

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: P971484

Luminaire Tested: **NAV-SB6D-750-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-750-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67814 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - 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

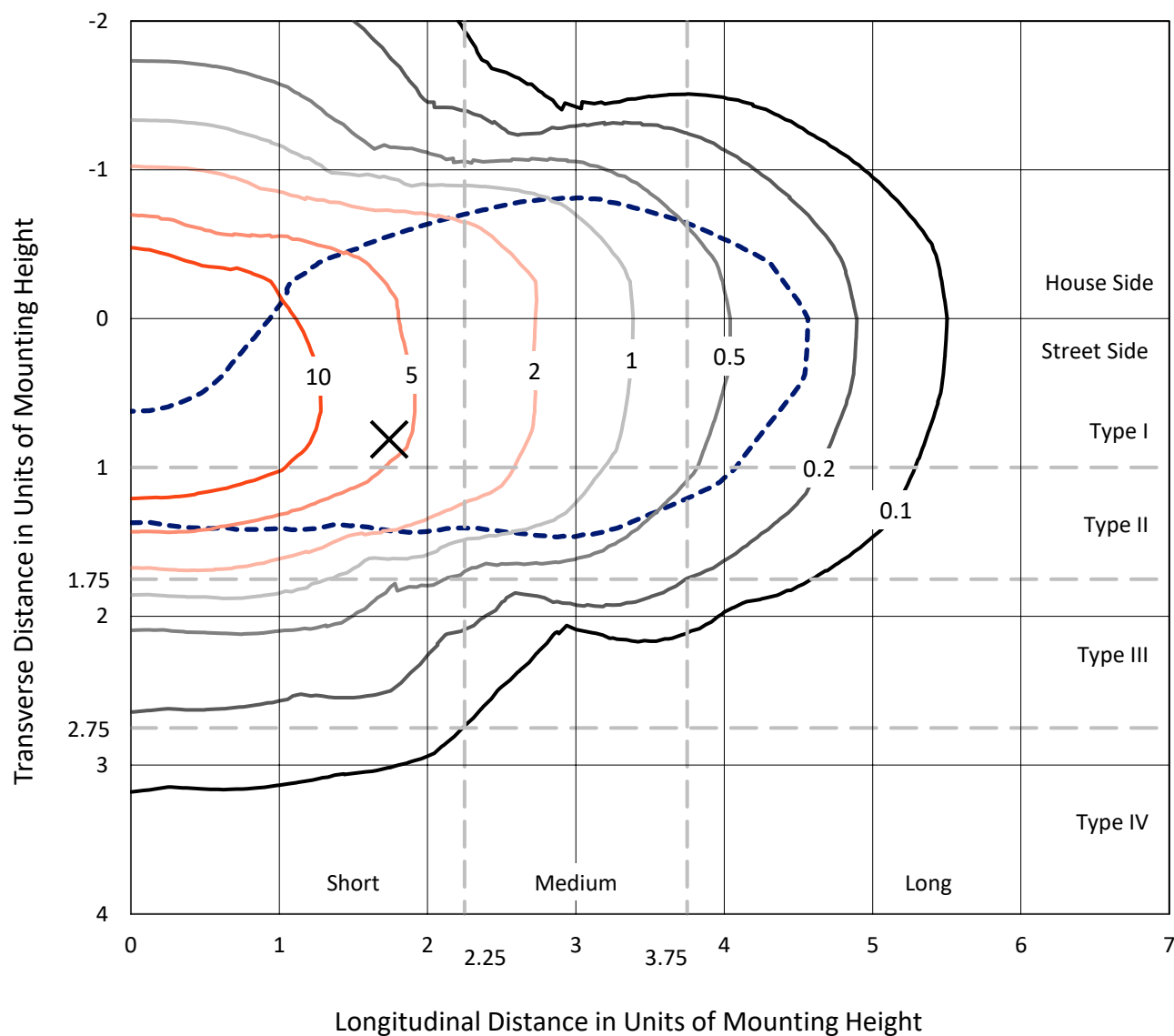


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Iso-Footcandle Lines of Horizontal Illumination

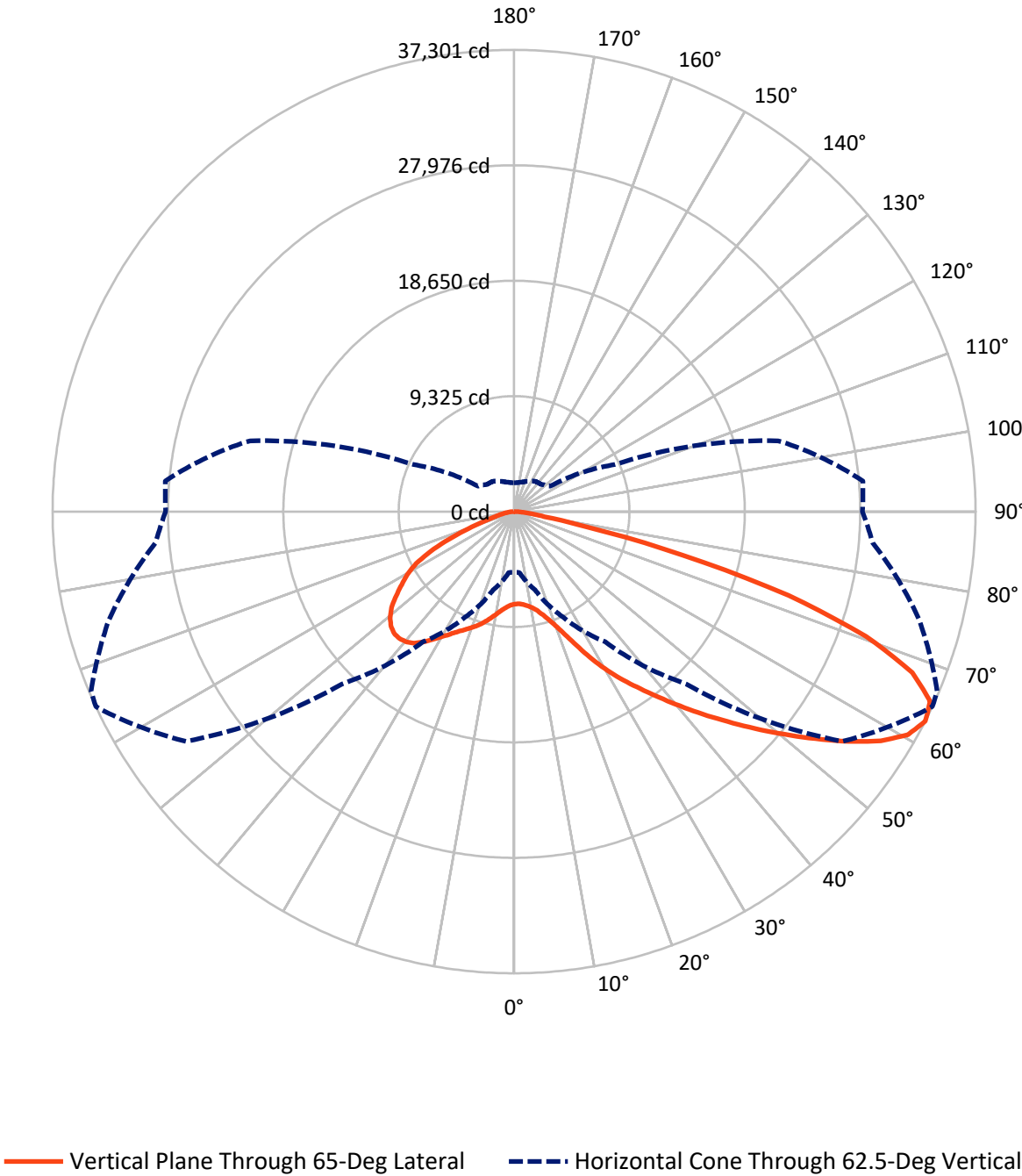
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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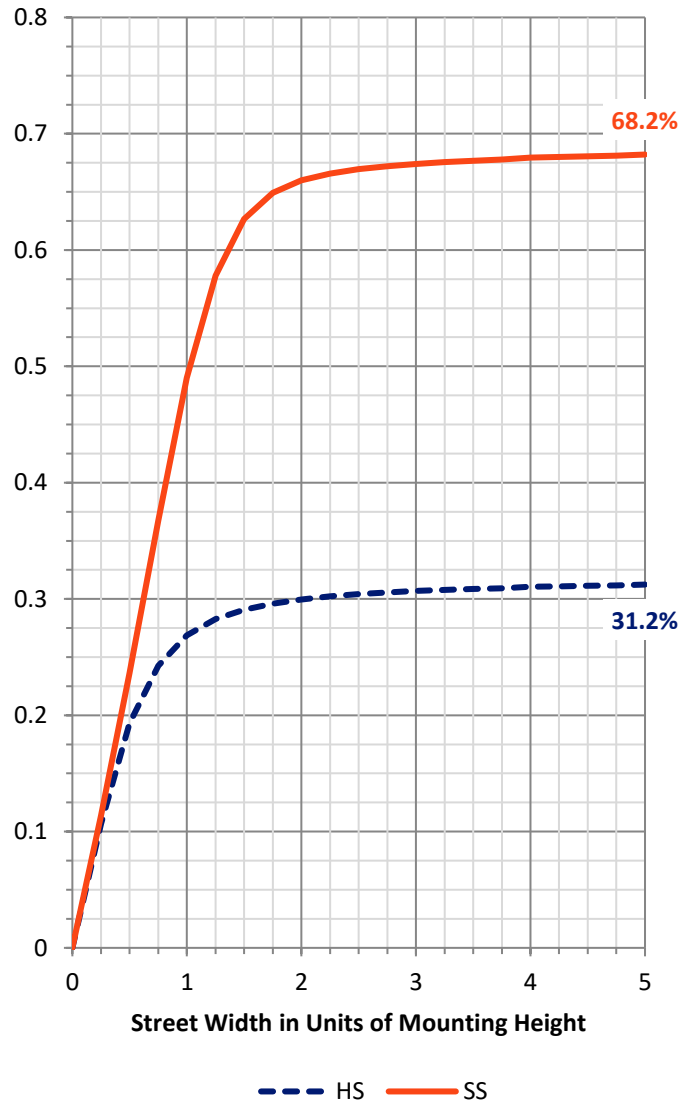
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21399.1	0.0	21399.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	46414.9	0.0	46414.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	67814.0	0.0	67814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.0	1.1
10°-20°	2526.5	3.7
20°-30°	5122.7	7.6
30°-40°	8864.7	13.1
40°-50°	13415.0	19.8
50°-60°	15728.3	23.2
60°-70°	13186.3	19.4
70°-80°	7279.9	10.7
80°-90°	945.6	1.4
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°	67814.0	100.0
0°-180°	67814.0	100.0

Coefficient of Utilization



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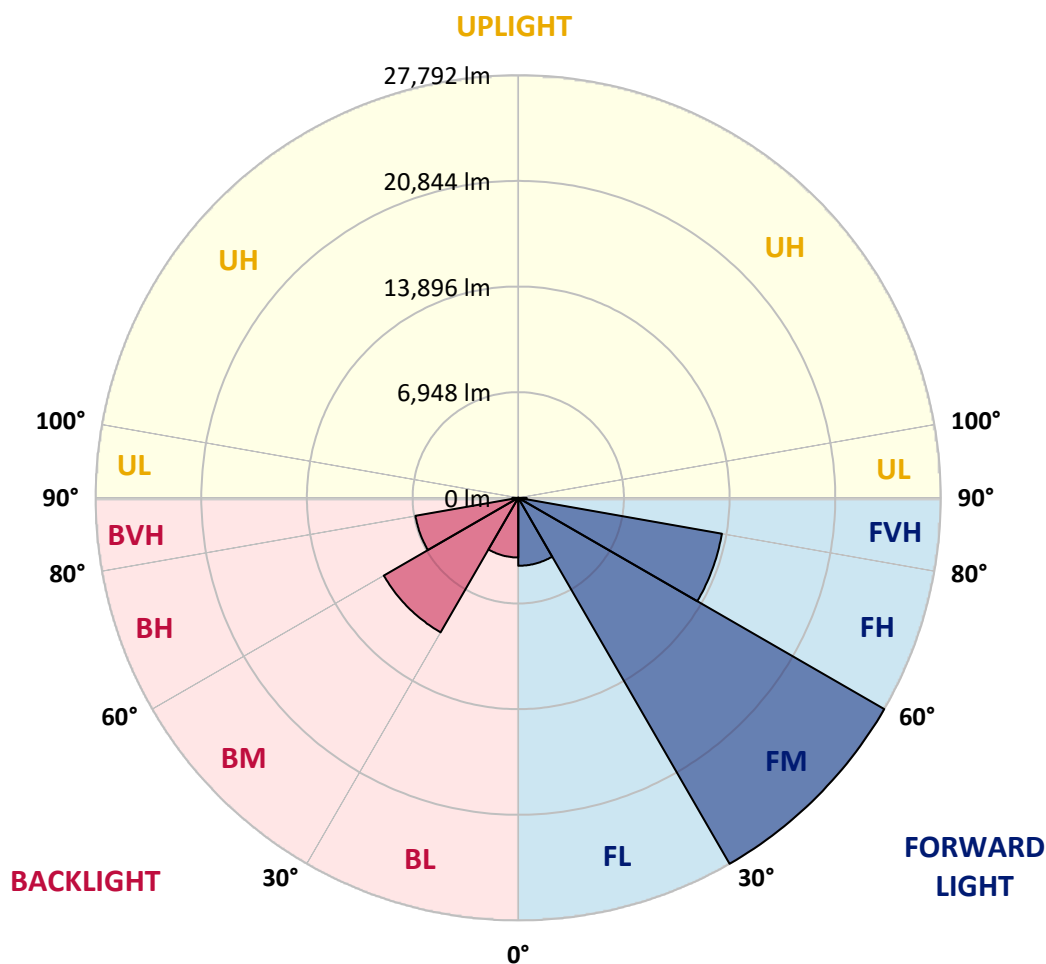
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4469.8	6.6			
FM	(30°-60°)	27792.4	41.0			
FH	(60°-80°)	13601.5	20.1			G5
FVH	(80°-90°)	551.1	0.8			G4/750
BL	(0°-30°)	3924.3	5.8	B4/5000		
BM	(30°-60°)	10215.6	15.1	B5		
BH	(60°-80°)	6864.7	10.1	B5		G5
BVH	(80°-90°)	394.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8
2.5°	7423.6	7402.4	7420.1	7420.1	7427.0	7423.6	7448.2	7455.2	7465.8	7486.9	7486.9
5°	7349.7	7346.2	7377.8	7405.9	7434.1	7458.7	7490.4	7536.1	7543.2	7567.8	7599.5
7.5°	7325.1	7303.9	7353.1	7388.4	7455.2	7515.0	7599.5	7676.8	7708.5	7719.1	7778.9
10°	7515.0	7479.8	7525.6	7546.7	7602.9	7662.8	7761.3	7884.4	7919.7	7961.9	8028.7
12.5°	7838.7	7800.0	7866.9	7898.5	7951.3	8004.0	8071.0	8190.6	8208.1	8285.5	8348.8
15°	8282.0	8236.3	8278.5	8317.2	8405.1	8454.4	8521.2	8637.4	8637.4	8697.1	8742.9
17.5°	8883.7	8823.8	8855.5	8869.5	8925.9	8999.7	9112.4	9214.3	9267.1	9246.0	9182.7
20°	9780.8	9707.0	9707.0	9636.5	9615.4	9675.3	9823.0	9963.7	10020.0	9910.9	9756.2
22.5°	11128.3	11022.7	10962.9	10723.7	10628.7	10635.7	10783.5	10955.9	11001.6	10808.1	10459.8
25°	12841.7	12676.4	12595.4	12243.6	12029.0	11842.5	11958.6	12180.3	12243.6	12004.4	11441.5
27.5°	14555.1	14565.7	14488.3	14066.1	13710.7	13369.4	13309.6	13541.8	13608.7	13337.8	12641.1
30°	16958.1	16708.3	16560.5	16053.9	15547.2	15068.7	14822.5	14917.4	14935.1	14611.4	13802.1
32.5°	19030.4	18967.0	18650.4	18207.1	17556.2	16806.8	16395.2	16243.9	16215.7	15754.9	14794.3
35°	21391.1	21355.9	21021.6	20494.0	19790.3	18748.9	18006.5	17573.7	17538.6	16891.2	15776.0
37.5°	23790.6	23790.6	23463.4	22886.4	22158.0	20856.3	19726.9	19040.9	18928.3	18083.9	16775.1
40°	25704.5	25588.4	25648.2	25405.4	24571.6	23188.9	21637.3	20641.7	20490.4	19477.2	17837.7
42.5°	26791.7	26752.9	27111.8	27382.7	27041.4	25936.7	23741.3	22376.2	22165.1	21011.2	19062.0
45°	27034.4	26992.1	27632.5	28624.7	29103.1	28649.3	26028.1	24202.2	23945.3	22615.5	20374.3
47.5°	26475.0	26390.6	27329.9	28895.6	30429.5	31228.2	28505.0	26183.0	25810.0	24177.6	21721.8
50°	24793.2	24712.3	26133.7	28213.0	30876.4	32980.3	31193.0	28283.3	27713.4	25852.2	23083.4
52.5°	21137.8	21176.5	23403.5	26260.4	30288.7	34070.9	33508.0	30496.4	29810.3	27565.6	24360.6
55°	16465.5	16550.0	19287.1	22432.5	27938.6	33905.6	35087.7	32776.2	32093.7	29177.0	25679.8
57.5°	11789.8	12162.6	14727.5	17841.1	23424.6	31284.4	35432.5	34943.5	34282.0	30936.1	26971.0
60°	7641.7	7708.5	10347.3	13485.5	17837.7	26626.3	34732.3	36586.6	36069.3	32730.5	28051.2
62.5°	4897.4	4943.2	6551.0	9432.5	12838.1	19698.8	32375.1	37300.7	37142.4	33916.1	29089.1
65°	3599.2	3564.0	4401.3	6234.4	8647.9	12148.6	27797.9	36956.0	37269.0	34658.5	29947.5
67.5°	3004.6	2955.4	3367.0	4316.9	6371.6	6899.4	20567.9	34714.8	35861.8	34574.1	30577.3
70°	2737.3	2695.0	2944.8	3205.2	4971.4	4619.5	10368.4	30179.7	31945.9	33613.5	30475.3
72.5°	2318.5	2244.6	2586.0	2846.3	3866.6	3542.9	4285.2	23181.9	25335.0	30535.1	29039.8
75°	1797.8	1748.5	2040.6	2505.0	2906.1	2765.3	2709.1	14076.6	16426.9	23614.7	25405.4
77.5°	1424.9	1358.0	1625.4	1952.6	2614.1	2086.3	1973.7	6062.0	8391.1	15075.8	19009.2
80°	1073.1	1013.2	1234.9	1544.5	2008.9	1572.7	1277.1	2473.3	3162.9	7638.2	9559.2
82.5°	763.4	710.7	862.0	1132.9	1351.1	1410.8	784.5	1386.2	1558.6	2944.8	2135.6
85°	489.0	457.4	577.0	710.7	858.4	907.7	478.5	724.8	795.1	1213.8	890.1
87.5°	267.4	218.1	309.7	330.8	397.6	362.3	228.7	263.8	285.0	439.8	376.5
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°	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8	7472.8
2.5°	7500.9	7511.5	7546.7	7557.2	7581.9	7613.5	7634.6	7655.7	7655.7	7676.8	7676.8
5°	7602.9	7627.6	7701.5	7740.2	7803.5	7866.9	7905.5	7951.3	7979.4	7993.5	8000.5
7.5°	7800.0	7838.7	7944.3	8011.1	8120.2	8208.1	8268.0	8331.3	8345.3	8384.1	8369.9
10°	8067.4	8113.2	8232.8	8359.4	8489.6	8598.6	8655.0	8700.7	8718.2	8725.3	8707.7
12.5°	8373.5	8440.4	8595.1	8749.9	8887.2	8982.2	8996.2	8985.7	8936.4	8894.2	8894.2
15°	8749.9	8809.8	8982.2	9151.0	9284.8	9302.3	9214.3	9158.1	9098.2	9087.6	9087.6
17.5°	9200.3	9232.0	9390.2	9555.7	9566.2	9506.4	9376.2	9323.4	9267.1	9228.4	9232.0
20°	9724.5	9713.9	9826.6	9896.9	9823.0	9640.0	9443.0	9355.1	9298.8	9253.1	9256.6
22.5°	10350.8	10269.9	10255.7	10238.2	10041.1	9657.7	9390.2	9277.7	9189.7	9126.4	9147.5
25°	11262.0	10952.3	10737.8	10618.2	10174.9	9562.6	9221.4	8971.6	8806.2	8697.1	8739.4
27.5°	12401.9	11881.2	11339.4	11047.3	10174.9	9369.1	8813.3	8408.7	8137.8	8025.1	8081.5
30°	13489.1	12943.7	12145.1	11564.6	10150.2	9052.5	8155.3	7592.4	7275.8	7163.2	7230.0
32.5°	14417.9	13823.3	13000.0	12131.0	10090.4	8538.9	7339.1	6716.4	6410.2	6276.6	6343.4
35°	15279.9	14646.5	13858.5	12753.8	9932.0	7785.9	6441.9	5967.0	5625.7	5411.1	5481.5
37.5°	16162.9	15410.1	14671.2	13316.7	9647.1	6906.3	5752.4	5347.7	4946.6	4658.2	4735.6
40°	17123.4	16222.8	15540.2	13650.8	9179.2	6069.0	5217.6	4848.1	4422.5	4116.4	4176.2
42.5°	18245.7	17197.3	16507.7	13823.3	8538.9	5474.4	4869.3	4506.9	4105.8	3856.0	3905.2
45°	19417.3	18270.4	17390.8	13819.8	7824.6	5196.4	4756.7	4397.9	3954.6	3694.2	3736.4
47.5°	20645.2	19392.7	18154.3	13594.6	7205.4	5235.2	4693.4	4162.1	3673.1	3419.8	3455.0
50°	21876.6	20620.5	18893.1	13172.4	6941.5	5150.7	4457.6	3831.3	3254.4	3025.7	3039.7
52.5°	23097.5	21925.9	19529.9	12570.8	6674.2	4837.6	4155.0	3402.2	3082.0	2923.7	2923.7
55°	24325.3	23217.1	20223.0	11694.7	6005.7	4471.8	3648.5	3240.3	2944.8	2800.5	2786.5
57.5°	25556.7	24708.9	20881.0	10818.7	5164.9	4021.4	3370.5	3043.3	2807.6	2684.5	2663.4
60°	26837.4	26415.2	21560.0	10013.0	4334.5	3444.4	3166.4	2885.0	2645.7	2508.5	2497.9
62.5°	28156.7	28293.9	22091.2	8975.1	3571.0	3092.5	2983.5	2695.0	2462.8	2332.6	2329.1
65°	29486.6	30105.9	22439.5	7536.1	2895.5	2758.3	2786.5	2487.4	2251.7	2139.1	2135.6
67.5°	30489.3	31411.1	22341.0	5703.1	2374.8	2441.7	2540.2	2269.2	2047.6	1959.7	1963.2
70°	30601.9	31256.4	21370.0	3905.2	1987.8	2132.1	2265.8	2054.7	1825.9	1762.7	1766.2
72.5°	29103.1	29145.4	18664.4	2550.7	1681.7	1871.8	1977.2	1836.5	1614.9	1551.5	1548.1
75°	25173.3	24103.7	13703.6	1681.7	1407.3	1607.8	1706.3	1607.8	1393.3	1407.3	1358.0
77.5°	19072.6	17070.7	8320.7	1196.2	1175.1	1351.1	1484.7	1414.3	1231.4	1382.7	1217.3
80°	9826.6	9235.5	3711.7	893.6	928.9	1080.1	1220.9	1129.3	974.6	928.9	847.9
82.5°	2251.7	2617.6	1463.6	640.3	672.0	777.6	932.3	847.9	700.2	591.1	584.0
85°	788.1	862.0	647.4	401.1	394.0	485.5	633.2	566.4	475.0	380.0	401.1
87.5°	249.8	327.2	242.7	161.8	168.9	218.1	292.0	267.4	221.6	144.2	151.3
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)