	1084.1
25°	9357.9	6065.7	1849.0	1386.7	1257.1	1163.9	1087.4	1040.9	1007.7	984.3	981.0
27.5°	9770.3	6025.8	1642.8	1290.3	1160.6	1070.8	997.6	944.4	914.5	897.9	897.9
30°	10176.1	6015.8	1566.3	1197.2	1074.1	984.3	911.2	861.3	838.0	831.4	828.1
32.5°	10664.9	6042.5	1599.6	1163.9	994.4	904.6	834.7	798.2	774.8	774.8	774.8
35°	11187.1	6035.8	1649.4	1193.8	941.2	824.7	771.5	748.2	725.0	725.0	725.0
37.5°	11842.1	6045.8	1689.4	1243.7	921.2	758.2	728.3	698.3	685.0	685.0	685.0
40°	12819.9	6375.0	1669.4	1287.0	914.5	711.7	651.8	641.9	631.8	631.8	631.8
42.5°	14017.0	7090.0	1696.0	1290.3	911.2	678.4	598.6	618.6	595.2	591.9	588.7
45°	15327.2	7871.5	1865.6	1220.5	907.8	661.7	571.9	595.2	558.7	558.7	558.7
47.5°	16627.6	8646.3	2038.5	1120.7	897.9	658.5	548.7	535.4	525.4	528.8	528.8
50°	18420.0	9278.2	2105.0	984.3	874.6	651.8	505.4	508.8	502.1	508.8	508.8
52.5°	20372.1	9411.1	2025.2	831.4	808.1	631.8	475.5	488.8	485.5	492.2	492.2
55°	21589.2	9268.2	1672.7	691.7	705.0	552.1	445.6	472.2	472.2	472.2	472.2
57.5°	22846.2	8659.6	1187.3	562.0	585.3	452.2	419.0	455.6	452.2	449.0	449.0
60°	23750.8	7675.3	781.5	462.3	465.6	372.5	389.1	429.0	425.7	409.1	409.1
62.5°	24425.9	6587.9	502.1	392.4	355.9	335.9	355.9	389.1	375.8	339.2	332.5
65°	24349.4	5081.3	385.8	335.9	292.6	292.6	309.2	339.2	299.3	239.4	232.8
67.5°	22929.4	3438.6	319.3	282.7	246.1	242.7	256.0	282.7	256.0	202.8	196.2
70°	20392.0	2248.0	256.0	219.5	196.2	179.6	206.2	242.7	216.2	163.0	156.3
72.5°	16551.1	1370.1	192.9	159.6	143.0	116.4	163.0	199.6	172.9	119.7	113.1
75°	10708.2	698.3	133.0	103.1	76.5	69.8	119.7	149.6	119.7	73.2	63.1
77.5°	4097.0	292.6	73.2	46.5	39.9	33.2	66.5	89.8	49.9	16.6	13.3
80°	788.1	123.0	36.6	23.3	20.0	13.3	9.9	6.7	0.0	0.0	0.0
82.5°	136.3	39.9	13.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	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)