

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: P968823

Luminaire Tested: **NAV-SB5C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41052.3 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 249.5
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



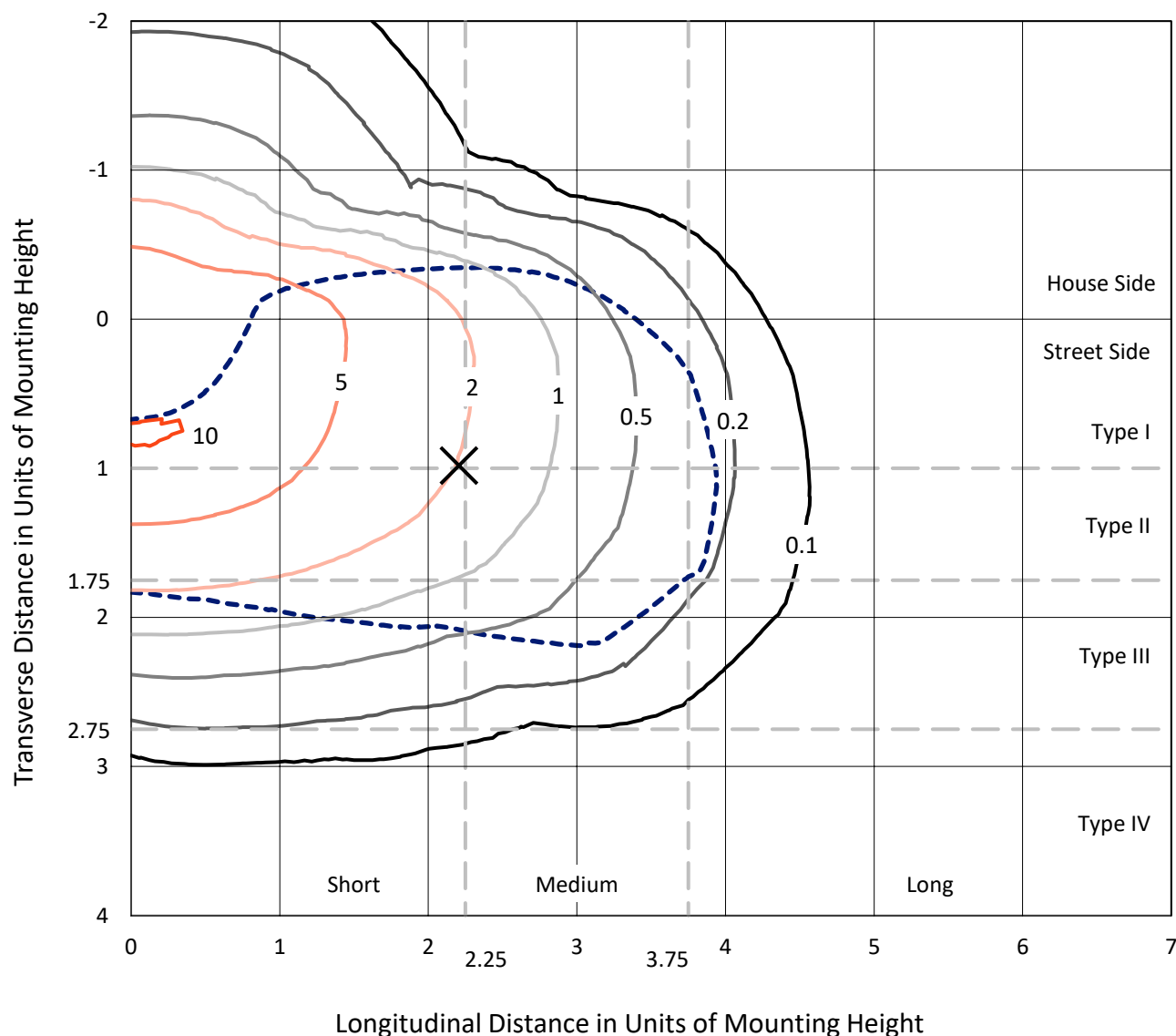
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

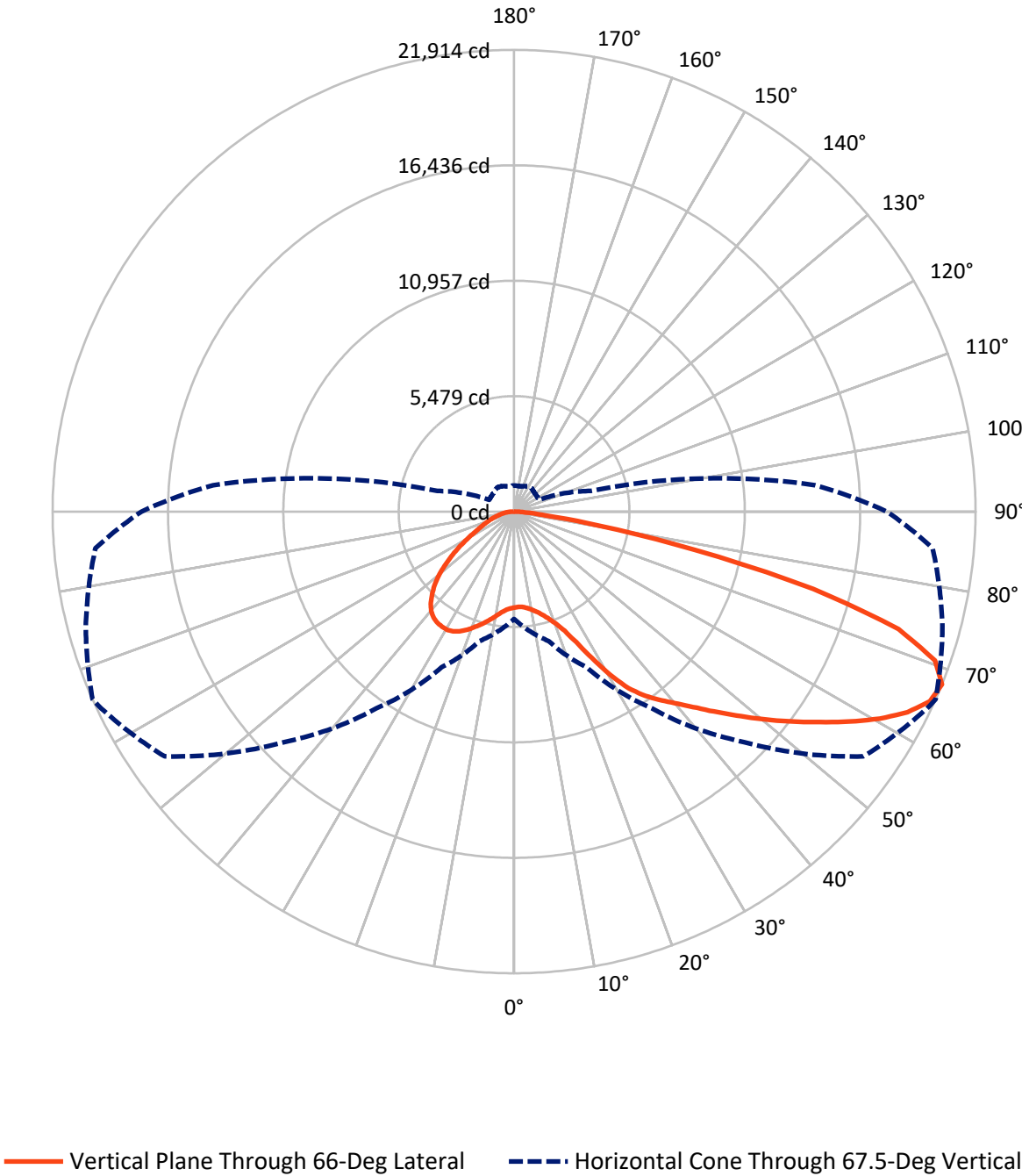


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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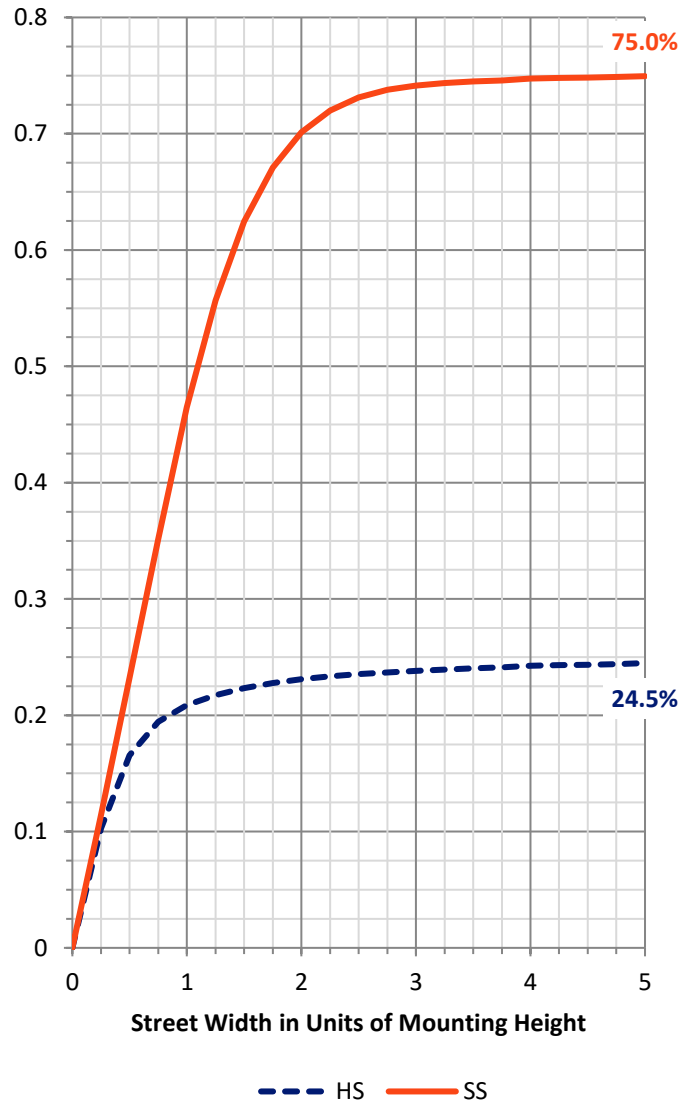
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10207.5	0.0	10207.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	30844.7	0.0	30844.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	41052.3	0.0	41052.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.4	1.1
10°-20°	1491.5	3.6
20°-30°	2874.8	7.0
30°-40°	5040.5	12.3
40°-50°	7493.6	18.3
50°-60°	9498.8	23.1
60°-70°	9294.4	22.6
70°-80°	4433.5	10.8
80°-90°	473.8	1.2
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°	41052.3	100.0
0°-180°	41052.3	100.0

Coefficient of Utilization



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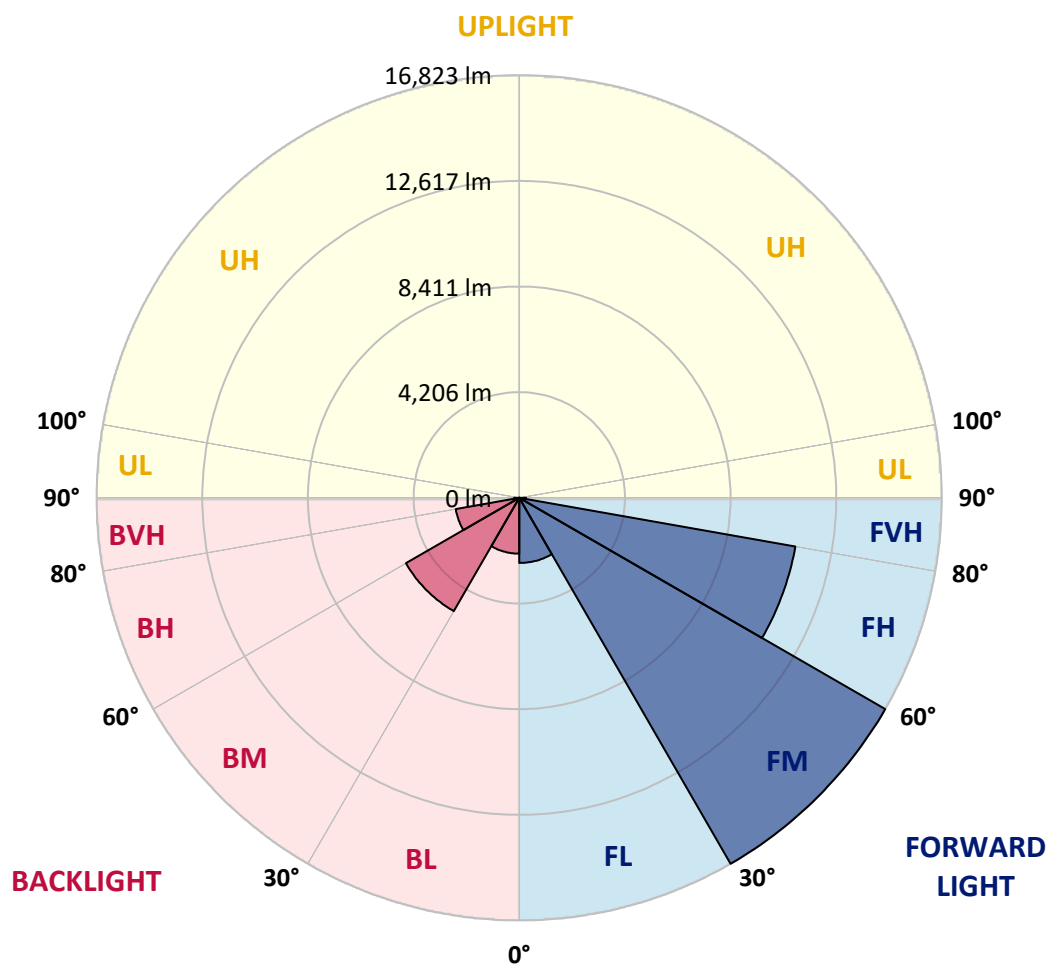
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2594.1	6.3			
FM	(30°-60°)	16822.9	41.0			
FH	(60°-80°)	11159.1	27.2			G4/12000
FVH	(80°-90°)	268.6	0.7			G3/500
BL	(0°-30°)	2223.6	5.4	B3/2500		
BM	(30°-60°)	5210.0	12.7	B4/8500		
BH	(60°-80°)	2568.7	6.3	B4/5000		G4/5000
BVH	(80°-90°)	205.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3
2.5°	4505.8	4531.6	4525.2	4514.4	4512.3	4516.6	4523.0	4529.5	4527.3	4538.2	4555.4
5°	4492.9	4518.7	4516.6	4516.6	4525.2	4542.5	4553.3	4564.0	4553.3	4566.2	4590.0
7.5°	4501.5	4520.9	4529.5	4538.2	4559.7	4592.1	4617.9	4641.7	4628.7	4643.9	4674.0
10°	4611.5	4626.5	4635.2	4635.2	4650.3	4687.0	4712.8	4756.0	4745.2	4768.9	4807.8
12.5°	4812.1	4827.1	4827.1	4818.5	4829.3	4853.1	4861.7	4909.1	4889.8	4928.5	4967.4
15°	5058.0	5088.2	5064.4	5049.4	5053.7	5077.3	5075.2	5111.9	5092.5	5124.8	5159.3
17.5°	5329.7	5368.5	5329.7	5327.5	5318.9	5344.9	5347.0	5379.3	5344.9	5368.5	5392.3
20°	5651.1	5705.0	5672.7	5683.4	5664.0	5674.8	5685.6	5733.0	5679.1	5696.4	5690.0
22.5°	6104.1	6168.8	6134.2	6175.2	6162.3	6153.7	6151.5	6235.6	6151.5	6158.0	6095.5
25°	6764.1	6841.8	6781.3	6837.4	6837.4	6865.4	6897.8	7005.7	6865.4	6824.4	6662.7
27.5°	7739.0	7816.6	7698.1	7732.5	7721.7	7790.7	7756.3	8023.7	7872.7	7805.9	7480.1
30°	8912.4	9050.4	8826.1	8817.5	8806.7	8916.7	8966.3	9143.1	8990.0	8923.1	8530.6
32.5°	10180.6	10325.1	10057.7	9980.0	9939.0	10005.9	9964.9	10107.3	10001.6	9898.0	9412.8
35°	11522.2	11664.6	11410.1	11259.1	11095.1	10955.0	10808.3	10844.9	10745.7	10588.2	10085.7
37.5°	12790.5	13051.4	12781.9	12620.1	12318.1	12044.2	11634.4	11464.0	11371.2	11226.7	10719.9
40°	14082.5	14231.3	14026.4	13888.3	13560.5	13131.3	12475.6	12115.4	11990.2	11850.0	11420.9
42.5°	15033.7	15176.0	15066.1	14971.1	14714.5	14216.2	13368.6	12917.8	12736.5	12579.1	12214.6
45°	15788.6	15894.3	15825.3	15859.7	15749.7	15266.7	14293.8	13778.4	13590.7	13398.7	13111.9
47.5°	16092.7	16204.8	16314.9	16519.8	16707.4	16351.5	15288.2	14710.2	14511.7	14315.5	14032.9
50°	16058.2	16172.6	16491.7	16927.5	17509.8	17391.2	16336.4	15702.3	15519.0	15294.6	15033.7
52.5°	15782.1	15911.5	16321.4	17046.1	17973.6	18169.9	17404.1	16726.9	16554.3	16286.8	16025.9
55°	15057.4	15135.0	15749.7	16776.5	18083.6	18713.3	18450.2	17818.3	17645.7	17272.6	16987.8
57.5°	13713.7	13825.8	14720.9	16049.6	17807.4	19082.2	19369.0	18965.7	18799.6	18262.5	17964.9
60°	11960.1	12139.1	13163.7	14828.8	17104.3	19080.1	20203.8	20093.8	19955.7	19237.5	18926.9
62.5°	9975.7	10182.8	11168.5	13103.2	15874.9	18538.7	20725.8	21038.5	20967.3	20136.9	19740.1
65°	7661.4	7803.7	8785.1	10870.8	13961.7	17376.1	20786.2	21683.5	21696.4	20820.6	20164.9
67.5°	5101.1	5510.9	6362.9	8157.5	11399.2	15475.9	20255.5	21789.1	21914.2	21055.8	19951.4
70°	2489.1	3028.3	3863.0	5301.7	8157.5	12561.9	18868.6	20922.0	21200.3	20369.8	18678.9
72.5°	1033.2	1207.9	1663.0	2616.3	4682.6	8476.6	16081.9	18571.1	19086.5	18049.0	15704.4
75°	696.7	754.9	951.2	1341.6	2133.2	4180.1	11597.7	13847.3	14677.8	13631.7	11142.6
77.5°	537.1	573.7	692.4	938.3	1268.2	1581.1	6207.6	8345.1	8774.3	8122.9	5797.8
80°	422.7	450.8	517.6	683.8	899.4	845.5	2115.9	3781.0	4029.1	3379.8	1863.6
82.5°	366.6	377.5	370.9	463.7	597.5	493.9	694.5	1395.5	1540.1	1117.2	608.2
85°	265.3	295.5	308.4	286.9	317.0	250.2	284.7	493.9	543.6	485.3	343.0
87.5°	107.8	159.6	196.3	185.5	116.4	71.1	88.5	144.5	166.0	181.2	112.1
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°	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3	4553.3
2.5°	4557.6	4572.6	4583.4	4596.4	4605.0	4617.9	4643.9	4658.9	4661.1	4671.8	4669.7
5°	4598.6	4620.1	4643.9	4678.3	4717.2	4749.5	4799.2	4833.6	4846.6	4857.4	4855.2
7.5°	4687.0	4717.2	4760.3	4820.7	4876.7	4919.9	4980.3	5021.3	5062.3	5077.3	5079.5
10°	4818.5	4861.7	4924.2	5006.2	5066.6	5122.6	5185.2	5219.7	5260.7	5277.9	5286.5
12.5°	4982.4	5027.7	5109.7	5224.0	5280.1	5318.9	5340.6	5331.8	5340.6	5355.6	5359.9
15°	5170.1	5219.7	5312.5	5435.4	5474.2	5439.8	5392.3	5349.2	5342.7	5347.0	5362.1
17.5°	5392.3	5428.9	5536.7	5640.4	5612.3	5469.9	5366.4	5297.4	5262.9	5252.1	5267.2
20°	5702.9	5702.9	5791.4	5856.0	5668.4	5426.8	5265.0	5152.9	5081.6	5051.5	5045.0
22.5°	6080.3	6045.9	6101.9	6056.6	5657.6	5306.0	5081.6	4887.6	4779.7	4736.6	4730.1
25°	6559.2	6518.2	6503.1	6222.7	5579.9	5114.0	4749.5	4514.4	4419.5	4395.8	4400.1
27.5°	7281.7	7178.2	6981.9	6313.3	5437.5	4812.1	4361.3	4143.5	4089.5	4091.7	4098.2
30°	8243.7	8036.6	7555.7	6328.3	5204.6	4385.0	3964.4	3809.1	3783.2	3794.0	3830.6
32.5°	9134.5	8938.2	8142.3	6259.4	4846.6	3966.5	3608.5	3505.0	3466.1	3479.1	3496.4
35°	9833.3	9779.4	8685.8	6162.3	4406.6	3574.0	3289.3	3200.9	3125.3	3108.1	3121.0
37.5°	10493.3	10471.8	9093.5	6026.4	3970.8	3295.8	3032.7	2916.1	2806.1	2745.8	2747.9
40°	11218.1	11196.5	9361.0	5817.2	3584.8	3054.2	2801.8	2648.7	2512.8	2402.8	2413.6
42.5°	12033.4	11906.2	9488.2	5517.4	3256.9	2849.3	2614.2	2407.1	2228.0	2126.7	2133.2
45°	12924.2	12637.3	9486.1	5135.6	2980.8	2661.6	2413.6	2120.2	1954.2	1859.2	1854.9
47.5°	13869.0	13336.2	9369.6	4712.8	2713.4	2454.6	2103.0	1878.6	1768.6	1710.4	1697.5
50°	14843.8	13989.7	9171.2	4227.5	2439.5	2219.4	1908.9	1755.7	1671.6	1617.7	1598.3
52.5°	15760.5	14582.9	8931.7	3677.5	2161.2	1990.9	1822.6	1704.0	1615.5	1555.1	1529.3
55°	16612.5	15094.0	8593.1	3114.6	1934.8	1837.7	1781.7	1682.4	1581.1	1509.8	1481.8
57.5°	17369.6	15426.2	8008.6	2586.2	1772.9	1732.0	1738.5	1645.7	1529.3	1468.8	1430.1
60°	17999.4	15670.0	7143.7	2096.5	1641.4	1628.4	1671.6	1576.7	1440.8	1371.8	1341.6
62.5°	18376.9	15665.7	6082.5	1716.9	1529.3	1533.6	1583.2	1490.5	1352.4	1287.7	1268.2
65°	18344.5	15281.7	4917.7	1468.8	1421.4	1425.7	1490.5	1395.5	1279.1	1240.2	1238.1
67.5°	17695.3	14345.6	3772.4	1307.1	1302.8	1322.1	1397.7	1330.9	1233.8	1229.5	1235.9
70°	15937.4	12402.2	2717.7	1177.6	1179.9	1207.9	1307.1	1289.9	1210.0	1218.6	1216.5
72.5°	12779.7	9455.9	1824.7	1041.8	1044.0	1089.3	1220.8	1257.5	1186.3	1300.6	1317.8
75°	8511.2	5897.0	1173.3	897.3	899.4	957.7	1145.3	1194.9	1121.6	1296.3	1307.1
77.5°	4089.5	2650.9	849.8	754.9	754.9	808.8	990.0	1069.8	955.5	1007.3	923.1
80°	1412.8	996.5	668.6	608.2	595.3	632.0	834.8	927.5	823.9	759.2	711.8
82.5°	556.5	517.6	537.1	472.3	429.3	452.9	649.2	765.7	606.1	547.9	545.7
85°	319.2	336.5	379.7	312.7	248.0	278.3	476.7	550.0	457.3	403.3	411.9
87.5°	86.3	118.6	174.7	161.7	112.1	118.6	226.5	304.1	263.1	202.7	209.2
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)