

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: P971457

Luminaire Tested: **NAV-SB6D-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68697.5 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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

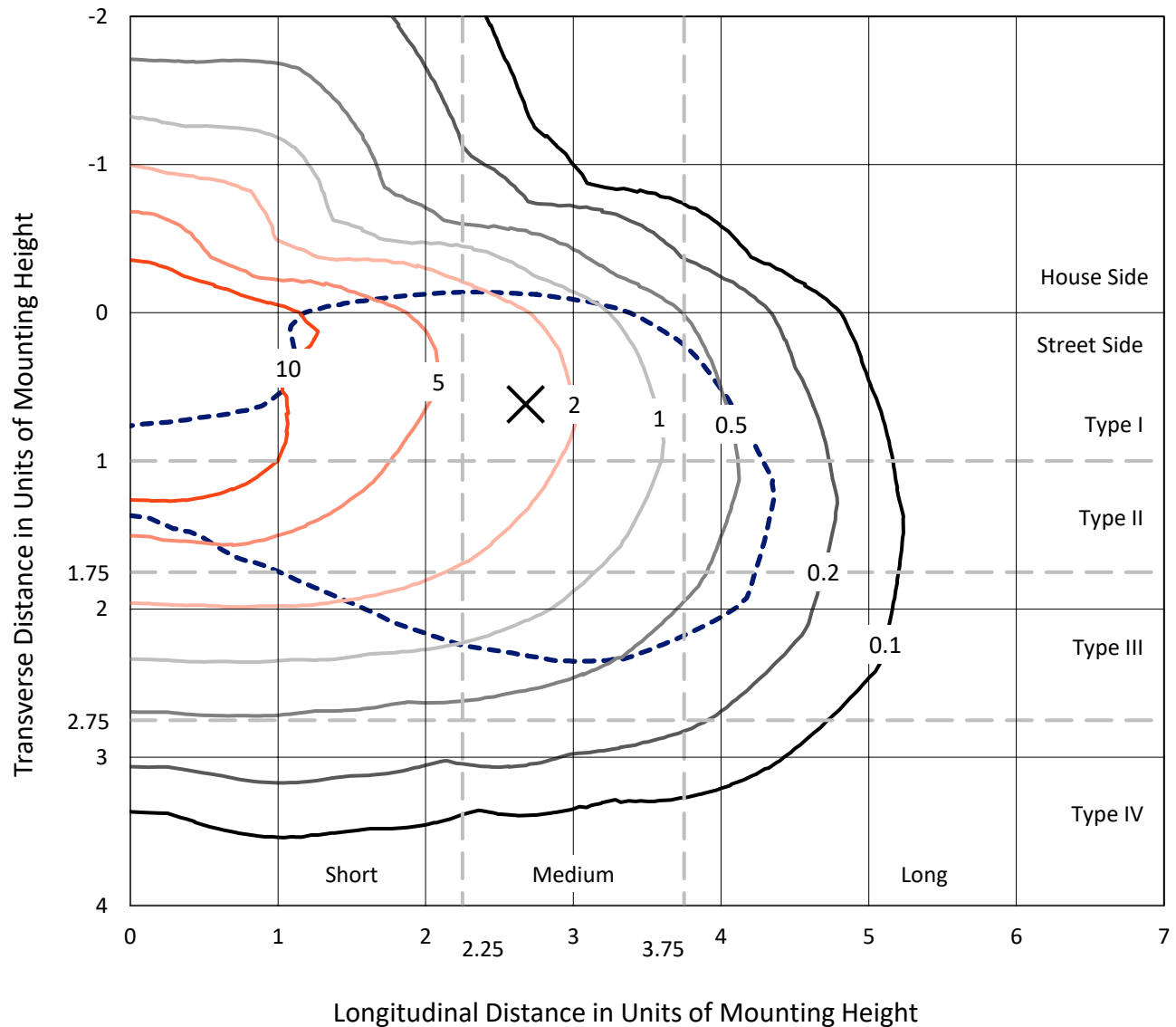


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Iso-Footcandle Lines of Horizontal Illumination

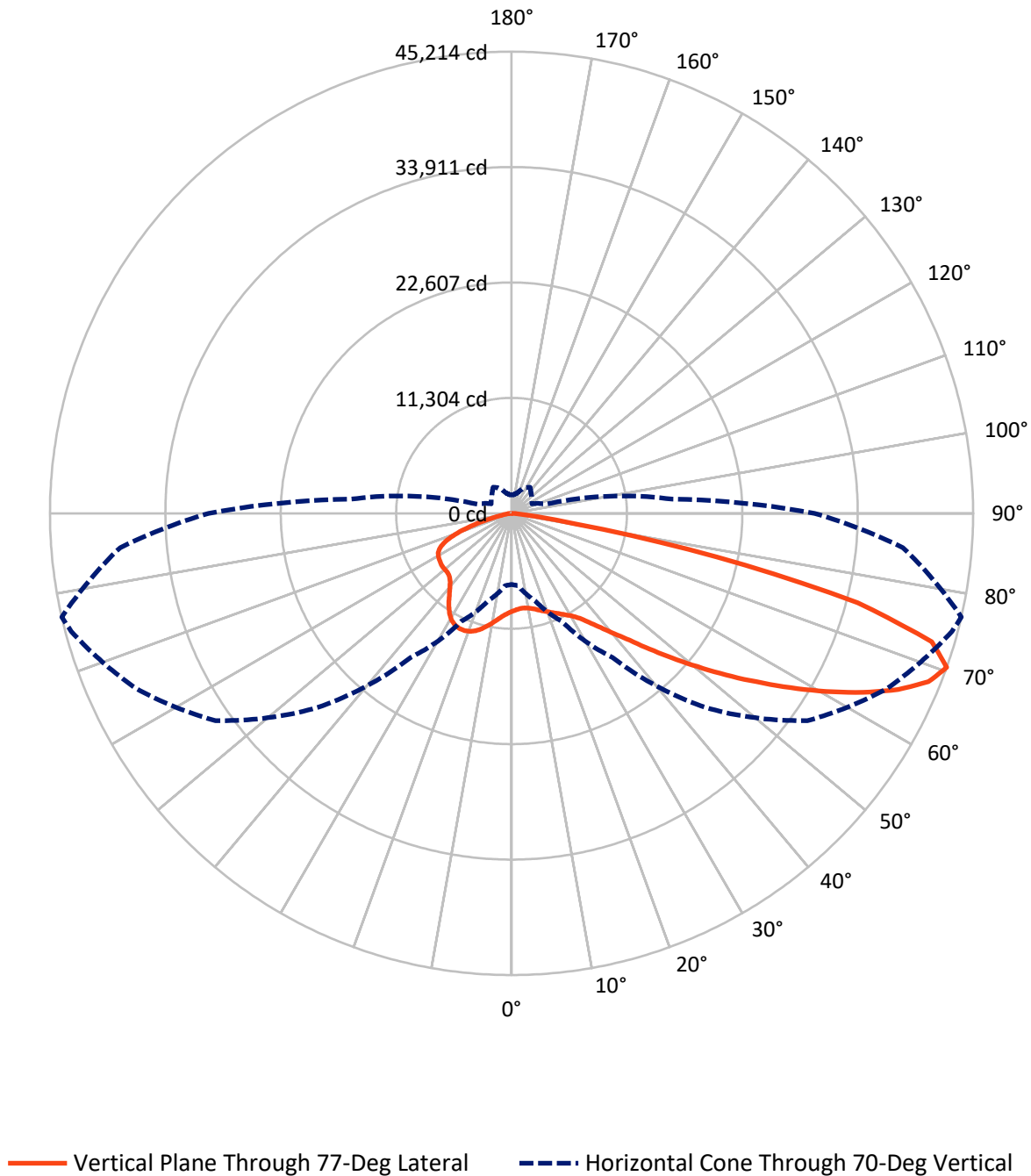
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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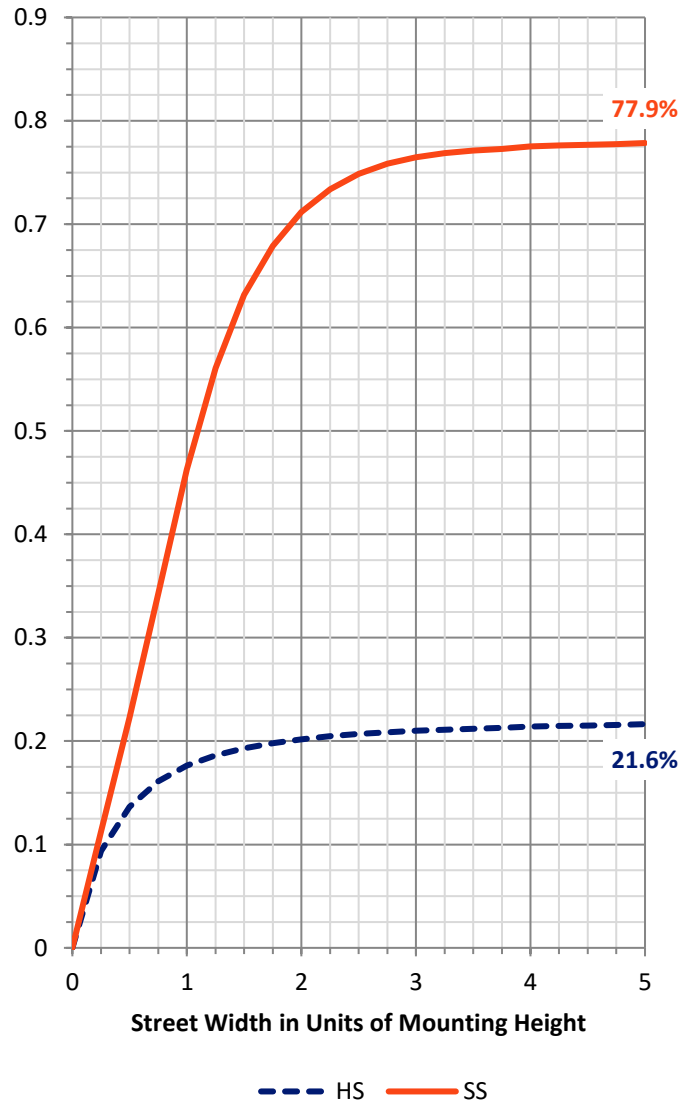
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15043.7	0.0	15043.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	53653.8	0.0	53653.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	68697.5	0.0	68697.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.0	1.3
10°-20°	2638.0	3.8
20°-30°	4511.4	6.6
30°-40°	7254.8	10.6
40°-50°	11326.7	16.5
50°-60°	15129.7	22.0
60°-70°	16125.9	23.5
70°-80°	9927.0	14.5
80°-90°	869.9	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°	68697.5	100.0
0°-180°	68697.5	100.0

Coefficient of Utilization



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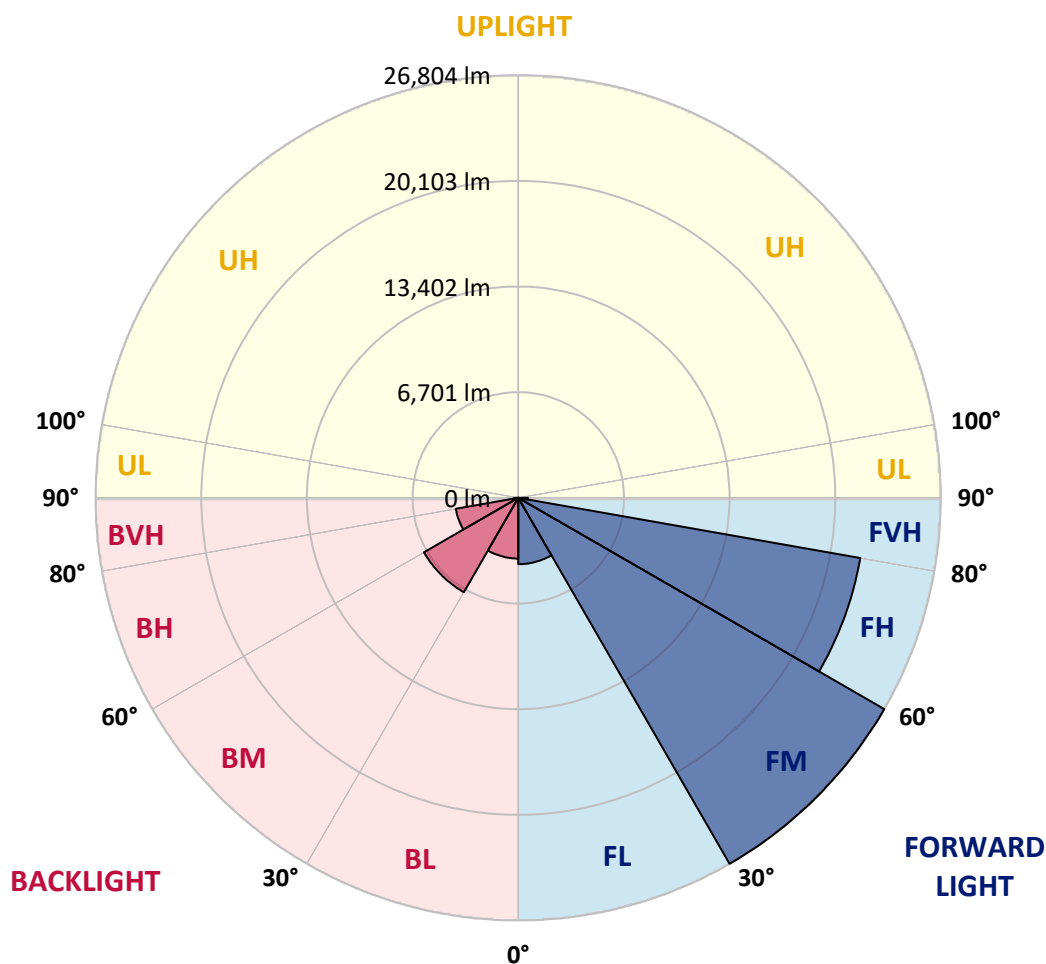
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4208.8	6.1			
FM	(30°-60°)	26804.3	39.0			
FH	(60°-80°)	22032.4	32.1			G5
FVH	(80°-90°)	608.3	0.9			G4/750
BL	(0°-30°)	3854.7	5.6	B4/5000		
BM	(30°-60°)	6906.9	10.1	B4/8500		
BH	(60°-80°)	4020.5	5.9	B4/5000		G4/5000
BVH	(80°-90°)	261.6	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0
2.5°	8834.6	8831.0	8876.7	8890.8	8975.3	9035.1	9147.6	9267.3	9422.1	9439.6	9534.7
5°	8324.3	8324.3	8377.1	8433.4	8542.6	8662.2	8834.6	9042.1	9309.5	9351.7	9587.4
7.5°	7891.6	7919.8	7965.5	8074.5	8201.2	8373.6	8637.5	8933.1	9284.9	9351.7	9731.7
10°	7543.3	7575.0	7631.2	7719.2	7909.2	8148.4	8493.3	8873.2	9344.7	9450.2	9942.8
12.5°	7434.2	7465.9	7497.6	7564.4	7740.3	8021.8	8433.4	8901.4	9488.9	9594.5	10231.3
15°	7687.6	7726.2	7701.6	7684.0	7775.5	8032.3	8461.6	9003.4	9668.4	9819.7	10586.6
17.5°	8271.6	8285.7	8229.4	8064.0	8049.9	8187.2	8595.2	9144.1	9893.5	10058.9	10945.6
20°	9214.5	9189.8	9073.8	8746.5	8560.1	8532.0	8824.0	9355.3	10125.8	10301.7	11332.5
22.5°	10495.2	10467.0	10234.8	9717.6	9302.5	9028.0	9154.7	9629.7	10386.1	10583.1	11709.0
25°	12092.5	12053.8	11712.6	11008.9	10365.0	9685.9	9605.1	9992.1	10706.3	10889.2	12103.1
27.5°	13957.2	13925.5	13556.1	12627.3	11698.4	10586.6	10164.4	10417.8	11040.5	11248.1	12546.4
30°	15962.6	16054.2	15399.7	14400.5	13225.4	11761.8	10917.4	10942.0	11473.2	11659.8	13084.6
32.5°	18319.9	18478.3	17690.2	16423.6	14819.2	13038.9	11867.3	11673.8	12103.1	12257.9	13763.7
35°	20656.1	20835.6	20181.1	18780.9	16933.7	14544.7	12859.5	12514.7	12940.4	13109.3	14664.4
37.5°	22675.7	22914.9	22577.2	21359.8	19196.0	16360.2	14154.2	13503.4	13971.3	14182.4	15874.7
40°	24269.4	24635.4	24610.8	23850.7	21862.9	18562.8	15797.3	14724.2	15252.0	15480.7	17341.9
42.5°	25564.2	25880.8	26155.2	26116.6	24645.9	21064.3	17728.9	16311.0	16712.1	16975.9	18991.9
45°	26457.8	26795.7	27386.7	28023.5	27323.3	23741.7	19941.9	18193.3	18559.2	18956.8	20958.7
47.5°	27256.5	27640.0	28407.1	29416.8	29596.2	26429.7	22366.0	20385.2	20719.5	21131.1	22932.5
50°	27326.9	27657.6	28846.8	30278.8	31211.1	29012.1	24969.6	22844.5	23157.6	23597.4	25047.0
52.5°	25627.6	26148.3	28224.1	30254.1	31953.5	31172.4	27555.6	25402.4	25754.1	26281.9	27235.4
55°	19892.7	20656.1	26398.1	29311.2	31689.6	32569.2	30014.9	28122.0	28572.4	29124.8	29437.9
57.5°	17134.3	17468.6	20955.2	27594.2	30486.4	32931.6	32090.7	30869.8	31594.6	32199.8	31767.0
60°	15399.7	15677.7	17739.5	24923.9	28903.1	32358.1	33695.0	33431.2	34683.7	35404.9	34148.9
62.5°	13542.1	13805.9	15681.2	20810.9	26876.5	31404.7	34708.3	35795.5	37850.2	38638.3	36393.6
65°	11698.4	11923.6	13721.5	17486.1	24301.1	30451.1	35232.5	37839.6	40781.0	41597.3	38258.3
67.5°	9643.7	9830.3	11529.6	14752.4	21169.8	29145.9	35492.9	39447.5	43331.8	44032.0	39180.1
70°	6959.2	7103.6	8859.2	11666.8	17239.8	26901.1	35387.4	40587.4	44654.6	45214.1	38483.5
72.5°	3289.6	3419.8	5481.6	7575.0	12176.9	22531.3	33251.7	39683.3	43310.7	43032.7	34219.3
75°	1755.6	1868.3	3148.9	4155.1	6431.5	15445.5	27210.8	34184.1	36368.9	35018.0	25289.7
77.5°	1189.2	1277.1	1949.1	2494.5	2937.9	7332.2	17489.6	23667.9	22770.7	20540.0	12666.0
80°	942.9	1034.4	1597.4	1688.8	1421.4	2649.3	7226.7	10956.1	7870.5	6294.3	3602.8
82.5°	724.8	826.8	1344.0	1224.4	774.1	1087.1	2103.9	3465.5	2016.0	1534.0	872.6
85°	443.3	552.4	1055.5	781.0	436.2	496.1	714.2	964.0	615.7	513.6	313.1
87.5°	225.2	316.6	534.7	285.0	197.0	116.1	190.0	190.0	161.8	140.7	80.9
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°	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0	9584.0
2.5°	9619.1	9689.5	9809.1	9921.7	10009.6	10094.1	10178.6	10224.3	10238.3	10294.6	10326.3
5°	9731.7	9861.8	10094.1	10312.2	10449.5	10533.9	10593.7	10628.8	10635.9	10653.5	10681.6
7.5°	9939.3	10146.9	10470.6	10688.7	10790.7	10783.7	10759.0	10671.1	10635.9	10604.2	10611.3
10°	10231.3	10505.7	10903.3	11054.6	10991.3	10822.4	10604.2	10347.4	10227.8	10111.7	10076.5
12.5°	10593.7	10942.0	11332.5	11325.5	11012.4	10579.6	10073.0	9679.0	9429.1	9249.7	9207.5
15°	11033.5	11434.6	11733.6	11494.3	10808.3	10030.8	9288.3	8774.7	8549.5	8352.5	8331.4
17.5°	11487.4	11916.5	12053.8	11441.7	10294.6	9218.0	8377.1	7972.6	7750.8	7645.4	7677.0
20°	11930.7	12356.4	12243.8	11139.1	9513.5	8296.2	7546.9	7325.2	7279.4	7304.0	7293.5
22.5°	12398.6	12778.6	12282.5	10555.0	8517.9	7353.4	6941.7	6948.7	7050.8	7124.6	7142.2
25°	12877.1	13133.9	12180.5	9710.6	7448.3	6660.2	6558.2	6670.8	6871.3	7015.5	7054.3
27.5°	13338.0	13450.6	11958.8	8665.7	6530.1	6164.1	6181.7	6413.9	6716.5	6917.0	6966.3
30°	13858.7	13732.0	11533.1	7490.5	5893.2	5738.4	5886.2	6157.1	6459.7	6639.1	6681.4
32.5°	14446.2	13974.8	10857.6	6403.4	5442.9	5397.1	5639.9	5815.8	5949.5	6002.3	6030.4
35°	15178.1	14316.1	9992.1	5639.9	5038.3	5147.3	5379.5	5291.6	5238.8	5210.7	5238.8
37.5°	16128.1	14777.0	8978.8	5143.8	4711.0	4967.9	5062.9	4788.5	4580.8	4478.8	4503.4
40°	17271.5	15452.5	8004.2	4760.3	4503.4	4813.1	4647.8	4317.0	4053.2	3908.8	3919.4
42.5°	18541.6	16159.7	7184.4	4471.8	4387.4	4686.4	4341.6	3947.6	3521.9	3476.1	3521.9
45°	19875.1	16888.0	6625.0	4250.2	4331.0	4577.3	4165.7	3528.9	3226.3	3412.7	3511.3
47.5°	21208.5	17556.5	6287.2	4084.8	4303.0	4454.2	4010.9	3296.7	3082.1	3353.0	3479.7
50°	22693.2	18154.6	6136.0	3965.1	4271.3	4404.9	3778.7	3236.8	2930.8	3110.2	3243.9
52.5°	24167.4	18619.0	6023.4	3845.5	4225.6	4366.3	3666.1	3166.5	2747.8	2758.4	2832.3
55°	25638.1	18921.6	5900.2	3687.2	4123.5	4281.8	3655.6	3089.1	2610.6	2561.4	2596.5
57.5°	27207.3	19094.0	5748.9	3511.3	3947.6	4067.2	3645.0	3029.3	2568.3	2487.5	2498.0
60°	28804.6	19347.3	5551.9	3296.7	3711.8	3810.3	3620.4	3008.2	2543.7	2406.5	2417.1
62.5°	30236.6	19435.2	5316.2	3092.6	3409.3	3557.1	3567.6	2990.5	2476.9	2241.2	2241.2
65°	31175.9	19055.3	4904.5	2860.4	3082.1	3296.7	3465.5	2930.8	2357.3	2121.5	2121.5
67.5°	31137.2	17971.6	4260.7	2561.4	2765.4	3008.2	3317.8	2828.7	2213.1	1973.7	1984.3
70°	29687.7	15832.5	3444.4	2213.1	2417.1	2698.5	3127.8	2677.4	2040.7	1811.9	1833.0
72.5°	25462.1	12391.5	2501.5	1804.9	2012.5	2378.4	2881.5	2494.5	1864.7	1667.7	1657.1
75°	18189.8	7842.4	1695.9	1386.2	1565.7	2016.0	2575.4	2279.9	1702.8	1674.7	1579.7
77.5°	9291.9	3747.0	1122.4	1013.3	1090.7	1590.3	2163.8	2037.1	1727.5	1382.7	1231.4
80°	3022.2	1382.7	707.1	689.6	724.8	1059.0	1674.7	1671.2	1308.8	939.4	830.4
82.5°	964.0	594.6	460.9	443.3	425.7	664.9	1168.1	1322.9	883.1	594.6	591.1
85°	383.5	355.4	270.9	249.8	179.5	313.1	612.2	879.6	657.9	429.3	439.8
87.5°	140.7	140.7	73.9	52.8	38.7	105.6	165.3	263.8	376.5	221.6	218.1
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)