

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: P452929

Luminaire Tested: **GLAN-SA3D-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452929
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-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 15818 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

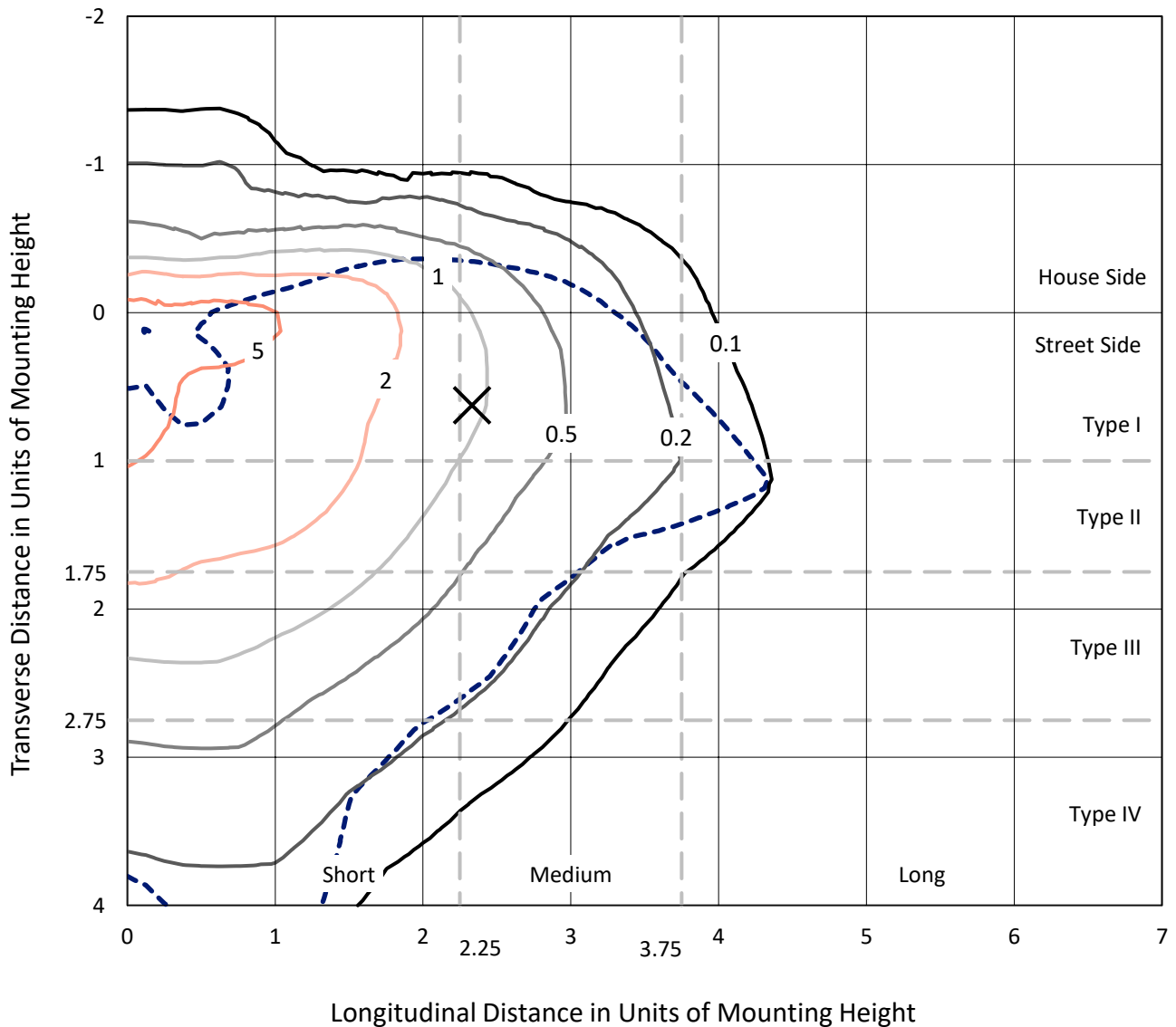
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

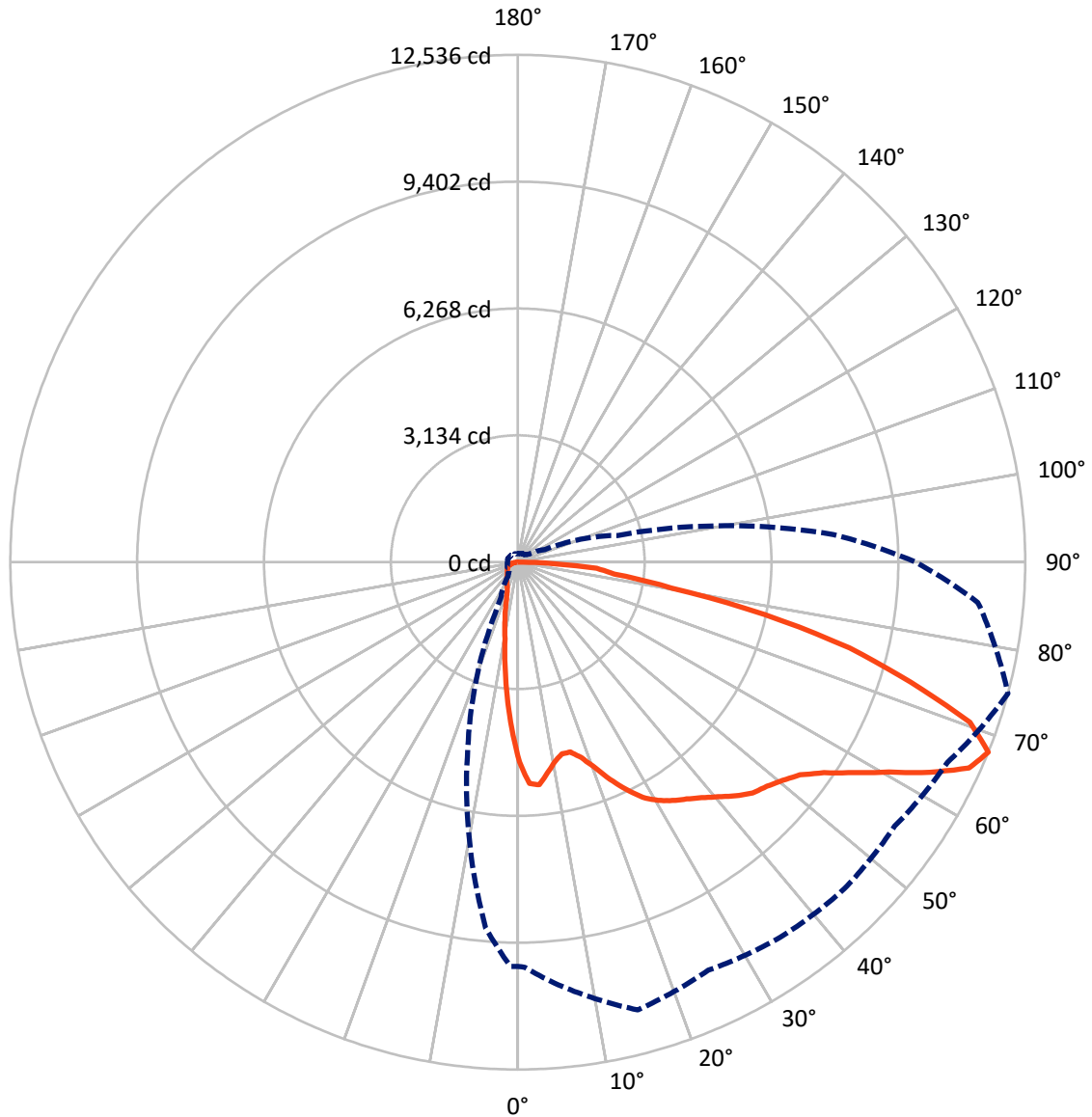
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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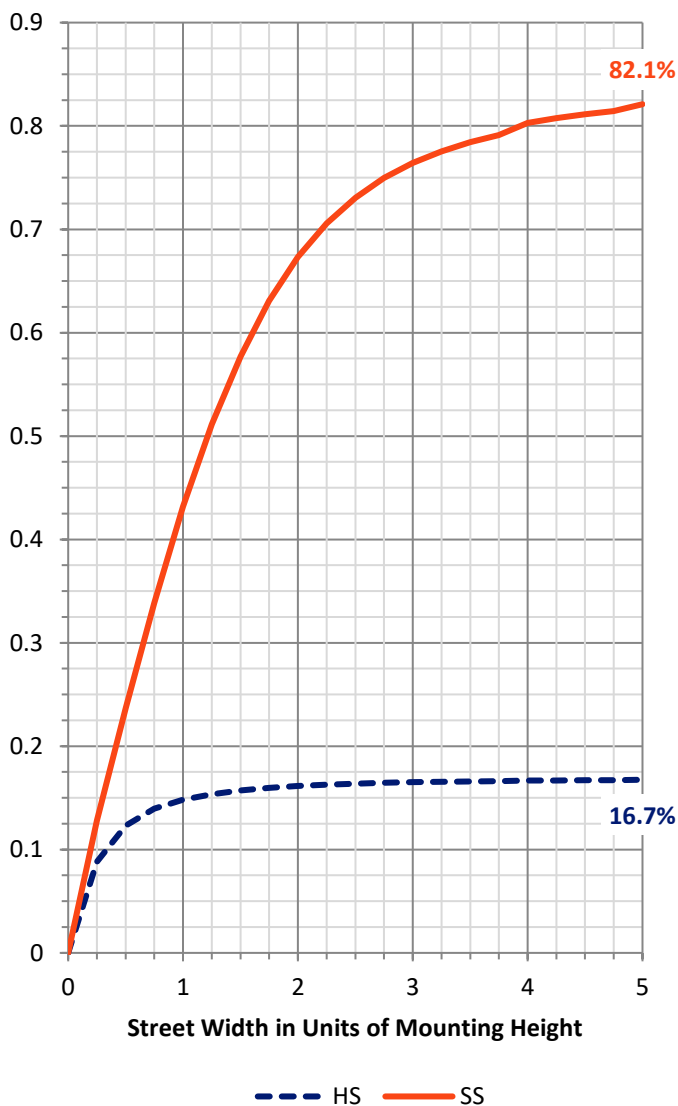
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2673.6	0.0	2673.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	13144.4	0.0	13144.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	15818.0	0.0	15818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	2.4
10°-20°	781.7	4.9
20°-30°	1124.9	7.1
30°-40°	1620.2	10.2
40°-50°	2275.9	14.4
50°-60°	3174.1	20.1
60°-70°	3773.8	23.9
70°-80°	2222.6	14.1
80°-90°	470.0	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°	15818.0	100.0
0°-180°	15818.0	100.0

Coefficient of Utilization



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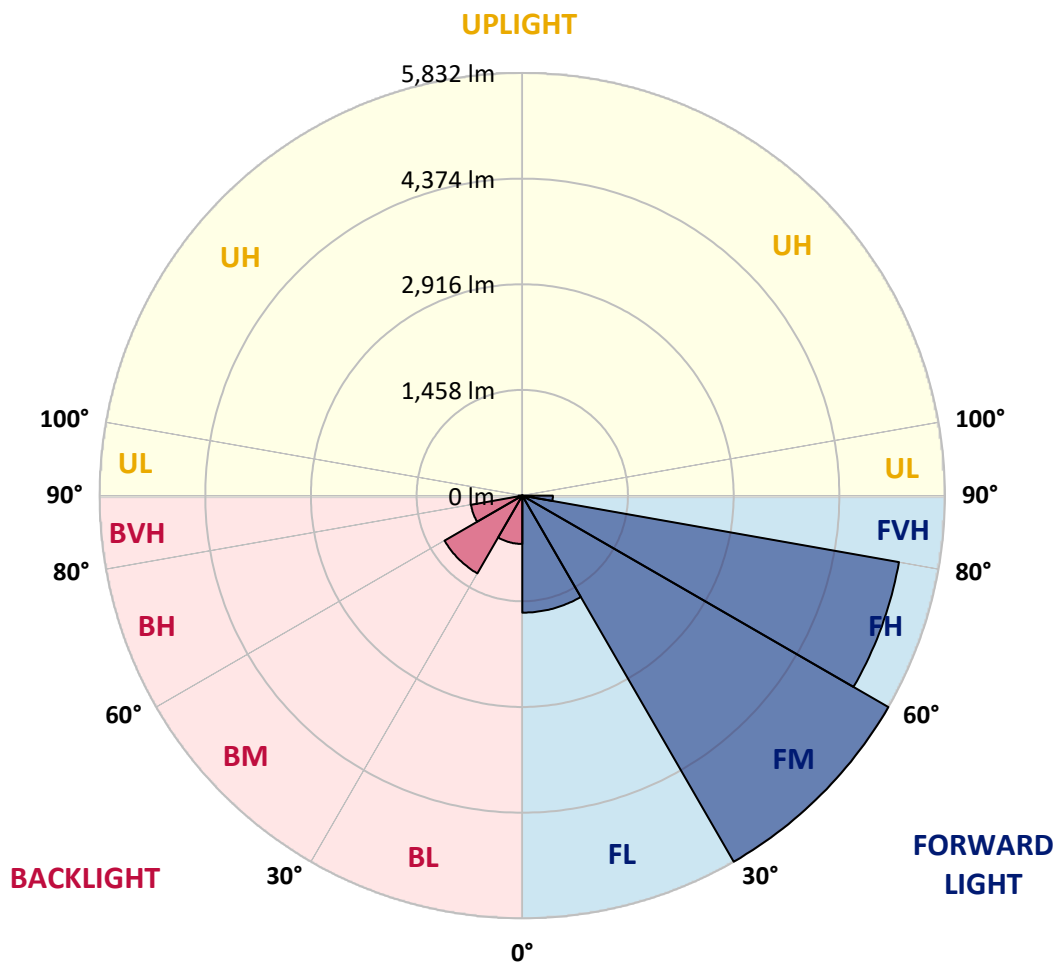
CATALOG NUMBER: GLAN-SA3D-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1614.6	10.2			
FM	(30°-60°)	5831.5	36.9			
FH	(60°-80°)	5276.9	33.4			G3/7500
FVH	(80°-90°)	421.4	2.7			G3/500
BL	(0°-30°)	666.9	4.2	B2/1000		
BM	(30°-60°)	1238.7	7.8	B2/2500		
BH	(60°-80°)	719.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	48.6	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°	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9
2.5°	5328.4	5335.5	5381.1	5514.0	5605.3	5638.8	5662.1	5618.5	5575.9	5472.4	5316.2
5°	5312.2	5353.7	5472.4	5770.6	6006.0	6107.4	6137.8	6007.0	5790.9	5525.2	5205.6
7.5°	5001.8	5057.6	5240.1	5740.2	6155.1	6392.4	6361.0	6124.7	5735.1	5261.4	4815.1
10°	4633.6	4695.4	4915.5	5520.1	6054.7	6381.3	6381.3	6093.2	5575.9	5012.9	4498.6
12.5°	4341.4	4406.3	4657.9	5293.9	5845.7	6155.1	6206.8	5959.3	5461.3	4855.7	4290.7
15°	4245.1	4307.9	4578.8	5157.0	5624.6	5813.2	5830.5	5749.3	5405.5	4866.9	4281.6
17.5°	4364.8	4445.9	4719.8	5197.5	5421.7	5432.9	5446.0	5510.0	5411.6	5070.7	4466.2
20°	4710.6	4797.9	5083.9	5328.4	5244.2	5128.6	5135.7	5300.0	5483.6	5407.5	4907.4
22.5°	5209.7	5285.8	5578.9	5558.6	5169.1	4930.8	4881.1	5110.3	5590.1	5827.4	5377.1
25°	5748.3	5837.6	6174.4	5900.5	5190.4	4813.1	4781.7	4998.7	5700.7	6220.0	5919.8
27.5°	6365.1	6452.3	6718.0	6245.4	5302.0	4804.0	4766.4	4988.6	5800.1	6583.1	6438.1
30°	6823.5	6903.7	7084.2	6535.5	5438.9	4864.8	4818.2	5068.7	5885.3	6831.7	6943.2
32.5°	7183.6	7266.8	7365.2	6716.0	5619.5	4975.4	4889.2	5214.8	5996.8	7021.3	7317.5
35°	7558.9	7657.3	7650.2	6876.3	5787.9	5103.2	5019.0	5425.8	6172.3	7186.7	7792.2
37.5°	8034.7	8074.2	8023.5	7020.3	5989.7	5333.5	5286.8	5739.2	6421.9	7386.5	8347.1
40°	8517.5	8596.6	8335.9	7194.8	6235.2	5766.6	5761.5	6202.8	6718.0	7620.8	8884.7
42.5°	8931.4	8998.3	8628.1	7346.9	6532.4	6295.1	6333.6	6824.6	7106.5	7892.7	9316.8
45°	9242.8	9302.6	8897.9	7494.0	6924.0	6905.7	7132.9	7491.0	7596.5	8137.1	9570.4
47.5°	9507.5	9565.3	9085.5	7717.2	7407.8	7635.0	8030.6	8185.8	8015.4	8277.1	9854.4
50°	9730.7	9747.9	9214.4	7982.9	8008.3	8528.7	8912.1	9012.5	8429.3	8477.9	10100.9
52.5°	9963.0	9940.6	9436.5	8317.7	8657.5	9376.7	9655.6	9760.1	8825.9	8725.4	10460.0
55°	10483.3	10504.6	9934.6	8739.6	9313.8	10209.4	10576.6	10476.2	9265.1	9180.9	10916.4
57.5°	11112.2	11094.0	10635.5	9400.0	9982.2	10984.4	11258.3	11097.0	9851.4	9806.7	11379.0
60°	11356.7	11381.0	11221.8	10110.0	10641.6	11663.0	11943.0	11692.4	10554.3	10534.0	11727.9
62.5°	11111.2	11248.1	11355.7	10742.0	11203.5	12162.1	12440.0	12154.0	11287.7	11434.8	11972.4
65°	10622.3	10651.7	11017.9	11277.6	11474.3	12244.2	12389.3	12237.1	11900.4	12255.4	11961.2
67.5°	9987.3	10012.7	10441.7	11453.0	11125.4	11311.0	11412.5	11367.8	11710.7	12536.4	11410.4
70°	9382.7	9362.5	9815.9	11005.7	9685.0	9403.0	9487.2	9347.2	10105.0	11849.6	10330.1
72.5°	8206.1	8279.1	8766.0	9762.1	7668.5	7210.0	7393.6	7031.5	7772.0	10148.6	8384.6
75°	6427.9	6445.2	7257.7	8192.9	5784.8	5061.6	5310.1	5159.0	5953.2	8465.8	5789.9
77.5°	4451.0	4412.4	5285.8	6257.5	4125.4	3705.4	3709.5	3637.5	4156.8	6233.2	3933.7
80°	2827.0	2768.2	3308.8	3865.7	2835.1	3032.9	2933.5	2930.5	2706.3	3845.4	2378.7
82.5°	1527.6	1592.5	2090.6	2423.3	2033.8	2344.2	2148.4	2085.5	1857.3	2407.1	1521.5
85°	695.8	756.7	1114.8	1648.3	1544.9	1562.1	1043.8	1231.4	1536.7	1954.7	812.5
87.5°	68.0	87.2	230.3	778.0	527.5	415.9	155.2	299.2	386.5	694.8	64.9
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°	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9
2.5°	5252.3	5199.6	5020.0	4871.9	4714.7	4595.0	4438.8	4334.3	4262.3	4153.8	4140.6
5°	5010.9	4882.1	4569.7	4251.1	3976.3	3769.3	3559.4	3366.6	3253.0	3217.5	3171.9
7.5°	4604.1	4387.1	3985.4	3620.2	3304.8	2996.4	2759.0	2590.7	2478.1	2412.1	2333.0
10°	4269.4	4017.8	3528.9	3081.6	2821.9	2630.2	2421.3	2240.7	2101.7	1983.1	1918.1
12.5°	4044.2	3760.2	3210.4	2847.3	2646.4	2442.6	2198.1	1995.2	1790.3	1655.4	1597.6
15°	3976.3	3676.0	3112.0	2730.6	2442.6	2175.8	1901.9	1637.2	1434.3	1306.5	1263.9
17.5°	4142.6	3779.5	3111.0	2575.4	2203.2	1884.7	1533.7	1285.2	1077.2	981.9	951.5
20°	4453.0	3978.3	3120.1	2422.3	1943.5	1495.2	1115.8	911.9	812.5	771.9	756.7
22.5°	4886.1	4281.6	3147.5	2271.1	1659.5	1148.2	835.8	732.4	696.9	689.8	686.7
25°	5419.7	4656.9	3239.8	2135.2	1420.1	876.4	698.9	652.2	631.9	624.8	623.8
27.5°	5910.6	5141.7	3351.4	2018.6	1188.8	755.7	631.9	592.4	572.1	571.1	573.1
30°	6353.9	5547.5	3444.7	1887.7	1013.3	671.5	588.3	548.8	529.5	528.5	534.6
32.5°	6737.3	5881.2	3513.7	1758.9	916.0	619.8	548.8	506.2	489.9	486.9	489.9
35°	7147.1	6213.9	3482.3	1658.5	860.2	577.2	519.3	477.8	458.5	449.4	449.4
37.5°	7614.7	6556.8	3428.5	1575.3	834.8	541.7	494.0	453.4	434.1	425.0	424.0
40°	8125.0	6899.6	3354.5	1501.2	809.5	520.4	476.7	434.1	410.8	401.7	399.7
42.5°	8575.3	7192.8	3293.6	1452.6	767.9	524.4	461.5	419.9	390.5	378.4	377.3
45°	8966.9	7487.9	3282.4	1424.1	733.4	518.3	457.5	408.8	374.3	361.1	359.1
47.5°	9273.2	7795.3	3346.3	1407.9	695.8	485.9	483.8	401.7	360.1	345.9	343.9
50°	9646.5	8231.5	3492.4	1374.4	661.4	455.4	511.2	400.7	348.9	330.7	325.6
52.5°	10143.5	8799.5	3690.2	1314.6	611.7	427.0	487.9	400.7	335.8	317.5	311.4
55°	10895.1	9523.7	3883.9	1230.4	541.7	389.5	440.2	388.5	316.5	300.2	296.2
57.5°	11393.2	10053.2	4007.7	1113.8	454.4	362.1	379.4	369.2	297.2	280.0	280.0
60°	11418.5	10195.2	3948.9	966.7	399.7	336.8	329.7	372.3	280.0	261.7	259.7
62.5°	11126.4	9847.3	3642.5	834.8	370.2	309.4	298.2	326.6	262.7	244.5	241.4
65°	10670.0	8959.8	3111.0	771.9	354.0	285.0	268.8	267.8	244.5	227.2	223.2
67.5°	9831.1	7829.8	2556.2	735.4	345.9	257.6	242.4	237.4	223.2	209.0	206.9
70°	8594.6	6557.8	2050.0	720.2	341.8	229.2	217.1	211.0	198.8	187.7	186.6
72.5°	6686.6	5319.3	1691.9	710.0	339.8	202.9	189.7	181.6	174.5	164.3	164.3
75°	4803.0	3913.4	1291.3	640.1	314.4	174.5	160.3	155.2	145.1	136.9	139.0
77.5°	3027.8	2635.3	850.0	470.7	243.4	140.0	127.8	124.8	116.7	105.5	112.6
80°	2044.9	1853.2	496.0	296.2	153.2	102.4	98.4	97.4	88.2	76.1	77.1
82.5°	1391.7	1365.3	257.6	168.4	88.2	59.8	57.8	59.8	49.7	40.6	40.6
85°	543.7	742.5	121.7	65.9	28.4	9.1	13.2	14.2	8.1	4.1	5.1
87.5°	10.1	76.1	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°	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9
2.5°	4120.3	4111.2	4126.4	4061.5	4074.6	4099.0	4111.2	4118.3	4218.7	4195.4	4259.3
5°	3214.5	3205.3	3264.2	3272.3	3302.7	3296.6	3326.1	3333.2	3369.7	3382.9	3472.1
7.5°	2338.1	2377.6	2444.6	2479.1	2530.8	2547.0	2531.8	2569.4	2493.3	2548.0	2564.3
10°	1878.6	1830.9	1802.5	1881.6	1891.8	1966.8	1936.4	1912.1	1956.7	1958.7	2001.3
12.5°	1564.1	1461.7	1393.7	1416.0	1440.4	1472.8	1477.9	1526.6	1559.1	1589.5	1614.8
15°	1226.4	1190.8	1129.0	1098.5	1133.0	1146.2	1177.7	1218.2	1252.7	1261.9	1296.3
17.5°	941.3	947.4	937.3	919.0	940.3	950.4	952.5	953.5	962.6	956.5	1007.3
20°	757.7	779.0	804.4	808.4	815.5	820.6	811.5	777.0	778.0	799.3	815.5
22.5°	685.7	689.8	718.2	727.3	749.6	740.5	714.1	697.9	695.8	700.9	709.0
25°	628.9	635.0	655.3	669.5	686.7	670.5	651.2	636.0	634.0	639.0	647.2
27.5°	578.2	587.3	605.6	619.8	636.0	620.8	602.5	589.3	588.3	587.3	592.4
30°	537.6	547.7	560.9	577.2	588.3	575.1	557.9	550.8	549.8	547.7	549.8
32.5°	497.0	513.3	526.4	534.6	545.7	535.6	522.4	518.3	511.2	505.1	502.1
35°	451.4	468.6	488.9	499.1	510.2	500.1	490.9	473.7	461.5	460.5	462.5
37.5°	425.0	432.1	448.3	465.6	476.7	471.7	454.4	437.2	434.1	434.1	436.2
40°	401.7	404.7	411.8	434.1	454.4	439.2	417.9	412.8	412.8	411.8	412.8
42.5°	378.4	381.4	381.4	398.6	431.1	406.8	390.5	390.5	390.5	391.5	394.6
45°	357.1	358.1	357.1	369.2	399.7	379.4	368.2	371.3	373.3	375.3	377.3
47.5°	338.8	339.8	338.8	348.9	364.2	356.0	350.0	354.0	358.1	361.1	363.1
50°	322.6	321.5	323.6	329.7	336.8	338.8	334.7	340.8	342.9	346.9	352.0
52.5°	308.4	307.3	309.4	312.4	322.6	322.6	322.6	327.6	331.7	335.8	342.9
55°	292.1	293.1	296.2	300.2	313.4	311.4	312.4	316.5	320.5	326.6	330.7
57.5°	276.9	278.9	283.0	289.1	302.3	301.3	302.3	304.3	309.4	312.4	316.5
60°	259.7	263.7	268.8	272.9	286.0	285.0	290.1	294.2	297.2	297.2	299.2
62.5°	242.4	248.5	253.6	256.6	270.8	271.8	278.9	282.0	284.0	282.0	285.0
65°	225.2	234.3	236.3	240.4	254.6	255.6	263.7	270.8	268.8	266.8	271.8
67.5°	207.9	219.1	218.1	223.2	237.4	239.4	246.5	258.7	254.6	252.6	256.6
70°	188.7	196.8	197.8	200.8	220.1	217.1	228.2	239.4	236.3	237.4	237.4
72.5°	167.4	174.5	174.5	180.6	200.8	195.8	204.9	217.1	217.1	216.1	216.1
75°	142.0	146.1	150.1	159.3	180.6	174.5	180.6	191.7	193.7	191.7	191.7
77.5°	114.6	120.7	122.7	134.9	150.1	149.1	155.2	160.3	164.3	162.3	162.3
80°	81.1	87.2	95.3	108.5	117.7	120.7	123.8	127.8	129.8	129.8	131.9
82.5°	45.6	54.8	61.9	75.1	79.1	94.3	93.3	96.4	93.3	82.2	91.3
85°	10.1	19.3	27.4	34.5	39.6	54.8	57.8	64.9	53.8	49.7	49.7
87.5°	0.0	0.0	0.0	0.0	0.0	8.1	16.2	22.3	19.3	16.2	16.2
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°	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9	4941.9
2.5°	4313.0	4401.3	4507.8	4691.4	4820.2	4959.2	5099.1	5248.3	5287.8	5328.4
5°	3496.5	3669.9	3764.3	4010.7	4269.4	4598.1	4866.9	5161.0	5283.8	5312.2
7.5°	2648.5	2766.1	3013.6	3263.2	3583.7	3928.6	4340.4	4798.9	4941.9	5001.8
10°	2099.7	2260.0	2477.0	2744.8	3025.8	3397.1	3861.6	4397.2	4600.1	4633.6
12.5°	1787.3	1965.8	2202.2	2485.2	2750.9	3030.9	3499.5	4052.3	4269.4	4341.4
15°	1429.2	1645.3	1918.1	2216.4	2505.4	2811.8	3286.5	3910.3	4160.9	4245.1
17.5°	1122.9	1297.4	1592.5	1916.1	2259.0	2646.4	3241.9	3978.3	4286.6	4364.8
20°	859.2	983.9	1232.4	1574.3	1976.0	2483.1	3253.0	4234.9	4604.1	4710.6
22.5°	742.5	806.4	957.5	1283.2	1732.5	2341.1	3298.7	4586.9	5032.2	5209.7
25°	672.5	706.0	791.2	1004.2	1500.2	2203.2	3403.1	5060.6	5630.7	5748.3
27.5°	612.7	637.0	689.8	842.9	1289.2	2075.4	3524.9	5586.0	6189.6	6365.1
30°	555.9	588.3	638.0	748.6	1154.3	1958.7	3678.0	6012.1	6660.2	6823.5
32.5°	512.2	544.7	590.4	682.7	1039.7	1836.0	3769.3	6386.4	7044.7	7183.6
35°	476.7	504.1	551.8	629.9	952.5	1742.7	3751.1	6683.6	7416.9	7558.9
37.5°	451.4	474.7	522.4	580.2	886.5	1645.3	3741.9	7076.1	7870.3	8034.7
40°	428.1	452.4	496.0	547.7	820.6	1530.7	3747.0	7465.6	8353.2	8517.5
42.5°	409.8	437.2	472.7	538.6	752.6	1438.3	3747.0	7804.4	8773.1	8931.4
45°	394.6	424.0	458.5	537.6	698.9	1368.4	3721.7	8095.5	9107.9	9242.8
47.5°	381.4	413.9	463.6	519.3	685.7	1317.6	3699.3	8328.8	9380.7	9507.5
50°	372.3	410.8	493.0	498.0	689.8	1302.4	3806.9	8623.0	9621.1	9730.7
52.5°	365.2	411.8	492.0	466.6	682.7	1312.6	4031.0	9082.5	9954.8	9963.0
55°	351.0	410.8	466.6	431.1	653.2	1329.8	4319.1	9749.9	10477.2	10483.3
57.5°	336.8	399.7	433.1	400.7	593.4	1329.8	4666.0	10381.9	11107.1	11112.2
60°	322.6	415.9	380.4	374.3	515.3	1305.5	5032.2	10659.8	11304.9	11356.7
62.5°	308.4	418.9	339.8	351.0	458.5	1246.6	5305.1	10352.5	11037.2	11111.2
65°	292.1	337.8	313.4	326.6	429.1	1148.2	5218.8	9789.5	10534.0	10622.3
67.5°	272.9	286.0	285.0	301.3	418.9	1003.2	4764.4	9077.4	9992.4	9987.3
70°	249.5	256.6	259.7	276.9	399.7	890.6	3970.2	8153.4	9269.1	9382.7
72.5°	225.2	231.3	234.3	249.5	380.4	826.7	3081.6	6880.3	8028.6	8206.1
75°	198.8	202.9	206.9	220.1	360.1	732.4	2195.1	5252.3	6149.0	6427.9
77.5°	171.4	171.4	176.5	189.7	303.3	604.6	1472.8	3684.1	4165.9	4451.0
80°	139.0	140.0	138.0	152.2	223.2	413.9	836.8	2460.8	2772.2	2827.0
82.5°	106.5	103.5	104.5	111.6	166.4	282.0	446.3	1528.6	1558.0	1527.6
85°	66.9	66.9	64.9	73.0	106.5	147.1	243.4	936.2	731.3	695.8
87.5°	27.4	22.3	25.4	29.4	50.7	59.8	95.3	192.7	74.0	68.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)