

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: P971617

Luminaire Tested: **NAV-SB6D-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58553.1 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - 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



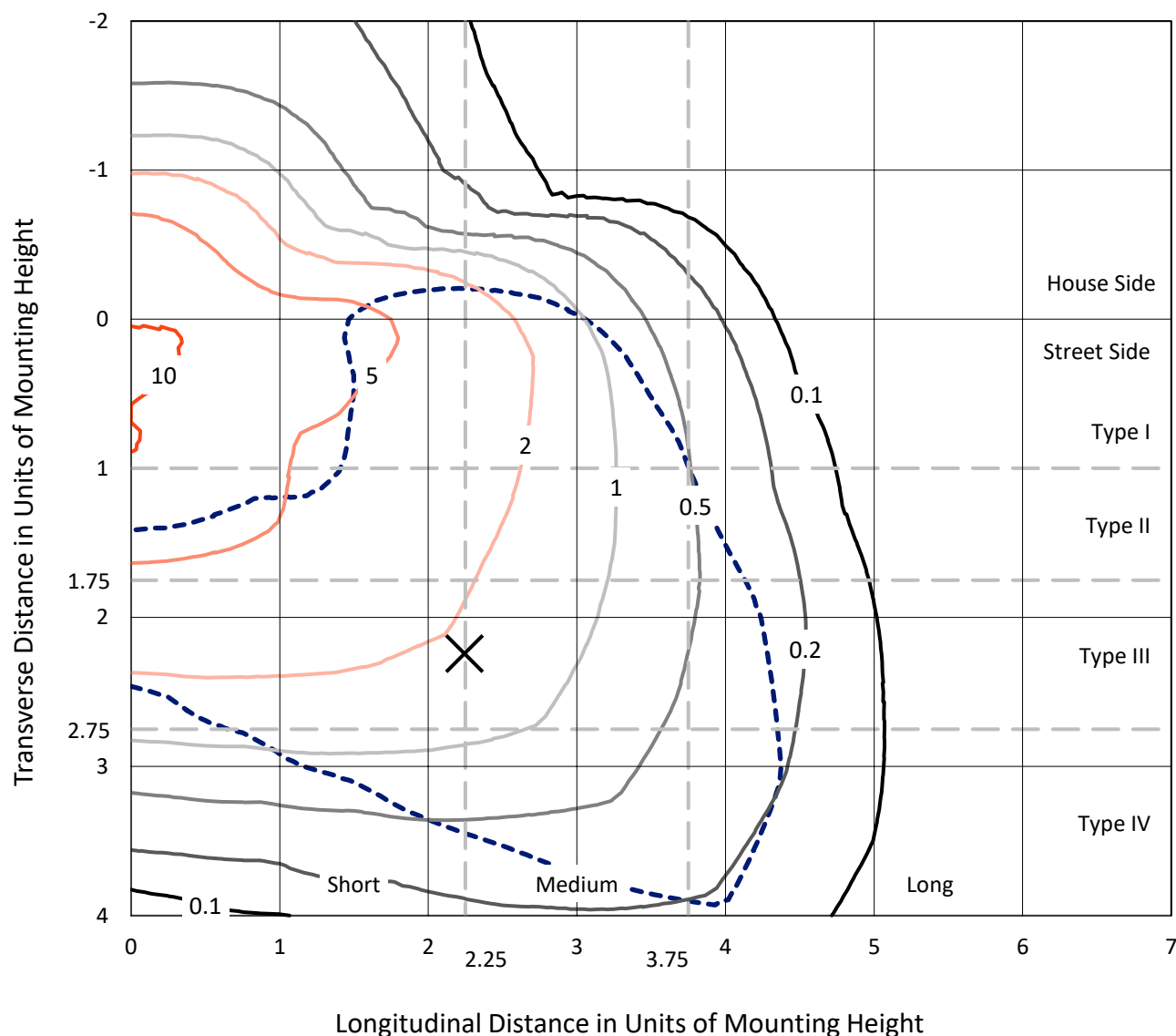
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

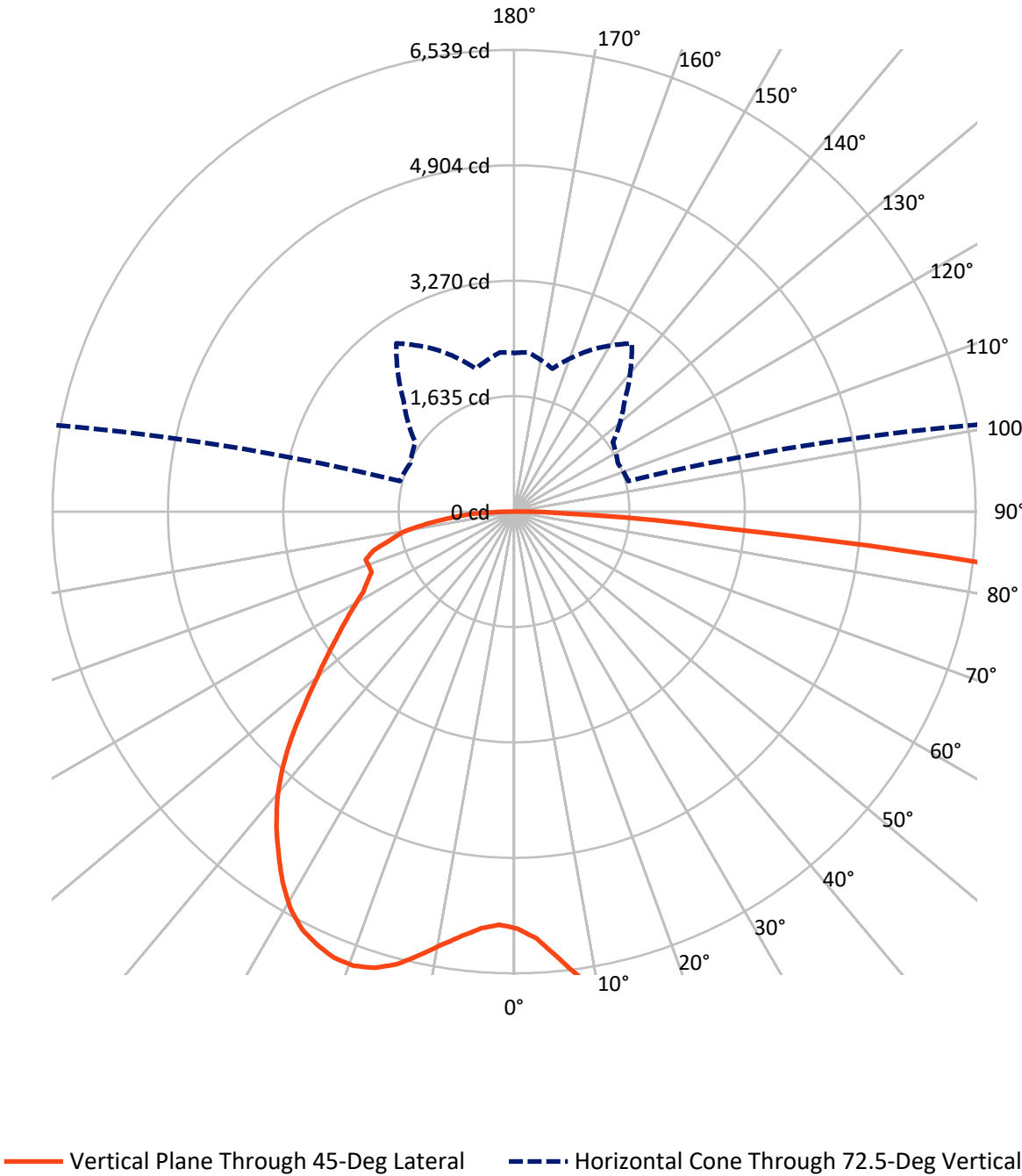


Based on 25 foot mounting height. Maximum calculated value = 11.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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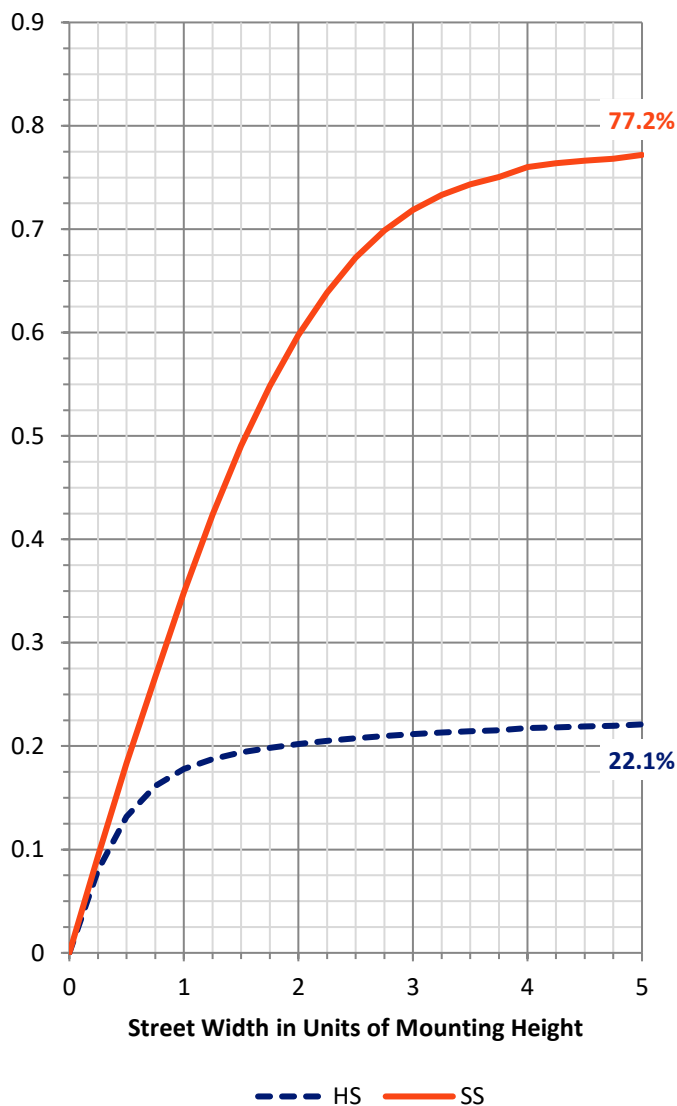
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13236.8	0.0	13236.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	45316.3	0.0	45316.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	58553.1	0.0	58553.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.2	1.0
10°-20°	2004.5	3.4
20°-30°	3486.9	6.0
30°-40°	4998.7	8.5
40°-50°	7038.4	12.0
50°-60°	10780.8	18.4
60°-70°	15617.6	26.7
70°-80°	12471.6	21.3
80°-90°	1553.3	2.7
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°	58553.1	100.0
0°-180°	58553.1	100.0

Coefficient of Utilization



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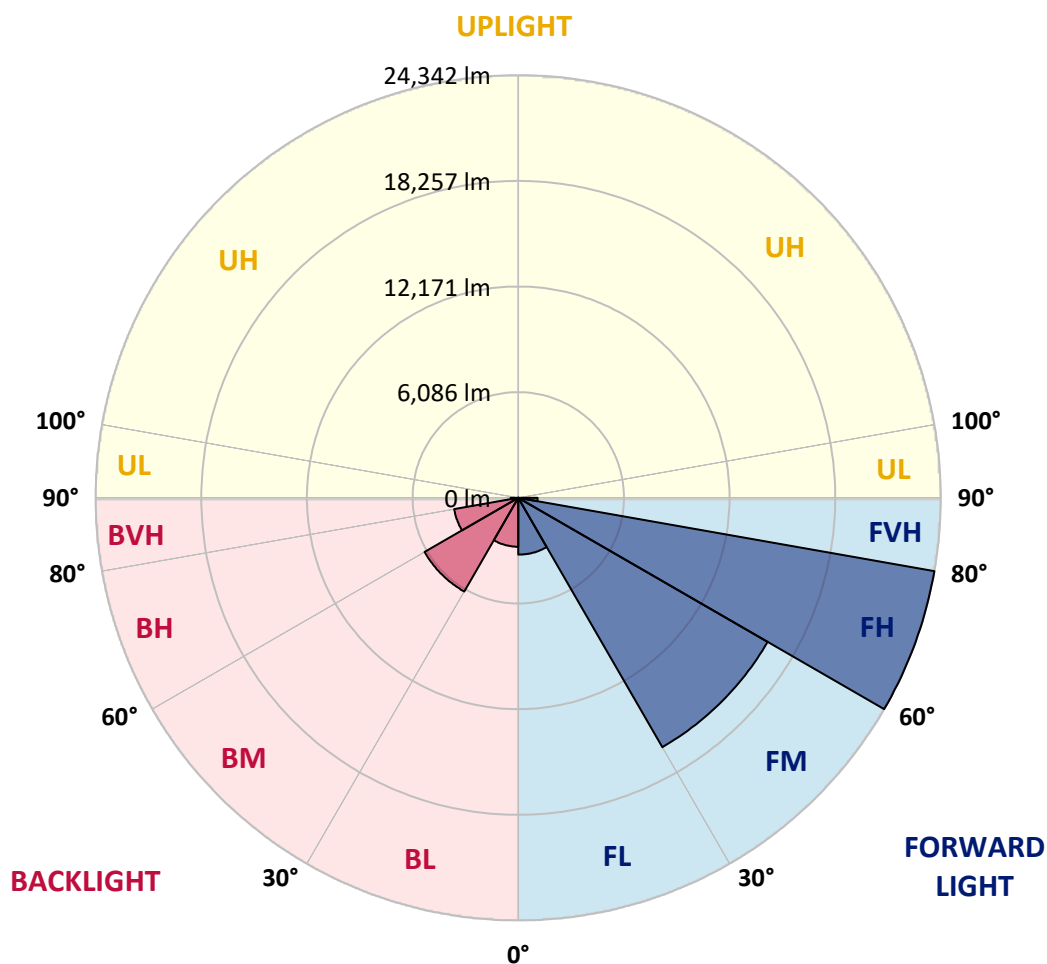
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3274.4	5.6			
FM	(30°-60°)	16585.3	28.3			
FH	(60°-80°)	24342.3	41.6			G5
FVH	(80°-90°)	1114.4	1.9			G5
BL	(0°-30°)	2818.2	4.8	B4/5000		
BM	(30°-60°)	6232.7	10.6	B4/8500		
BH	(60°-80°)	3747.0	6.4	B4/5000		G4/5000
BVH	(80°-90°)	438.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9
2.5°	6138.2	6178.3	6141.3	6107.4	6092.0	6051.8	6048.7	6024.1	6008.7	5965.5	5953.1
5°	6567.0	6619.3	6557.7	6489.9	6428.2	6329.5	6317.1	6246.1	6166.0	6073.4	6021.0
7.5°	7051.2	7097.5	7026.6	6924.8	6816.8	6653.4	6650.2	6520.7	6394.3	6236.9	6147.4
10°	7473.8	7535.5	7439.9	7301.1	7165.4	6980.2	6958.7	6810.6	6650.2	6446.6	6310.9
12.5°	7847.0	7890.2	7797.7	7628.0	7470.7	7285.7	7257.9	7094.4	6915.5	6684.1	6511.4
15°	8143.1	8198.7	8075.3	7893.3	7726.8	7544.7	7520.1	7372.0	7193.1	6949.4	6727.4
17.5°	8337.5	8383.8	8257.3	8053.7	7893.3	7742.1	7723.7	7600.3	7442.9	7196.2	6958.7
20°	8411.5	8460.9	8328.2	8121.6	7973.5	7856.3	7847.0	7757.6	7649.7	7424.5	7183.8
22.5°	8485.6	8531.8	8359.1	8143.1	8013.6	7939.5	7936.5	7877.8	7834.7	7649.7	7415.2
25°	8784.8	8797.1	8565.7	8254.2	8069.1	8004.3	8001.3	7998.2	8016.7	7871.7	7665.1
27.5°	9043.9	9040.7	8843.3	8550.3	8263.4	8127.7	8124.7	8155.5	8214.1	8093.8	7924.2
30°	9423.2	9389.3	9154.9	8849.5	8587.3	8377.5	8359.1	8331.3	8377.5	8282.0	8183.3
32.5°	10228.3	10120.3	9741.0	9198.0	8855.7	8695.3	8670.6	8497.9	8516.4	8457.8	8408.4
35°	11381.9	11240.0	10734.1	9858.1	9188.8	8960.6	8948.2	8729.2	8692.2	8639.7	8658.3
37.5°	12754.5	12578.7	11989.5	10814.4	9762.5	9269.0	9250.5	9053.1	8901.9	8846.5	8951.3
40°	14133.3	13911.2	13423.9	11980.3	10607.7	9784.1	9725.5	9426.3	9253.6	9161.0	9383.2
42.5°	15472.0	15287.0	14870.5	13288.1	11650.3	10536.8	10407.2	9895.1	9765.6	9679.3	10080.3
45°	16656.5	16489.9	16184.5	14685.5	12871.7	11560.8	11434.4	10598.4	10558.3	10558.3	11138.3
47.5°	17618.8	17581.8	17257.9	16110.4	14312.2	12726.8	12507.8	11576.2	11684.2	11850.7	12640.4
50°	18686.1	18584.3	18238.8	17514.0	16005.6	14062.4	13883.4	12776.1	13180.2	13636.7	14811.9
52.5°	19667.0	19722.4	19336.9	18976.0	17918.0	15552.2	15237.5	14191.9	15064.8	15820.6	17356.6
55°	20675.6	20678.7	20570.7	20521.3	19922.9	17199.3	16853.9	15894.6	17282.6	18220.3	20323.9
57.5°	21622.6	21628.7	21789.1	22224.0	22248.6	19099.4	18707.7	17985.9	19747.1	20703.4	23383.8
60°	22467.7	22510.8	22948.9	23966.8	24293.7	21277.1	20906.9	20456.5	22295.0	23257.4	26601.0
62.5°	22751.5	22908.7	23883.5	25330.1	26314.1	23948.3	23584.3	23316.0	24972.4	25866.9	29290.7
65°	22270.3	22631.2	24515.8	26456.0	28393.1	27122.2	26761.3	26468.4	27754.5	28596.7	31499.2
67.5°	21089.0	21554.7	24478.8	27637.4	30916.3	30940.9	30604.7	29916.9	30737.3	31061.2	32217.9
70°	17976.7	18673.8	22322.8	28078.4	33812.6	36163.0	35839.1	34068.6	33713.9	32147.0	30194.4
72.5°	11582.4	12520.1	16437.4	24448.0	34457.2	41076.7	41058.1	37816.4	34654.6	30037.1	24216.6
75°	4225.8	4799.6	7637.3	15345.5	28923.7	40826.8	40947.1	37174.7	31634.9	23201.8	15086.5
77.5°	1539.1	1684.2	2492.3	5897.6	17788.5	32757.7	33007.6	29719.5	22517.1	11644.1	5977.8
80°	808.1	888.4	1276.9	2288.7	7621.9	19454.1	19845.8	17662.0	10583.0	3507.1	1792.1
82.5°	447.2	484.3	715.7	1243.0	3433.0	8319.0	8553.4	6977.2	3723.0	1486.8	740.3
85°	240.6	256.0	336.2	678.6	1678.0	2884.0	2948.8	2085.2	1483.7	872.9	357.8
87.5°	70.9	86.4	111.0	216.0	657.0	647.8	663.2	413.3	586.1	441.1	117.3
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°	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9	5906.9
2.5°	5934.6	5925.4	5891.5	5876.0	5857.6	5854.4	5869.9	5872.9	5876.0	5879.1	5891.5
5°	5990.2	5959.3	5928.5	5909.9	5916.1	5919.2	5950.0	5971.6	5987.0	5999.4	6005.6
7.5°	6098.1	6073.4	6021.0	6017.9	6027.2	6054.9	6095.1	6144.4	6172.1	6193.8	6199.9
10°	6258.5	6212.2	6150.5	6159.8	6178.3	6218.4	6301.7	6341.8	6388.1	6428.2	6418.9
12.5°	6422.0	6381.9	6310.9	6317.1	6347.9	6418.9	6499.1	6548.4	6579.3	6610.1	6622.5
15°	6634.8	6563.9	6486.7	6486.7	6542.3	6619.3	6656.5	6696.5	6715.0	6748.9	6761.3
17.5°	6853.9	6761.3	6659.5	6653.4	6721.2	6758.2	6779.8	6785.9	6792.2	6829.2	6841.5
20°	7072.8	6971.0	6826.1	6813.7	6829.2	6823.0	6819.9	6813.7	6823.0	6869.2	6887.8
22.5°	7288.8	7171.5	6971.0	6915.5	6872.3	6813.7	6810.6	6807.5	6813.7	6860.0	6890.9
25°	7541.6	7399.8	7131.4	6964.9	6819.9	6739.7	6748.9	6752.0	6758.2	6795.2	6844.5
27.5°	7816.2	7658.9	7279.4	6949.4	6687.3	6631.7	6616.3	6625.6	6647.1	6705.8	6764.4
30°	8090.7	7905.6	7415.2	6887.8	6520.7	6443.6	6394.3	6415.8	6483.6	6542.3	6607.0
32.5°	8340.5	8155.5	7523.2	6752.0	6307.8	6187.5	6122.8	6150.5	6218.4	6240.0	6317.1
35°	8633.6	8423.9	7569.4	6536.1	6076.5	5891.5	5805.1	5765.0	5798.9	5777.3	5845.2
37.5°	8960.6	8741.5	7563.3	6252.3	5805.1	5592.3	5472.0	5320.8	5249.8	5175.8	5222.1
40°	9444.9	9130.2	7489.3	5909.9	5468.9	5274.5	5058.6	4802.6	4642.2	4497.3	4506.5
42.5°	10105.0	9670.0	7353.6	5533.7	5089.4	4907.5	4614.4	4315.2	4062.3	3821.7	3800.2
45°	11088.9	10376.4	7183.8	5132.7	4679.2	4500.4	4182.6	3846.4	3559.5	3251.1	3214.1
47.5°	12507.8	11326.4	7023.5	4676.2	4247.4	4083.9	3797.0	3485.5	3146.2	2847.0	2813.1
50°	14457.2	12689.7	6875.4	4232.0	3821.7	3698.3	3470.1	3152.4	2810.0	2569.4	2554.0
52.5°	16937.1	14543.5	6813.7	3803.3	3423.8	3377.6	3195.5	2899.4	2575.6	2372.0	2356.6
55°	19784.1	16761.3	6813.7	3393.0	3075.3	3090.7	2964.2	2689.7	2409.1	2227.0	2208.6
57.5°	22689.8	19006.9	6690.4	3013.6	2779.2	2844.0	2763.7	2523.1	2270.2	2082.1	2051.2
60°	25367.1	20888.4	6190.7	2668.1	2517.0	2618.8	2566.3	2359.7	2051.2	1893.9	1869.2
62.5°	27424.5	21949.5	5228.3	2393.6	2301.0	2418.3	2390.5	2143.8	2011.2	1946.4	1924.7
65°	28454.7	21776.7	3997.5	2149.9	2119.1	2301.0	2242.5	2233.2	2128.3	2054.3	2029.6
67.5°	27822.4	20290.0	2899.4	1971.0	2014.2	2193.1	2418.3	2455.3	2260.9	2116.0	2091.3
70°	25049.5	17600.3	2159.2	1801.3	1881.6	2196.2	2757.6	2569.4	2217.8	2048.2	2020.4
72.5°	19056.2	13124.7	1674.8	1622.5	1708.8	2211.6	2908.7	2517.0	2094.4	2264.0	2245.6
75°	10897.6	7205.4	1344.9	1403.4	1492.9	2066.6	2831.6	2381.3	1998.7	2079.0	2079.0
77.5°	4154.8	2769.9	1110.4	1187.6	1199.9	1804.4	2708.3	2372.0	1903.1	1856.9	1693.4
80°	1440.4	1082.7	919.2	943.8	928.4	1603.9	2597.1	2063.5	1557.7	1394.2	1348.0
82.5°	589.2	539.8	728.0	697.1	660.1	1246.2	2097.5	1687.3	1273.9	1125.9	1113.6
85°	256.0	342.3	481.2	422.6	382.5	863.7	1681.1	1428.1	1076.5	928.4	925.4
87.5°	52.5	129.6	203.6	191.3	197.4	576.8	1193.7	1014.9	761.9	570.6	447.2
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)