

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: EPHESUS

Report Number: P977484

Luminaire Tested: **EPH-VN-08-E-740-U-SL3**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977484
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-740-U-SL3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66631.2 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

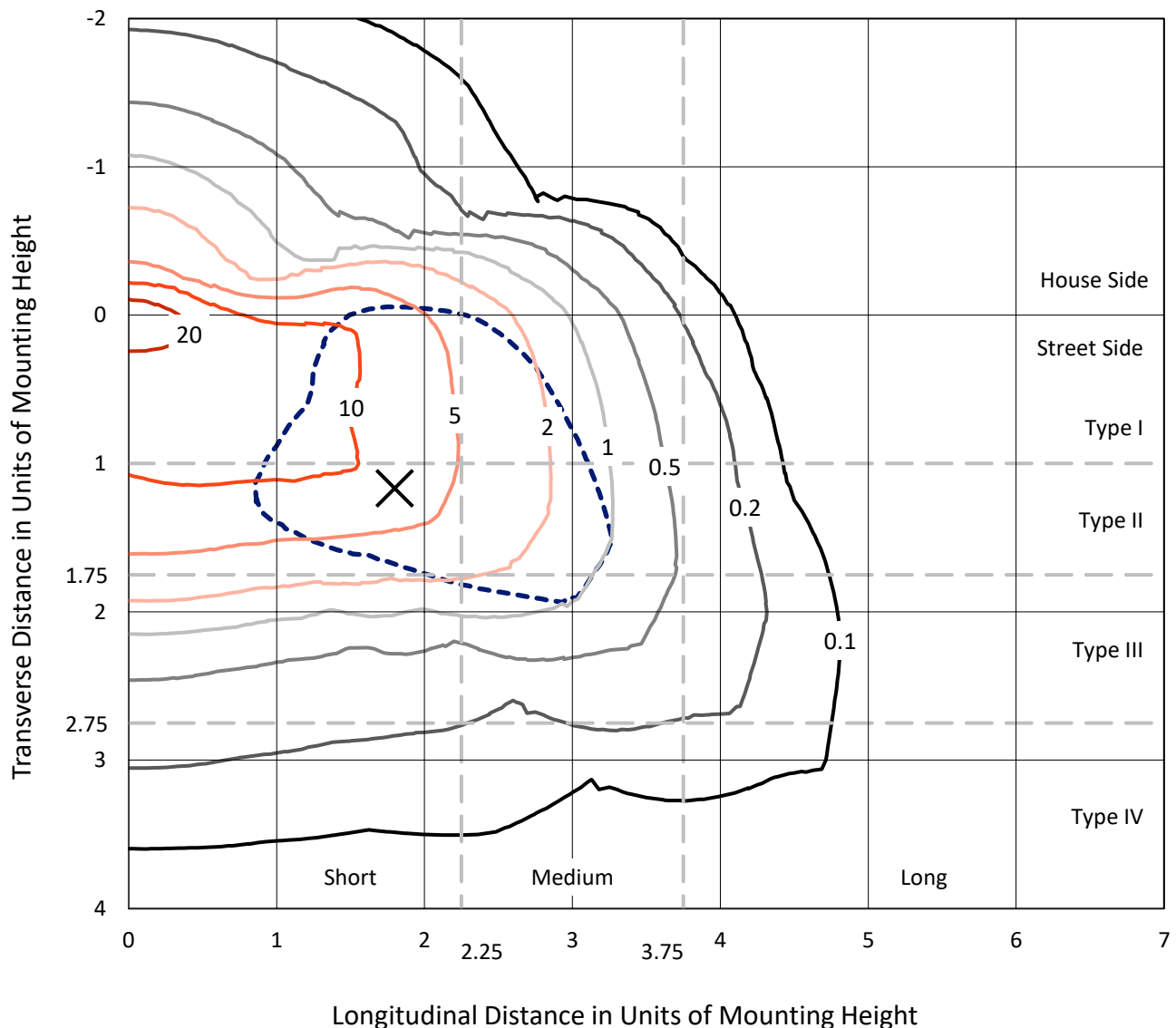
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

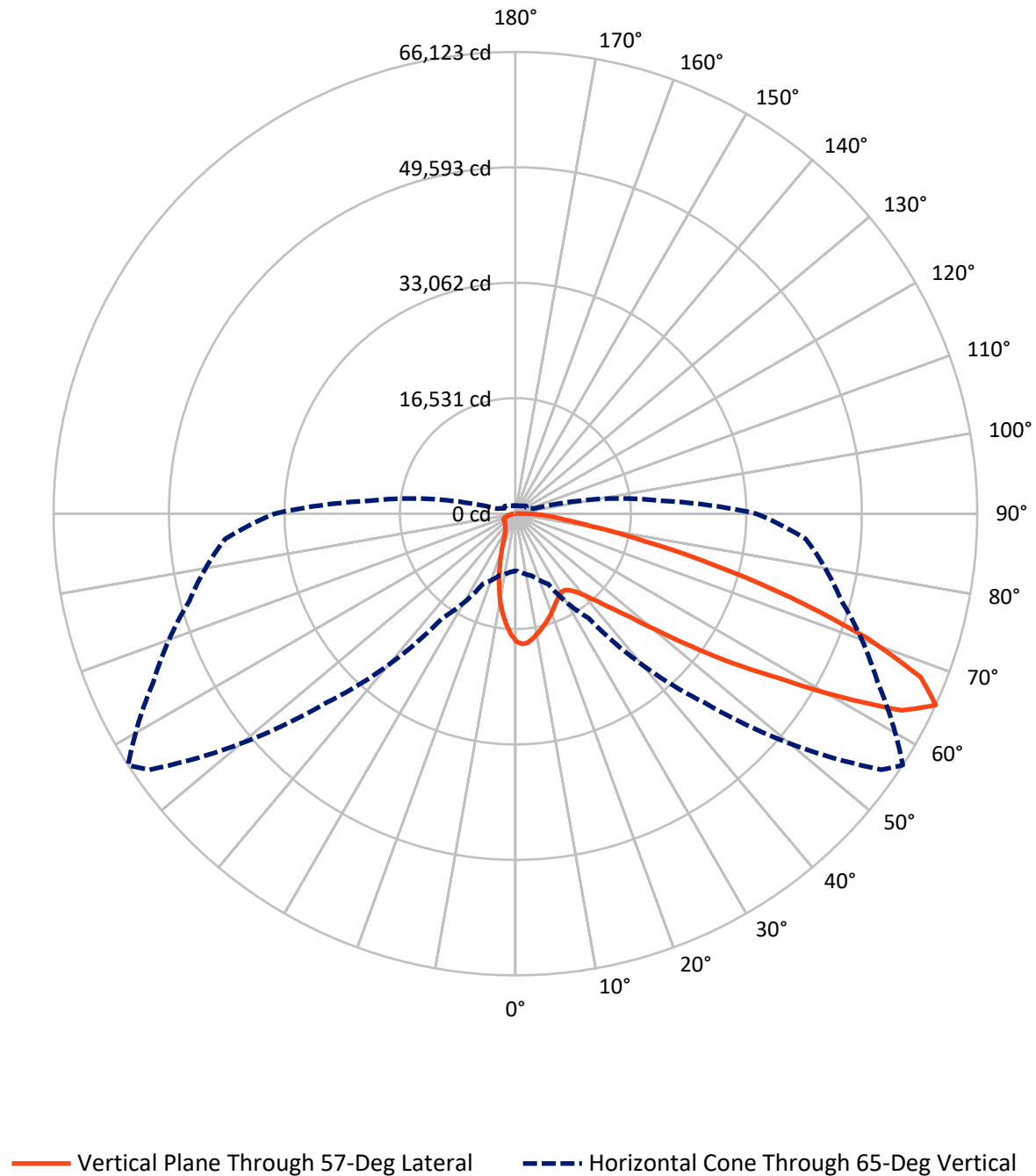


Based on 25 foot mounting height. Maximum calculated value = 29.3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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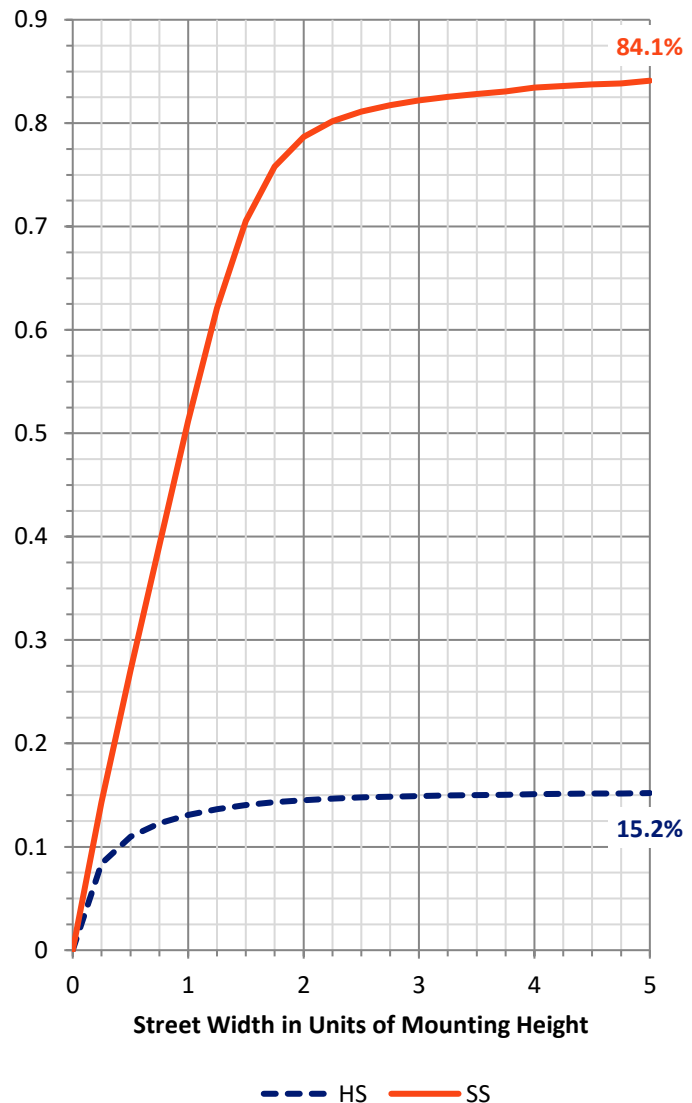
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10218.5	0.0	10218.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	56412.7	0.0	56412.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	66631.2	0.0	66631.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1534.4	2.3
10°-20°	3302.2	5.0
20°-30°	4269.5	6.4
30°-40°	5745.3	8.6
40°-50°	9161.2	13.7
50°-60°	16180.9	24.3
60°-70°	17801.1	26.7
70°-80°	7446.5	11.2
80°-90°	1190.1	1.8
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°	66631.2	100.0
0°-180°	66631.2	100.0

Coefficient of Utilization



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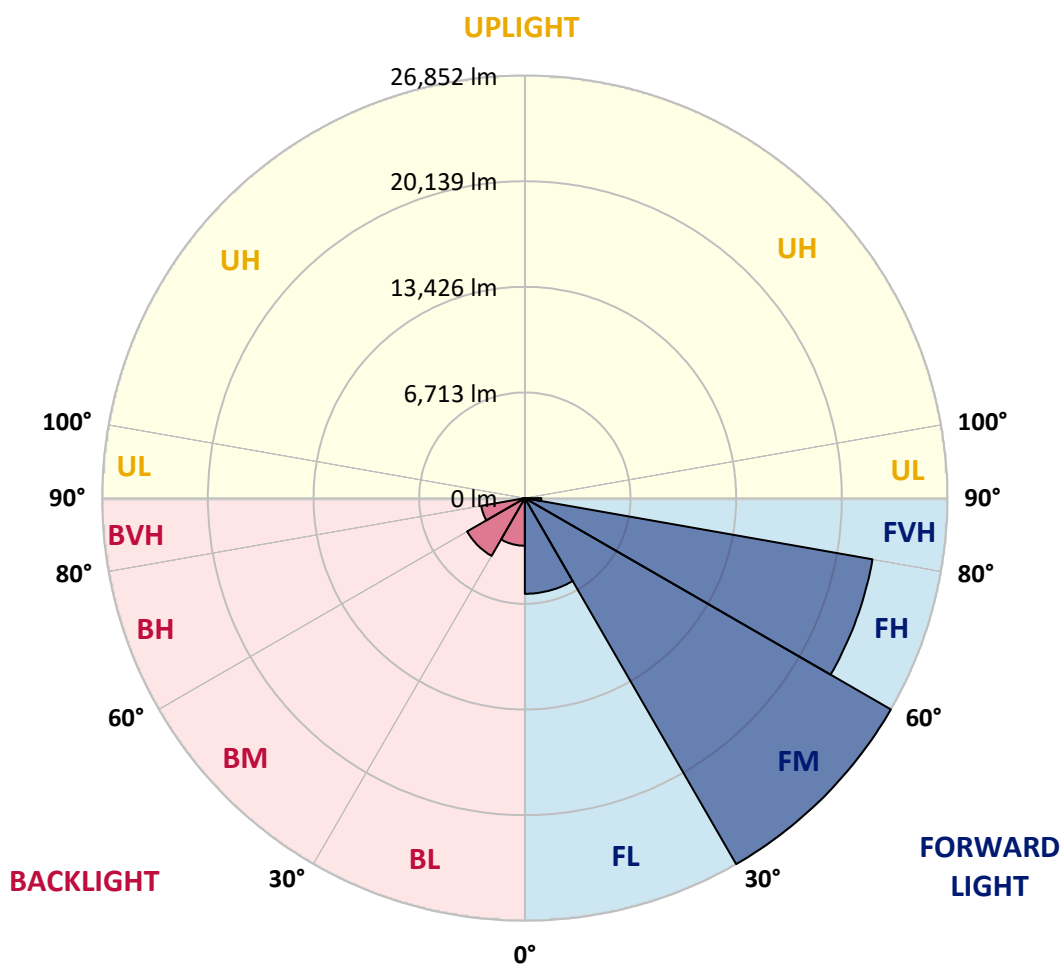
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6079.9	9.1			
FM	(30°-60°)	26852.3	40.3			
FH	(60°-80°)	22430.0	33.7			G5
FVH	(80°-90°)	1050.5	1.6			G5
BL	(0°-30°)	3026.2	4.5	B4/5000		
BM	(30°-60°)	4235.1	6.4	B3/5000		
BH	(60°-80°)	2817.6	4.2	B4/5000		G4/5000
BVH	(80°-90°)	139.6	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6
2.5°	18817.4	18847.4	18847.4	18907.4	18705.0	18802.4	18787.4	18697.5	18727.5	18570.0	18412.6
5°	18285.1	18262.7	18382.6	18397.6	18555.0	18600.0	18637.5	18577.5	18592.5	18247.7	18097.7
7.5°	16920.7	16913.2	17115.6	17288.1	17617.9	17925.3	18127.7	18067.7	18150.2	17932.8	17580.4
10°	15301.3	15473.8	15683.7	15856.1	16463.4	16853.2	17378.0	17430.5	17745.4	17692.9	17055.6
12.5°	14086.8	14161.8	14319.2	14814.0	15368.8	16013.6	16763.3	16830.7	17138.1	17288.1	16733.3
15°	13089.7	13157.2	13359.6	13727.0	14349.2	15113.9	16066.0	16238.5	16853.2	16905.7	16313.4
17.5°	12362.5	12415.0	12550.0	12917.3	13427.1	14409.2	15308.8	15616.2	16425.9	16680.8	15878.6
20°	12077.6	11965.2	12040.2	12272.6	12782.4	13539.6	14701.6	14971.5	16006.1	16508.4	15466.3
22.5°	11950.2	11852.7	11897.7	11882.7	12287.6	12827.3	14049.4	14334.2	15608.7	16305.9	15098.9
25°	12047.7	12047.7	12002.7	11965.2	12010.2	12362.5	13344.6	13787.0	15076.4	16133.5	14724.1
27.5°	12572.4	12370.0	12392.5	12235.1	12190.1	12190.1	13029.8	13292.2	14904.0	16036.1	14416.7
30°	12909.8	13007.3	13014.8	12782.4	12550.0	12130.1	12737.4	12992.3	14761.6	16156.0	14236.8
32.5°	13772.0	13727.0	13599.5	13554.6	13209.7	12737.4	12879.8	13052.3	14679.1	16425.9	14289.3
35°	14634.1	14611.6	14619.1	14596.6	14236.8	13539.6	13262.2	13494.6	14829.0	16898.2	14469.2
37.5°	15526.3	15586.2	15841.1	15841.1	15458.8	14701.6	14334.2	14266.8	15376.3	17670.4	14896.5
40°	16418.4	16568.3	16890.7	17400.5	16860.7	16156.0	15563.7	15458.8	16036.1	18705.0	15923.6
42.5°	17273.1	17520.5	18157.7	18914.9	18735.0	18030.3	17243.1	17123.1	17393.0	20241.9	17355.5
45°	18367.6	18577.5	19582.1	20744.2	20991.6	20369.3	19447.2	19349.7	19334.7	22491.0	19327.2
47.5°	20031.9	20256.9	21261.5	22431.0	23195.7	23293.1	22258.6	22153.6	21793.7	25527.2	22213.6
50°	22116.1	22483.5	23330.6	24695.1	25804.6	26846.7	26554.3	26246.9	25542.2	29058.3	25872.1
52.5°	23638.0	24087.8	25234.9	26981.7	28938.4	30595.2	31644.8	31644.8	30025.4	32934.3	30272.8
55°	24042.8	24312.7	25759.6	28286.1	31637.3	35828.1	38024.7	37859.8	35363.3	37012.6	35393.3
57.5°	22431.0	22783.3	24537.6	27184.1	33054.2	40723.6	44359.7	44397.2	41195.9	41750.7	40446.2
60°	17992.8	18105.2	20174.4	23713.0	31689.8	44667.0	53011.2	53153.6	47830.8	45971.5	43017.7
62.5°	12437.5	12797.4	14356.7	17460.5	26254.4	44224.7	61355.3	62060.1	53146.1	48198.1	43422.5
65°	8186.7	8404.1	9236.3	11125.5	18277.7	38332.1	63949.3	66123.4	57209.5	48325.6	41728.2
67.5°	5937.6	5975.1	6222.5	7197.1	10983.1	27566.4	59518.6	62584.8	58731.4	47261.0	37754.8
70°	4798.1	4828.1	4918.0	5540.3	7092.1	17250.6	48543.0	53348.6	54165.7	42215.5	30407.8
72.5°	3898.4	3935.9	4048.4	4633.1	5847.6	9596.1	35498.2	41353.4	44059.8	31232.4	20211.9
75°	3066.3	3096.3	3366.1	3943.4	5495.3	6589.9	23548.0	29283.2	29650.6	18255.2	9461.2
77.5°	2099.2	2151.6	2481.5	3343.7	5172.9	5765.2	14679.1	18757.5	16830.7	7144.6	3253.7
80°	1334.5	1409.4	1604.4	2534.0	4573.2	5502.8	9131.3	11200.5	7369.5	2444.0	1566.9
82.5°	787.2	862.2	1057.1	1641.8	3591.1	5105.4	6432.4	7009.7	3456.1	1252.0	944.6
85°	434.8	487.3	637.2	989.6	2106.7	4535.7	5150.4	5030.5	1979.2	667.2	592.3
87.5°	142.4	164.9	232.4	397.3	869.7	2136.6	3088.8	2901.3	1027.1	307.4	232.4
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°	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6	18322.6
2.5°	18307.6	18285.1	17947.8	17692.9	17258.1	16898.2	16755.8	16560.8	16553.3	16410.9	16373.4
5°	17865.3	17632.9	17115.6	16620.8	15848.6	15331.3	14859.0	14529.2	14394.2	14101.8	14034.4
7.5°	17295.5	16988.2	16193.5	15263.9	14356.7	13547.1	12812.3	12077.6	11665.3	11522.9	11365.4
10°	16703.3	16163.5	14986.5	13944.4	12677.4	11432.9	10278.4	9243.8	8681.5	8284.2	8111.7
12.5°	16231.0	15511.3	14011.9	12452.5	10780.7	9116.3	7774.4	6687.3	6050.1	5750.2	5615.2
15°	15698.7	14746.6	12947.3	10975.6	8891.4	7002.2	5690.2	4835.6	4580.7	4438.2	4415.7
17.5°	15136.4	14034.4	11792.8	9521.2	7047.2	5270.4	4423.2	4078.4	3965.9	3905.9	3875.9
20°	14611.6	13397.1	10608.2	7901.8	5517.8	4228.3	3831.0	3651.0	3643.5	3673.5	3666.0
22.5°	13869.4	12564.9	9438.7	6402.4	4408.2	3681.0	3426.1	3381.1	3426.1	3463.6	3478.6
25°	13449.6	11882.7	8134.2	5083.0	3643.5	3268.7	3186.2	3171.2	3238.7	3283.7	3276.2
27.5°	13014.8	11178.0	6919.7	4070.9	3193.7	2976.3	2961.3	2976.3	3043.8	3111.2	3103.8
30°	12677.4	10615.7	5780.2	3403.6	2848.9	2766.4	2751.4	2766.4	2803.9	2811.4	2811.4
32.5°	12400.0	9948.5	4813.1	2953.8	2638.9	2571.5	2586.5	2579.0	2586.5	2594.0	2601.5
35°	12235.1	9551.2	4018.4	2676.4	2466.5	2414.0	2406.5	2384.0	2391.5	2399.0	2391.5
37.5°	12587.4	9356.2	3388.6	2481.5	2346.6	2301.6	2286.6	2271.6	2249.1	2249.1	2249.1
40°	13119.7	9251.3	3006.3	2354.1	2256.6	2204.1	2159.1	2144.1	2144.1	2151.6	2159.1
42.5°	14176.8	9423.7	2743.9	2256.6	2144.1	2084.2	2039.2	2046.7	2069.2	2091.7	2076.7
45°	15706.2	9948.5	2623.9	2181.6	2076.7	1994.2	1964.2	1956.7	1979.2	2016.7	2046.7
47.5°	17707.9	10765.7	2579.0	2114.2	2031.7	1919.2	1881.7	1904.2	1934.2	1986.7	1964.2
50°	20984.1	12602.4	2616.4	2054.2	1964.2	1881.7	1836.8	1814.3	1836.8	1874.2	1889.2
52.5°	25264.8	15938.6	2758.9	2024.2	1919.2	1851.8	1776.8	1739.3	1761.8	1791.8	1791.8
55°	30385.3	20496.8	3156.2	1986.7	1844.3	1806.8	1724.3	1649.3	1664.3	1664.3	1656.8
57.5°	34898.5	23937.9	3628.5	1934.2	1799.3	1746.8	1641.8	1551.9	1536.9	1544.4	1551.9
60°	36922.7	24852.5	3853.5	1919.2	1799.3	1671.8	1529.4	1439.4	1416.9	1401.9	1401.9
62.5°	36570.3	23270.6	3396.1	1851.8	1844.3	1611.9	1424.4	1327.0	1297.0	1267.0	1274.5
65°	34441.2	21014.1	2676.4	1761.8	1851.8	1574.4	1319.5	1222.0	1169.5	1132.0	1124.5
67.5°	30550.2	17940.3	2121.6	1694.3	1776.8	1506.9	1229.5	1117.1	1072.1	1034.6	1019.6
70°	23900.4	14064.3	1844.3	1604.4	1596.9	1342.0	1124.5	1027.1	959.6	914.6	914.6
72.5°	15496.3	8891.4	1581.9	1424.4	1379.4	1124.5	974.6	914.6	862.2	824.7	824.7
75°	7017.2	4130.8	1274.5	1192.0	1124.5	899.6	824.7	794.7	749.7	712.2	712.2
77.5°	2519.0	1761.8	952.1	937.1	839.7	697.2	667.2	644.7	614.8	577.3	577.3
80°	1409.4	1117.1	712.2	682.2	584.8	517.3	479.8	479.8	464.8	442.3	434.8
82.5°	892.1	727.2	524.8	457.3	382.3	344.9	329.9	322.4	314.9	284.9	277.4
85°	562.3	494.8	344.9	269.9	224.9	172.4	164.9	157.4	142.4	127.4	127.4
87.5°	254.9	284.9	134.9	82.5	60.0	37.5	22.5	7.5	0.0	0.0	0.0
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)