

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: STREETWORKS

Report Number: P324312

Luminaire Tested: **GAN-SA8A-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22003 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

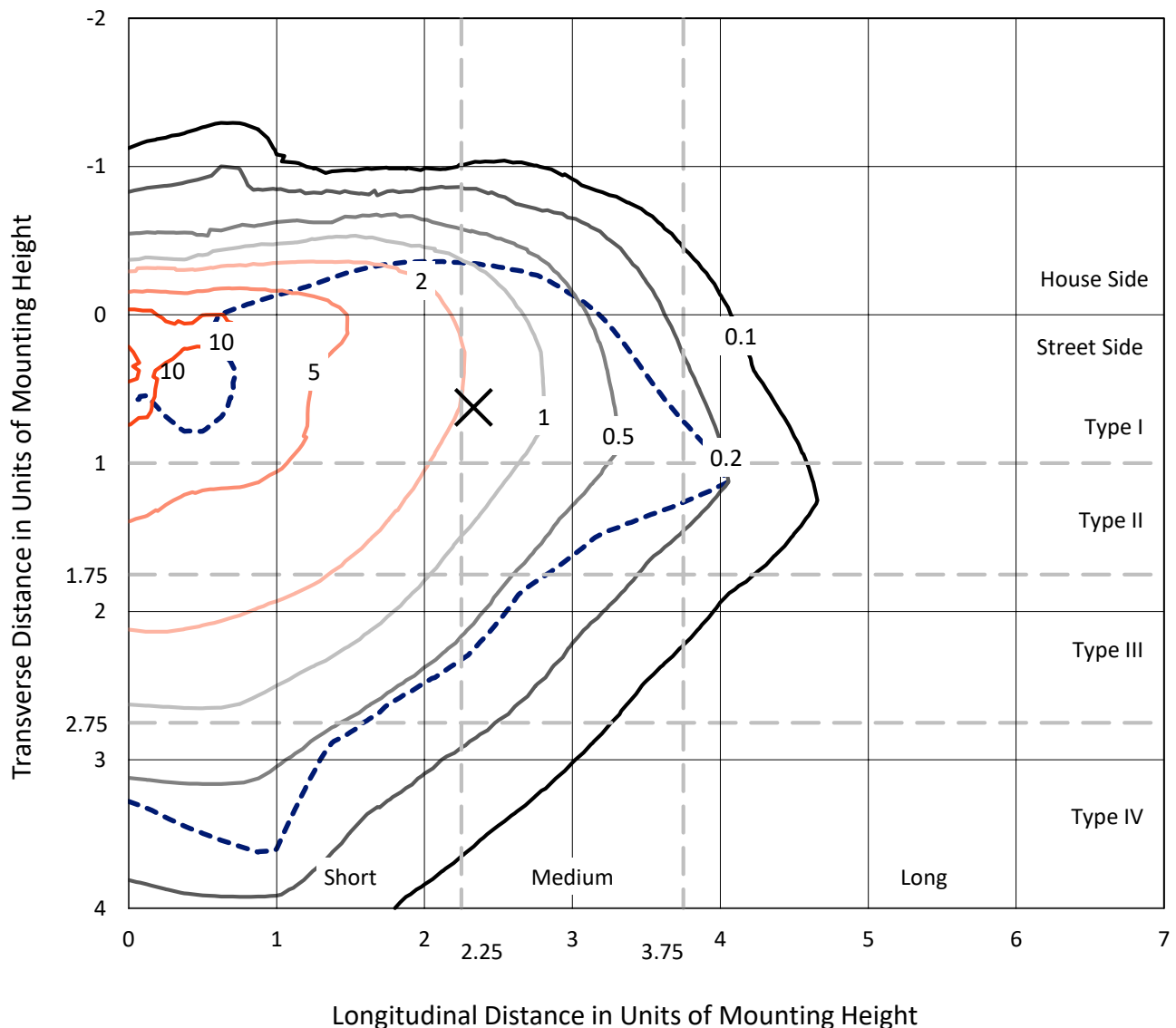
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

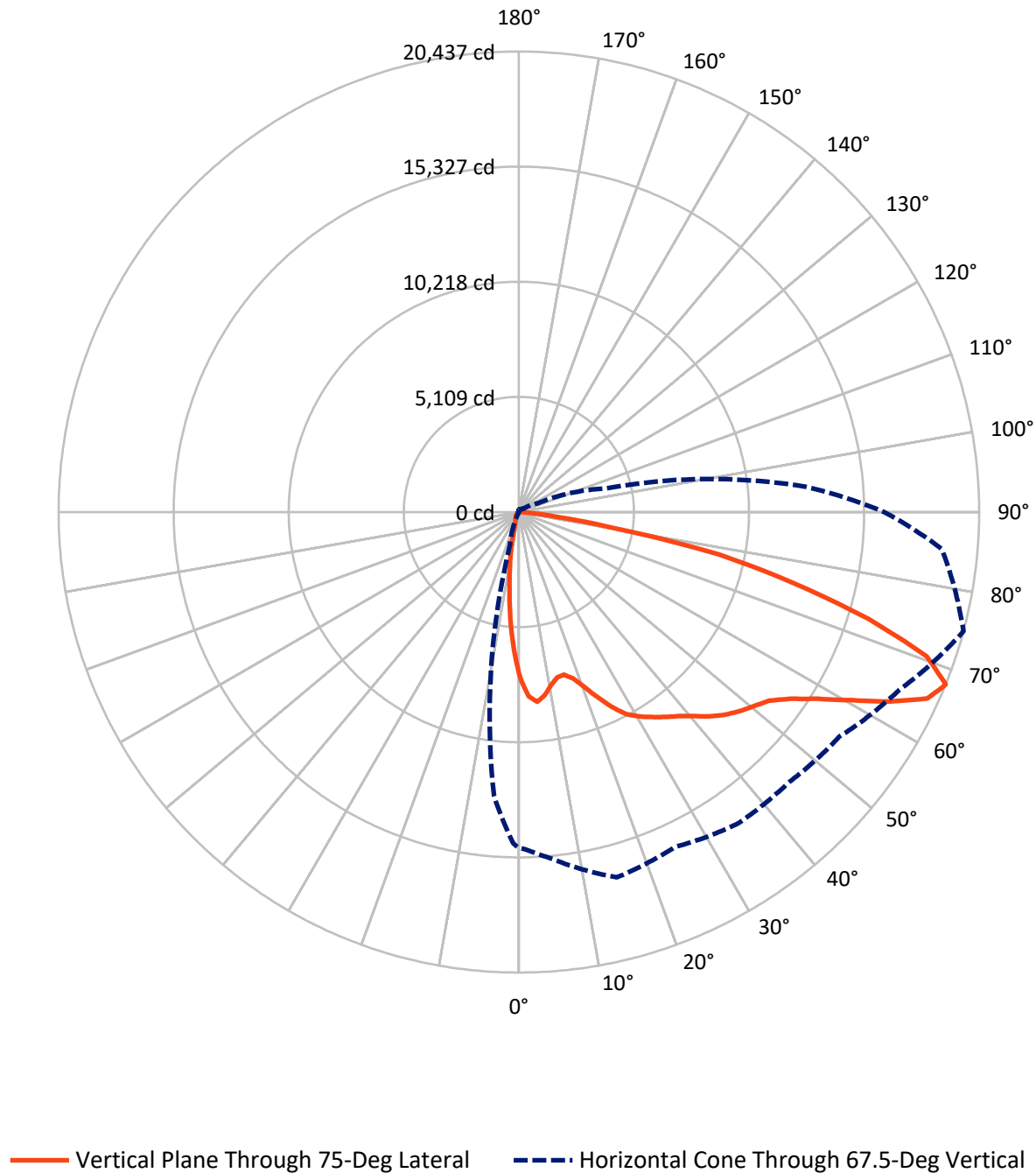
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	3301.8	0.0	3301.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	18701.2	0.0	18701.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	22003.0	0.0	22003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.9	2.5
10°-20°	1102.5	5.0
20°-30°	1559.7	7.1
30°-40°	2293.3	10.4
40°-50°	3296.2	15.0
50°-60°	4640.1	21.1
60°-70°	5419.3	24.6
70°-80°	2764.7	12.6
80°-90°	367.3	1.7
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°	22003.0	100.0
0°-180°	22003.0	100.0

Coefficient of Utilization



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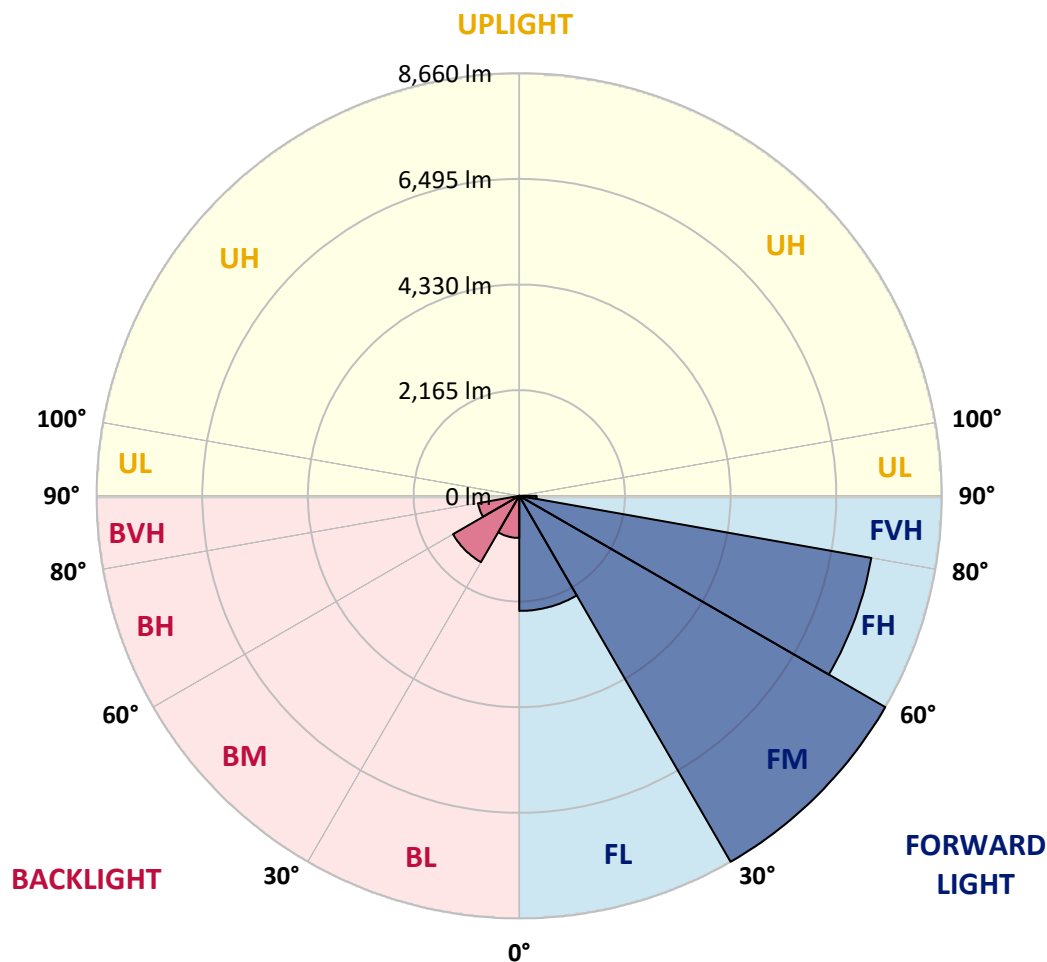
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2358.7	10.7			
FM	(30°-60°)	8660.0	39.4			
FH	(60°-80°)	7326.4	33.3			G3/7500
FVH	(80°-90°)	356.1	1.6			G3/500
BL	(0°-30°)	863.5	3.9	B2/1000		
BM	(30°-60°)	1569.6	7.1	B2/2500		
BH	(60°-80°)	857.6	3.9	B2/1000		G2/1000
BVH	(80°-90°)	11.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6
2.5°	8001.8	8014.3	8078.9	8229.0	8392.7	8405.2	8515.7	8402.1	8363.5	8180.0	7990.3
5°	8062.3	8110.2	8332.2	8773.1	9155.6	9278.6	9366.2	9143.1	8908.6	8460.4	7982.0
7.5°	7575.5	7655.8	8004.9	8832.5	9516.3	9818.5	9875.9	9526.7	8952.4	8214.4	7495.2
10°	6952.2	7043.9	7465.0	8482.3	9421.4	9939.5	10018.7	9561.1	8735.6	7816.3	6968.9
12.5°	6447.7	6555.1	6985.6	8088.3	9095.2	9668.5	9824.8	9445.4	8548.0	7533.8	6609.3
15°	6215.3	6338.3	6790.6	7834.0	8733.5	9184.8	9314.1	9150.4	8443.7	7489.0	6525.9
17.5°	6348.7	6482.1	6949.1	7855.9	8393.7	8586.5	8690.8	8757.5	8443.7	7758.9	6769.8
20°	6895.9	7039.8	7533.8	8077.9	8112.3	8040.4	8151.9	8386.4	8541.7	8271.8	7355.6
22.5°	7652.6	7821.5	8379.1	8458.3	7974.7	7702.7	7717.3	8085.2	8720.0	8922.2	8168.6
25°	8575.1	8781.5	9348.5	9025.4	8032.0	7501.5	7496.3	7837.1	8894.0	9573.6	9074.3
27.5°	9491.3	9718.5	10216.7	9717.4	8268.6	7465.0	7454.6	7762.1	9063.9	10153.1	10063.5
30°	10259.4	10480.4	10909.8	10218.8	8524.0	7550.5	7500.5	7842.3	9165.0	10529.4	10784.8
32.5°	10884.8	11062.0	11409.1	10563.8	8797.1	7716.2	7607.8	8057.0	9337.0	10847.3	11447.7
35°	11572.8	11759.3	11898.0	10892.1	9103.5	7954.9	7799.6	8397.9	9601.7	11170.4	12174.2
37.5°	12357.6	12543.1	12526.5	11192.3	9492.3	8349.9	8250.9	8937.8	10013.5	11490.4	12985.1
40°	13125.8	13315.5	13180.0	11520.6	9948.8	9001.4	8928.4	9748.7	10564.8	11900.0	13935.7
42.5°	13845.0	14050.3	13760.6	11831.2	10492.9	9822.7	9947.8	10793.1	11254.8	12404.5	14754.9
45°	14424.5	14634.0	14247.3	12133.5	11066.2	10819.2	11195.4	11950.1	12084.5	12830.8	15308.4
47.5°	14845.6	15043.6	14585.0	12435.8	11800.0	12037.6	12693.2	13163.3	12833.9	13200.8	15701.3
50°	15114.5	15268.8	14684.0	12814.1	12763.1	13459.3	14253.6	14482.9	13539.6	13534.4	16178.7
52.5°	15285.5	15355.3	14757.0	13209.2	13767.9	15007.2	15781.6	15853.5	14266.1	13901.3	16821.8
55°	15874.4	15930.6	15274.0	13687.6	14598.6	16363.2	17163.7	17097.0	15088.5	14619.4	17580.6
57.5°	16879.1	16938.6	16342.4	14375.5	15270.9	17201.2	18165.4	18285.2	16052.6	15628.4	18393.6
60°	17383.6	17494.1	17281.5	15246.9	15922.3	17737.0	18848.1	19230.6	17257.5	16958.4	19181.6
62.5°	16926.1	17086.6	17395.1	16213.1	16569.6	18031.9	19060.7	19569.3	18491.6	18508.3	19667.3
65°	16013.0	16141.2	16664.4	16742.6	16944.8	17995.5	18535.4	19096.1	19247.3	19932.1	19641.3
67.5°	14910.2	14958.2	15402.2	16784.3	16400.7	16899.0	16957.3	17372.2	18650.0	20436.5	18852.2
70°	13322.8	13348.8	13736.6	15388.6	14094.1	14203.5	14117.0	14201.5	16033.8	19207.7	16860.4
72.5°	10722.2	10787.9	11339.3	12779.7	10267.8	9952.0	10631.5	10594.0	12348.2	16227.7	12522.3
75°	7894.4	8008.1	8840.9	10293.8	7206.5	6518.6	7014.7	7147.1	8778.3	12552.5	7830.9
77.5°	5527.4	5611.8	6418.5	7567.2	5215.7	4661.2	4481.9	4639.3	5794.2	9080.6	3945.1
80°	3184.3	3215.5	3730.4	4369.4	3514.7	4021.2	3642.9	3751.3	3471.9	4040.0	1696.9
82.5°	2083.6	2088.8	2290.0	2600.6	2188.8	2543.2	1882.4	2406.7	2135.7	1622.9	552.4
85°	1125.7	1131.9	1327.9	1845.9	1239.3	700.4	411.7	845.3	1320.6	372.1	151.1
87.5°	124.0	113.6	400.2	671.2	344.0	63.6	21.9	94.9	211.6	24.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6
2.5°	7893.4	7806.9	7591.1	7362.9	7179.4	7007.4	6834.4	6622.8	6459.2	6425.8	6371.6
5°	7724.5	7450.4	6998.1	6543.6	6177.8	5716.0	5423.1	5194.9	4971.8	4958.3	4913.4
7.5°	7134.6	6774.0	6137.1	5508.6	4993.7	4553.8	4109.8	3812.8	3579.3	3496.9	3448.0
10°	6567.6	6162.1	5366.8	4649.7	4190.1	3801.3	3488.6	3178.0	2896.6	2702.7	2615.2
12.5°	6171.5	5723.3	4846.7	4228.6	3899.3	3530.3	3148.8	2761.1	2436.9	2203.4	2060.6
15°	6018.3	5539.9	4672.7	4061.9	3655.4	3188.4	2700.6	2257.6	1898.0	1686.5	1558.3
17.5°	6200.7	5644.1	4659.1	3858.6	3290.6	2710.0	2171.1	1647.9	1309.1	1148.6	1066.3
20°	6663.5	5975.6	4653.9	3609.5	2857.0	2143.0	1470.7	1084.0	878.7	789.0	750.5
22.5°	7318.0	6398.7	4695.6	3363.5	2405.6	1531.2	1015.2	796.3	691.1	643.1	621.2
25°	8160.2	6992.8	4813.4	3140.5	1981.4	1142.4	791.1	667.1	593.1	555.6	539.9
27.5°	9057.7	7676.6	4996.8	2946.6	1636.4	911.0	677.5	571.2	518.0	492.0	477.4
30°	9797.7	8468.8	5182.4	2730.8	1386.3	794.2	620.2	521.2	459.7	443.0	429.4
32.5°	10445.0	9068.1	5313.7	2535.9	1222.6	705.6	560.8	465.9	424.2	391.9	377.3
35°	11115.2	9567.4	5309.5	2399.4	1110.1	638.9	510.7	416.9	366.9	329.4	317.9
37.5°	11840.6	10131.2	5218.8	2282.7	1061.1	585.8	482.6	390.9	340.8	303.3	288.7
40°	12690.1	10723.3	5126.1	2173.2	1047.5	543.0	462.8	370.0	316.9	280.4	265.8
42.5°	13517.7	11256.9	5044.8	2091.9	989.2	542.0	445.1	354.4	298.1	262.7	246.0
45°	14179.6	11754.1	5029.1	2042.9	927.7	560.8	435.7	344.0	283.5	248.1	232.4
47.5°	14729.9	12294.0	5129.2	2008.5	869.3	511.8	458.6	336.7	270.0	235.6	217.8
50°	15384.5	12956.9	5364.8	1952.2	807.8	460.7	525.3	338.8	258.5	223.1	204.3
52.5°	16297.5	13874.2	5710.8	1857.4	723.4	413.8	517.0	340.8	246.0	209.5	190.7
55°	17321.1	15019.7	6082.9	1700.0	605.6	352.3	443.0	326.2	222.0	194.9	177.2
57.5°	18396.7	16058.9	6303.9	1512.4	481.5	304.4	354.4	297.1	196.0	175.1	163.6
60°	18565.6	16453.9	6202.8	1282.0	382.5	264.7	262.7	302.3	175.1	154.3	145.9
62.5°	18145.6	15957.7	5713.9	1076.7	320.0	232.4	215.8	263.7	158.4	137.6	129.2
65°	17337.8	14616.3	4921.8	970.4	297.1	199.1	179.3	185.5	138.6	119.9	112.6
67.5°	16214.2	12825.6	4041.0	909.9	293.9	170.9	153.2	140.7	119.9	104.2	98.0
70°	13916.9	10684.7	3223.9	876.6	285.6	143.8	129.2	114.7	100.1	88.6	83.4
72.5°	10242.8	7571.3	2507.8	840.1	287.7	114.7	112.6	94.9	80.3	68.8	66.7
75°	5918.2	4325.6	1644.8	680.6	274.1	88.6	93.8	66.7	56.3	47.9	47.9
77.5°	3154.0	2638.1	626.4	283.5	100.1	56.3	53.2	39.6	35.4	29.2	28.1
80°	1374.8	1161.1	188.7	79.2	55.2	30.2	19.8	17.7	15.6	12.5	11.5
82.5°	486.8	420.1	61.5	38.6	24.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	110.5	79.2	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6
2.5°	6261.1	6238.2	6102.7	6107.9	6131.9	6166.3	6085.0	6122.5	6223.6	6320.6	6357.0
5°	4841.5	4846.7	4764.4	4815.5	4861.3	4892.6	4761.3	4763.4	4843.6	4953.1	5010.4
7.5°	3411.5	3403.1	3407.3	3529.3	3615.8	3553.2	3602.2	3432.3	3442.7	3520.9	3462.5
10°	2535.9	2421.3	2356.7	2448.4	2543.2	2508.8	2424.4	2369.2	2407.7	2494.2	2488.0
12.5°	1992.9	1828.2	1731.3	1665.6	1743.8	1679.2	1677.1	1629.1	1577.0	1586.4	1725.0
15°	1498.8	1379.0	1264.3	1159.0	1157.0	1135.1	1023.5	898.5	888.0	894.3	966.2
17.5°	1030.8	990.2	943.3	852.6	828.6	736.9	628.5	578.5	553.5	564.9	588.9
20°	724.4	708.8	714.0	665.0	630.6	543.0	479.5	459.7	455.5	467.0	478.4
22.5°	600.4	572.2	569.1	547.2	512.8	449.2	414.8	403.4	398.2	408.6	416.9
25°	525.3	497.2	485.7	472.2	435.7	391.9	371.1	360.6	355.4	361.7	366.9
27.5°	462.8	436.7	426.3	416.9	381.5	350.2	333.5	324.2	320.0	322.1	327.3
30°	415.9	393.0	379.4	367.9	337.7	315.8	301.2	291.8	287.7	287.7	292.9
32.5°	366.9	354.4	341.9	327.3	299.1	284.6	270.0	259.5	255.4	256.4	260.6
35°	305.4	301.2	304.4	290.8	266.8	254.3	239.7	228.3	225.1	226.2	230.4
37.5°	271.0	252.2	263.7	256.4	242.9	226.2	207.4	197.0	191.8	194.9	197.0
40°	249.1	226.2	217.8	225.1	223.1	196.0	179.3	168.9	164.7	165.7	167.8
42.5°	230.4	203.3	184.5	183.4	196.0	170.9	153.2	143.8	138.6	138.6	140.7
45°	212.6	183.4	160.5	142.8	164.7	144.9	128.2	119.9	113.6	113.6	114.7
47.5°	199.1	166.8	139.7	116.7	124.0	118.8	105.3	96.9	90.7	90.7	91.7
50°	186.6	150.1	120.9	98.0	92.8	98.0	85.5	76.1	71.9	70.9	73.0
52.5°	173.0	133.4	103.2	83.4	73.0	74.0	66.7	60.5	55.2	55.2	57.3
55°	159.5	119.9	89.6	70.9	60.5	55.2	53.2	49.0	44.8	44.8	46.9
57.5°	145.9	105.3	76.1	58.4	47.9	43.8	43.8	40.7	37.5	37.5	39.6
60°	133.4	90.7	62.5	47.9	37.5	36.5	37.5	34.4	32.3	32.3	34.4
62.5°	118.8	77.1	51.1	39.6	30.2	29.2	32.3	30.2	28.1	28.1	30.2
65°	101.1	65.7	40.7	30.2	22.9	22.9	27.1	25.0	22.9	22.9	25.0
67.5°	85.5	55.2	31.3	21.9	16.7	17.7	22.9	20.8	19.8	19.8	21.9
70°	70.9	42.7	21.9	13.6	9.4	13.6	17.7	17.7	17.7	17.7	19.8
72.5°	53.2	29.2	12.5	5.2	4.2	9.4	14.6	16.7	15.6	15.6	18.8
75°	34.4	16.7	4.2	0.0	0.0	5.2	11.5	13.6	13.6	12.5	15.6
77.5°	19.8	5.2	0.0	0.0	0.0	0.0	7.3	6.3	5.2	4.2	7.3
80°	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6	7381.6
2.5°	6504.0	6627.0	6800.0	6983.5	7265.9	7490.0	7710.0	7898.6	7971.6	8001.8
5°	5148.0	5328.3	5581.6	5906.8	6416.5	6875.1	7339.9	7807.9	8011.2	8062.3
7.5°	3693.9	3924.3	4246.4	4653.9	5251.2	5845.3	6494.6	7181.5	7496.3	7575.5
10°	2734.0	3015.4	3384.4	3813.8	4384.0	4994.7	5702.5	6487.3	6846.9	6952.2
12.5°	1939.7	2320.2	2814.2	3336.4	3830.5	4375.6	5091.7	5956.8	6334.1	6447.7
15°	1139.2	1507.2	2091.9	2791.3	3424.0	3976.4	4703.9	5684.8	6100.6	6215.3
17.5°	653.5	837.0	1278.9	2058.6	2917.4	3682.5	4582.0	5752.5	6242.4	6348.7
20°	499.3	557.6	736.9	1325.8	2325.4	3393.8	4582.0	6136.1	6739.6	6895.9
22.5°	436.7	479.5	552.4	791.1	1711.5	3084.2	4635.1	6690.6	7479.6	7652.6
25°	387.7	426.3	488.8	595.2	1167.4	2716.3	4761.3	7371.2	8351.0	8575.1
27.5°	347.1	383.6	439.9	521.2	798.4	2272.2	4931.2	8169.6	9312.0	9491.3
30°	310.6	345.0	396.1	453.4	616.0	1768.8	5076.0	8922.2	10066.6	10259.4
32.5°	276.2	307.5	353.3	396.1	504.5	1308.1	5091.7	9518.4	10693.0	10884.8
35°	243.9	272.0	313.7	347.1	418.0	1032.9	4848.8	10035.3	11319.5	11572.8
37.5°	212.6	239.7	276.2	301.2	367.9	842.2	4477.8	10611.7	12123.1	12357.6
40°	183.4	207.4	244.9	261.6	348.1	647.3	4074.4	11216.3	12911.1	13125.8
42.5°	156.3	179.3	215.8	248.1	305.4	483.6	3638.7	11783.3	13619.8	13845.0
45°	130.3	154.3	190.7	262.7	253.3	361.7	3172.8	12159.6	14179.6	14424.5
47.5°	105.3	132.4	182.4	250.2	202.2	265.8	2803.8	12516.0	14603.8	14845.6
50°	84.4	111.5	205.3	223.1	165.7	203.3	2649.5	12835.0	14882.1	15114.5
52.5°	68.8	93.8	193.9	170.9	138.6	167.8	2732.9	13352.0	15139.5	15285.5
55°	57.3	74.0	116.7	118.8	117.8	142.8	2836.1	14094.1	15805.6	15874.4
57.5°	50.0	59.4	81.3	91.7	99.0	127.2	2838.2	15159.3	16836.4	16879.1
60°	42.7	52.1	67.8	74.0	85.5	113.6	2735.0	15531.4	17241.9	17383.6
62.5°	37.5	45.9	56.3	61.5	71.9	102.1	2493.2	14992.6	16685.3	16926.1
65°	33.4	41.7	46.9	52.1	63.6	91.7	2095.0	13914.8	15761.8	16013.0
67.5°	29.2	36.5	41.7	46.9	57.3	81.3	1542.6	12663.0	14701.8	14910.2
70°	26.1	32.3	37.5	41.7	50.0	68.8	936.0	10745.2	13236.3	13322.8
72.5°	25.0	29.2	34.4	37.5	43.8	60.5	474.3	7896.5	10581.5	10722.2
75°	21.9	26.1	31.3	33.4	38.6	52.1	192.8	5186.5	7668.3	7894.4
77.5°	17.7	24.0	28.1	30.2	33.4	42.7	98.0	3314.5	5381.4	5527.4
80°	6.3	17.7	24.0	25.0	28.1	31.3	64.6	1814.7	3121.7	3184.3
82.5°	0.0	11.5	18.8	17.7	19.8	24.0	41.7	863.0	2060.6	2083.6
85°	0.0	5.2	14.6	11.5	8.3	16.7	14.6	188.7	1080.9	1125.7
87.5°	0.0	0.0	1.0	5.2	4.2	6.3	2.1	1.0	98.0	124.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)