

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: P968824

Luminaire Tested: **NAV-SB5C-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31061.6 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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



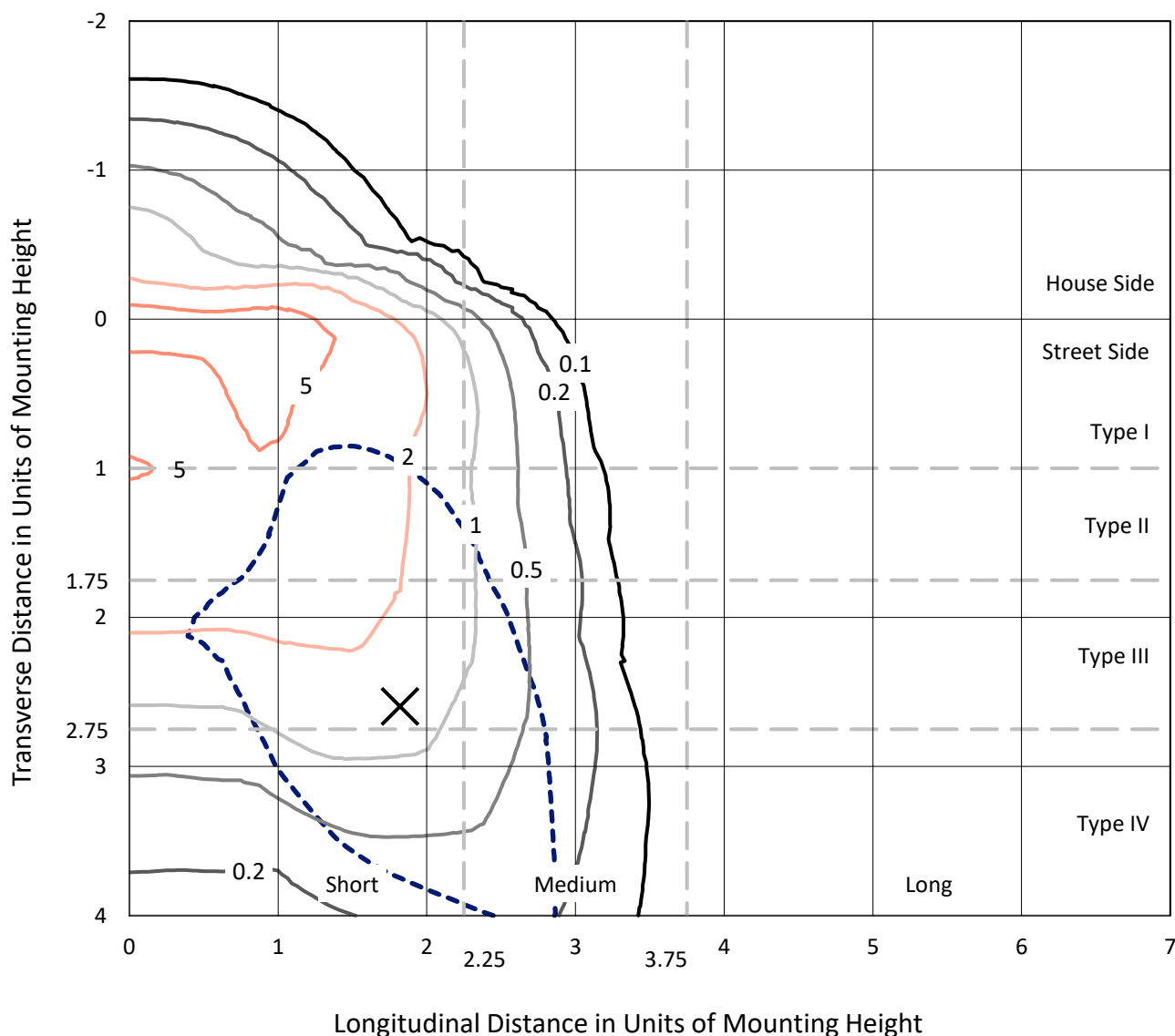
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

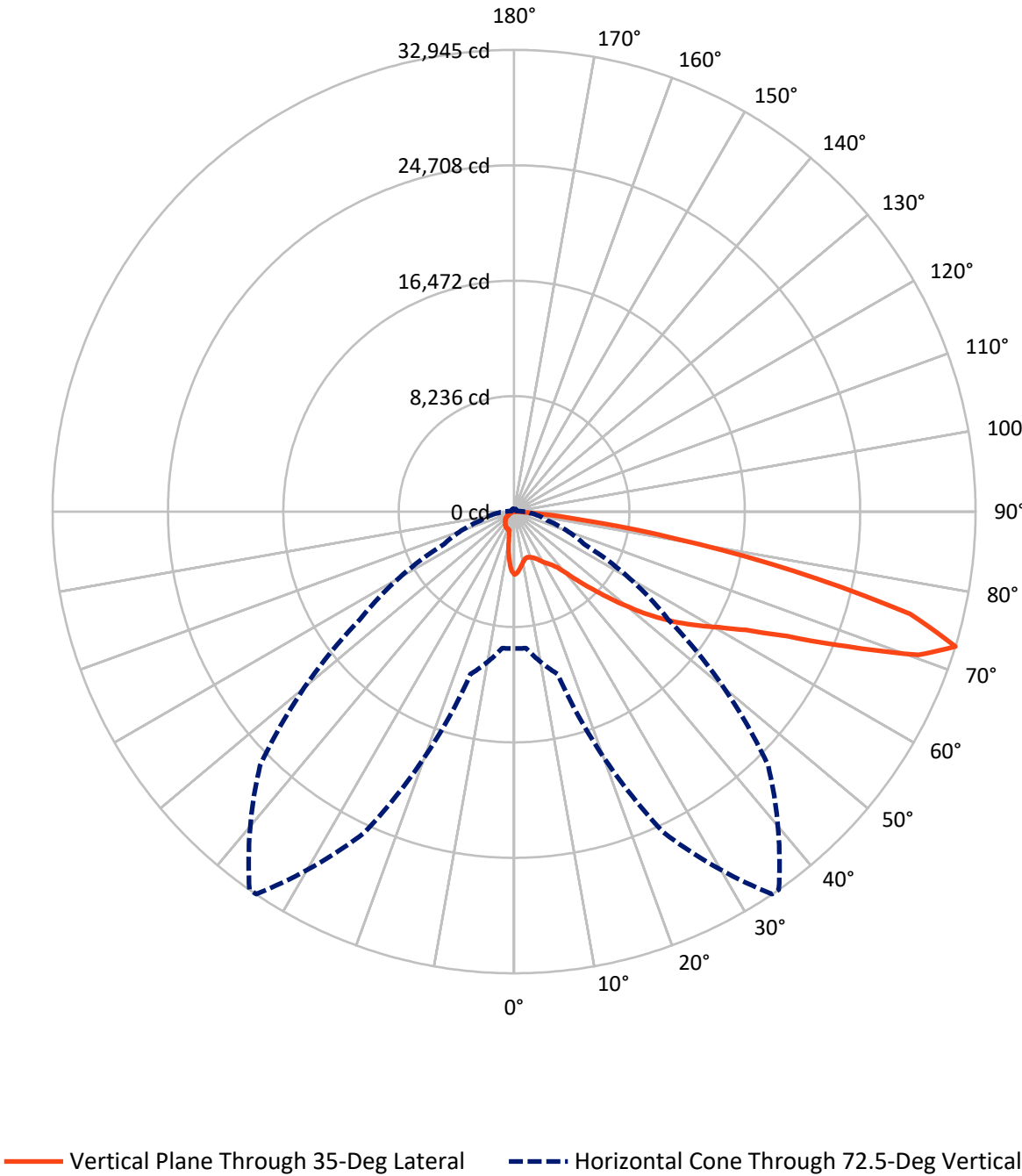


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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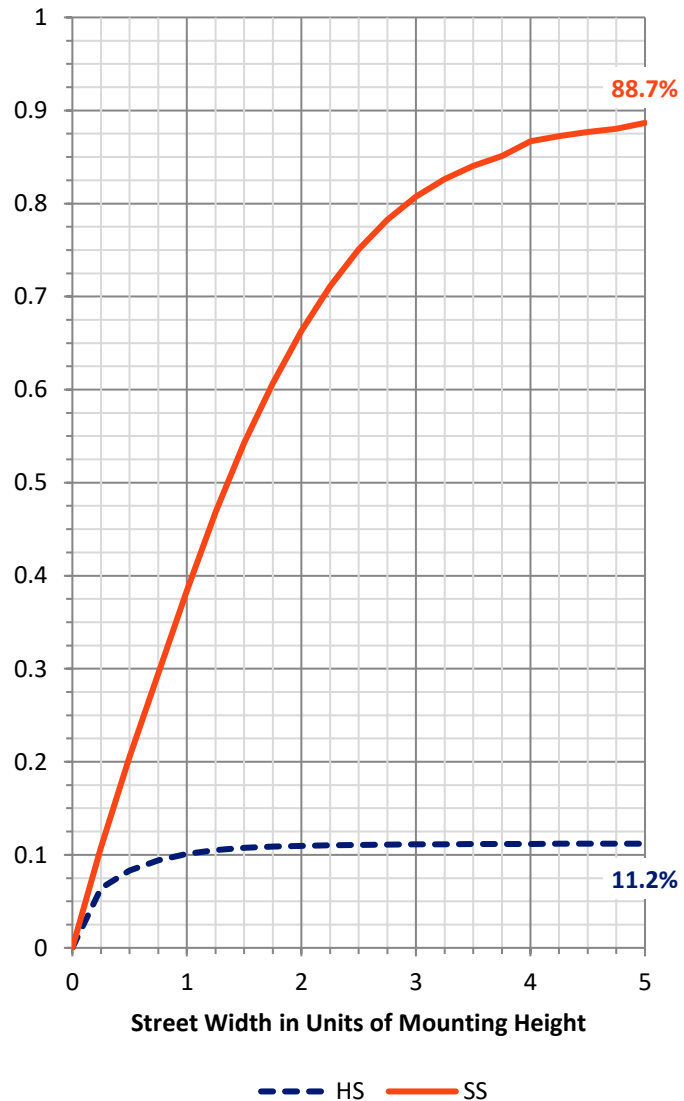
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3495.8	0.0	3495.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	27565.8	0.0	27565.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	31061.6	0.0	31061.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.9	1.2
10°-20°	865.4	2.8
20°-30°	1405.8	4.5
30°-40°	2345.6	7.6
40°-50°	4438.0	14.3
50°-60°	7052.0	22.7
60°-70°	8723.8	28.1
70°-80°	5422.8	17.5
80°-90°	438.2	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°	31061.6	100.0
0°-180°	31061.6	100.0

Coefficient of Utilization



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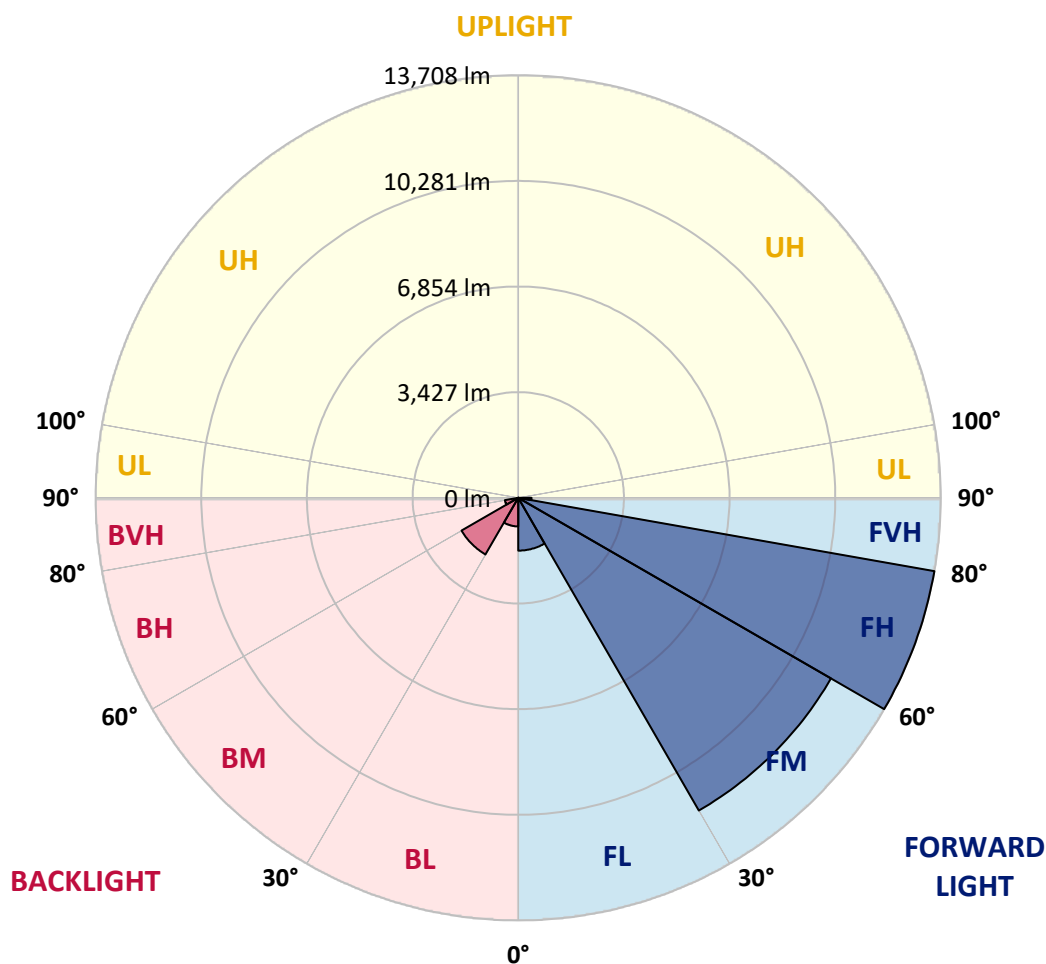
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1712.3	5.5			
FM	(30°-60°)	11713.3	37.7			
FH	(60°-80°)	13707.9	44.1			G5
FVH	(80°-90°)	432.3	1.4			G3/500
BL	(0°-30°)	928.9	3.0	B2/1000		
BM	(30°-60°)	2122.3	6.8	B2/2500		
BH	(60°-80°)	438.7	1.4	B1/500		G1/500
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9
2.5°	4301.6	4338.0	4344.9	4356.2	4356.2	4369.9	4392.6	4424.5	4476.8	4504.2	4522.3
5°	3964.7	3992.1	4026.2	4053.5	4105.8	4112.7	4201.5	4287.9	4408.5	4499.5	4563.3
7.5°	3625.6	3657.5	3703.0	3769.0	3837.3	3857.8	3992.1	4137.7	4328.9	4499.5	4606.6
10°	3386.6	3389.0	3429.9	3495.9	3605.1	3630.1	3794.0	4001.2	4240.1	4472.3	4647.6
12.5°	3252.3	3268.3	3286.5	3336.6	3441.2	3457.2	3632.5	3875.9	4151.4	4456.4	4695.3
15°	3252.3	3263.7	3275.1	3300.2	3384.3	3398.0	3552.8	3796.3	4105.8	4463.2	4772.7
17.5°	3286.5	3304.7	3295.6	3325.2	3414.0	3423.1	3559.6	3773.5	4103.6	4506.4	4891.1
20°	3368.5	3382.1	3363.8	3382.1	3470.9	3489.1	3630.1	3816.8	4142.2	4581.5	5039.0
22.5°	3498.1	3505.0	3461.7	3475.4	3566.5	3589.2	3753.0	3939.7	4235.6	4702.2	5237.0
25°	3662.0	3675.6	3609.6	3625.6	3712.1	3739.4	3928.3	4124.1	4383.5	4868.3	5489.6
27.5°	3850.9	3857.8	3800.9	3798.5	3910.1	3948.8	4140.0	4351.6	4581.5	5077.6	5808.3
30°	4067.2	4087.6	4033.1	4023.9	4165.0	4196.9	4385.8	4631.6	4872.8	5391.8	6261.2
32.5°	4237.9	4253.8	4221.9	4244.7	4388.0	4413.1	4683.9	5027.6	5330.3	5837.9	6878.0
35°	4483.7	4492.8	4419.9	4460.9	4624.8	4688.5	5091.4	5583.0	5906.2	6397.7	7683.7
37.5°	5373.6	5373.6	5064.0	4861.5	5018.5	5075.4	5649.0	6281.7	6616.3	7148.9	8698.8
40°	6604.9	6584.4	6131.4	5717.2	5696.7	5808.3	6443.3	7162.5	7533.4	8050.1	9841.3
42.5°	7918.1	7886.2	7269.4	6859.8	6791.4	6830.2	7360.5	8248.1	8625.9	9149.4	11070.3
45°	9083.3	9074.3	8509.9	7959.0	7836.1	7959.0	8505.3	9518.2	9789.0	10339.7	12297.0
47.5°	10059.8	10059.8	9647.8	9288.2	9224.5	9297.4	10055.2	10926.9	10901.9	11607.4	13492.0
50°	11184.1	11175.0	10783.5	10628.7	10694.7	10797.2	11839.6	12410.9	12053.5	12852.4	14559.4
52.5°	11971.6	12026.2	11891.9	11866.9	12203.8	12381.3	13651.3	13862.9	13084.5	14033.6	15358.2
55°	12595.2	12659.0	12813.7	12989.0	13637.6	13869.8	15406.1	15239.9	13947.2	15057.8	15818.0
57.5°	13478.3	13387.2	13626.2	13972.2	15021.4	15301.3	17106.2	16539.5	14641.3	15888.5	15868.0
60°	14550.3	14563.9	14604.9	15041.9	16402.9	16762.5	18781.3	17768.5	15087.4	16398.4	15312.7
62.5°	15838.5	15859.0	15943.2	16614.5	18257.8	18597.0	20565.7	18774.5	15292.3	16255.0	13878.9
65°	15749.7	15836.1	16776.2	19072.6	21077.8	21412.4	22648.2	19480.0	14982.7	14944.0	11300.2
67.5°	14347.7	14488.8	16061.5	22008.6	25329.3	25702.5	25165.4	19618.8	13646.7	11621.1	7371.9
70°	12508.7	12558.8	14450.1	24648.8	30252.2	30630.0	27418.6	18091.7	10355.7	6482.0	3302.4
72.5°	9768.5	9779.8	11999.0	25261.0	32924.1	32944.6	25650.2	13430.5	5569.3	2489.9	1147.1
75°	6978.1	6909.8	8036.4	20486.0	28966.3	29198.5	19229.6	6299.9	2128.0	1176.7	571.2
77.5°	3741.7	3816.8	4547.4	12149.1	20010.4	20406.3	10492.2	1816.2	1083.3	801.1	377.8
80°	1156.2	1220.0	1864.1	5562.5	11334.3	11573.3	3889.7	808.0	755.6	571.2	248.0
82.5°	364.2	377.8	869.4	2337.4	4704.4	4813.7	1126.6	457.5	516.6	377.8	145.7
85°	104.7	107.0	386.9	871.7	1163.1	1185.8	316.3	177.5	295.9	234.4	75.1
87.5°	11.4	36.4	145.7	145.7	102.4	100.1	34.1	38.6	84.3	29.6	13.6
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°	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9	4501.9
2.5°	4510.9	4513.3	4483.7	4433.6	4379.0	4333.5	4276.5	4231.0	4199.1	4190.1	4206.0
5°	4542.8	4526.9	4442.7	4290.2	4108.1	3951.1	3775.8	3637.0	3546.0	3507.2	3520.9
7.5°	4590.7	4545.2	4360.8	4060.3	3712.1	3402.6	3088.5	2845.0	2690.2	2612.8	2624.2
10°	4631.6	4540.5	4224.2	3728.0	3195.4	2726.6	2303.3	2009.7	1845.8	1768.4	1770.7
12.5°	4670.3	4538.3	4046.7	3334.3	2612.8	2039.2	1645.5	1499.9	1454.4	1438.4	1433.9
15°	4743.1	4545.2	3823.7	2883.6	2032.5	1540.8	1397.5	1395.1	1404.2	1399.7	1397.5
17.5°	4843.2	4551.9	3571.0	2405.7	1568.1	1358.7	1352.0	1372.4	1386.1	1379.2	1377.0
20°	4973.0	4579.3	3302.4	1932.3	1347.4	1313.2	1329.1	1347.4	1358.7	1347.4	1345.1
22.5°	5155.0	4627.1	3008.8	1552.3	1276.8	1286.0	1299.6	1320.1	1331.5	1315.5	1313.2
25°	5378.1	4702.2	2719.7	1349.6	1242.7	1254.1	1274.6	1297.3	1311.0	1295.0	1292.7
27.5°	5667.1	4822.8	2453.5	1304.1	1208.6	1215.3	1245.0	1279.1	1297.3	1276.8	1276.8
30°	6085.9	5020.8	2223.6	1324.6	1188.1	1172.1	1213.1	1260.9	1281.4	1263.2	1260.9
32.5°	6641.3	5300.7	2082.5	1356.5	1179.0	1122.1	1160.7	1222.2	1256.3	1245.0	1245.0
35°	7369.5	5726.4	2027.9	1392.9	1172.1	1069.7	1097.1	1163.1	1222.2	1233.6	1233.6
37.5°	8252.7	6318.1	2043.8	1408.9	1151.7	1026.4	1040.1	1097.1	1174.4	1210.8	1220.0
40°	9256.4	7007.7	2134.9	1392.9	1128.8	990.0	992.3	1035.6	1103.8	1158.5	1176.7
42.5°	10291.9	7813.4	2303.3	1333.7	1108.4	958.2	951.4	980.9	1026.4	1065.2	1081.1
45°	11277.5	8641.9	2469.4	1251.8	1083.3	926.3	910.4	921.8	930.9	946.8	955.9
47.5°	12137.7	9224.5	2421.7	1176.7	1049.2	889.9	862.6	858.0	830.8	828.4	826.2
50°	12731.7	9352.0	2150.8	1101.6	999.2	848.9	805.6	778.4	730.6	707.9	710.1
52.5°	12920.6	8848.9	1757.1	1026.4	917.2	794.3	732.9	689.6	630.5	610.0	607.7
55°	12670.3	7863.5	1404.2	935.4	803.4	721.5	653.2	596.3	548.5	523.5	523.5
57.5°	12058.1	6609.4	1110.7	828.4	682.8	639.5	571.2	514.3	473.4	448.3	443.8
60°	11043.0	5248.4	878.5	701.0	582.6	550.8	480.2	443.8	407.4	377.8	370.9
62.5°	9502.2	3746.3	689.6	555.3	487.1	450.7	409.7	382.3	339.1	298.2	291.3
65°	7415.2	2291.9	532.6	407.4	391.4	373.3	348.2	323.2	270.8	229.9	223.0
67.5°	4677.1	1085.7	380.1	307.3	309.5	300.4	289.0	268.5	229.9	193.4	188.9
70°	2059.7	525.7	250.4	234.4	229.9	229.9	238.9	232.2	195.8	161.6	154.8
72.5°	701.0	282.2	186.7	177.5	166.2	163.9	200.3	193.4	157.0	125.2	118.4
75°	366.4	188.9	136.5	127.4	100.1	120.6	159.3	150.3	111.5	81.9	75.1
77.5°	238.9	134.3	93.3	81.9	56.9	79.6	118.4	104.7	66.0	41.0	36.4
80°	150.3	88.8	54.6	38.6	27.3	43.3	63.8	45.5	25.0	9.1	6.9
82.5°	79.6	45.5	20.5	13.6	11.4	13.6	15.9	11.4	4.5	0.0	0.0
85°	31.9	15.9	6.9	4.5	2.3	0.0	4.5	2.3	0.0	0.0	0.0
87.5°	11.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	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)