

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: P971578

Luminaire Tested: **NAV-SB6D-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56313.5 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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



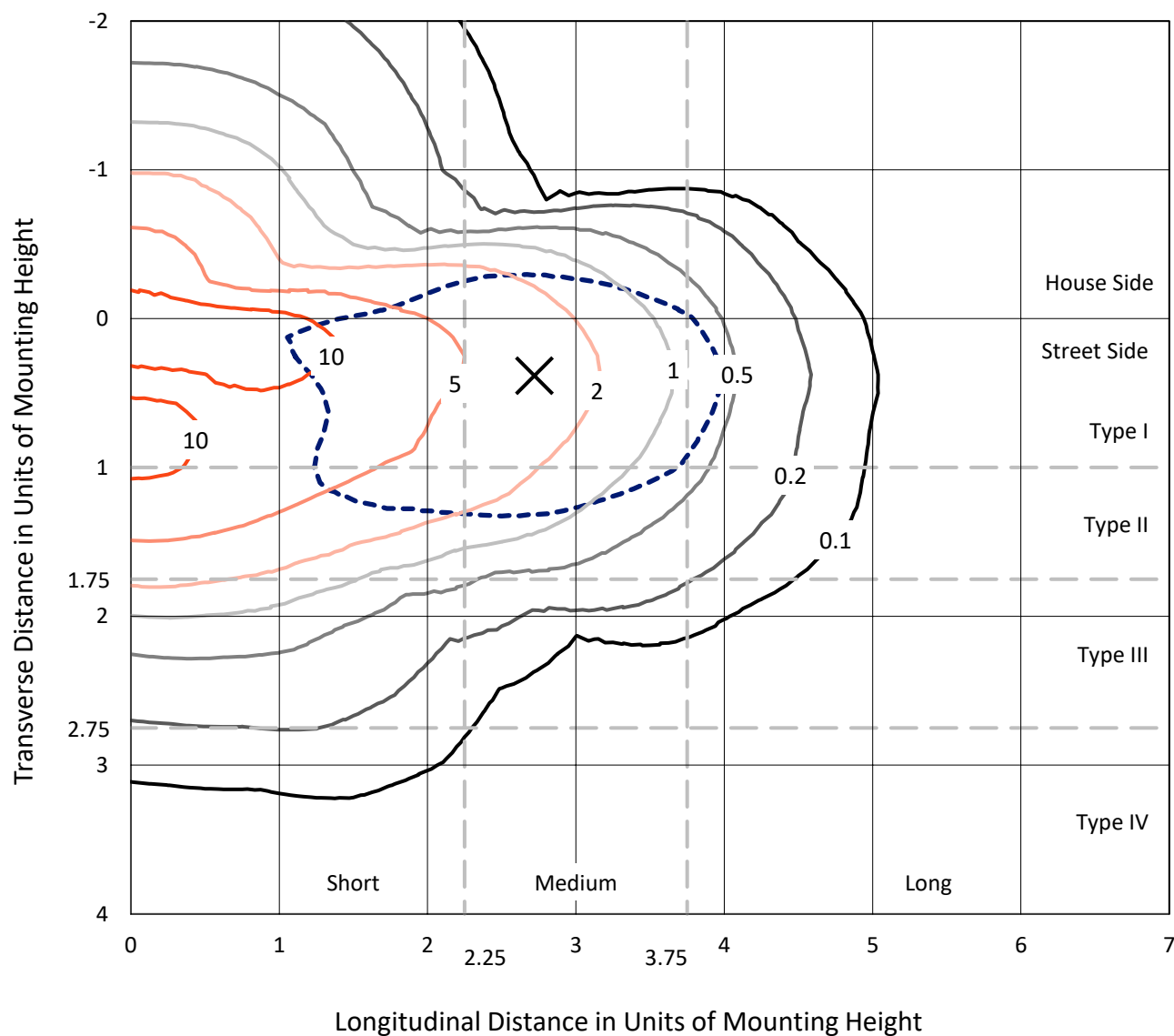
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

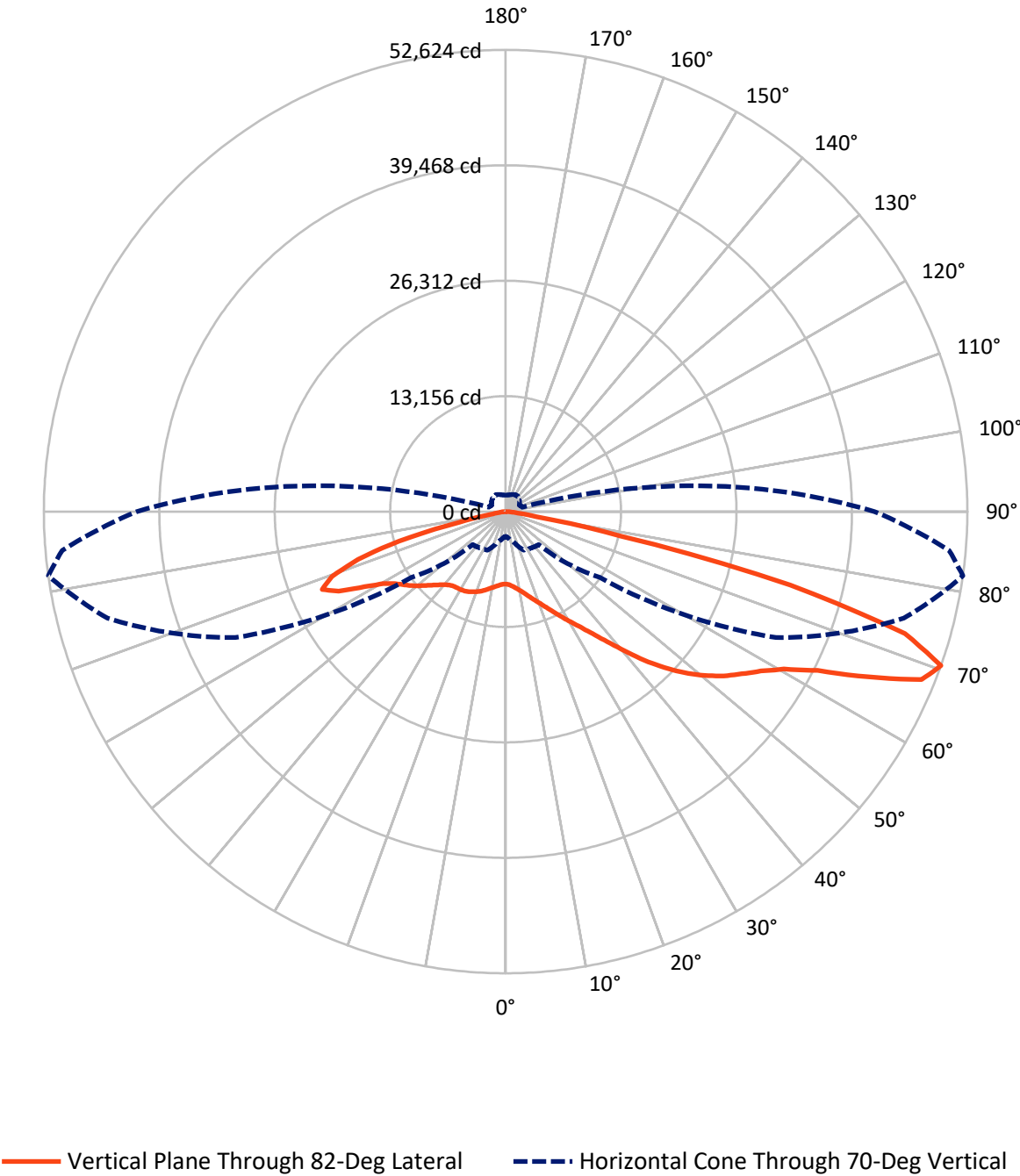
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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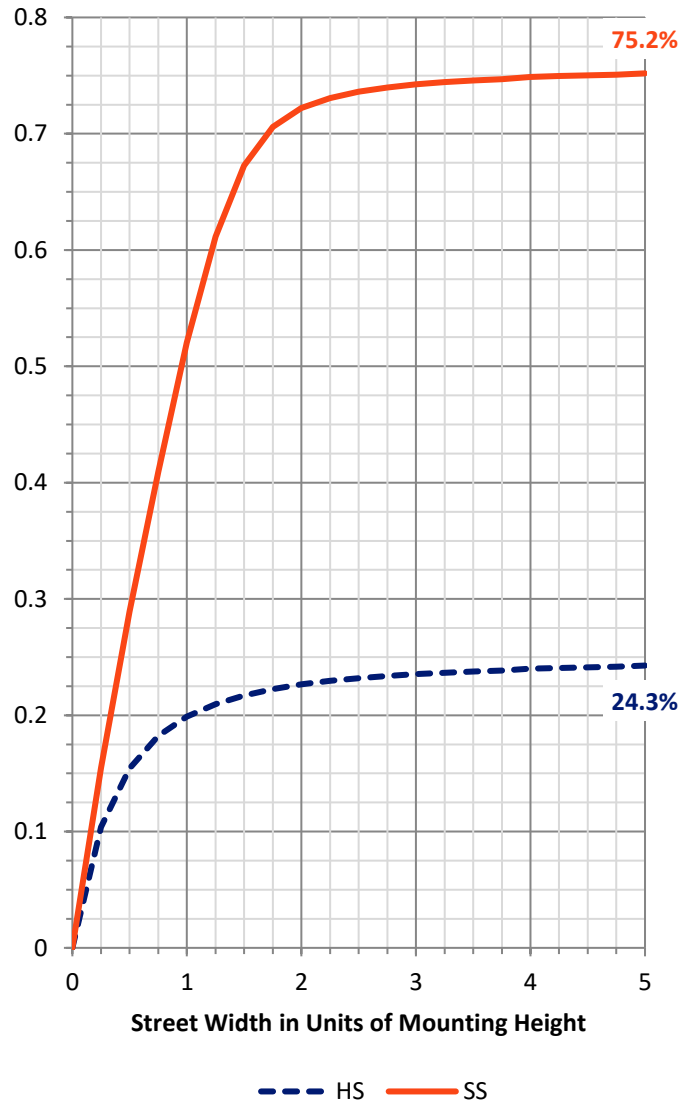
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13882.6	0.0	13882.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	42430.8	0.0	42430.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	56313.5	0.0	56313.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	779.5	1.4
10°-20°	2239.7	4.0
20°-30°	3746.7	6.7
30°-40°	5853.3	10.4
40°-50°	9322.1	16.6
50°-60°	12972.9	23.0
60°-70°	13570.2	24.1
70°-80°	7092.5	12.6
80°-90°	736.5	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°	56313.5	100.0
0°-180°	56313.5	100.0

Coefficient of Utilization



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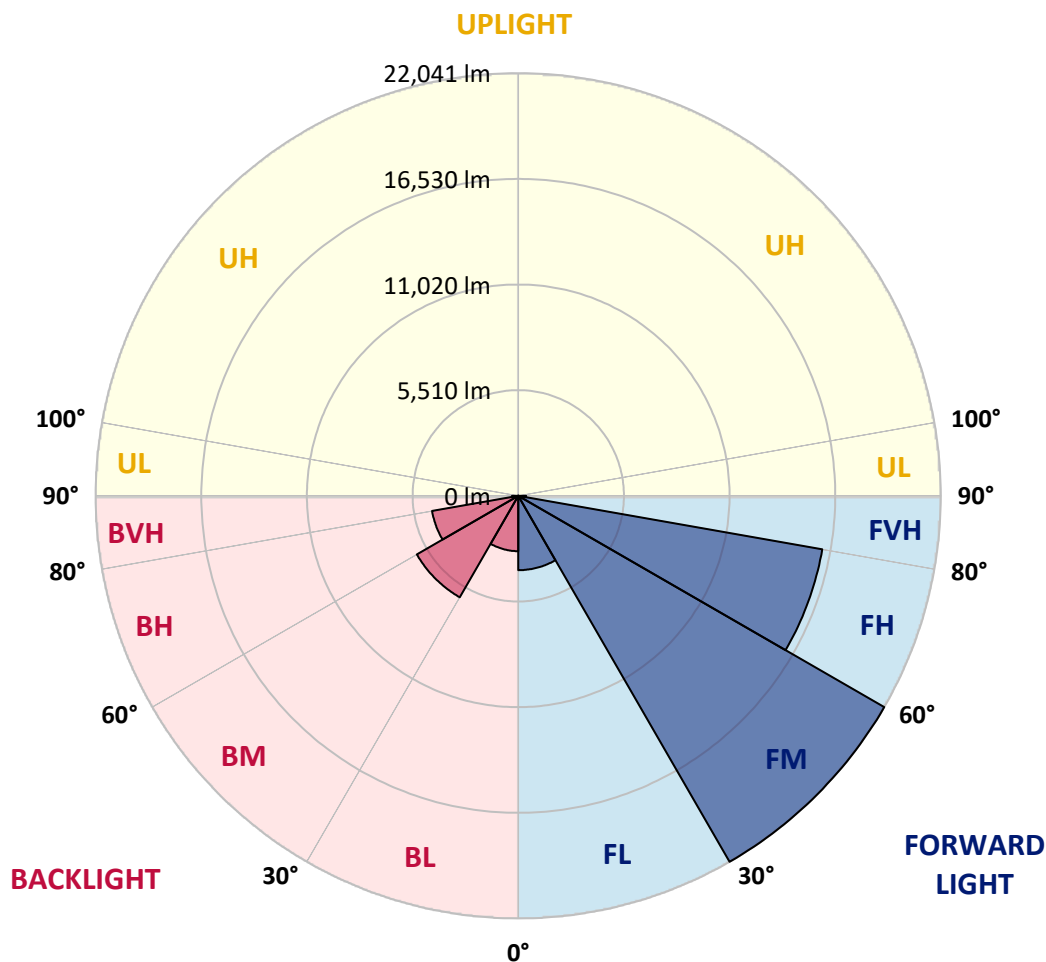
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3877.8	6.9			
FM	(30°-60°)	22040.5	39.1			
FH	(60°-80°)	16100.2	28.6			G5
FVH	(80°-90°)	412.3	0.7			G3/500
BL	(0°-30°)	2888.1	5.1	B4/5000		
BM	(30°-60°)	6107.8	10.8	B4/8500		
BH	(60°-80°)	4562.5	8.1	B4/5000		G4/5000
BVH	(80°-90°)	324.2	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3
2.5°	8453.5	8501.2	8486.4	8471.4	8471.4	8450.5	8447.5	8417.6	8393.7	8354.9	8345.9
5°	8561.0	8611.8	8605.9	8617.8	8656.6	8665.7	8674.6	8656.6	8608.9	8561.0	8540.1
7.5°	8465.5	8522.3	8540.1	8611.8	8731.4	8839.0	8919.7	8952.5	8907.7	8839.0	8806.1
10°	8142.7	8205.4	8268.3	8438.5	8650.7	8904.7	9119.8	9248.4	9239.3	9173.6	9116.9
12.5°	7488.3	7554.0	7688.5	8020.2	8408.7	8856.9	9257.3	9526.2	9618.9	9571.0	9472.4
15°	6965.4	7022.2	7123.7	7464.4	7969.4	8650.7	9308.1	9831.0	10067.0	10040.2	9920.7
17.5°	6950.4	6974.3	7037.1	7198.5	7586.9	8328.0	9254.3	10129.9	10581.1	10578.1	10428.7
20°	7213.4	7222.4	7258.2	7291.1	7512.2	8082.9	9116.9	10377.8	11157.7	11157.7	10996.4
22.5°	7577.9	7572.0	7607.9	7577.9	7685.6	8062.0	9030.1	10595.9	11800.2	11848.0	11644.8
25°	8124.8	8094.9	8085.9	8017.2	8038.2	8256.3	9125.8	10844.0	12562.2	12660.8	12406.8
27.5°	8853.8	8806.1	8773.2	8614.8	8561.0	8656.6	9418.6	11142.8	13410.8	13581.1	13258.5
30°	9804.1	9717.5	9669.6	9394.7	9200.5	9215.5	9860.9	11540.3	14298.3	14573.2	14163.9
32.5°	11101.0	10966.5	10838.0	10386.8	10031.3	9914.7	10431.6	12090.1	15260.5	15699.7	15173.8
35°	12553.2	12445.7	12308.2	11611.9	11065.1	10796.2	11202.5	12858.0	16387.0	17083.3	16399.0
37.5°	13951.7	13859.0	13924.8	12986.5	12281.3	11889.9	12212.6	13889.0	17776.5	18804.4	17934.9
40°	15398.0	15326.2	15335.2	14438.8	13617.0	13177.7	13437.7	15182.8	19369.2	20851.4	19781.6
42.5°	16969.7	16915.9	16736.6	15941.8	15018.4	14609.1	14848.1	16676.9	21078.4	23182.1	21807.5
45°	18729.7	18696.8	18529.5	17618.1	16560.3	16100.2	16422.9	18326.4	22796.6	25375.4	23842.4
47.5°	20250.7	20277.6	20256.7	19488.7	18392.1	17716.7	18102.2	20047.5	24395.3	27437.2	25793.7
50°	20982.8	21123.2	21329.4	21090.4	20409.1	19721.8	19796.5	21708.9	25919.3	29370.6	27664.3
52.5°	20600.3	20866.2	21428.0	21810.6	22073.5	21930.1	21729.8	23358.4	27353.6	31115.6	29433.3
55°	19175.0	19548.5	20480.8	21404.2	22745.8	23788.7	24051.6	25187.1	28752.0	32651.6	31106.7
57.5°	16578.2	17184.8	18021.6	19889.1	22148.2	24688.1	26758.9	27724.1	30234.1	34292.0	32857.7
60°	12126.0	12938.7	13978.5	16757.5	20056.5	24207.0	29062.7	31620.6	32340.8	36416.6	35137.7
62.5°	7760.3	8262.2	9218.4	11836.1	15628.1	21741.8	29767.9	36491.3	35911.6	39900.8	38556.1
65°	5313.0	5635.7	6511.2	7981.4	10102.9	16183.8	27879.5	40142.8	41583.1	45422.9	44401.0
67.5°	3860.7	4105.7	4852.8	6140.7	6582.9	9577.0	21634.3	39975.5	47096.3	51112.3	49522.7
70°	2814.9	2988.2	3615.7	4852.8	5064.9	5327.8	13106.1	33981.3	46976.8	52624.3	50720.9
72.5°	2085.8	2205.3	2626.6	3765.0	4099.8	3597.7	6487.3	24697.1	40367.0	47598.2	46071.3
75°	1509.0	1598.7	1909.5	2880.6	3281.0	2740.1	3236.1	14432.8	28157.4	33482.2	33751.2
77.5°	1153.4	1222.1	1425.4	2109.7	2626.6	2055.8	2008.1	6639.6	13351.0	13416.8	14169.8
80°	926.3	971.2	1081.7	1485.1	2014.0	1538.9	1308.8	2680.4	4219.3	3570.8	3747.1
82.5°	681.3	756.0	914.4	1042.8	1440.3	1060.8	797.9	1353.6	1604.6	1380.6	1392.5
85°	388.5	439.2	552.8	747.0	920.3	648.4	457.2	600.6	747.0	612.5	546.8
87.5°	137.5	179.3	194.2	292.8	400.4	269.0	176.3	173.3	245.1	182.2	152.4
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°	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3	8256.3
2.5°	8316.0	8301.1	8241.3	8160.6	8077.0	7996.3	7969.4	7912.6	7873.7	7852.8	7876.8
5°	8483.4	8435.5	8295.1	8115.8	7927.6	7724.4	7580.9	7449.5	7353.9	7264.2	7300.0
7.5°	8722.4	8638.7	8396.7	8082.9	7748.3	7410.6	7159.6	6968.4	6839.9	6756.2	6774.1
10°	9000.3	8871.8	8501.2	8032.1	7515.2	7031.1	6735.3	6571.0	6490.3	6445.4	6457.4
12.5°	9320.0	9137.8	8608.9	7915.7	7159.6	6606.8	6403.6	6355.8	6358.8	6361.8	6367.7
15°	9714.4	9460.4	8695.5	7661.7	6696.4	6281.1	6245.2	6322.9	6403.6	6442.4	6439.5
17.5°	10159.7	9801.2	8710.4	7243.3	6242.2	6071.9	6185.5	6352.8	6475.3	6529.1	6541.0
20°	10637.9	10147.8	8602.9	6651.6	5868.7	5901.6	6104.8	6319.9	6454.4	6523.1	6541.0
22.5°	11184.7	10518.3	8345.9	6030.1	5563.9	5716.3	5955.4	6164.6	6305.0	6373.8	6391.7
25°	11809.1	10933.7	7942.5	5507.1	5301.0	5507.1	5746.3	5919.5	6033.0	6095.9	6113.7
27.5°	12502.4	11366.9	7404.6	5091.8	5070.9	5292.0	5489.3	5623.7	5683.4	5731.3	5749.2
30°	13198.6	11761.4	6753.2	4778.0	4870.7	5079.9	5220.3	5280.1	5298.0	5306.9	5327.8
32.5°	13951.7	12102.0	6068.9	4518.1	4679.4	4873.7	4957.3	4984.3	4900.5	4843.8	4861.7
35°	14863.1	12466.6	5399.6	4311.9	4491.2	4658.5	4685.4	4661.5	4562.9	4446.3	4452.4
37.5°	15989.6	12920.7	4864.8	4165.5	4314.8	4425.4	4392.5	4386.6	4395.6	4258.2	4267.1
40°	17370.2	13512.5	4473.3	4051.9	4171.4	4195.3	4102.8	4153.5	4198.4	3989.2	3995.1
42.5°	18903.0	14226.6	4225.3	3974.2	4051.9	3995.1	3851.7	3908.5	3902.5	3627.6	3624.6
45°	20465.9	15003.5	4138.5	3917.4	3941.3	3827.9	3669.5	3684.4	3558.9	3310.9	3319.9
47.5°	22019.7	15837.2	4192.4	3869.7	3803.9	3675.4	3553.0	3487.2	3301.9	3116.6	3116.6
50°	23543.6	16712.7	4389.6	3774.0	3615.7	3541.0	3451.3	3334.7	3137.5	2979.2	2967.3
52.5°	24957.0	17594.2	4610.8	3615.7	3379.6	3424.4	3367.6	3233.2	3038.9	2877.6	2880.6
55°	26295.8	18475.7	4697.4	3397.6	3158.4	3322.8	3289.9	3041.9	2808.9	2677.4	2665.4
57.5°	27753.9	19536.5	4601.7	3119.6	2979.2	3206.3	3080.7	2805.8	2671.5	2572.8	2563.8
60°	29774.0	21200.9	4395.6	2776.0	2808.9	3033.0	2817.8	2704.3	2557.9	2447.3	2441.3
62.5°	33129.6	24305.6	4063.9	2435.3	2608.6	2776.0	2692.4	2578.8	2429.4	2321.8	2321.8
65°	38089.9	28620.6	3439.4	2169.4	2384.6	2525.0	2557.9	2444.3	2288.9	2175.4	2181.3
67.5°	42273.4	31327.8	2602.7	1948.3	2154.4	2321.8	2414.4	2303.9	2139.5	2029.0	2032.0
70°	42043.2	29361.5	1987.2	1730.1	1951.3	2121.5	2241.2	2154.4	1978.1	1873.6	1882.5
72.5°	37342.9	24562.6	1607.6	1509.0	1745.1	1912.4	2055.8	1990.1	1810.9	1709.2	1709.2
75°	27434.2	17435.9	1284.9	1284.9	1488.1	1694.3	1852.7	1810.9	1646.5	1574.7	1553.8
77.5°	11564.2	7315.0	1007.0	1066.8	1237.1	1455.2	1652.4	1667.4	1524.0	1613.6	1464.2
80°	3074.8	2017.0	767.9	839.7	971.2	1201.2	1437.3	1431.3	1275.9	1192.3	1108.6
82.5°	1171.4	794.9	546.8	591.6	702.2	920.3	1138.5	1174.3	1019.0	881.5	881.5
85°	451.2	340.6	337.6	355.6	409.4	609.6	860.6	890.5	767.9	651.4	672.3
87.5°	116.5	101.6	125.5	119.5	188.3	325.7	493.0	511.0	469.1	271.9	388.5
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)