

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: P970366

Luminaire Tested: **NAV-SB6B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35649.5 lumens
Efficiency: N/A
Efficacy: 161.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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

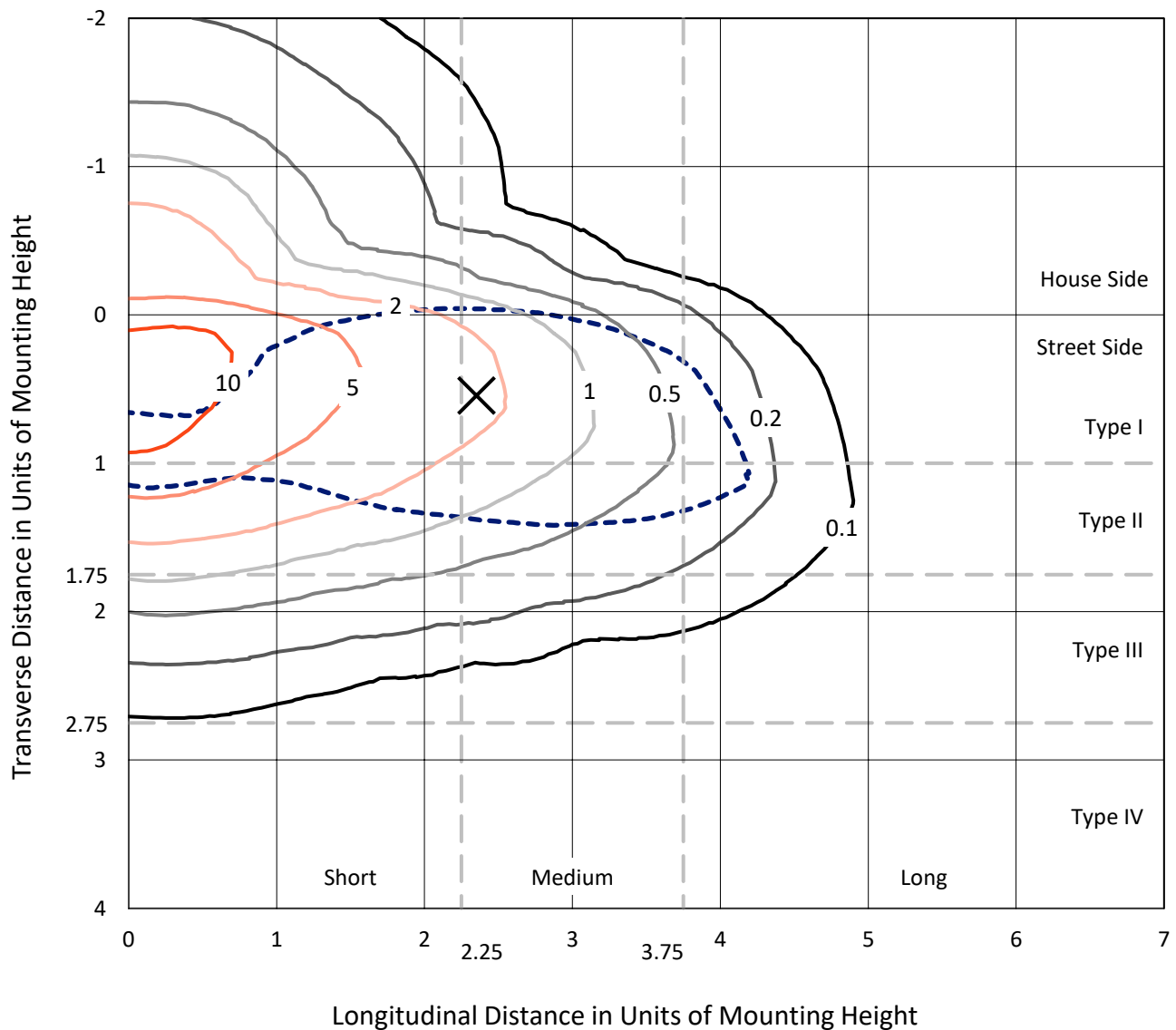


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Iso-Footcandle Lines of Horizontal Illumination

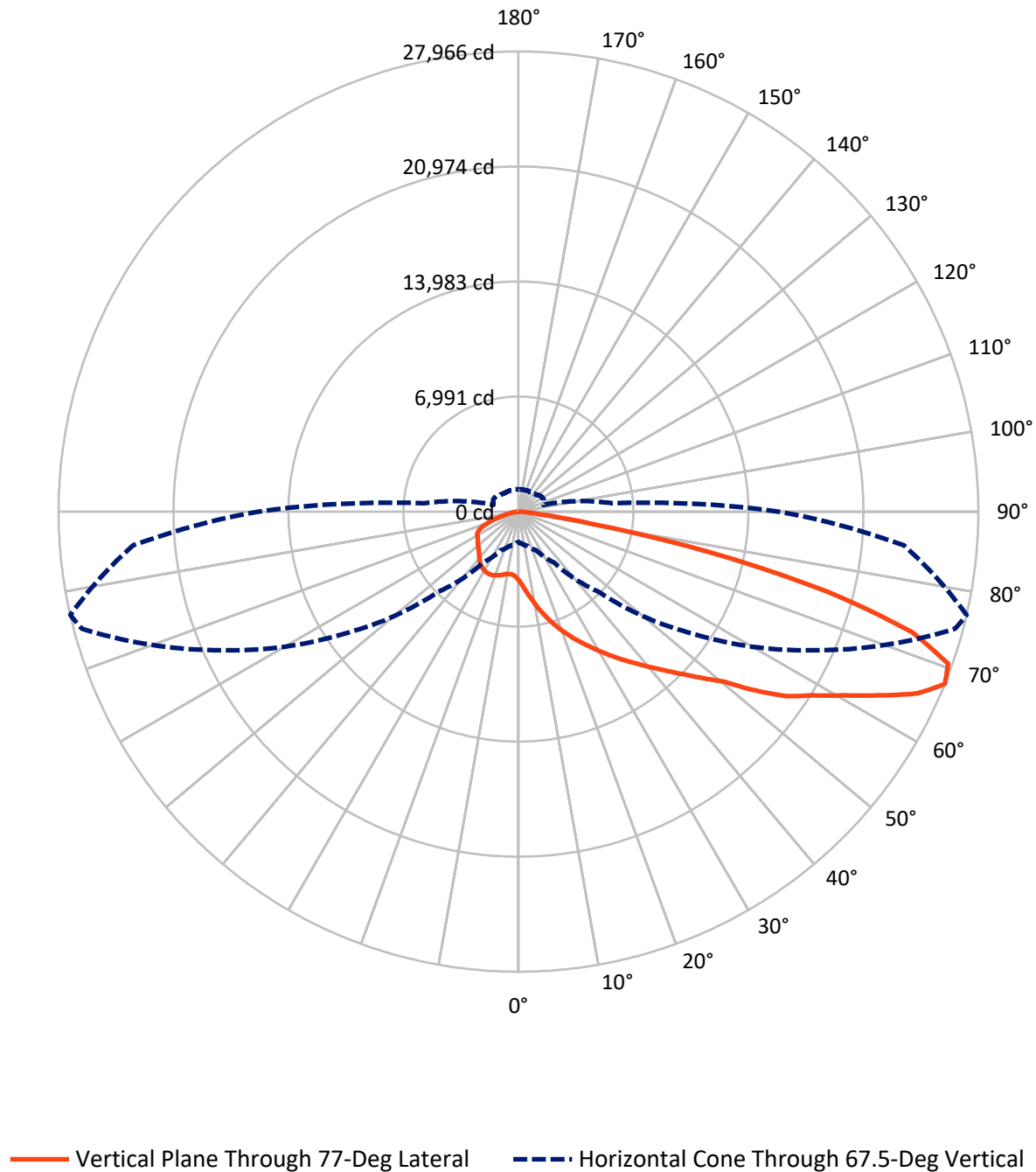
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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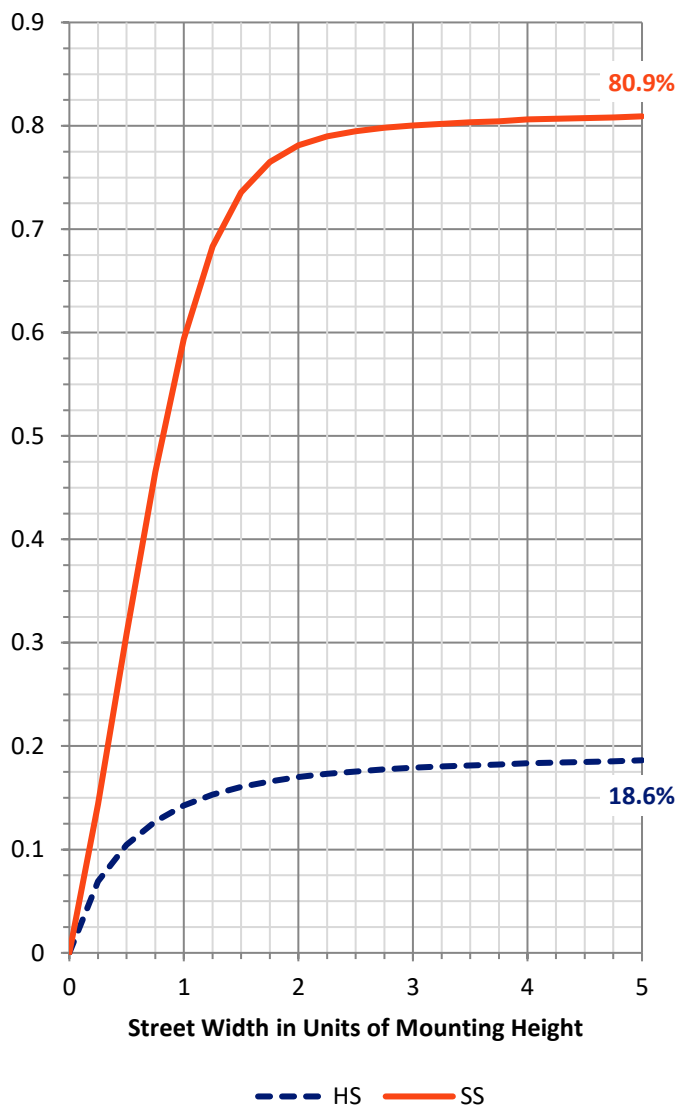
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6743.5	0.0	6743.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	28906.0	0.0	28906.0
	% Fixture	81.1	0.0	81.1
Total	Lumens	35649.5	0.0	35649.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.3	1.3
10°-20°	1610.7	4.5
20°-30°	3041.2	8.5
30°-40°	4899.3	13.7
40°-50°	6701.3	18.8
50°-60°	7559.1	21.2
60°-70°	7055.5	19.8
70°-80°	3867.6	10.8
80°-90°	466.5	1.3
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°	35649.5	100.0
0°-180°	35649.5	100.0

Coefficient of Utilization



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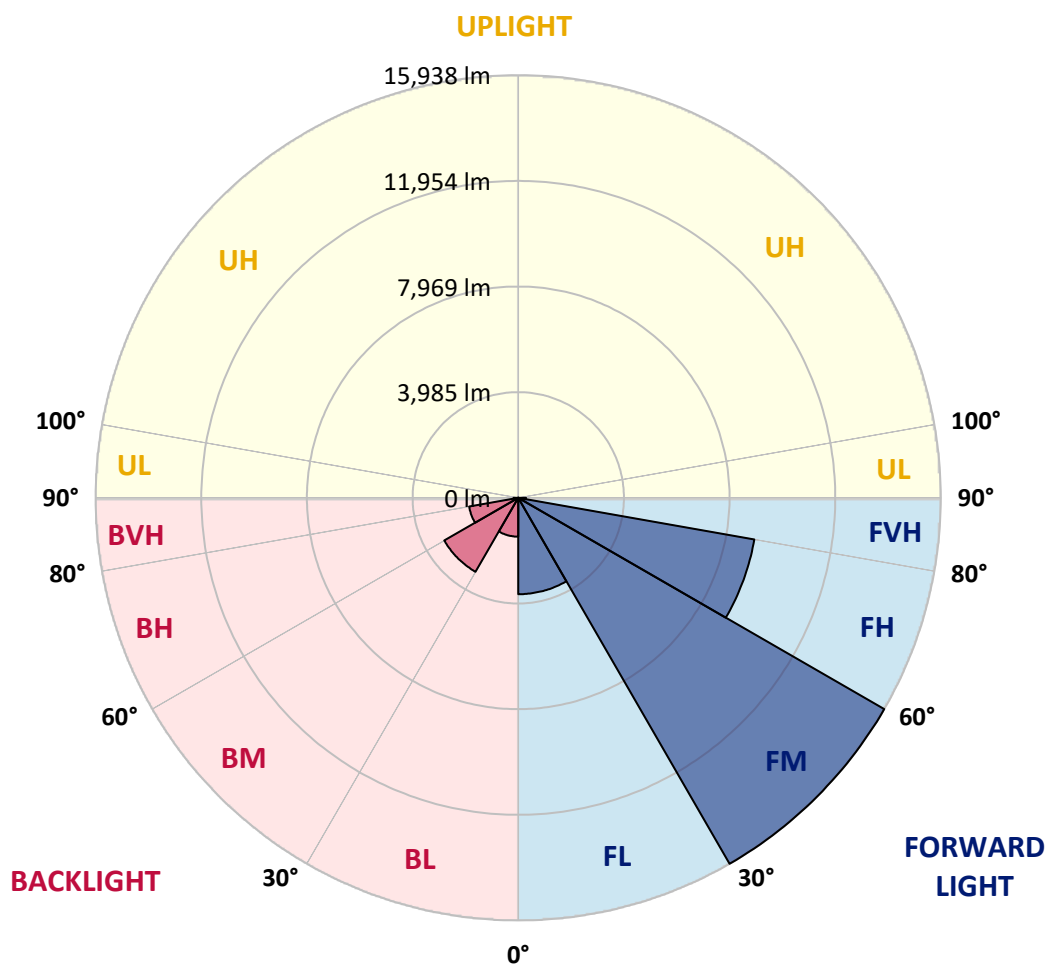
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3634.0	10.2			
FM	(30°-60°)	15938.5	44.7			
FH	(60°-80°)	9041.8	25.4			G4/12000
FVH	(80°-90°)	291.8	0.8			G3/500
BL	(0°-30°)	1466.2	4.1	B3/2500		
BM	(30°-60°)	3221.2	9.0	B3/5000		
BH	(60°-80°)	1881.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	174.8	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8
2.5°	5237.2	5274.0	5228.0	5228.0	5073.4	4992.5	4837.9	4720.1	4508.5	4471.7	4331.9
5°	6190.5	6236.5	6172.0	6144.5	5962.3	5794.8	5535.3	5279.6	4902.3	4863.6	4534.3
7.5°	6928.4	6987.3	6930.2	6900.8	6738.9	6551.2	6247.5	5890.5	5358.7	5283.3	4806.6
10°	7530.2	7539.3	7520.9	7532.0	7405.0	7250.4	6939.5	6523.5	5859.2	5756.2	5136.1
12.5°	7870.6	7912.9	7949.7	8015.9	7993.9	7898.1	7618.4	7121.6	6389.2	6256.7	5494.8
15°	8030.7	8104.3	8187.1	8339.8	8463.1	8487.0	8273.6	7763.9	6928.4	6768.3	5857.4
17.5°	8087.8	8157.7	8288.3	8509.1	8774.1	8952.7	8856.9	8387.7	7462.0	7278.0	6238.4
20°	8376.6	8396.9	8476.0	8685.7	8972.8	9269.2	9340.9	8987.6	7990.2	7782.2	6632.2
22.5°	8995.0	8954.5	8976.5	9072.3	9278.3	9565.4	9729.2	9517.5	8533.0	8293.8	7029.6
25°	10016.3	9898.5	9780.8	9670.3	9775.2	9937.2	10123.0	10047.6	9101.7	8798.1	7430.7
27.5°	11306.3	11162.7	10903.2	10540.7	10413.7	10470.8	10553.6	10538.8	9627.9	9320.6	7844.8
30°	12576.0	12408.5	12099.4	11574.9	11239.9	11089.1	11026.5	10984.2	10200.3	9872.7	8262.5
32.5°	13590.0	13457.4	13153.8	12566.8	12081.0	11823.4	11615.4	11464.5	10798.4	10470.8	8704.2
35°	14476.9	14353.6	14005.8	13365.4	12837.3	12563.1	12290.8	11968.7	11420.3	11089.1	9179.0
37.5°	15286.6	15163.3	14686.7	14020.6	13488.7	13299.2	13056.2	12509.7	12044.2	11731.3	9681.3
40°	15798.2	15770.5	15325.3	14570.8	14018.7	13924.8	13843.9	13137.2	12736.0	12445.3	10233.4
42.5°	15928.8	15989.6	15636.3	15016.1	14489.8	14414.4	14603.9	13847.5	13512.7	13234.8	10859.1
45°	15614.1	15789.0	15557.1	15135.8	14824.7	14784.2	15277.4	14624.2	14372.0	14118.0	11613.6
47.5°	14817.4	15113.6	15018.0	14959.1	14914.9	15089.7	15870.0	15448.6	15345.5	15124.7	12474.8
50°	13209.0	13770.3	13937.7	14309.4	14736.4	15327.1	16409.1	16348.4	16482.7	16260.1	13523.6
52.5°	10428.5	11201.3	12173.0	13104.1	14188.0	15248.0	17001.7	17640.2	18207.0	18085.6	15190.9
55°	8608.5	8956.2	9703.5	11411.1	13124.4	14914.9	17268.5	18683.6	19918.4	19809.9	16455.1
57.5°	7210.0	7520.9	7981.0	9407.1	11516.0	14158.5	17434.1	19320.3	21090.6	21079.6	17702.8
60°	5710.2	6039.6	6510.7	7520.9	9637.2	12852.1	17397.3	20045.4	22586.7	22678.7	19224.7
62.5°	4017.2	4379.7	4902.3	5844.5	7717.8	11159.1	16646.5	20569.8	24347.7	24598.1	21055.7
65°	2640.7	2879.9	3273.7	4087.1	5750.7	8982.1	15213.0	20638.0	26232.2	26655.4	22774.4
67.5°	1851.3	1943.3	2175.2	2616.8	3790.9	6887.9	12929.3	19933.2	27489.1	27965.7	23519.8
70°	1444.5	1490.6	1608.3	1785.0	2381.3	4631.8	9907.6	18100.3	27220.4	27717.2	22741.3
72.5°	1247.6	1291.8	1336.0	1358.1	1597.3	2859.6	6711.3	15133.9	24690.1	25026.8	19773.1
75°	1131.7	1142.8	1179.6	1172.2	1218.2	1854.9	3873.7	11026.5	19480.4	19364.5	14596.5
77.5°	951.4	966.1	1026.8	1017.6	1082.1	1267.9	2011.4	7116.1	12629.3	11841.7	8124.6
80°	806.1	813.3	879.7	868.6	940.3	918.3	1026.8	3627.1	5356.9	4538.0	2342.5
82.5°	279.7	345.9	671.7	691.9	717.7	555.8	592.6	1479.5	1635.9	1253.2	491.4
85°	136.2	145.3	342.2	485.8	484.0	279.7	288.9	528.2	515.3	404.9	163.8
87.5°	22.0	27.6	40.5	189.5	150.9	73.6	99.3	103.0	106.7	92.0	36.8
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°	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8	4182.8
2.5°	4228.8	4136.8	3943.6	3765.0	3625.2	3490.8	3415.4	3351.0	3314.2	3306.9	3306.9
5°	4342.9	4153.3	3801.8	3505.6	3312.4	3168.9	3093.3	3045.6	3021.6	3006.9	3005.1
7.5°	4506.7	4228.8	3728.2	3391.5	3189.1	3086.1	3047.4	3040.0	3038.2	3040.0	3045.6
10°	4733.0	4352.0	3720.9	3363.9	3194.6	3137.5	3135.7	3137.5	3144.9	3146.7	3148.6
12.5°	4977.8	4479.0	3750.4	3387.8	3264.5	3233.3	3227.7	3225.9	3231.4	3235.1	3237.0
15°	5244.6	4646.5	3800.0	3439.4	3341.8	3308.7	3303.2	3292.1	3290.2	3288.4	3286.7
17.5°	5518.8	4812.2	3855.2	3494.5	3391.5	3345.5	3325.3	3299.5	3279.3	3273.7	3279.3
20°	5796.7	4976.0	3893.9	3522.2	3395.2	3330.7	3290.2	3246.2	3211.1	3190.9	3198.3
22.5°	6092.9	5147.0	3917.8	3514.8	3362.1	3273.7	3200.2	3148.6	3095.2	3060.2	3062.1
25°	6381.9	5296.1	3916.0	3476.2	3297.6	3185.4	3091.5	3025.3	2951.7	2914.9	2914.9
27.5°	6659.7	5430.4	3870.0	3408.0	3205.7	3080.5	2968.3	2889.2	2817.3	2782.4	2780.5
30°	6946.8	5542.7	3798.2	3308.7	3097.0	2959.1	2835.8	2767.7	2703.2	2670.1	2668.3
32.5°	7232.0	5645.8	3697.0	3185.4	2972.0	2839.5	2718.0	2655.5	2616.8	2616.8	2618.6
35°	7533.9	5717.6	3562.6	3041.9	2839.5	2712.5	2616.8	2579.9	2576.3	2554.2	2548.7
37.5°	7852.2	5763.6	3398.9	2894.6	2708.8	2589.1	2559.7	2515.6	2478.8	2430.9	2423.5
40°	8187.1	5809.5	3202.0	2741.9	2570.8	2504.5	2491.7	2432.7	2327.9	2210.1	2193.5
42.5°	8593.8	5840.9	2997.7	2589.1	2425.4	2403.3	2421.7	2320.5	2153.0	2064.8	2066.6
45°	9064.9	5892.3	2810.0	2438.3	2276.3	2276.3	2353.6	2221.2	2083.1	2027.9	2037.1
47.5°	9675.8	6011.9	2635.2	2272.6	2138.4	2175.2	2202.7	2101.6	2024.3	1956.1	1954.3
50°	10559.1	6299.0	2454.9	2105.2	2033.4	2107.0	2068.3	2009.5	1919.3	1864.2	1858.6
52.5°	11655.9	6468.4	2294.8	1954.3	1943.3	2016.9	1961.6	1906.5	1838.3	1764.7	1750.1
55°	12403.0	6499.6	2160.4	1843.9	1882.5	1875.1	1854.9	1805.2	1768.4	1671.0	1672.8
57.5°	13238.5	6562.2	2050.0	1777.7	1843.9	1762.9	1755.5	1713.2	1665.4	1599.1	1577.1
60°	14237.7	6659.7	1954.3	1751.8	1810.8	1689.3	1652.5	1635.9	1588.1	1554.9	1564.1
62.5°	15327.1	6748.1	1856.8	1755.5	1772.1	1617.6	1562.3	1556.8	1527.4	1516.3	1516.3
65°	16070.6	6507.0	1735.3	1751.8	1711.4	1544.0	1474.1	1472.2	1448.2	1444.5	1442.7
67.5°	15811.0	5743.3	1571.5	1700.4	1648.8	1470.4	1393.1	1385.7	1354.4	1356.3	1356.3
70°	14511.8	4653.9	1345.2	1573.4	1571.5	1404.0	1308.4	1284.4	1242.1	1249.5	1256.9
72.5°	12075.4	3448.5	1041.6	1361.7	1448.2	1343.4	1210.8	1172.2	1118.9	1126.2	1124.3
75°	8720.7	2344.4	758.2	1036.1	1260.5	1271.6	1115.2	1048.9	984.5	995.6	999.3
77.5°	4462.5	1328.6	557.6	714.0	990.0	1155.7	1028.7	940.3	925.6	1028.7	1013.9
80°	1455.6	666.1	386.4	500.5	649.5	945.9	901.7	800.5	796.8	820.7	704.8
82.5°	434.3	281.6	248.5	329.4	358.9	725.1	778.4	605.5	520.8	548.4	566.8
85°	149.0	136.2	141.7	163.8	171.2	425.1	544.7	401.2	379.0	417.7	412.3
87.5°	35.0	47.9	40.5	36.8	36.8	103.0	211.7	167.5	231.9	154.6	149.0
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)