

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: P649317

Luminaire Tested: **GLAN-SA3D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15586.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

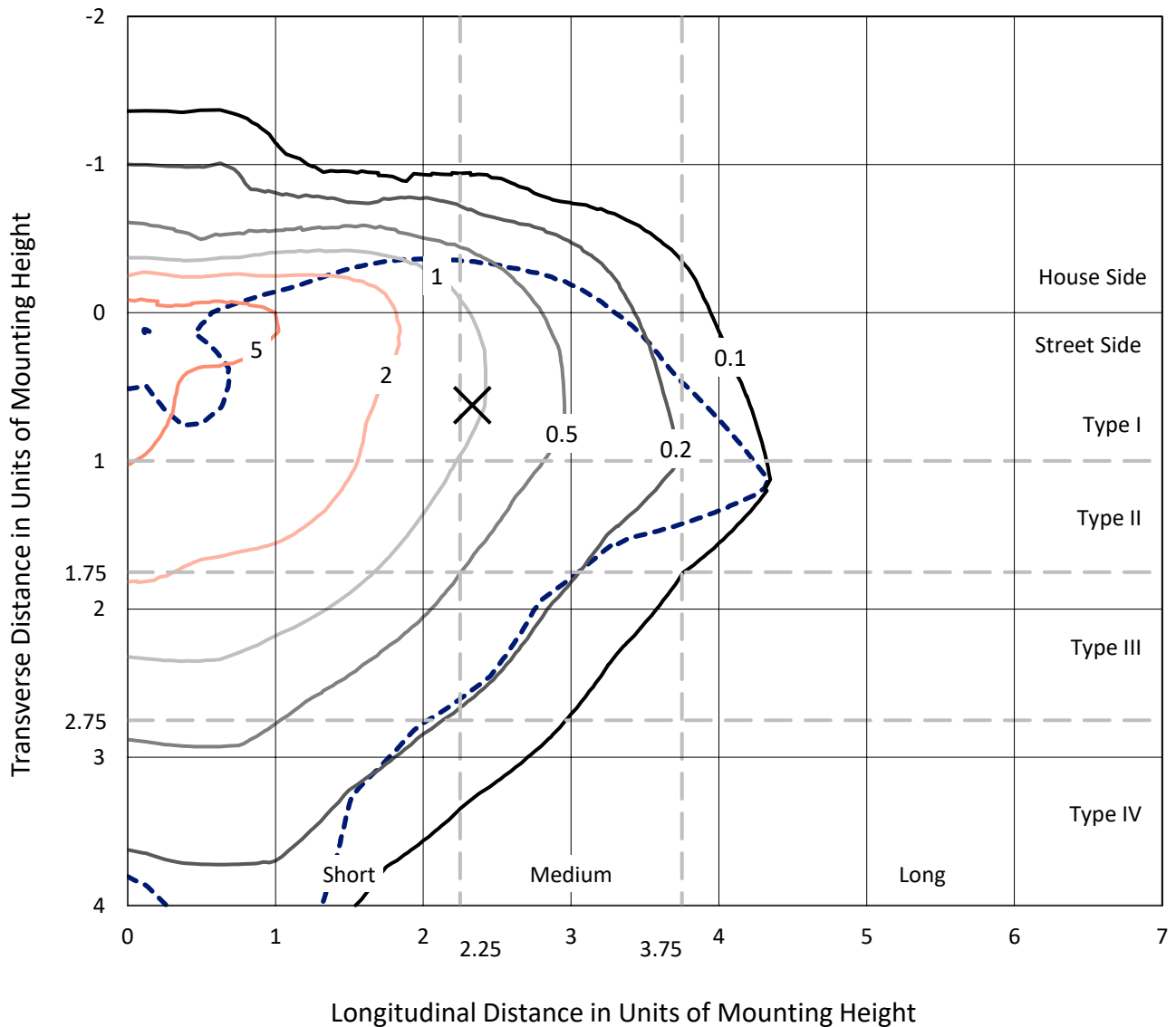
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

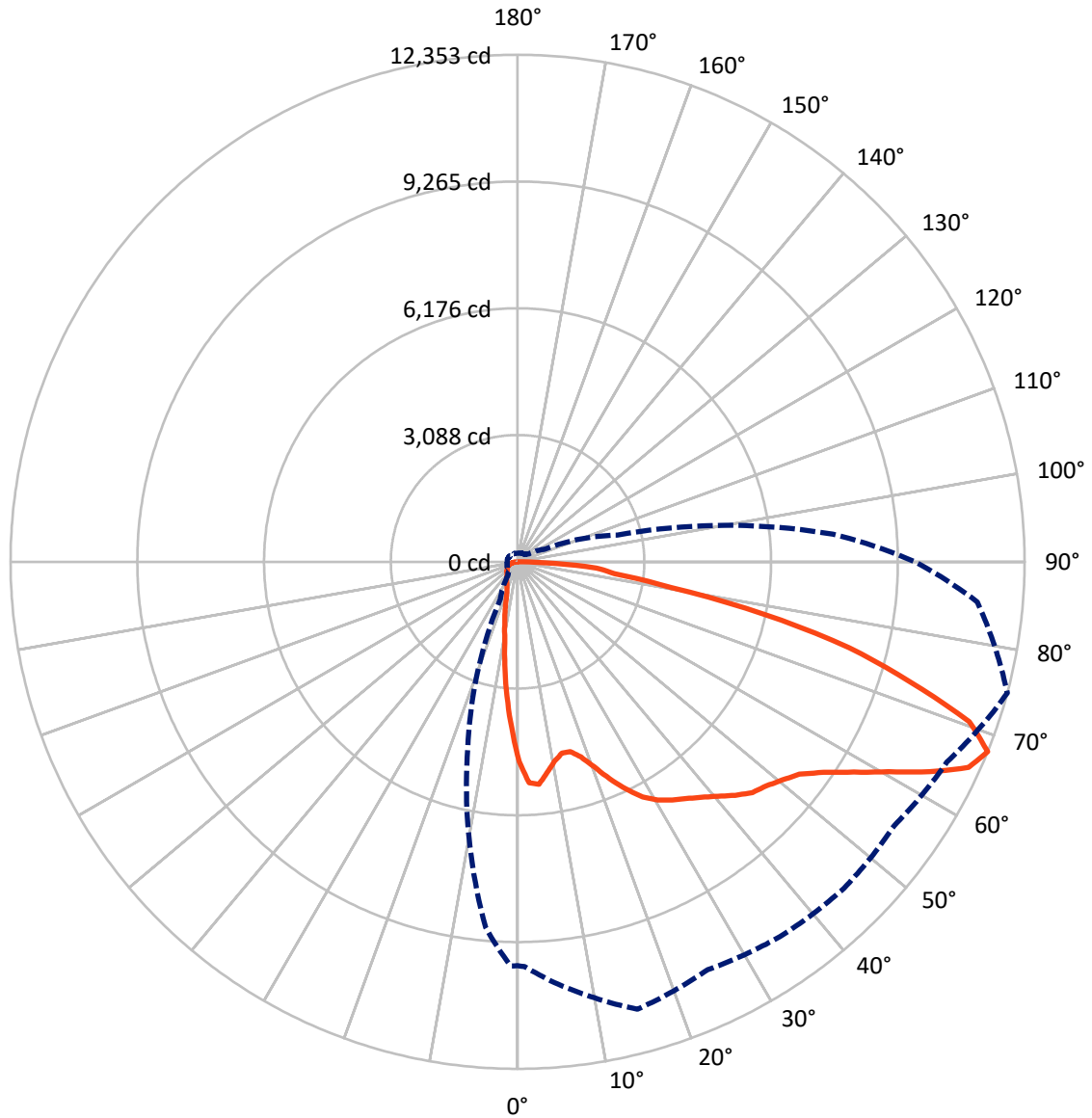
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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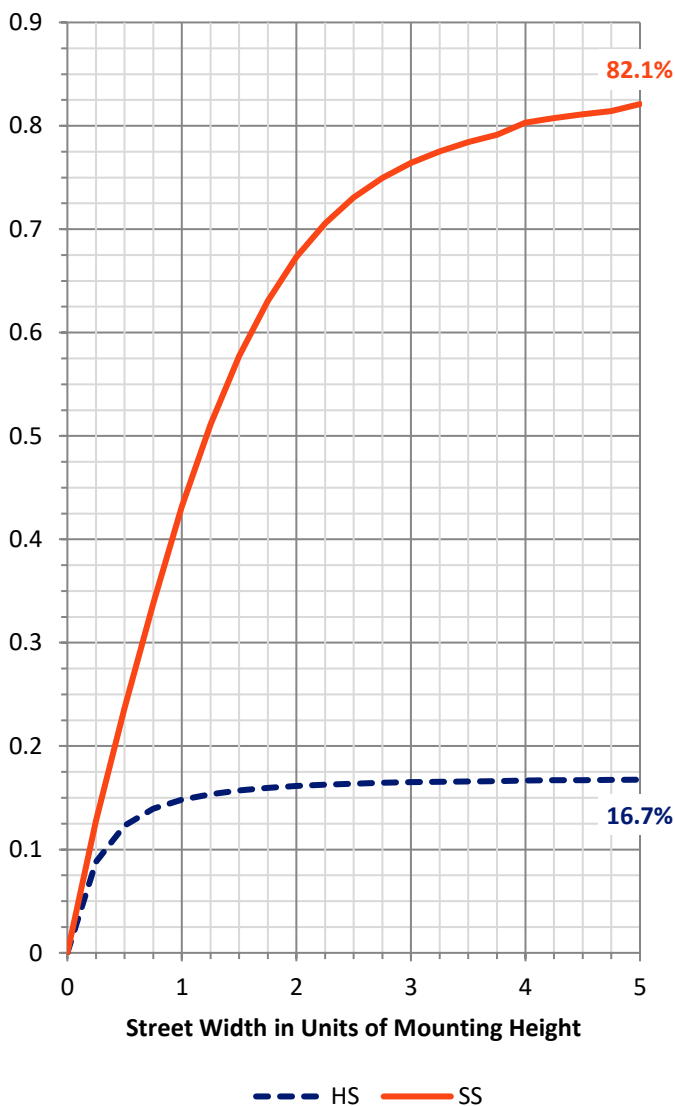
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.4	0.0	2634.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	12952.0	0.0	12952.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	15586.4	0.0	15586.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	2.4
10°-20°	770.3	4.9
20°-30°	1108.4	7.1
30°-40°	1596.5	10.2
40°-50°	2242.6	14.4
50°-60°	3127.6	20.1
60°-70°	3718.6	23.9
70°-80°	2190.0	14.1
80°-90°	463.1	3.0
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°	15586.4	100.0
0°-180°	15586.4	100.0

Coefficient of Utilization

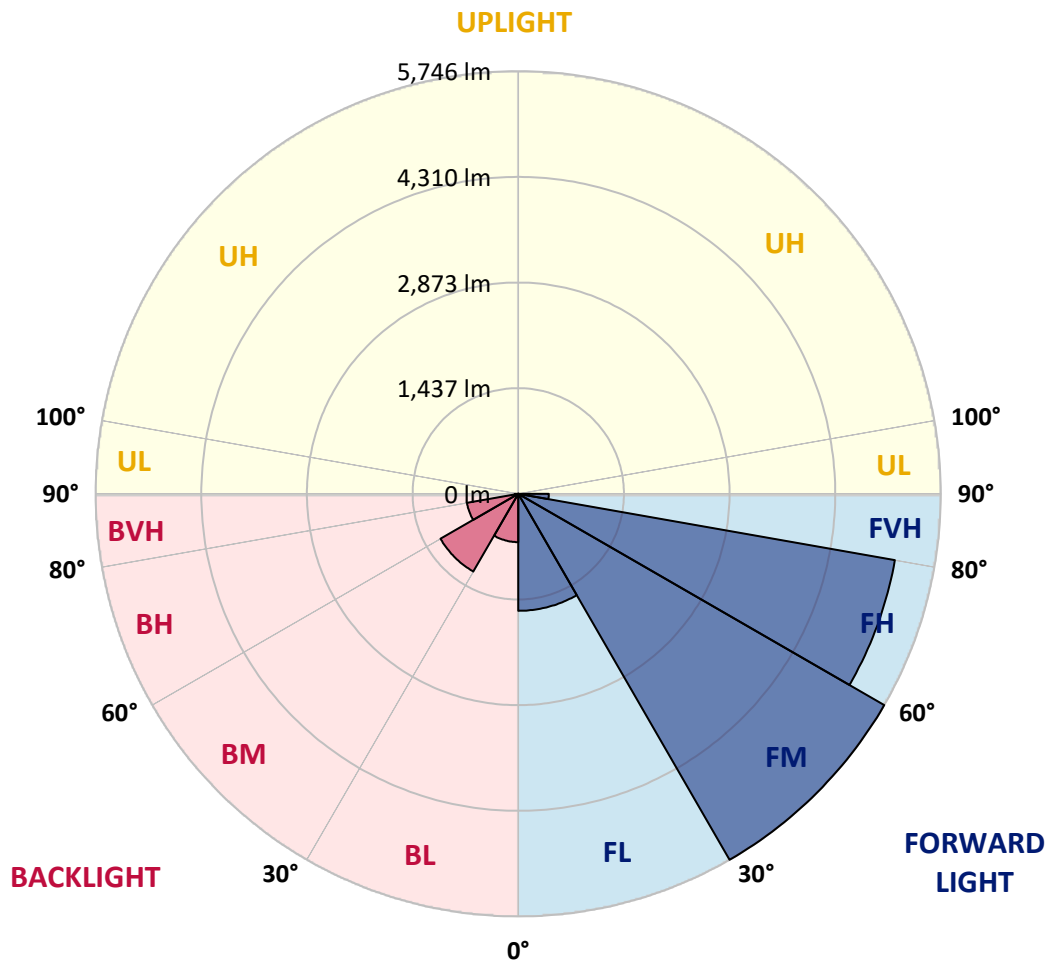


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1590.9	10.2			
FM (30°-60°)	5746.1	36.9			
FH (60°-80°)	5199.7	33.4			G3/7500
FVH (80°-90°)	415.2	2.7			G3/500
BL (0°-30°)	657.1	4.2	B2/1000		
BM (30°-60°)	1220.5	7.8	B2/2500		
BH (60°-80°)	708.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	47.9	0.3			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°	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6
2.5°	5250.4	5257.4	5302.3	5433.3	5523.2	5556.2	5579.2	5536.2	5494.2	5392.3	5238.3
5°	5234.4	5275.4	5392.3	5686.1	5918.1	6018.0	6048.0	5919.0	5706.1	5444.3	5129.4
7.5°	4928.5	4983.5	5163.4	5656.2	6065.0	6298.8	6267.8	6035.0	5651.1	5184.4	4744.6
10°	4565.7	4626.7	4843.6	5439.3	5966.0	6287.9	6287.9	6004.0	5494.2	4939.6	4432.8
12.5°	4277.8	4341.8	4589.7	5216.4	5760.1	6065.0	6115.9	5872.0	5381.3	4784.6	4227.9
15°	4182.9	4244.9	4511.7	5081.4	5542.2	5728.1	5745.1	5665.2	5326.4	4795.6	4218.9
17.5°	4300.9	4380.8	4650.7	5121.4	5342.3	5353.3	5366.3	5429.2	5332.3	4996.5	4400.8
20°	4641.7	4727.6	5009.5	5250.4	5167.4	5053.5	5060.5	5222.4	5403.3	5328.3	4835.6
22.5°	5133.4	5208.4	5497.2	5477.2	5093.4	4858.6	4809.6	5035.5	5508.2	5742.1	5298.3
25°	5664.1	5752.2	6084.0	5814.1	5114.4	4742.6	4711.6	4925.5	5617.2	6128.9	5833.1
27.5°	6271.8	6357.8	6619.7	6153.9	5224.4	4733.6	4696.7	4915.5	5715.1	6486.8	6343.8
30°	6723.6	6802.6	6980.5	6439.8	5359.3	4793.6	4747.6	4994.5	5799.1	6731.6	6841.5
32.5°	7078.5	7160.4	7257.4	6617.7	5537.2	4902.5	4817.6	5138.4	5909.1	6918.5	7210.4
35°	7448.3	7545.2	7538.3	6775.6	5703.1	5028.5	4945.5	5346.3	6082.0	7081.5	7678.2
37.5°	7917.1	7956.0	7906.0	6917.6	5902.0	5255.3	5209.4	5655.1	6327.8	7278.4	8224.9
40°	8392.8	8470.7	8213.9	7089.4	6143.9	5682.2	5677.1	6111.9	6619.7	7509.2	8754.6
42.5°	8800.6	8866.5	8501.7	7239.4	6436.8	6202.9	6240.9	6724.6	7002.5	7777.1	9180.4
45°	9107.5	9166.4	8767.6	7384.3	6822.6	6804.6	7028.4	7381.3	7485.2	8018.0	9430.3
47.5°	9368.3	9425.3	8952.5	7604.2	7299.4	7523.2	7913.0	8066.0	7898.0	8155.9	9710.1
50°	9588.2	9605.2	9079.4	7866.1	7891.1	8403.8	8781.6	8880.6	8305.8	8353.8	9953.0
52.5°	9817.1	9795.1	9298.4	8195.9	8530.7	9239.4	9514.2	9617.2	8696.6	8597.7	10306.9
55°	10329.8	10350.8	9789.1	8611.7	9177.4	10060.0	10421.8	10322.8	9129.4	9046.5	10756.6
57.5°	10949.6	10931.5	10479.8	9262.3	9836.0	10823.6	11093.5	10934.5	9707.2	9663.2	11212.4
60°	11190.4	11214.4	11057.4	9962.0	10485.8	11492.2	11768.1	11521.2	10399.8	10379.8	11556.2
62.5°	10948.5	11083.4	11189.4	10584.7	11039.4	11984.0	12257.9	11976.0	11122.4	11267.4	11797.1
65°	10466.8	10495.7	10856.5	11112.4	11306.4	12064.9	12207.9	12058.0	11726.1	12076.0	11786.1
67.5°	9841.1	9866.0	10288.9	11285.4	10962.5	11145.4	11245.4	11201.4	11539.2	12352.8	11243.3
70°	9245.4	9225.4	9672.2	10844.6	9543.2	9265.4	9348.3	9210.4	9957.0	11676.2	10178.9
72.5°	8086.0	8157.9	8637.7	9619.2	7556.2	7104.5	7285.3	6928.5	7658.1	10000.0	8261.8
75°	6333.8	6350.8	7151.5	8073.0	5700.2	4987.5	5232.4	5083.5	5866.1	8341.8	5705.2
77.5°	4385.8	4347.8	5208.4	6165.9	4064.9	3651.2	3655.2	3584.2	4096.0	6141.9	3876.1
80°	2785.6	2727.7	3260.3	3809.1	2793.6	2988.5	2890.5	2887.5	2666.7	3789.1	2343.8
82.5°	1505.2	1569.2	2060.0	2387.8	2004.0	2309.8	2116.9	2055.0	1830.1	2371.8	1499.2
85°	685.7	745.7	1098.5	1624.2	1522.2	1539.2	1028.5	1213.4	1514.2	1926.0	800.6
87.5°	66.9	86.0	226.9	766.6	519.8	409.8	152.9	294.9	380.8	684.7	64.0
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°	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6
2.5°	5175.4	5123.4	4946.5	4800.6	4645.7	4527.7	4373.8	4270.9	4199.9	4093.0	4080.0
5°	4937.5	4810.6	4502.7	4188.9	3918.1	3714.2	3507.2	3317.3	3205.4	3170.4	3125.4
7.5°	4536.7	4322.9	3927.1	3567.2	3256.3	2952.5	2718.7	2552.7	2441.8	2376.8	2298.8
10°	4206.9	3959.0	3477.2	3036.5	2780.6	2591.7	2385.8	2207.9	2071.0	1954.1	1890.1
12.5°	3985.0	3705.2	3163.4	2805.6	2607.7	2406.8	2165.9	1966.0	1764.1	1631.1	1574.2
15°	3918.1	3622.2	3066.5	2690.6	2406.8	2143.9	1874.0	1613.2	1413.3	1287.3	1245.4
17.5°	4081.9	3724.1	3065.4	2537.7	2170.9	1857.0	1511.3	1266.3	1061.4	967.6	937.6
20°	4387.8	3920.0	3074.4	2386.8	1915.1	1473.3	1099.4	898.6	800.6	760.6	745.7
22.5°	4814.6	4218.9	3101.5	2237.9	1635.2	1131.4	823.6	721.6	686.7	679.6	676.7
25°	5340.3	4588.7	3192.4	2103.9	1399.3	863.6	688.6	642.7	622.7	615.7	614.7
27.5°	5824.1	5066.5	3302.4	1989.0	1171.4	744.6	622.7	583.7	563.7	562.7	564.7
30°	6260.9	5466.3	3394.3	1860.1	998.5	661.6	579.7	540.7	521.7	520.8	526.7
32.5°	6638.7	5795.1	3462.3	1733.2	902.6	610.7	540.7	498.8	482.7	479.7	482.7
35°	7042.5	6122.9	3431.3	1634.2	847.6	568.7	511.8	470.7	451.8	442.8	442.8
37.5°	7503.3	6460.8	3378.3	1552.2	822.6	533.8	486.8	446.8	427.8	418.8	417.8
40°	8006.0	6798.6	3305.4	1479.2	797.6	512.7	469.8	427.8	404.8	395.8	393.8
42.5°	8449.7	7087.5	3245.4	1431.2	756.6	516.8	454.8	413.8	384.8	372.8	371.8
45°	8835.6	7378.3	3234.4	1403.3	722.6	510.8	450.8	402.8	368.8	355.8	353.8
47.5°	9137.5	7681.2	3297.4	1387.3	685.7	478.7	476.8	395.8	354.9	340.8	338.8
50°	9505.2	8110.9	3441.3	1354.4	651.7	448.7	503.8	394.8	343.8	325.8	320.9
52.5°	9995.0	8670.6	3636.2	1295.3	602.7	420.8	480.8	394.8	330.8	312.8	306.9
55°	10735.6	9384.3	3827.1	1212.4	533.8	383.8	433.8	382.8	311.9	295.8	291.8
57.5°	11226.3	9906.0	3949.0	1097.5	447.8	356.8	373.8	363.8	292.8	275.9	275.9
60°	11251.4	10046.0	3891.0	952.5	393.8	331.8	324.9	366.8	275.9	257.8	255.9
62.5°	10963.5	9703.2	3589.2	822.6	364.8	304.8	293.9	321.8	258.9	240.9	237.9
65°	10513.7	8828.6	3065.4	760.6	348.8	280.9	264.9	263.9	240.9	223.9	219.9
67.5°	9687.1	7715.1	2518.8	724.7	340.8	253.8	238.9	233.9	219.9	205.9	203.9
70°	8468.8	6461.8	2020.0	709.6	336.8	225.9	213.9	207.9	195.9	184.9	183.9
72.5°	6588.7	5241.4	1667.2	699.6	334.8	199.9	186.9	178.9	171.9	161.9	161.9
75°	4732.6	3856.0	1272.4	630.7	309.8	171.9	157.9	152.9	142.9	134.9	136.9
77.5°	2983.5	2596.7	837.6	463.8	239.9	138.0	125.9	122.9	114.9	104.0	111.0
80°	2015.0	1826.1	488.7	291.8	151.0	100.9	96.9	95.9	87.0	74.9	76.0
82.5°	1371.3	1345.4	253.8	165.9	87.0	59.0	57.0	59.0	48.9	40.0	40.0
85°	535.7	731.6	120.0	65.0	28.0	9.0	13.0	14.0	8.0	4.0	5.0
87.5°	10.0	74.9	3.0	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°	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6
2.5°	4059.9	4051.0	4066.0	4002.0	4015.0	4038.9	4051.0	4058.0	4156.9	4133.9	4196.9
5°	3167.4	3158.4	3216.4	3224.4	3254.4	3248.4	3277.3	3284.4	3320.3	3333.3	3421.3
7.5°	2303.8	2342.8	2408.8	2442.8	2493.8	2509.7	2494.7	2531.8	2456.7	2510.8	2526.7
10°	1851.1	1804.1	1776.1	1854.1	1864.1	1938.0	1908.0	1884.1	1928.1	1930.0	1972.0
12.5°	1541.3	1440.3	1373.3	1395.3	1419.3	1451.3	1456.3	1504.2	1536.2	1566.2	1591.2
15°	1208.4	1173.4	1112.4	1082.4	1116.4	1129.4	1160.4	1200.4	1234.4	1243.4	1277.4
17.5°	927.5	933.6	923.5	905.5	926.5	936.5	938.5	939.5	948.5	942.5	992.5
20°	746.6	767.7	792.6	796.6	803.6	808.6	799.6	765.6	766.6	787.6	803.6
22.5°	675.7	679.6	707.7	716.7	738.6	729.6	703.7	687.6	685.7	690.7	698.7
25°	619.7	625.7	645.7	659.7	676.7	660.7	641.7	626.7	624.7	629.7	637.7
27.5°	569.7	578.7	596.7	610.7	626.7	611.7	593.7	580.7	579.7	578.7	583.7
30°	529.7	539.7	552.7	568.7	579.7	566.7	549.7	542.7	541.8	539.7	541.8
32.5°	489.8	505.7	518.7	526.7	537.8	527.7	514.7	510.8	503.8	497.8	494.8
35°	444.7	461.7	481.8	491.7	502.8	492.7	483.7	466.7	454.8	453.7	455.8
37.5°	418.8	425.8	441.8	458.8	469.8	464.8	447.8	430.8	427.8	427.8	429.8
40°	395.8	398.8	405.8	427.8	447.8	432.8	411.8	406.8	406.8	405.8	406.8
42.5°	372.8	375.8	375.8	392.8	424.8	400.8	384.8	384.8	384.8	385.8	388.8
45°	351.8	352.8	351.8	363.8	393.8	373.8	362.8	365.8	367.9	369.8	371.8
47.5°	333.9	334.8	333.9	343.8	358.8	350.9	344.8	348.8	352.8	355.8	357.8
50°	317.8	316.9	318.8	324.9	331.8	333.9	329.8	335.8	337.9	341.9	346.8
52.5°	303.9	302.9	304.8	307.9	317.8	317.8	317.8	322.8	326.8	330.8	337.9
55°	287.8	288.8	291.8	295.8	308.8	306.9	307.9	311.9	315.9	321.8	325.8
57.5°	272.9	274.8	278.8	284.9	297.9	296.8	297.9	299.8	304.8	307.9	311.9
60°	255.9	259.9	264.9	268.9	281.9	280.9	285.9	289.9	292.8	292.8	294.9
62.5°	238.9	244.8	249.9	252.9	266.8	267.9	274.8	277.9	279.8	277.9	280.9
65°	221.9	230.9	232.9	236.9	250.9	251.9	259.9	266.8	264.9	262.9	267.9
67.5°	204.9	215.9	214.9	219.9	233.9	235.9	242.9	254.9	250.9	248.8	252.9
70°	185.9	193.9	194.9	197.9	216.9	213.9	224.9	235.9	232.9	233.9	233.9
72.5°	164.9	171.9	171.9	177.9	197.9	192.9	201.9	213.9	213.9	212.9	212.9
75°	139.9	143.9	147.9	156.9	177.9	171.9	177.9	188.9	190.9	188.9	188.9
77.5°	112.9	118.9	121.0	133.0	147.9	146.9	152.9	157.9	161.9	159.9	159.9
80°	79.9	86.0	94.0	107.0	116.0	118.9	121.9	125.9	127.9	127.9	129.9
82.5°	44.9	53.9	61.0	74.0	78.0	92.9	91.9	95.0	91.9	81.0	90.0
85°	10.0	19.0	27.0	34.0	39.0	53.9	57.0	64.0	53.0	48.9	48.9
87.5°	0.0	0.0	0.0	0.0	0.0	8.0	16.0	22.0	19.0	16.0	16.0
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°	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6	4869.6
2.5°	4249.9	4336.8	4441.8	4622.7	4749.6	4886.5	5024.5	5171.4	5210.4	5250.4
5°	3445.3	3616.2	3709.1	3952.0	4206.9	4530.8	4795.6	5085.4	5206.4	5234.4
7.5°	2609.7	2725.6	2969.5	3215.4	3531.3	3871.1	4276.8	4728.6	4869.6	4928.5
10°	2069.0	2226.9	2440.8	2704.6	2981.5	3347.3	3805.1	4332.8	4532.7	4565.7
12.5°	1761.1	1937.1	2169.9	2448.8	2710.7	2986.5	3448.3	3993.0	4206.9	4277.8
15°	1408.3	1621.2	1890.1	2183.9	2468.8	2770.6	3238.4	3853.1	4099.9	4182.9
17.5°	1106.5	1278.3	1569.2	1888.0	2225.9	2607.7	3194.4	3920.0	4223.9	4300.9
20°	846.6	969.5	1214.4	1551.2	1947.0	2446.8	3205.4	4172.9	4536.7	4641.7
22.5°	731.6	794.6	943.5	1264.4	1707.2	2306.9	3250.4	4519.7	4958.5	5133.4
25°	662.7	695.6	779.6	989.5	1478.2	2170.9	3353.4	4986.5	5548.2	5664.1
27.5°	603.7	627.7	679.6	830.6	1270.3	2045.0	3473.2	5504.3	6098.9	6271.8
30°	547.7	579.7	628.7	737.7	1137.5	1930.0	3624.2	5924.0	6562.7	6723.6
32.5°	504.7	536.7	581.7	672.7	1024.5	1809.1	3714.2	6292.8	6941.5	7078.5
35°	469.8	496.7	543.7	620.7	938.5	1717.1	3696.2	6585.7	7308.4	7448.3
37.5°	444.7	467.8	514.7	571.7	873.6	1621.2	3687.1	6972.5	7755.1	7917.1
40°	421.8	445.8	488.7	539.7	808.6	1508.2	3692.2	7356.3	8230.9	8392.8
42.5°	403.8	430.8	465.7	530.7	741.7	1417.3	3692.2	7690.2	8644.6	8800.6
45°	388.8	417.8	451.8	529.7	688.6	1348.3	3667.2	7977.0	8974.5	9107.5
47.5°	375.8	407.8	456.8	511.8	675.7	1298.4	3645.2	8206.9	9243.4	9368.3
50°	366.8	404.8	485.8	490.8	679.6	1283.3	3751.1	8496.7	9480.3	9588.2
52.5°	359.8	405.8	484.8	459.8	672.7	1293.4	3972.0	8949.5	9809.1	9817.1
55°	345.9	404.8	459.8	424.8	643.7	1310.4	4255.8	9607.2	10323.9	10329.8
57.5°	331.8	393.8	426.8	394.8	584.7	1310.4	4597.7	10229.9	10944.5	10949.6
60°	317.8	409.8	374.8	368.8	507.8	1286.4	4958.5	10503.7	11139.4	11190.4
62.5°	303.9	412.8	334.8	345.9	451.8	1228.4	5227.4	10200.9	10875.6	10948.5
65°	287.8	332.9	308.8	321.8	422.8	1131.4	5142.4	9646.2	10379.8	10466.8
67.5°	268.9	281.9	280.9	296.8	412.8	988.5	4694.6	8944.5	9846.1	9841.1
70°	245.9	252.9	255.9	272.9	393.8	877.6	3912.0	8034.0	9133.5	9245.4
72.5°	221.9	227.9	230.9	245.9	374.8	814.6	3036.5	6779.6	7911.0	8086.0
75°	195.9	199.9	203.9	216.9	354.9	721.6	2162.9	5175.4	6058.9	6333.8
77.5°	168.9	168.9	173.9	186.9	298.9	595.7	1451.3	3630.1	4105.0	4385.8
80°	136.9	138.0	135.9	149.9	219.9	407.8	824.6	2424.8	2731.7	2785.6
82.5°	104.9	101.9	103.0	109.9	163.9	277.9	439.8	1506.3	1535.2	1505.2
85°	65.9	65.9	64.0	72.0	104.9	144.9	239.9	922.5	720.7	685.7
87.5°	27.0	22.0	25.0	29.0	50.0	59.0	94.0	189.9	73.0	66.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)