

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: P971608

Luminaire Tested: **NAV-SB6D-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971608
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-835-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59453.1 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

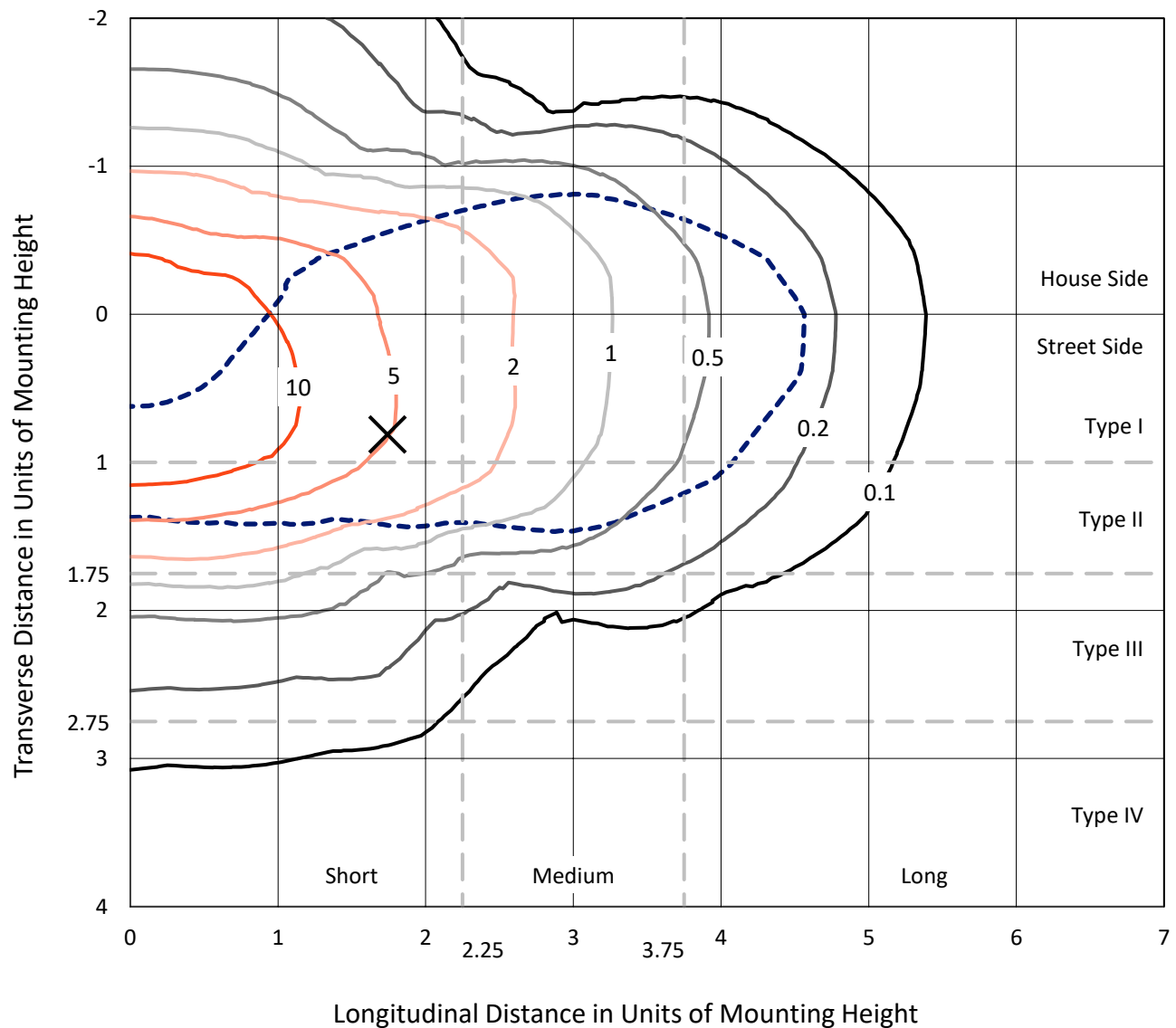
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

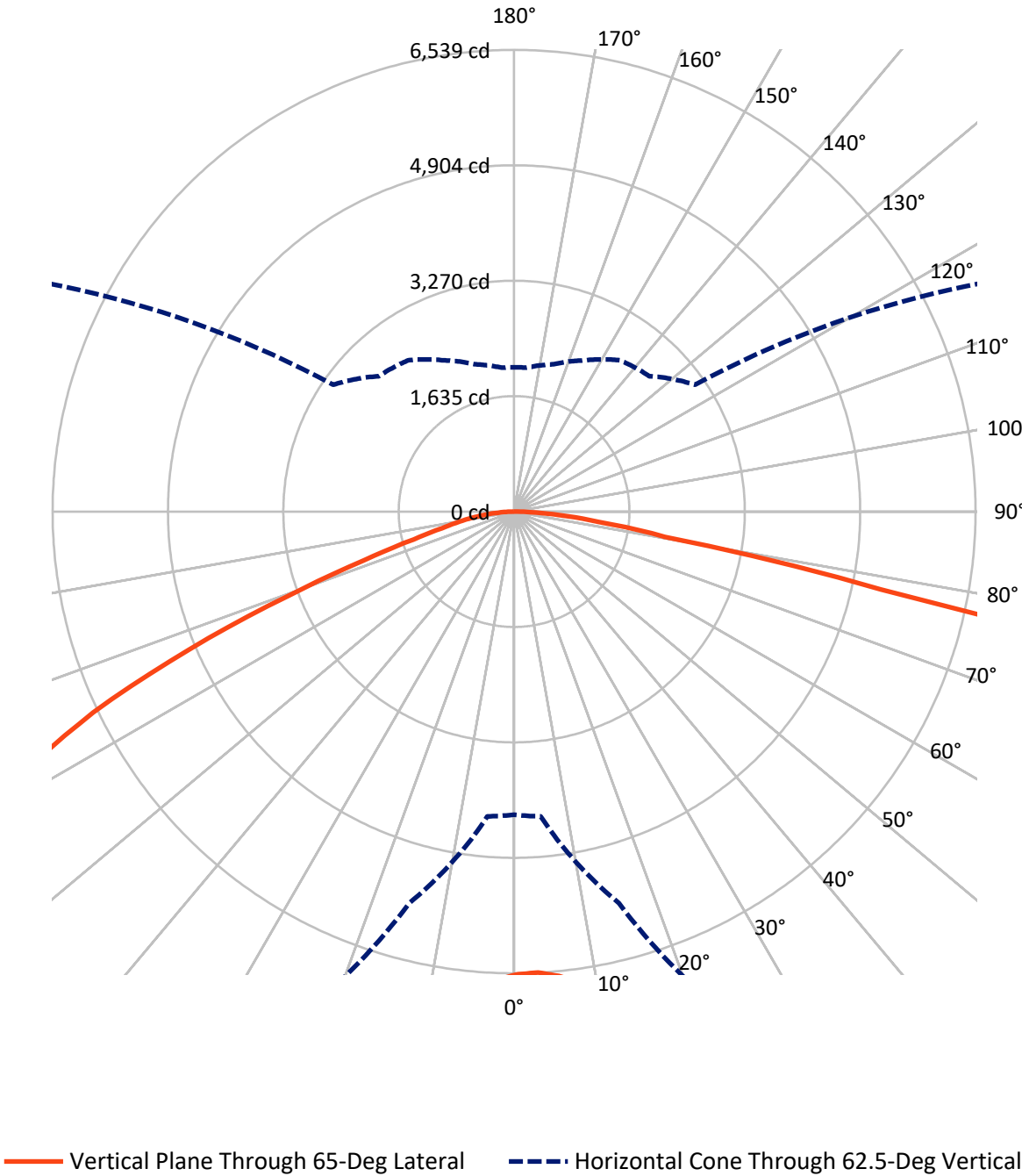
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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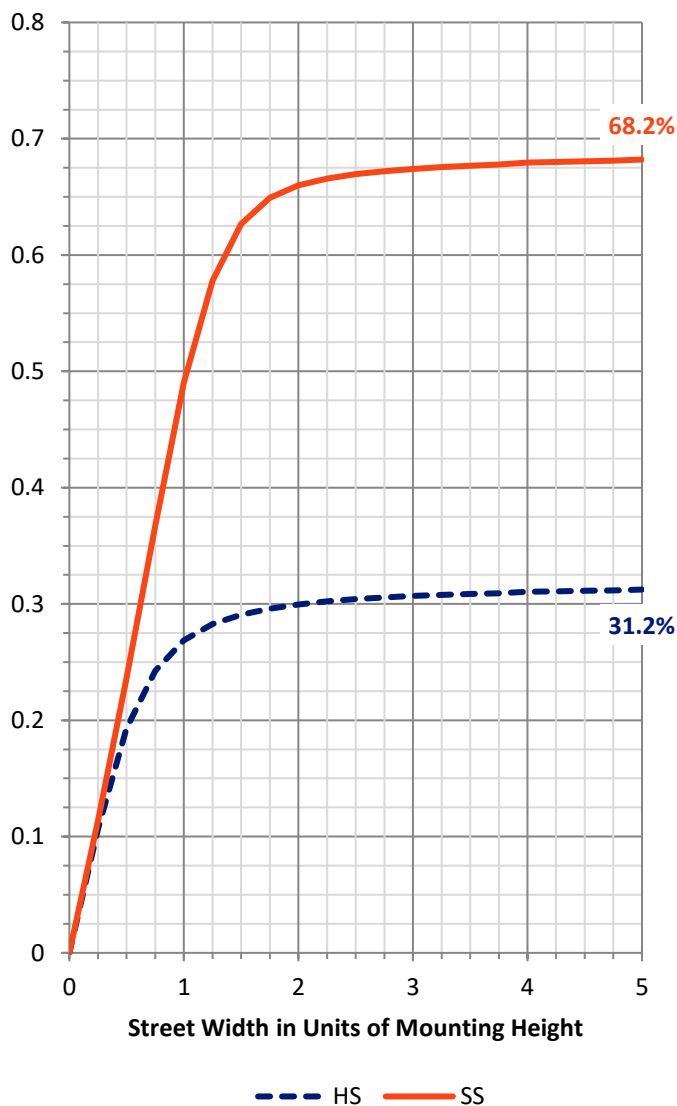
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18760.8	0.0	18760.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	40692.3	0.0	40692.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	59453.1	0.0	59453.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.2	1.1
10°-20°	2215.0	3.7
20°-30°	4491.1	7.6
30°-40°	7771.8	13.1
40°-50°	11761.1	19.8
50°-60°	13789.1	23.2
60°-70°	11560.5	19.4
70°-80°	6382.3	10.7
80°-90°	829.0	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°	59453.1	100.0
0°-180°	59453.1	100.0

Coefficient of Utilization



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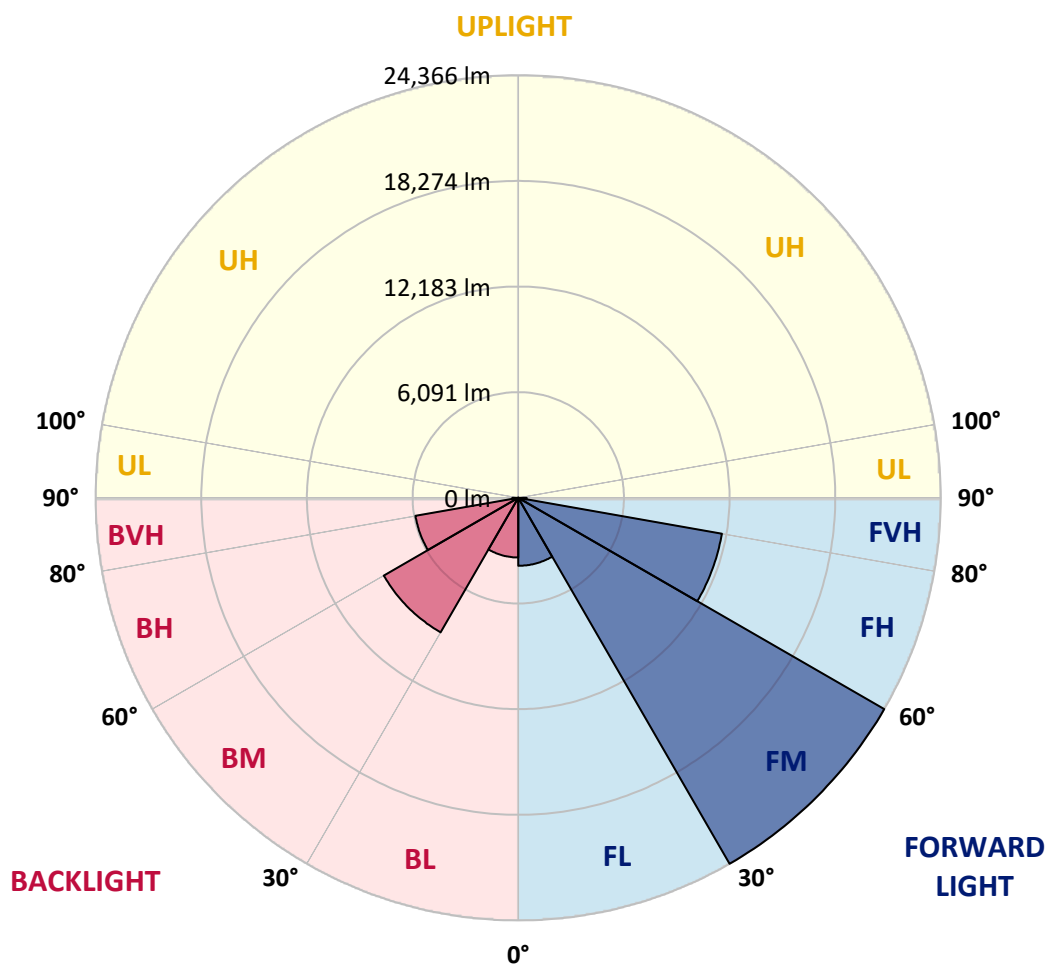
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3918.7	6.6			
FM	(30°-60°)	24365.8	41.0			
FH	(60°-80°)	11924.5	20.1			G4/12000
FVH	(80°-90°)	483.2	0.8			G3/500
BL	(0°-30°)	3440.5	5.8	B4/5000		
BM	(30°-60°)	8956.1	15.1	B5		
BH	(60°-80°)	6018.3	10.1	B5		G5
BVH	(80°-90°)	345.9	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°	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5
2.5°	6508.2	6489.8	6505.2	6505.2	6511.4	6508.2	6529.9	6536.0	6545.3	6563.8	6563.8
5°	6443.6	6440.4	6468.2	6492.9	6517.6	6539.1	6566.9	6606.9	6613.2	6634.7	6662.5
7.5°	6421.9	6403.4	6446.6	6477.5	6536.0	6588.5	6662.5	6730.4	6758.1	6767.4	6819.8
10°	6588.5	6557.6	6597.7	6616.3	6665.6	6718.1	6804.4	6912.4	6943.2	6980.2	7038.8
12.5°	6872.2	6838.3	6896.9	6924.7	6970.9	7017.3	7075.9	7180.7	7196.1	7264.0	7319.5
15°	7260.9	7220.8	7257.8	7291.7	7368.8	7412.1	7470.6	7572.4	7572.4	7624.9	7664.9
17.5°	7788.4	7735.9	7763.7	7776.1	7825.4	7890.1	7988.8	8078.3	8124.6	8106.0	8050.6
20°	8574.9	8510.2	8510.2	8448.5	8429.9	8482.4	8611.9	8735.3	8784.7	8689.0	8553.3
22.5°	9756.3	9663.7	9611.3	9401.5	9318.3	9324.4	9454.0	9605.2	9645.2	9475.6	9170.2
25°	11258.4	11113.5	11042.5	10734.0	10545.9	10382.4	10484.2	10678.6	10734.0	10524.3	10030.8
27.5°	12760.5	12769.9	12702.0	12331.8	12020.3	11721.1	11668.6	11872.3	11930.8	11693.3	11082.6
30°	14867.3	14648.3	14518.7	14074.6	13630.3	13210.9	12994.9	13078.3	13093.7	12809.9	12100.4
32.5°	16684.0	16628.5	16350.9	15962.2	15391.6	14734.7	14373.8	14241.1	14216.4	13812.4	12970.3
35°	18753.7	18722.9	18429.9	17967.2	17350.3	16437.3	15786.4	15407.1	15376.2	14808.7	13830.8
37.5°	20857.4	20857.4	20570.5	20064.7	19426.2	18284.9	17294.7	16693.3	16594.5	15854.3	14706.9
40°	22535.3	22433.6	22485.9	22273.1	21542.1	20330.0	18969.7	18096.8	17964.1	17075.8	15638.4
42.5°	23488.5	23454.6	23769.1	24006.6	23707.4	22738.9	20814.2	19617.4	19432.4	18420.6	16711.8
45°	23701.3	23664.3	24225.7	25095.5	25514.9	25117.0	22819.1	21218.2	20993.1	19827.2	17862.4
47.5°	23210.8	23136.8	23960.4	25333.0	26677.8	27378.0	24990.6	22954.9	22627.9	21196.7	19043.7
50°	21736.5	21665.5	22911.6	24734.6	27069.5	28914.1	27347.1	24796.3	24296.6	22664.9	20237.4
52.5°	18531.7	18565.6	20518.0	23022.7	26554.5	29870.2	29376.7	26736.4	26134.9	24167.0	21357.1
55°	14435.5	14509.5	16909.2	19666.8	24494.0	29725.3	30761.7	28735.2	28136.8	25579.7	22513.7
57.5°	10336.1	10663.1	12911.7	15641.5	20536.6	27427.4	31064.0	30635.2	30055.4	27122.0	23645.7
60°	6699.5	6758.1	9071.5	11822.9	15638.4	23343.5	30450.2	32075.6	31622.3	28695.1	24592.7
62.5°	4293.6	4333.7	5743.4	8269.5	11255.3	17270.1	28383.6	32701.8	32563.0	29734.5	25502.6
65°	3155.5	3124.6	3858.7	5465.7	7581.7	10650.8	24370.6	32399.5	32674.0	30385.4	26255.3
67.5°	2634.1	2591.0	2951.9	3784.7	5586.0	6048.7	18032.0	30434.7	31440.2	30311.3	26807.3
70°	2399.7	2362.7	2581.8	2809.9	4358.4	4050.0	9090.0	26458.8	28007.2	29469.3	26718.0
72.5°	2032.7	1967.9	2267.1	2495.4	3389.9	3106.1	3756.9	20323.7	22211.4	26770.3	25459.5
75°	1576.1	1533.0	1789.0	2196.2	2547.8	2424.4	2375.0	12341.1	14401.6	20703.2	22273.1
77.5°	1249.3	1190.6	1425.1	1711.9	2291.8	1829.1	1730.4	5314.6	7356.5	13217.1	16665.6
80°	940.7	888.4	1082.7	1354.1	1761.3	1378.7	1119.7	2168.4	2772.9	6696.4	8380.6
82.5°	669.3	623.1	755.7	993.2	1184.5	1236.9	687.9	1215.3	1366.4	2581.8	1872.3
85°	428.8	401.0	505.8	623.1	752.7	795.8	419.5	635.4	697.1	1064.2	780.3
87.5°	234.4	191.3	271.4	290.0	348.5	317.8	200.5	231.3	249.9	385.6	330.0
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°	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5	6551.5
2.5°	6576.2	6585.4	6616.3	6625.5	6647.1	6674.8	6693.4	6711.9	6711.9	6730.4	6730.4
5°	6665.6	6687.2	6752.0	6785.9	6841.5	6896.9	6930.8	6970.9	6995.6	7008.0	7014.2
7.5°	6838.3	6872.2	6964.8	7023.4	7119.0	7196.1	7248.6	7304.0	7316.4	7350.4	7338.0
10°	7072.7	7112.9	7217.7	7328.7	7442.9	7538.5	7587.9	7627.9	7643.4	7649.6	7634.1
12.5°	7341.2	7399.7	7535.4	7671.1	7791.4	7874.8	7887.1	7877.8	7834.6	7797.6	7797.6
15°	7671.1	7723.6	7874.8	8022.8	8140.0	8155.4	8078.3	8028.9	7976.6	7967.2	7967.2
17.5°	8065.9	8093.7	8232.5	8377.5	8386.8	8334.3	8220.2	8174.0	8124.6	8090.6	8093.7
20°	8525.5	8516.3	8615.0	8676.7	8611.9	8451.5	8278.8	8201.6	8152.3	8112.3	8115.3
22.5°	9074.6	9003.6	8991.3	8975.9	8803.1	8466.9	8232.5	8133.8	8056.7	8001.2	8019.7
25°	9873.5	9602.0	9413.9	9309.0	8920.4	8383.7	8084.5	7865.4	7720.5	7624.9	7661.9
27.5°	10872.9	10416.4	9941.4	9685.3	8920.4	8214.0	7726.7	7371.9	7134.4	7035.7	7085.1
30°	11825.9	11347.9	10647.7	10138.8	8898.7	7936.4	7149.9	6656.4	6378.8	6280.1	6338.6
32.5°	12640.3	12119.0	11397.2	10635.3	8846.4	7486.1	6434.2	5888.3	5620.0	5502.7	5561.3
35°	13395.9	12840.8	12149.8	11181.3	8707.6	6826.0	5647.7	5231.3	4932.1	4743.9	4805.6
37.5°	14170.2	13510.1	12862.3	11674.9	8457.7	6054.9	5043.1	4688.5	4336.8	4083.9	4151.8
40°	15012.3	14222.6	13624.2	11967.8	8047.5	5320.8	4574.3	4250.5	3877.2	3608.8	3661.3
42.5°	15996.1	15077.0	14472.5	12119.0	7486.1	4799.5	4268.9	3951.3	3599.6	3380.7	3423.8
45°	17023.3	16017.8	15246.7	12115.9	6859.9	4555.8	4170.2	3855.6	3467.0	3238.7	3275.7
47.5°	18099.9	17001.8	15916.0	11918.5	6317.1	4589.7	4114.8	3649.0	3220.2	2998.1	3029.0
50°	19179.4	18078.2	16563.8	11548.4	6085.7	4515.7	3908.0	3359.0	2853.2	2652.7	2665.0
52.5°	20249.7	19222.5	17122.0	11020.9	5851.3	4241.1	3642.7	2982.7	2702.0	2563.2	2563.2
55°	21326.3	20354.6	17729.7	10252.9	5265.2	3920.4	3198.6	2840.8	2581.8	2455.3	2442.9
57.5°	22405.8	21662.5	18306.5	9484.8	4528.0	3525.6	2955.0	2668.1	2461.4	2353.5	2335.0
60°	23528.6	23158.4	18901.8	8778.5	3800.1	3019.8	2776.0	2529.3	2319.6	2199.2	2190.0
62.5°	24685.2	24805.5	19367.6	7868.5	3130.8	2711.2	2615.7	2362.7	2159.2	2045.0	2041.9
65°	25851.2	26394.1	19672.9	6606.9	2538.5	2418.3	2442.9	2180.8	1974.0	1875.3	1872.3
67.5°	26730.3	27538.4	19586.5	5000.0	2082.1	2140.6	2227.0	1989.5	1795.2	1718.1	1721.2
70°	26829.0	27402.7	18735.3	3423.8	1742.7	1869.2	1986.4	1801.3	1600.8	1545.3	1548.5
72.5°	25514.9	25552.0	16363.3	2236.2	1474.4	1640.9	1733.5	1610.1	1415.8	1360.3	1357.2
75°	22069.6	21131.9	12014.1	1474.4	1233.8	1409.6	1496.0	1409.6	1221.5	1233.8	1190.6
77.5°	16721.0	14966.0	7294.8	1048.8	1030.2	1184.5	1301.6	1239.9	1079.5	1212.2	1067.2
80°	8615.0	8096.8	3254.2	783.5	814.3	946.9	1070.3	990.1	854.4	814.3	743.3
82.5°	1974.0	2294.9	1283.2	561.4	589.2	681.6	817.4	743.3	613.8	518.2	512.0
85°	691.0	755.7	567.5	351.7	345.4	425.7	555.2	496.6	416.5	333.1	351.7
87.5°	219.0	286.9	212.8	141.9	148.0	191.3	256.0	234.4	194.3	126.5	132.6
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)