

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: P324281

Luminaire Tested: **GAN-SA7B-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324281
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-SA7B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 22029 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

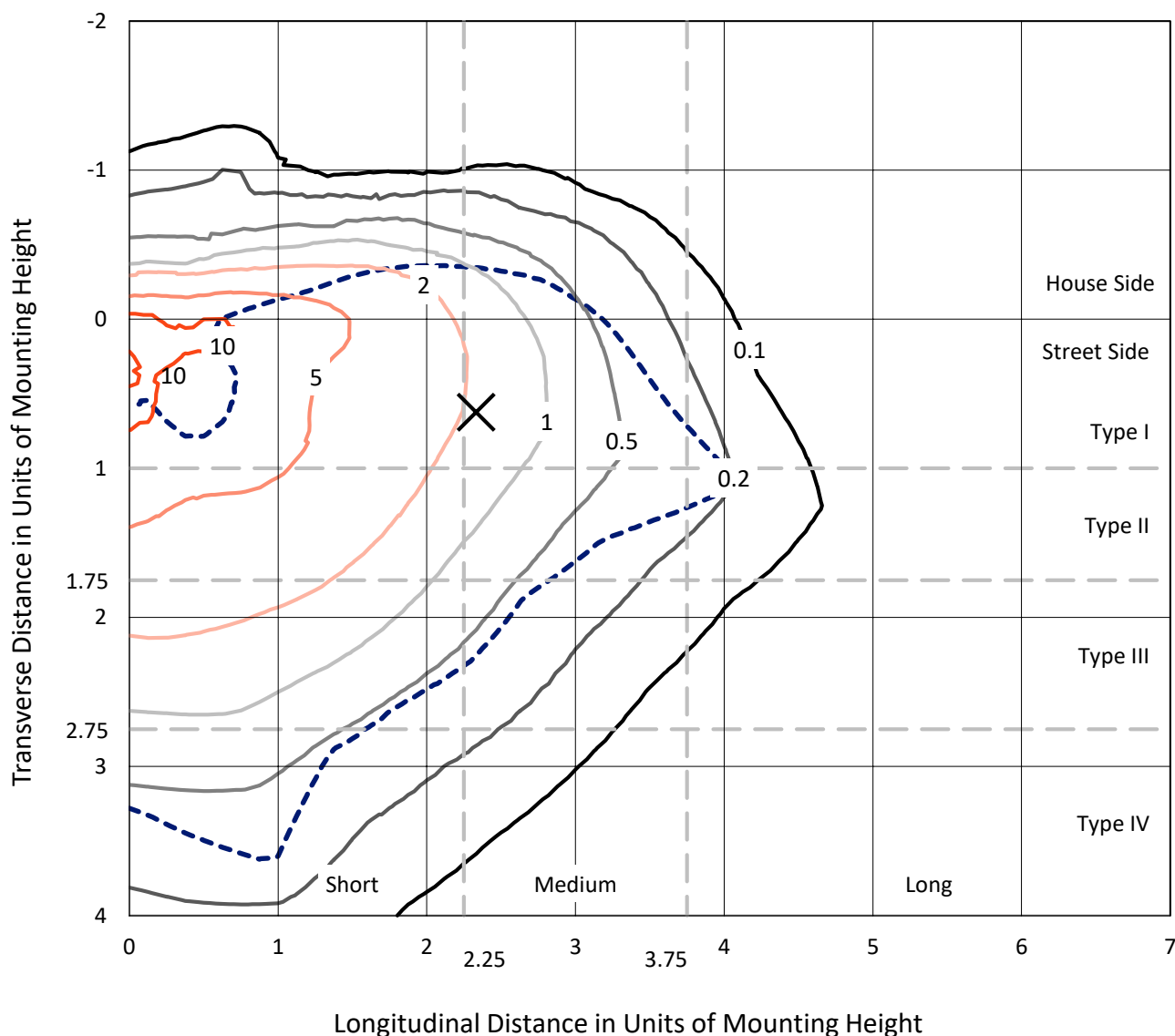
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

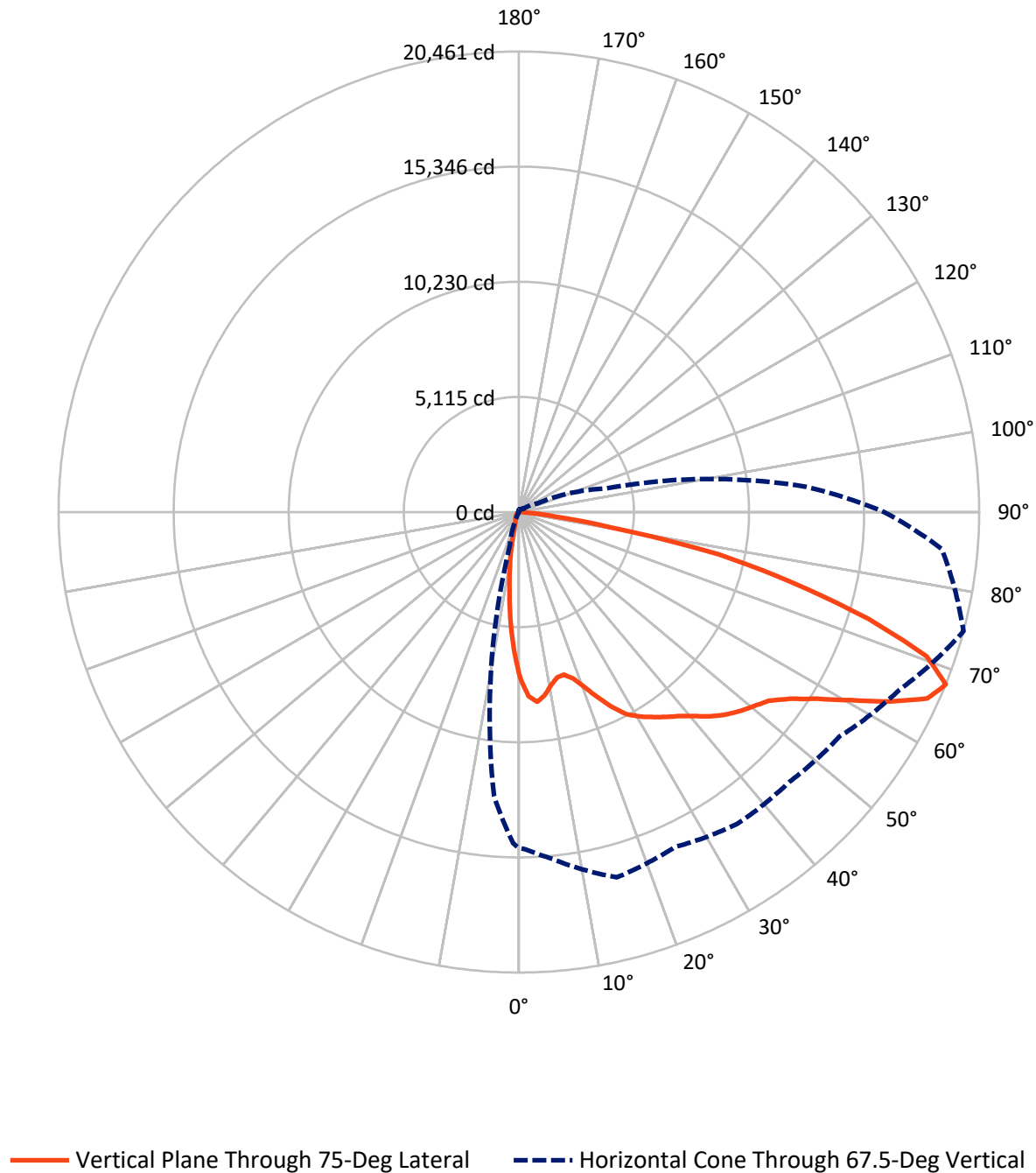
✕ Max cd
 - - - 1/2 Max cd



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	3305.7	0.0	3305.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	18723.3	0.0	18723.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	22029.0	0.0	22029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.6	2.5
10°-20°	1103.8	5.0
20°-30°	1561.6	7.1
30°-40°	2296.0	10.4
40°-50°	3300.1	15.0
50°-60°	4645.6	21.1
60°-70°	5425.7	24.6
70°-80°	2768.0	12.6
80°-90°	367.7	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°	22029.0	100.0
0°-180°	22029.0	100.0

Coefficient of Utilization



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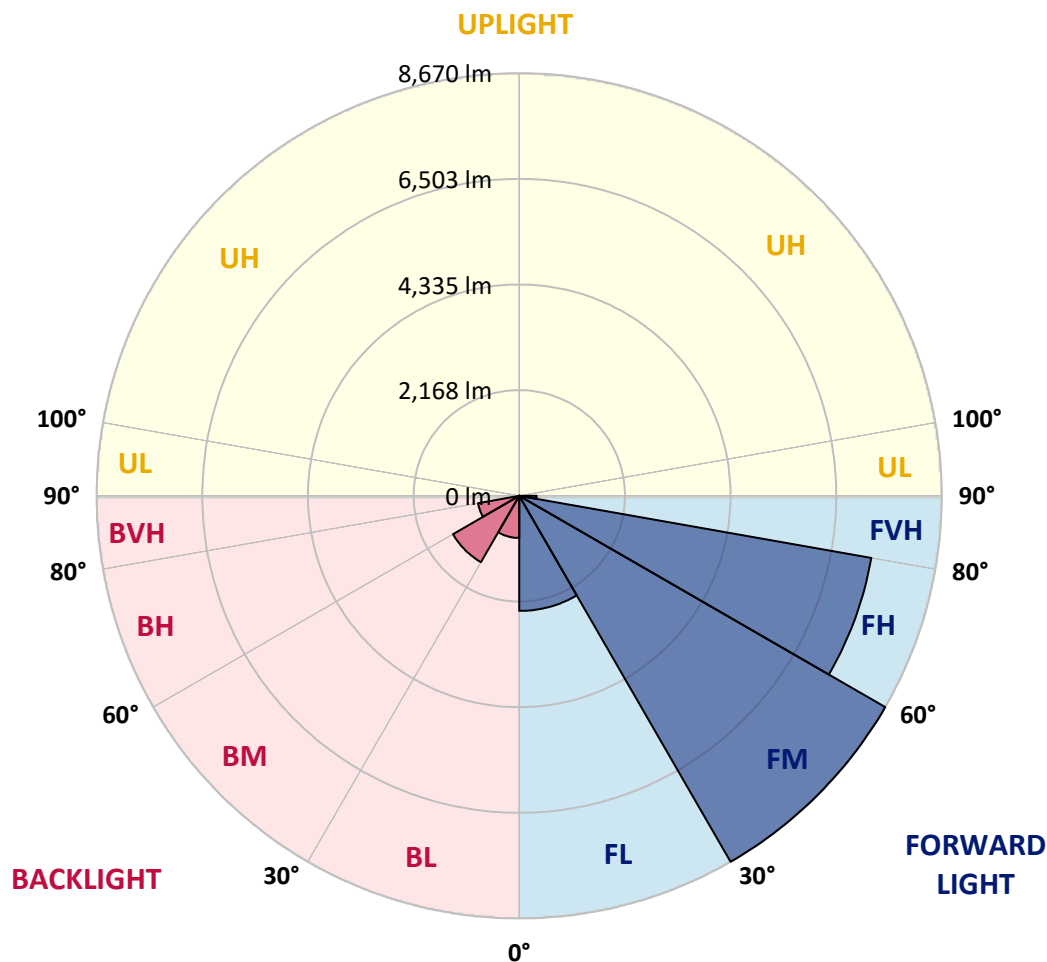
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2361.5	10.7			
FM	(30°-60°)	8670.2	39.4			
FH	(60°-80°)	7335.0	33.3			G3/7500
FVH	(80°-90°)	356.6	1.6			G3/500
BL	(0°-30°)	864.5	3.9	B2/1000		
BM	(30°-60°)	1571.4	7.1	B2/2500		
BH	(60°-80°)	858.6	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°	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4
2.5°	8011.3	8023.8	8088.5	8238.8	8402.6	8415.1	8525.7	8412.0	8373.4	8189.7	7999.8
5°	8071.8	8119.8	8342.1	8783.5	9166.5	9289.6	9377.3	9153.9	8919.1	8470.4	7991.4
7.5°	7584.5	7664.8	8014.4	8843.0	9527.5	9830.2	9887.5	9538.0	8963.0	8224.1	7504.1
10°	6960.4	7052.2	7473.8	8492.3	9432.6	9951.2	10030.5	9572.4	8745.9	7825.5	6977.1
12.5°	6455.3	6562.8	6993.8	8097.9	9105.9	9679.9	9836.4	9456.6	8558.1	7542.7	6617.1
15°	6222.6	6345.8	6798.7	7843.2	8743.8	9195.7	9325.1	9161.2	8453.7	7497.8	6533.6
17.5°	6356.2	6489.8	6957.3	7865.2	8403.6	8596.7	8701.0	8767.8	8453.7	7768.1	6777.8
20°	6904.1	7048.1	7542.7	8087.4	8121.9	8049.9	8161.5	8396.3	8551.8	8281.5	7364.3
22.5°	7661.7	7830.7	8389.0	8468.3	7984.1	7711.8	7726.4	8094.7	8730.3	8932.7	8178.2
25°	8585.2	8791.8	9359.5	9036.0	8041.5	7510.4	7505.1	7846.4	8904.5	9584.9	9085.1
27.5°	9502.5	9730.0	10228.8	9728.9	8278.4	7473.8	7463.4	7771.2	9074.6	10165.1	10075.4
30°	10271.6	10492.8	10922.7	10230.9	8534.1	7559.4	7509.3	7851.6	9175.9	10541.8	10797.5
32.5°	10897.7	11075.1	11422.6	10576.3	8807.5	7725.3	7616.8	8066.6	9348.0	10860.1	11461.2
35°	11586.4	11773.2	11912.0	10905.0	9114.3	7964.3	7808.8	8407.8	9613.1	11183.6	12188.6
37.5°	12372.2	12558.0	12541.3	11205.5	9503.5	8359.8	8260.7	8948.4	10025.3	11504.0	13000.4
40°	13141.3	13331.2	13195.6	11534.3	9960.6	9012.0	8939.0	9760.2	10577.3	11914.1	13952.1
42.5°	13861.3	14066.9	13776.8	11845.2	10505.3	9834.3	9959.5	10805.9	11268.1	12419.2	14772.4
45°	14441.6	14651.3	14264.2	12147.9	11079.3	10831.9	11208.7	11964.2	12098.8	12846.0	15326.5
47.5°	14863.1	15061.4	14602.3	12450.5	11813.9	12051.8	12708.2	13178.9	12849.1	13216.4	15719.9
50°	15132.4	15286.8	14701.4	12829.3	12778.2	13475.2	14270.4	14500.0	13555.6	13550.4	16197.8
52.5°	15303.5	15373.4	14774.4	13224.8	13784.1	15024.9	15800.2	15872.2	14282.9	13917.7	16841.7
55°	15893.1	15949.5	15292.0	13703.8	14615.8	16382.5	17184.0	17117.2	15106.3	14636.7	17601.4
57.5°	16899.1	16958.6	16361.7	14392.5	15288.9	17221.5	18186.8	18306.8	16071.6	15646.8	18415.4
60°	17404.2	17514.8	17301.9	15264.9	15941.1	17757.9	18870.3	19253.3	17277.9	16978.4	19204.3
62.5°	16946.1	17106.8	17415.6	16232.3	16589.2	18053.2	19083.2	19592.5	18513.4	18530.1	19690.6
65°	16031.9	16160.3	16684.1	16762.4	16964.8	18016.7	18557.3	19118.7	19270.0	19955.6	19664.5
67.5°	14927.8	14975.8	15420.4	16804.1	16420.1	16918.9	16977.4	17392.7	18672.1	20460.7	18874.5
70°	13338.5	13364.6	13752.8	15406.8	14110.8	14220.3	14133.7	14218.2	16052.8	19230.4	16880.3
72.5°	10734.9	10800.6	11352.7	12794.8	10279.9	9963.7	10644.1	10606.5	12362.8	16246.9	12537.1
75°	7903.8	8017.5	8851.3	10306.0	7215.0	6526.3	7023.0	7155.6	8788.7	12567.4	7840.1
77.5°	5533.9	5618.4	6426.1	7576.1	5221.9	4666.7	4487.2	4644.8	5801.0	9091.3	3949.8
80°	3188.0	3219.3	3734.8	4374.5	3518.8	4026.0	3647.2	3755.7	3476.0	4044.8	1698.9
82.5°	2086.0	2091.3	2292.7	2603.6	2191.4	2546.2	1884.6	2409.5	2138.2	1624.8	553.1
85°	1127.0	1133.3	1329.5	1848.1	1240.8	701.3	412.2	846.3	1322.2	372.5	151.3
87.5°	124.2	113.7	400.7	672.0	344.4	63.7	21.9	95.0	211.8	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°	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4
2.5°	7902.7	7816.1	7600.1	7371.6	7187.9	7015.7	6842.5	6630.7	6466.8	6433.4	6379.2
5°	7733.7	7459.2	7006.3	6551.3	6185.1	5722.8	5429.5	5201.0	4977.7	4964.1	4919.2
7.5°	7143.0	6782.0	6144.4	5515.1	4999.6	4559.2	4114.7	3817.3	3583.5	3501.1	3452.0
10°	6575.3	6169.4	5373.2	4655.2	4195.0	3805.8	3492.7	3181.8	2900.0	2705.9	2618.2
12.5°	6178.8	5730.1	4852.5	4233.6	3903.9	3534.5	3152.5	2764.3	2439.8	2206.0	2063.1
15°	6025.4	5546.4	4678.2	4066.7	3659.7	3192.2	2703.8	2260.3	1900.3	1688.4	1560.1
17.5°	6208.0	5650.8	4664.6	3863.2	3294.5	2713.2	2173.7	1649.8	1310.7	1150.0	1067.5
20°	6671.4	5982.6	4659.4	3613.8	2860.3	2145.5	1472.4	1085.3	879.7	790.0	751.3
22.5°	7326.7	6406.3	4701.1	3367.5	2408.5	1533.0	1016.4	797.3	691.9	643.9	622.0
25°	8169.9	7001.1	4819.1	3144.2	1983.8	1143.7	792.0	667.9	593.8	556.2	540.6
27.5°	9068.4	7685.7	5002.7	2950.1	1638.4	912.1	678.3	571.9	518.6	492.6	477.9
30°	9809.3	8478.8	5188.5	2734.1	1387.9	795.2	620.9	521.8	460.2	443.5	429.9
32.5°	10457.3	9078.8	5320.0	2538.9	1224.1	706.5	561.4	466.5	424.7	392.4	377.8
35°	11128.3	9578.7	5315.8	2402.2	1111.4	639.7	511.3	417.4	367.3	329.8	318.3
37.5°	11854.6	10143.2	5225.0	2285.4	1062.3	586.5	483.2	391.3	341.2	303.7	289.1
40°	12705.1	10735.9	5132.1	2175.8	1048.8	543.7	463.3	370.5	317.2	280.7	266.1
42.5°	13533.7	11270.2	5050.7	2094.4	990.3	542.6	445.6	354.8	298.5	263.0	246.3
45°	14196.3	11768.0	5035.1	2045.3	928.8	561.4	436.2	344.4	283.8	248.4	232.7
47.5°	14747.3	12308.6	5135.3	2010.9	870.3	512.4	459.2	337.1	270.3	235.8	218.1
50°	15402.7	12972.3	5371.1	1954.6	808.7	461.2	525.9	339.2	258.8	223.3	204.5
52.5°	16316.8	13890.6	5717.6	1859.6	724.2	414.3	517.6	341.2	246.3	209.8	191.0
55°	17341.6	15037.4	6090.1	1702.0	606.3	352.7	443.5	326.6	222.3	195.1	177.4
57.5°	18418.5	16077.8	6311.3	1514.2	482.1	304.7	354.8	297.4	196.2	175.3	163.8
60°	18587.5	16473.3	6210.1	1283.6	383.0	265.1	263.0	302.6	175.3	154.4	146.1
62.5°	18167.0	15976.6	5720.7	1078.0	320.4	232.7	216.0	264.0	158.6	137.7	129.4
65°	17358.3	14633.6	4927.6	971.5	297.4	199.3	179.5	185.8	138.8	120.0	112.7
67.5°	16233.3	12840.8	4045.8	911.0	294.3	171.1	153.4	140.9	120.0	104.4	98.1
70°	13933.4	10697.3	3227.7	877.6	285.9	144.0	129.4	114.8	100.2	88.7	83.5
72.5°	10254.9	7580.3	2510.8	841.1	288.0	114.8	112.7	95.0	80.4	68.9	66.8
75°	5925.2	4330.7	1646.7	681.4	274.5	88.7	93.9	66.8	56.4	48.0	48.0
77.5°	3157.8	2641.2	627.2	283.8	100.2	56.4	53.2	39.7	35.5	29.2	28.2
80°	1376.4	1162.5	188.9	79.3	55.3	30.3	19.8	17.7	15.7	12.5	11.5
82.5°	487.3	420.5	61.6	38.6	24.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	110.6	79.3	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°	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4
2.5°	6268.5	6245.6	6109.9	6115.1	6139.1	6173.6	6092.2	6129.8	6231.0	6328.0	6364.6
5°	4847.2	4852.5	4770.0	4821.2	4867.1	4898.4	4766.9	4769.0	4849.3	4958.9	5016.3
7.5°	3415.5	3407.2	3411.3	3533.4	3620.0	3557.4	3606.5	3436.4	3446.8	3525.1	3466.6
10°	2538.9	2424.1	2359.4	2451.3	2546.2	2511.8	2427.3	2372.0	2410.6	2497.2	2490.9
12.5°	1995.2	1830.4	1733.3	1667.6	1745.8	1681.1	1679.1	1631.1	1578.9	1588.3	1727.1
15°	1500.6	1380.6	1265.8	1160.4	1158.3	1136.4	1024.8	899.5	889.1	895.4	967.4
17.5°	1032.1	991.4	944.4	853.6	829.6	737.8	629.3	579.2	554.1	565.6	589.6
20°	725.3	709.6	714.8	665.8	631.3	543.7	480.0	460.2	456.0	467.5	479.0
22.5°	601.1	572.9	569.8	547.9	513.4	449.8	415.3	403.9	398.6	409.1	417.4
25°	525.9	497.8	486.3	472.7	436.2	392.4	371.5	361.1	355.8	362.1	367.3
27.5°	463.3	437.2	426.8	417.4	381.9	350.6	333.9	324.5	320.4	322.5	327.7
30°	416.4	393.4	379.8	368.4	338.1	316.2	301.6	292.2	288.0	288.0	293.2
32.5°	367.3	354.8	342.3	327.7	299.5	284.9	270.3	259.8	255.7	256.7	260.9
35°	305.8	301.6	304.7	291.1	267.1	254.6	240.0	228.5	225.4	226.4	230.6
37.5°	271.3	252.5	264.0	256.7	243.1	226.4	207.7	197.2	192.0	195.1	197.2
40°	249.4	226.4	218.1	225.4	223.3	196.2	179.5	169.1	164.9	165.9	168.0
42.5°	230.6	203.5	184.7	183.7	196.2	171.1	153.4	144.0	138.8	138.8	140.9
45°	212.9	183.7	160.7	143.0	164.9	145.1	128.4	120.0	113.7	113.7	114.8
47.5°	199.3	167.0	139.8	116.9	124.2	119.0	105.4	97.0	90.8	90.8	91.8
50°	186.8	150.3	121.1	98.1	92.9	98.1	85.6	76.2	72.0	71.0	73.0
52.5°	173.2	133.6	103.3	83.5	73.0	74.1	66.8	60.5	55.3	55.3	57.4
55°	159.7	120.0	89.7	71.0	60.5	55.3	53.2	49.0	44.9	44.9	47.0
57.5°	146.1	105.4	76.2	58.4	48.0	43.8	43.8	40.7	37.6	37.6	39.7
60°	133.6	90.8	62.6	48.0	37.6	36.5	37.6	34.4	32.3	32.3	34.4
62.5°	119.0	77.2	51.1	39.7	30.3	29.2	32.3	30.3	28.2	28.2	30.3
65°	101.2	65.7	40.7	30.3	23.0	23.0	27.1	25.0	23.0	23.0	25.0
67.5°	85.6	55.3	31.3	21.9	16.7	17.7	23.0	20.9	19.8	19.8	21.9
70°	71.0	42.8	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	15.7	15.7	18.8
75°	34.4	16.7	4.2	0.0	0.0	5.2	11.5	13.6	13.6	12.5	15.7
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°	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4	7390.4
2.5°	6511.7	6634.8	6808.1	6991.7	7274.5	7498.9	7719.1	7907.9	7981.0	8011.3
5°	5154.0	5334.6	5588.2	5913.7	6424.0	6883.2	7348.6	7817.2	8020.7	8071.8
7.5°	3698.3	3928.9	4251.4	4659.4	5257.4	5852.2	6502.3	7190.0	7505.1	7584.5
10°	2737.2	3019.0	3388.4	3818.3	4389.1	5000.6	5709.2	6495.0	6855.0	6960.4
12.5°	1942.0	2322.9	2817.6	3340.4	3835.0	4380.8	5097.7	5963.8	6341.6	6455.3
15°	1140.6	1509.0	2094.4	2794.6	3428.0	3981.1	4709.5	5691.5	6107.8	6222.6
17.5°	654.3	838.0	1280.4	2061.0	2920.9	3686.8	4587.4	5759.3	6249.8	6356.2
20°	499.9	558.3	737.8	1327.4	2328.1	3397.8	4587.4	6143.3	6747.5	6904.1
22.5°	437.2	480.0	553.1	792.0	1713.5	3087.8	4640.6	6698.5	7488.4	7661.7
25°	388.2	426.8	489.4	595.9	1168.8	2719.5	4766.9	7379.9	8360.8	8585.2
27.5°	347.5	384.0	440.4	521.8	799.4	2274.9	4937.0	8179.3	9323.0	9502.5
30°	311.0	345.4	396.5	453.9	616.7	1770.9	5082.0	8932.7	10078.5	10271.6
32.5°	276.5	307.8	353.8	396.5	505.1	1309.6	5097.7	9529.6	10705.7	10897.7
35°	244.2	272.4	314.1	347.5	418.5	1034.1	4854.5	10047.2	11332.8	11586.4
37.5°	212.9	240.0	276.5	301.6	368.4	843.2	4483.0	10624.3	12137.4	12372.2
40°	183.7	207.7	245.2	261.9	348.5	648.0	4079.2	11229.5	12926.3	13141.3
42.5°	156.5	179.5	216.0	248.4	305.8	484.2	3643.0	11797.2	13635.9	13861.3
45°	130.4	154.4	191.0	263.0	253.6	362.1	3176.5	12173.9	14196.3	14441.6
47.5°	105.4	132.5	182.6	250.4	202.4	266.1	2807.1	12530.8	14621.0	14863.1
50°	84.5	111.7	205.6	223.3	165.9	203.5	2652.7	12850.2	14899.7	15132.4
52.5°	68.9	93.9	194.1	171.1	138.8	168.0	2736.2	13367.8	15157.4	15303.5
55°	57.4	74.1	116.9	119.0	117.9	143.0	2839.5	14110.8	15824.2	15893.1
57.5°	50.1	59.5	81.4	91.8	99.1	127.3	2841.6	15177.3	16856.3	16899.1
60°	42.8	52.2	67.8	74.1	85.6	113.7	2738.2	15549.8	17262.2	17404.2
62.5°	37.6	45.9	56.4	61.6	72.0	102.3	2496.1	15010.3	16705.0	16946.1
65°	33.4	41.7	47.0	52.2	63.7	91.8	2097.5	13931.3	15780.4	16031.9
67.5°	29.2	36.5	41.7	47.0	57.4	81.4	1544.4	12678.0	14719.1	14927.8
70°	26.1	32.3	37.6	41.7	50.1	68.9	937.1	10757.9	13251.9	13338.5
72.5°	25.0	29.2	34.4	37.6	43.8	60.5	474.8	7905.9	10594.0	10734.9
75°	21.9	26.1	31.3	33.4	38.6	52.2	193.1	5192.7	7677.3	7903.8
77.5°	17.7	24.0	28.2	30.3	33.4	42.8	98.1	3318.5	5387.8	5533.9
80°	6.3	17.7	24.0	25.0	28.2	31.3	64.7	1816.8	3125.4	3188.0
82.5°	0.0	11.5	18.8	17.7	19.8	24.0	41.7	864.1	2063.1	2086.0
85°	0.0	5.2	14.6	11.5	8.3	16.7	14.6	188.9	1082.2	1127.0
87.5°	0.0	0.0	1.0	5.2	4.2	6.3	2.1	1.0	98.1	124.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)