

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: P971421

Luminaire Tested: **NAV-SB6D-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48339 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

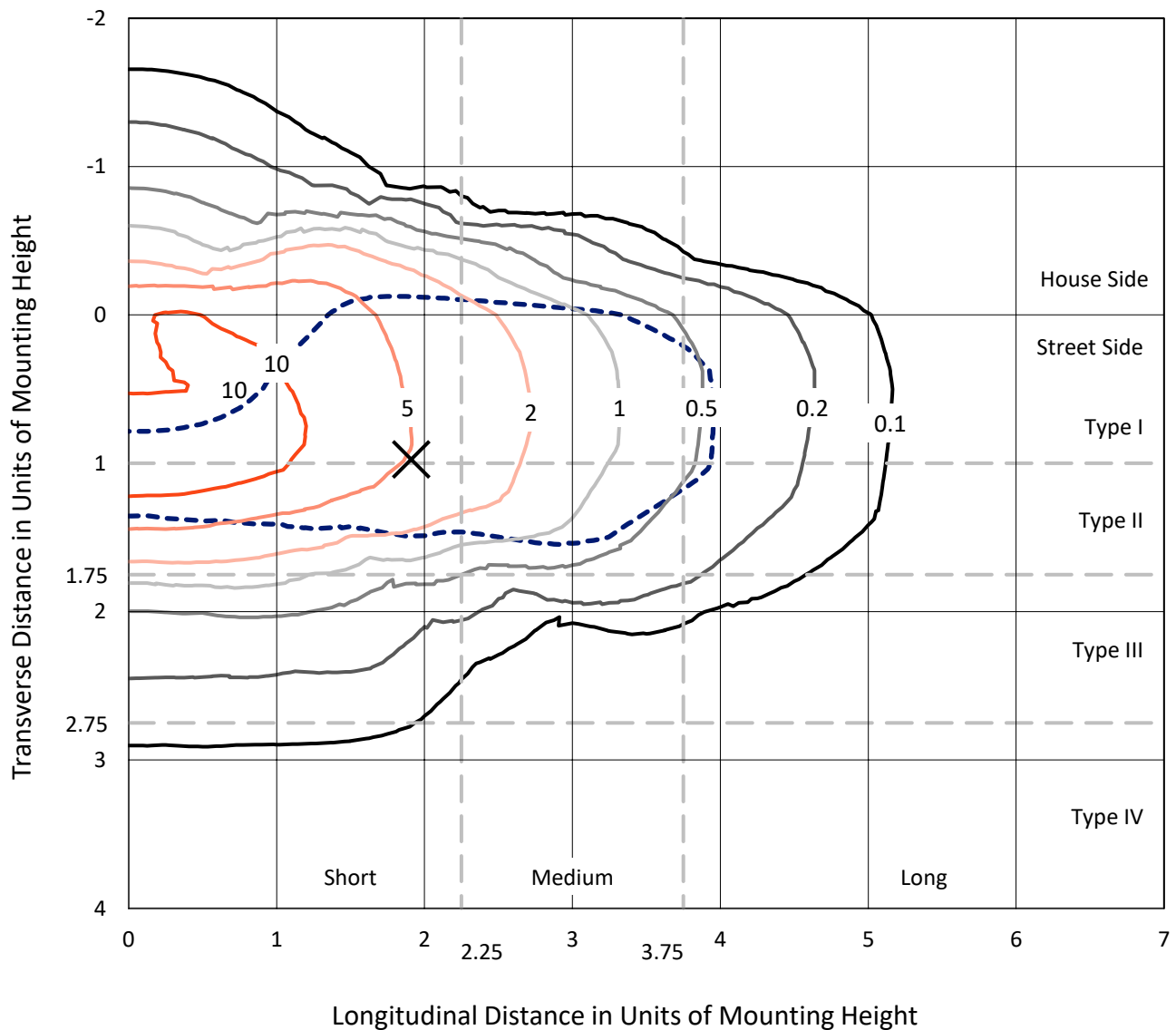
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

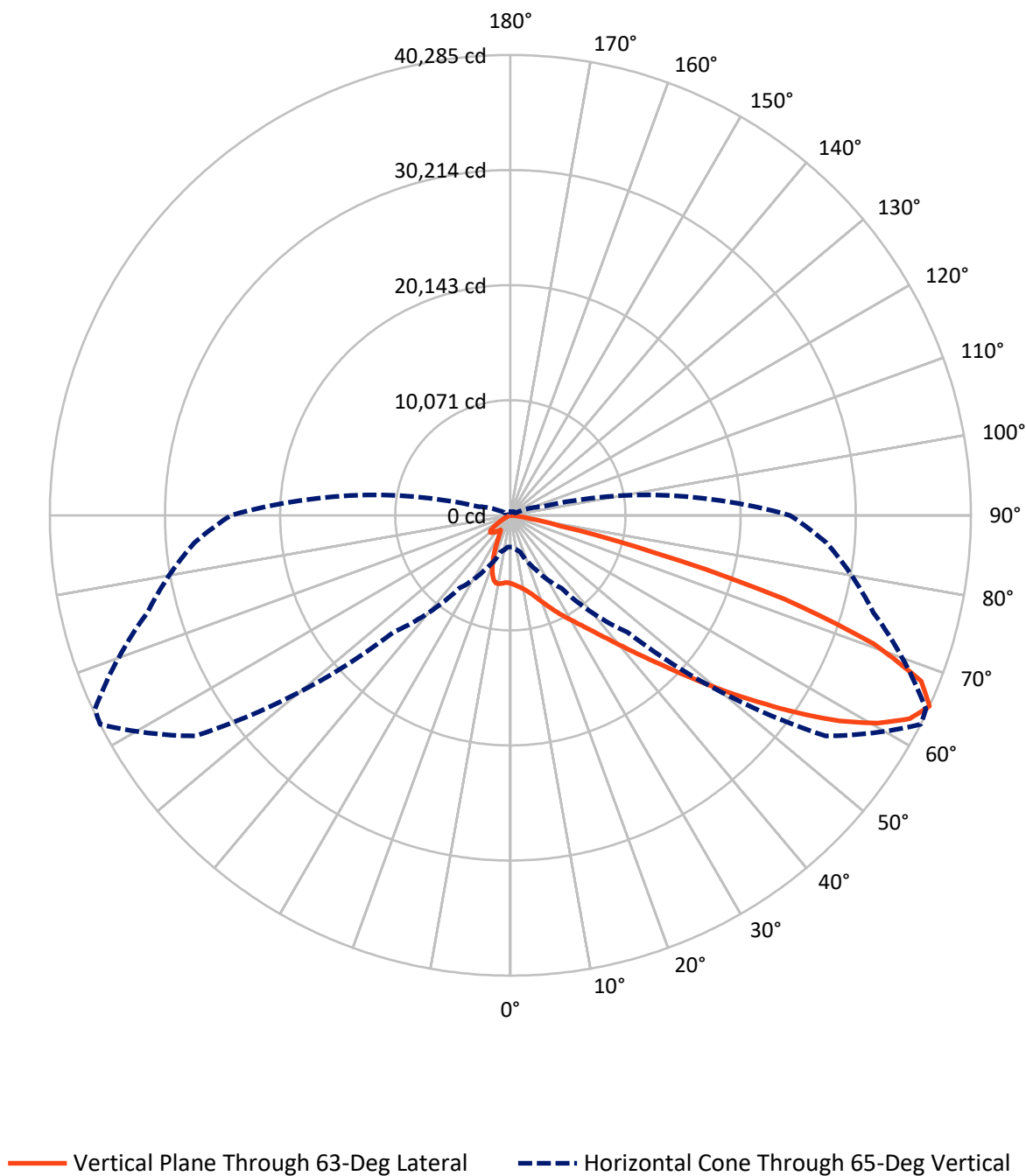
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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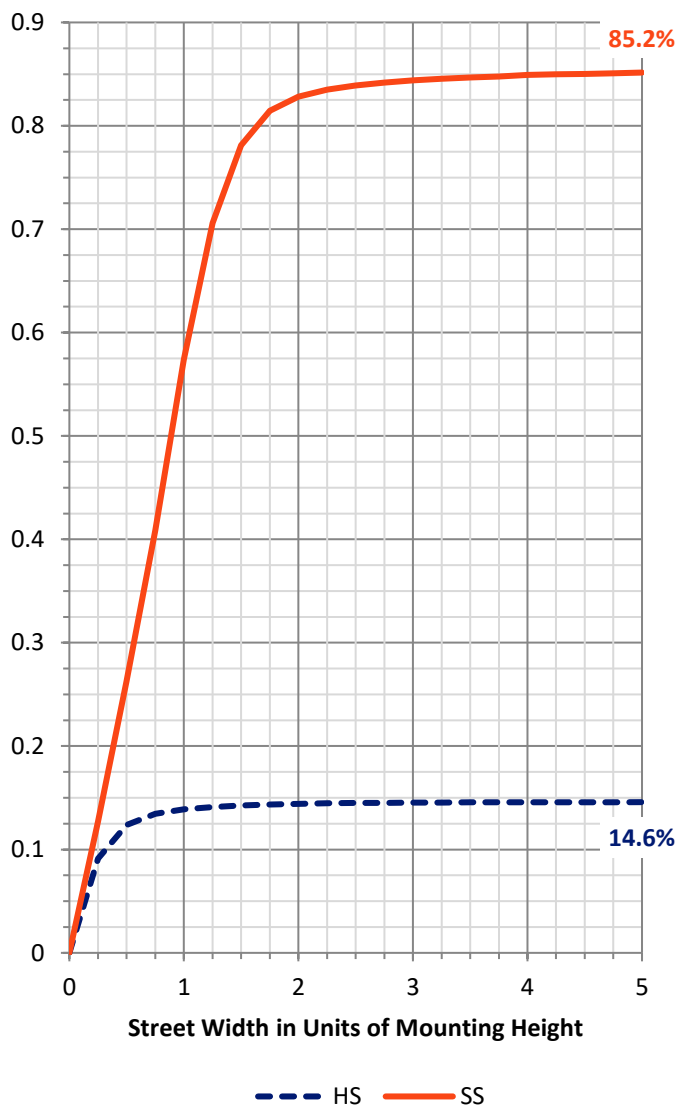
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7105.5	0.0	7105.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	41233.5	0.0	41233.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	48339.0	0.0	48339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	1.2
10°-20°	1559.6	3.2
20°-30°	2715.7	5.6
30°-40°	4894.8	10.1
40°-50°	9707.9	20.1
50°-60°	13223.8	27.4
60°-70°	10555.2	21.8
70°-80°	4776.5	9.9
80°-90°	343.3	0.7
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°	48339.0	100.0
0°-180°	48339.0	100.0

Coefficient of Utilization



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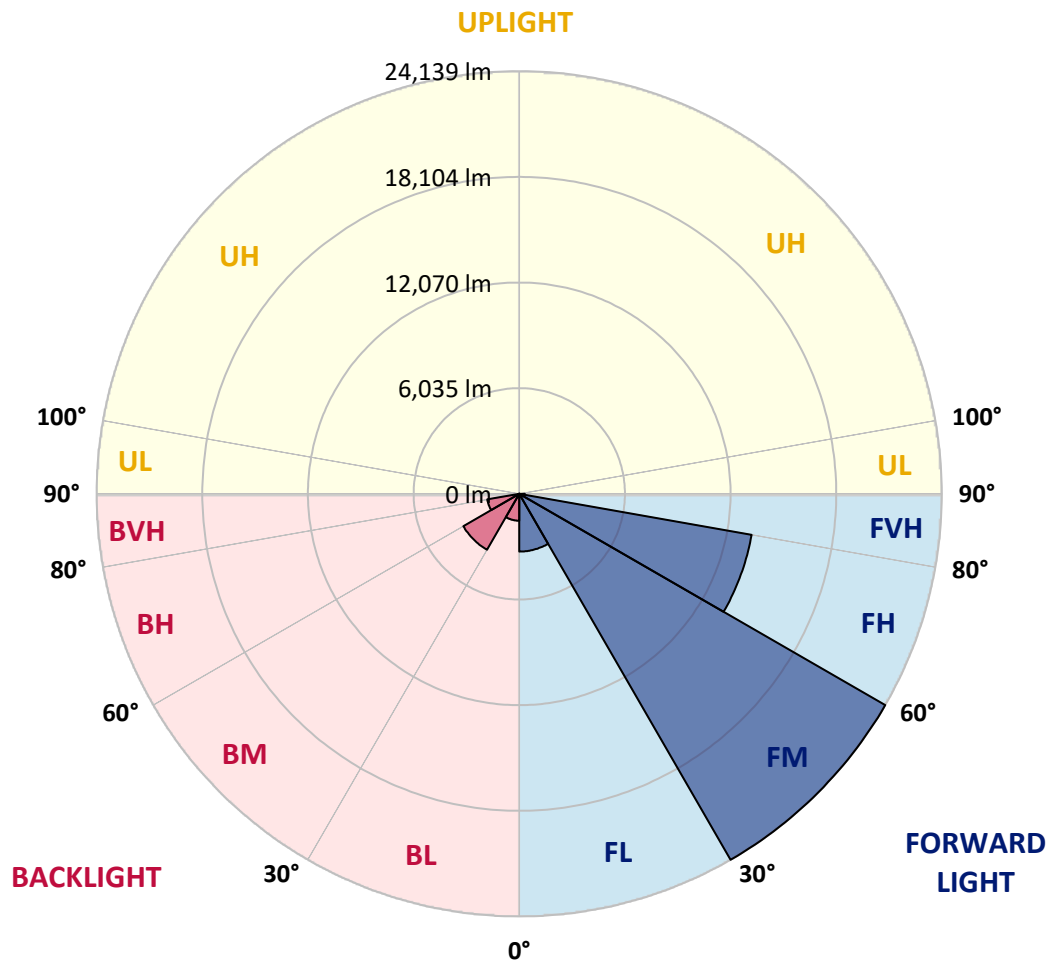
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3299.7	6.8			
FM	(30°-60°)	24139.3	49.9			
FH	(60°-80°)	13476.7	27.9			G5
FVH	(80°-90°)	317.9	0.7			G3/500
BL	(0°-30°)	1537.7	3.2	B3/2500		
BM	(30°-60°)	3687.3	7.6	B3/5000		
BH	(60°-80°)	1854.9	3.8	B3/2500		G3/2500
BVH	(80°-90°)	25.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9
2.5°	6105.6	6089.0	6112.3	6102.3	6095.7	6082.3	6075.7	6069.0	6055.7	6045.8	6005.9
5°	6122.2	6112.3	6135.5	6155.5	6175.4	6195.4	6205.3	6218.7	6205.3	6178.8	6138.8
7.5°	5982.6	5976.0	6025.8	6085.6	6175.4	6252.0	6335.1	6381.6	6384.9	6375.0	6331.7
10°	5972.6	5956.0	6005.9	6079.0	6195.4	6331.7	6478.1	6577.8	6591.2	6634.4	6587.8
12.5°	6128.9	6112.3	6182.1	6261.9	6381.6	6524.6	6704.2	6843.9	6863.8	6923.7	6890.5
15°	6391.6	6368.3	6448.2	6551.2	6704.2	6867.2	7056.7	7183.1	7199.7	7272.9	7213.0
17.5°	6697.6	6674.3	6767.4	6877.1	7043.4	7266.2	7485.7	7625.4	7645.4	7691.9	7582.1
20°	7089.9	7060.0	7133.2	7232.9	7409.2	7675.3	7938.0	8137.5	8134.2	8134.2	7954.6
22.5°	7545.5	7499.0	7562.1	7642.0	7808.2	8130.8	8480.0	8716.1	8716.1	8623.0	8327.1
25°	8034.4	7987.8	8057.7	8130.8	8277.2	8643.0	9052.0	9344.6	9357.9	9198.3	8726.1
27.5°	8646.3	8586.4	8639.6	8726.1	8812.5	9185.0	9670.6	10009.7	10016.4	9770.3	9105.2
30°	9823.5	9654.0	9487.6	9394.5	9434.4	9803.6	10322.4	10698.1	10731.3	10392.2	9517.5
32.5°	11978.5	11945.1	11359.9	10595.0	10196.0	10468.6	11050.6	11502.9	11522.8	11087.2	10053.0
35°	15327.2	15287.4	14346.2	12889.7	11589.4	11359.9	11935.2	12470.7	12457.3	11965.1	10748.0
37.5°	19324.4	19287.9	18047.5	16098.8	13993.7	12706.7	13075.8	13637.8	13721.1	13075.8	11645.9
40°	22739.7	22603.4	21818.6	19939.7	17186.2	14941.4	14698.7	15071.2	15157.6	14392.7	12786.6
42.5°	25327.0	25210.6	24811.6	23637.6	21050.4	18247.0	16610.8	16753.8	16850.3	15932.5	14096.8
45°	26667.2	26640.6	26800.2	26690.5	24987.8	22304.1	19344.4	18749.2	18785.8	17638.4	15583.3
47.5°	26856.7	26843.4	27571.7	28602.6	28373.1	26880.0	22852.8	21236.7	21106.9	19563.9	17199.5
50°	25739.4	25712.7	27109.5	29041.6	30634.5	30724.3	26836.8	24040.0	23754.1	21555.9	18885.5
52.5°	22171.1	22164.5	24459.1	27674.8	31429.3	34089.7	30774.2	27119.4	26640.6	23664.3	20668.0
55°	17059.8	17182.9	19813.4	23614.4	29979.4	35709.3	34309.2	30538.0	29803.1	25785.9	22310.8
57.5°	12084.9	12264.4	14865.0	18250.3	25483.3	34751.5	36700.2	33963.4	33171.9	27900.9	23976.8
60°	6491.3	6651.0	9254.8	13295.4	18958.7	31179.9	37960.6	36936.3	36188.0	29909.5	25480.0
62.5°	3867.5	3920.7	4998.2	8583.1	12823.2	23820.6	37425.2	39201.0	38585.8	31595.5	26786.9
65°	2776.8	2786.8	3328.8	5241.0	7785.0	14472.6	33670.6	40285.1	40095.5	32865.9	27754.6
67.5°	2337.8	2331.2	2557.3	3481.8	5304.2	7249.6	25805.9	38752.1	39556.8	33670.6	28303.3
70°	2005.3	2015.3	2281.3	2550.6	3987.2	4103.7	12829.8	33740.5	35456.5	33883.5	28270.1
72.5°	1493.1	1526.4	1772.5	2324.5	3009.6	2823.4	4429.5	25017.7	28120.5	31924.8	26803.5
75°	1054.2	1070.8	1247.0	1955.4	2244.8	2055.1	2261.4	12932.8	16910.1	24475.7	21938.3
77.5°	811.4	841.3	944.4	1366.7	2211.4	1443.3	1383.4	4476.1	6877.1	14785.2	15041.3
80°	439.0	492.2	681.7	987.7	1553.0	1020.9	685.0	1782.5	2331.2	6913.7	5799.7
82.5°	226.1	252.8	475.5	711.7	884.6	891.2	339.2	741.6	961.0	2135.0	794.8
85°	89.8	109.8	319.3	392.4	455.6	439.0	152.9	299.3	345.8	591.9	242.7
87.5°	20.0	33.2	116.4	89.8	86.5	93.1	36.6	69.8	66.5	69.8	43.3
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°	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9	5965.9
2.5°	6002.5	5989.2	5952.7	5912.7	5866.2	5839.5	5822.9	5819.6	5796.4	5779.7	5796.4
5°	6102.3	6089.0	6019.1	5936.0	5846.2	5776.4	5709.9	5650.0	5563.6	5546.9	5540.3
7.5°	6301.8	6265.2	6152.2	6039.1	5869.5	5666.6	5420.6	5137.9	4885.2	4808.7	4772.1
10°	6547.9	6498.0	6355.0	6155.5	5779.7	5227.7	4632.4	4080.4	3641.4	3518.4	3471.8
12.5°	6827.2	6784.1	6594.4	6225.3	5403.9	4403.0	3491.8	2806.8	2381.1	2274.7	2244.8
15°	7159.8	7096.6	6833.9	6118.9	4732.2	3345.5	2397.7	1992.0	1839.0	1819.1	1799.1
17.5°	7512.3	7409.2	7046.8	5736.5	3827.7	2377.7	1852.3	1735.9	1669.4	1649.4	1639.5
20°	7834.9	7701.8	7173.1	5157.8	2860.0	1852.3	1659.5	1582.9	1523.0	1499.8	1486.5
22.5°	8157.5	7967.9	7173.1	4369.7	2144.9	1642.8	1523.0	1453.2	1383.4	1353.5	1336.8
25°	8493.4	8240.6	7046.8	3491.8	1725.9	1506.4	1393.4	1316.9	1257.1	1220.5	1207.1
27.5°	8819.2	8470.1	6757.4	2660.4	1536.4	1386.7	1273.7	1200.5	1144.0	1117.4	1117.4
30°	9128.4	8696.2	6351.7	2018.5	1413.4	1270.4	1163.9	1100.7	1044.2	1017.6	1020.9
32.5°	9547.5	8982.2	5919.4	1656.1	1306.9	1160.6	1064.2	1004.3	954.4	934.5	934.5
35°	10129.5	9404.5	5546.9	1626.2	1217.1	1070.8	974.4	917.9	868.0	851.4	851.4
37.5°	10954.2	10086.2	5350.7	1825.7	1144.0	991.0	901.2	841.3	794.8	781.5	778.2
40°	11971.8	11010.8	5457.1	2025.2	1094.1	921.2	834.7	774.8	734.9	718.3	714.9
42.5°	13178.9	12151.4	6045.8	2178.2	1060.9	861.3	771.5	705.0	678.4	671.8	671.8
45°	14565.7	13405.1	6946.9	2341.2	1007.7	804.7	708.4	658.5	638.5	635.2	631.8
47.5°	16142.0	14781.8	7991.2	2544.0	954.4	751.5	658.5	625.1	608.5	601.9	601.9
50°	17704.9	16168.6	9065.3	2657.1	911.2	701.7	618.6	591.9	578.6	575.3	575.3
52.5°	19341.1	17595.3	9933.3	2550.6	874.6	661.7	585.3	565.3	552.1	548.7	548.7
55°	20900.8	18749.2	10082.9	2164.9	801.4	621.9	548.7	538.7	522.1	522.1	518.8
57.5°	22244.2	19327.8	9025.4	1589.6	728.3	562.0	512.1	502.1	488.8	485.5	482.2
60°	23478.0	19161.6	6966.9	1070.8	648.5	502.1	465.6	458.9	445.6	429.0	425.7
62.5°	24173.1	18429.9	4765.4	698.3	568.7	439.0	412.4	409.1	379.1	345.8	339.2
65°	24435.8	16926.7	2973.0	508.8	475.5	375.8	355.8	349.2	306.0	269.4	266.1
67.5°	24206.3	14452.6	1499.8	402.4	375.8	312.6	292.6	292.6	262.7	229.5	226.1
70°	23288.5	10834.5	631.8	322.6	289.4	239.4	239.4	252.8	222.8	186.2	182.9
72.5°	21296.5	7289.5	335.9	246.1	216.2	169.6	196.2	206.2	176.3	139.7	139.7
75°	16930.1	4446.1	232.8	182.9	136.3	119.7	149.6	156.3	119.7	93.1	89.8
77.5°	11579.4	2554.0	156.3	116.4	86.5	69.8	103.1	96.5	63.1	43.3	46.5
80°	5084.7	1064.2	89.8	53.2	33.2	26.6	36.6	26.6	20.0	13.3	13.3
82.5°	595.2	249.4	33.2	20.0	13.3	6.7	3.3	0.0	0.0	0.0	0.0
85°	123.0	29.9	16.6	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.3	6.7	3.3	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)