

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: P532527

Luminaire Tested: **GLAN-SA7D-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21898 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 433
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



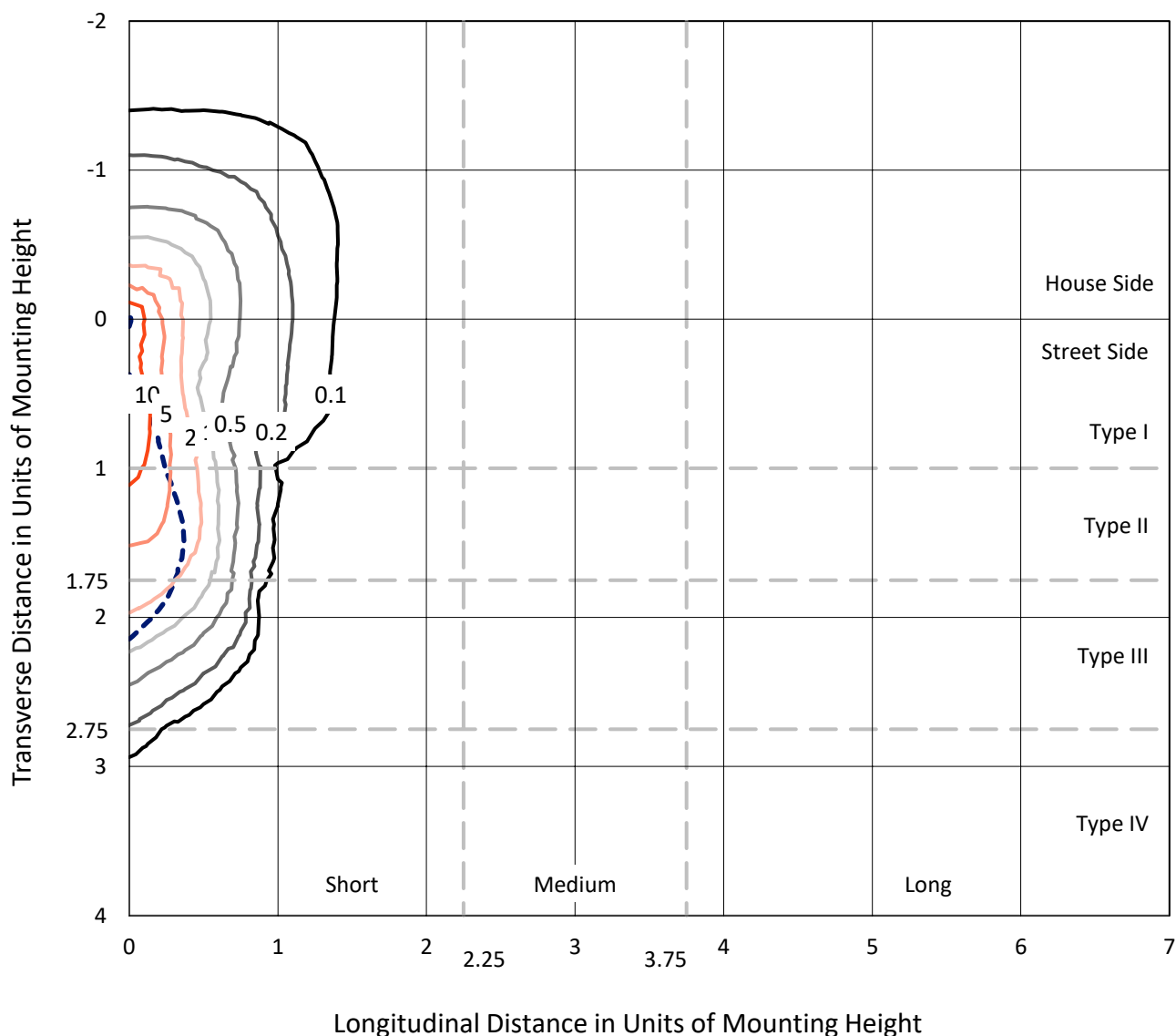
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

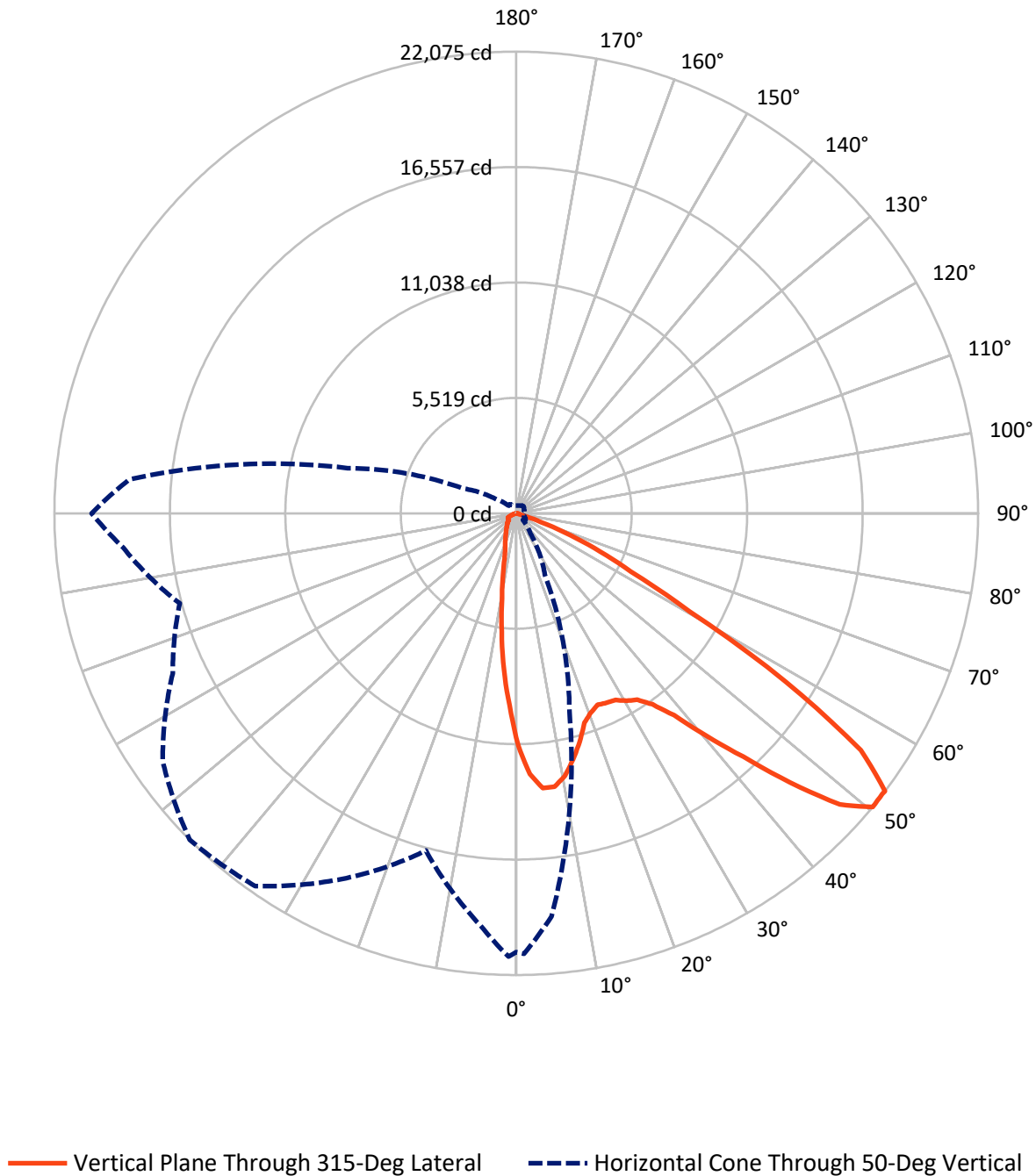


Based on 25 foot mounting height. Maximum calculated value = 17.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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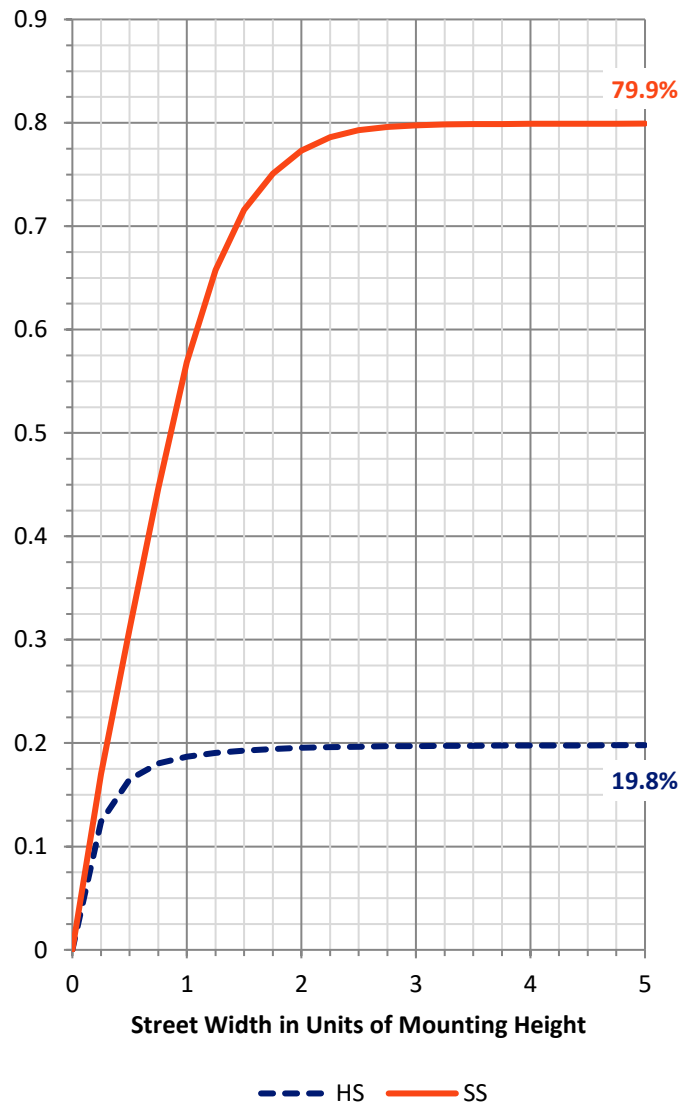
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4386.2	0.0	4386.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	17511.8	0.0	17511.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	21898.0	0.0	21898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.4	3.7
10°-20°	1608.7	7.3
20°-30°	2416.8	11.0
30°-40°	3627.5	16.6
40°-50°	5098.3	23.3
50°-60°	5499.4	25.1
60°-70°	2553.3	11.7
70°-80°	240.2	1.1
80°-90°	44.3	0.2
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°	21898.0	100.0
0°-180°	21898.0	100.0

Coefficient of Utilization



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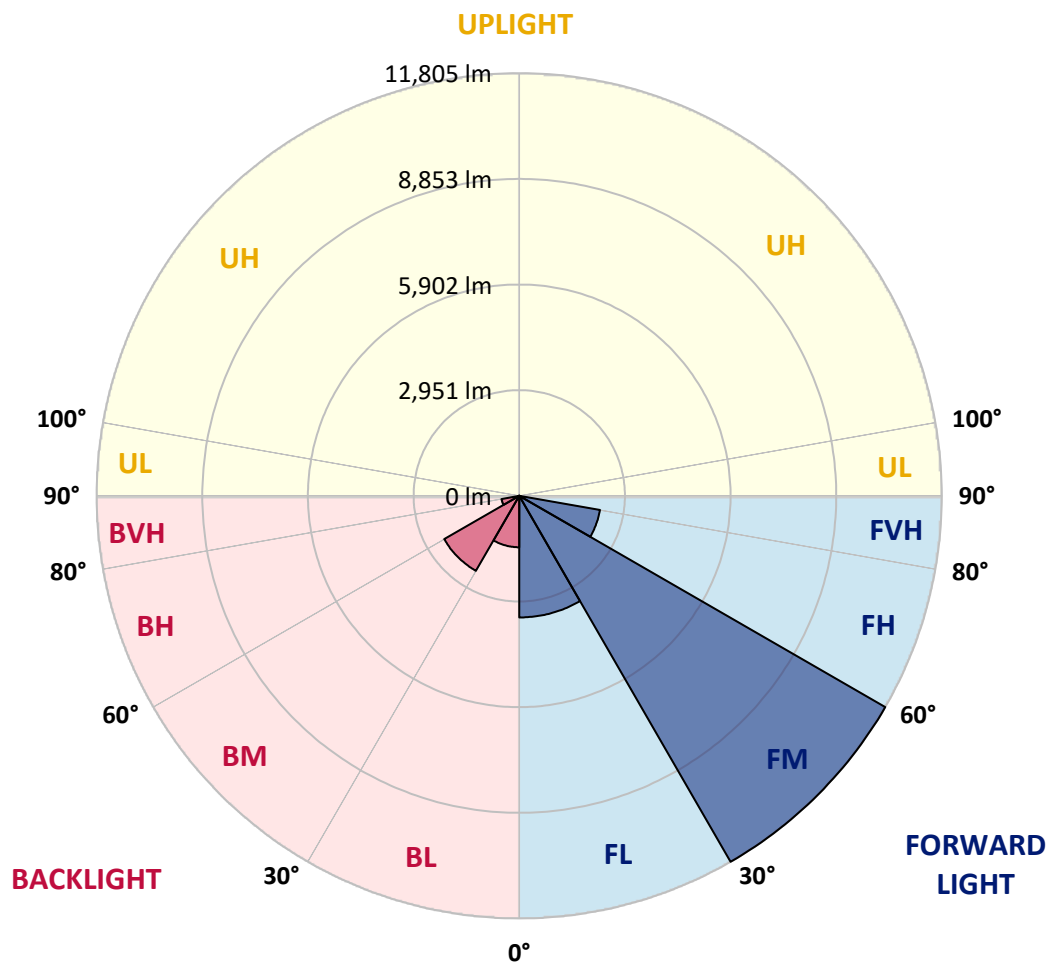
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3397.3	15.5			
FM	(30°-60°)	11804.7	53.9			
FH	(60°-80°)	2289.9	10.5			G2/5000
FVH	(80°-90°)	19.9	0.1			G1/100
BL	(0°-30°)	1437.7	6.6	B3/2500		
BM	(30°-60°)	2420.5	11.1	B2/2500		
BH	(60°-80°)	503.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	24.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0
2.5°	11543.9	11365.7	11139.8	10953.0	10674.9	10114.5	9962.4	9779.9	9627.8	9423.6	9136.9
5°	10496.8	10440.3	10336.0	9632.2	9123.9	8446.1	7890.0	7655.4	7346.9	7094.9	6912.4
7.5°	9697.4	9471.4	9141.2	8433.1	7620.6	6895.0	6278.1	5917.5	5509.1	5370.0	5122.4
10°	8841.5	8893.6	8407.0	7412.1	6430.2	5843.6	5461.3	5113.7	4744.4	4501.1	4149.2
12.5°	8567.7	8398.3	8024.7	6795.1	5956.6	5409.1	4944.3	4514.1	4123.1	3732.1	3393.2
15°	8745.9	8485.2	7963.8	6664.8	5591.6	4909.5	4327.3	3745.1	3384.5	2884.9	2533.0
17.5°	9384.5	9176.0	8476.5	6803.8	5404.8	4431.6	3567.0	2967.4	2415.7	1963.8	1785.7
20°	10449.0	10153.6	9275.9	6981.9	5126.7	3853.7	2893.6	2155.0	1633.6	1442.4	1342.5
22.5°	11491.7	11331.0	10223.1	7325.2	4879.1	3341.1	2172.3	1451.1	1220.9	1186.1	1120.9
25°	13477.3	12995.0	11669.9	7946.5	4687.9	2858.8	1638.0	1168.7	1034.0	1008.0	1016.7
27.5°	14659.0	14255.0	13008.0	8359.2	4475.0	2489.5	1386.0	1073.1	981.9	925.4	903.7
30°	15793.0	15323.7	13672.8	8602.5	4018.8	2098.5	1229.5	1029.7	1008.0	925.4	899.4
32.5°	16666.3	16205.7	14632.9	8967.5	3832.0	1846.5	1012.3	803.8	747.3	738.6	816.8
35°	18004.4	17513.5	15454.1	9167.3	3688.6	1716.2	877.6	716.9	651.7	625.6	630.0
37.5°	19251.4	18916.8	16214.4	9245.5	3536.6	1677.1	786.4	643.0	586.5	569.2	564.8
40°	20294.1	19546.8	16935.6	9328.1	3471.4	1603.2	729.9	586.5	547.4	521.4	521.4
42.5°	20772.0	20011.7	17743.7	9280.3	3454.0	1485.9	729.9	538.7	508.3	482.3	477.9
45°	20667.7	20359.3	18104.4	9258.5	3454.0	1368.6	664.7	525.7	482.3	447.5	438.8
47.5°	20937.1	20533.0	18556.2	9349.8	3384.5	1286.0	560.5	551.8	456.2	412.7	404.1
50°	20984.9	21063.1	19342.6	9823.4	3232.5	1181.8	438.8	543.1	438.8	373.6	365.0
52°	21297.7	20811.1	19581.6	10075.4	3071.7	1103.6	369.3	464.9	421.4	347.6	338.9
52.5°	20867.6	21184.7	19638.0	10166.6	3089.1	1051.4	356.3	456.2	412.7	347.6	325.9
55°	20385.3	20689.4	19407.8	10362.1	2832.7	825.5	278.1	330.2	373.6	304.1	291.1
57.5°	17717.7	18026.1	16866.1	9488.8	2307.0	582.2	230.3	247.6	330.2	282.4	269.4
60°	15749.5	15527.9	14155.0	7916.0	1638.0	325.9	182.5	191.2	360.6	260.7	256.3
62.5°	14394.0	13920.4	11830.6	6113.0	999.3	217.2	143.4	147.7	278.1	243.3	243.3
65°	10648.9	10118.8	7859.6	3697.3	491.0	152.1	108.6	117.3	173.8	208.5	208.5
67.5°	6078.2	5874.0	3797.3	1668.4	204.2	95.6	82.5	91.2	134.7	169.4	160.8
70°	2793.6	2506.9	1459.8	351.9	95.6	65.2	65.2	73.9	108.6	126.0	117.3
72.5°	816.8	773.4	356.3	56.5	39.1	39.1	43.4	56.5	82.5	95.6	86.9
75°	60.8	39.1	26.1	17.4	17.4	26.1	34.8	56.5	82.5	91.2	73.9
77.5°	4.3	8.7	4.3	4.3	13.0	26.1	39.1	69.5	108.6	113.0	82.5
80°	4.3	4.3	0.0	4.3	13.0	26.1	43.4	78.2	121.7	130.3	69.5
82.5°	0.0	0.0	0.0	4.3	17.4	34.8	52.1	82.5	113.0	139.0	73.9
85°	0.0	0.0	0.0	4.3	26.1	47.8	60.8	21.7	13.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0
2.5°	9341.1	9228.1	9184.7	9223.8	9210.8	9197.7	9436.7	9384.5	9375.9	9454.1	9436.7
5°	7012.3	6812.5	7359.9	7138.3	7368.6	7507.6	7533.7	7546.7	7707.5	7538.0	7759.6
7.5°	4996.4	5048.5	5044.2	5191.9	5456.9	5691.6	5830.6	5722.0	5713.3	5691.6	5596.0
10°	3992.8	3901.5	3884.2	3849.4	3932.0	4131.8	4301.3	4166.6	4071.0	4201.3	4162.2
12.5°	3262.9	3136.9	3067.4	2928.3	2932.7	3067.4	3067.4	3067.4	3162.9	3236.8	3293.3
15°	2502.5	2398.3	2398.3	2259.2	2228.8	2233.2	2302.7	2311.4	2463.4	2506.9	2528.6
17.5°	1750.9	1694.4	1759.6	1816.1	1781.3	1790.0	1816.1	1824.8	1846.5	1829.1	1872.6
20°	1346.9	1338.2	1355.5	1455.5	1529.3	1572.8	1542.4	1498.9	1472.9	1412.0	1412.0
22.5°	1142.7	1160.0	1190.4	1273.0	1368.6	1394.6	1359.9	1260.0	1181.8	1173.1	1177.4
25°	1016.7	1034.0	1081.8	1134.0	1186.1	1229.5	1194.8	1120.9	1077.5	1038.4	1038.4
27.5°	938.5	947.1	973.2	1012.3	1055.8	1090.5	1077.5	1038.4	990.6	973.2	934.1
30°	877.6	890.7	921.1	929.8	968.9	986.2	964.5	955.8	925.4	903.7	890.7
32.5°	847.2	842.9	864.6	873.3	877.6	890.7	864.6	877.6	873.3	838.5	825.5
35°	638.7	673.4	729.9	777.7	790.7	808.1	803.8	786.4	738.6	699.5	651.7
37.5°	573.5	595.2	625.6	664.7	716.9	738.6	729.9	686.5	630.0	603.9	595.2
40°	530.1	543.1	569.2	595.2	647.4	686.5	656.0	616.9	573.5	551.8	538.7
42.5°	491.0	495.3	508.3	534.4	573.5	634.3	582.2	530.1	512.7	499.6	491.0
45°	447.5	447.5	464.9	477.9	521.4	577.8	525.7	477.9	469.2	460.5	456.2
47.5°	412.7	417.1	425.8	443.2	477.9	517.0	482.3	443.2	421.4	417.1	408.4
50°	369.3	373.6	391.0	408.4	451.8	473.6	451.8	408.4	386.7	373.6	373.6
52°	334.5	347.6	365.0	399.7	430.1	464.9	438.8	391.0	365.0	351.9	343.2
52.5°	330.2	338.9	356.3	395.4	430.1	460.5	434.5	386.7	356.3	347.6	338.9
55°	295.4	308.5	338.9	386.7	425.8	460.5	425.8	382.3	338.9	317.2	308.5
57.5°	282.4	291.1	330.2	391.0	421.4	460.5	425.8	382.3	338.9	299.8	291.1
60°	269.4	286.8	330.2	378.0	417.1	464.9	430.1	378.0	330.2	282.4	282.4
62.5°	256.3	269.4	325.9	369.3	399.7	447.5	412.7	369.3	317.2	269.4	265.0
65°	221.6	243.3	286.8	308.5	343.2	386.7	351.9	321.5	278.1	239.0	234.6
67.5°	169.4	178.1	212.9	239.0	260.7	299.8	282.4	243.3	212.9	182.5	182.5
70°	117.3	126.0	152.1	165.1	186.8	208.5	195.5	165.1	143.4	126.0	121.7
72.5°	82.5	86.9	95.6	104.3	113.0	121.7	117.3	95.6	82.5	78.2	73.9
75°	65.2	73.9	78.2	73.9	69.5	65.2	65.2	56.5	47.8	43.4	43.4
77.5°	65.2	69.5	65.2	56.5	47.8	43.4	39.1	34.8	26.1	21.7	26.1
80°	56.5	56.5	56.5	47.8	43.4	39.1	34.8	30.4	26.1	21.7	21.7
82.5°	60.8	60.8	56.5	47.8	47.8	39.1	39.1	34.8	30.4	21.7	21.7
85°	0.0	0.0	0.0	8.7	21.7	39.1	39.1	34.8	30.4	26.1	26.1
87.5°	0.0	0.0	0.0	0.0	4.3	8.7	17.4	21.7	26.1	26.1	26.1
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°	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0
2.5°	9593.1	9758.2	10071.0	10383.8	10575.0	10800.9	11209.3	11426.6	11709.0	11848.0	12121.7
5°	7729.2	8120.2	8259.3	8615.5	8997.9	9380.2	9988.5	10657.5	11213.7	11596.0	12091.3
7.5°	5639.4	5730.7	6269.4	6508.4	7134.0	7829.1	8659.0	9501.9	10205.7	10831.3	11209.3
10°	4227.4	4561.9	4900.8	5357.0	5861.0	6577.9	7373.0	8302.7	9215.1	9840.7	10318.7
12.5°	3397.6	3662.6	4114.4	4605.4	5226.7	5700.2	6499.7	7420.7	8602.5	9215.1	9845.1
15°	2572.1	2910.9	3423.6	3932.0	4588.0	5087.6	5895.8	7055.8	8576.4	9419.3	9962.4
17.5°	1907.3	2137.6	2598.1	3167.3	3836.4	4540.2	5630.7	7016.7	8867.5	9871.2	10431.6
20°	1459.8	1538.0	1829.1	2337.4	3063.0	3984.1	5200.6	7186.1	9727.8	10970.4	11539.5
22.5°	1181.8	1216.5	1329.5	1681.4	2385.2	3497.5	4996.4	7303.4	10696.6	12286.8	13047.1
25°	1029.7	1021.0	1094.9	1246.9	1863.9	3041.3	4735.7	7746.6	11882.7	13833.5	14515.6
27.5°	938.5	938.5	973.2	1081.8	1546.7	2745.8	4570.6	8063.8	13077.5	15193.4	15562.7
30°	890.7	899.4	999.3	1034.0	1286.0	2393.9	4296.9	8385.3	14220.2	16062.3	16570.7
32.5°	825.5	790.7	769.0	855.9	1081.8	2076.8	4023.2	8520.0	15145.6	17126.8	17561.3
35°	634.3	616.9	643.0	708.2	929.8	1807.4	3719.1	8672.0	16210.1	18360.7	18447.6
37.5°	573.5	569.2	586.5	643.0	782.0	1572.8	3501.8	8632.9	17022.5	19381.7	19147.1
40°	530.1	530.1	543.1	590.9	699.5	1407.7	3275.9	8598.2	17808.9	20528.7	19842.2
42.5°	495.3	495.3	517.0	547.4	664.7	1299.1	3106.5	8550.4	18469.3	21232.5	20250.6
45°	447.5	460.5	495.3	525.7	673.4	1225.2	2980.5	8367.9	18695.2	21223.8	20055.1
47.5°	412.7	430.1	464.9	508.3	608.3	1203.5	2893.6	8207.1	18617.0	20702.5	19442.5
50°	373.6	395.4	443.2	517.0	517.0	1160.0	2802.3	8350.5	18560.5	20298.4	18856.0
52°	347.6	365.0	425.8	504.0	451.8	1068.8	2745.8	8628.6	18790.8	20246.3	18595.3
52.5°	343.2	356.3	412.7	495.3	430.1	1051.4	2706.7	8693.7	18864.7	20115.9	18773.4
55°	304.1	321.5	378.0	386.7	351.9	864.6	2580.8	8841.5	18499.7	19859.6	18604.0
57.5°	286.8	295.4	334.5	317.2	304.1	651.7	2220.1	8611.2	16431.6	17639.5	17309.3
60°	265.0	273.7	312.8	247.6	256.3	456.2	1668.4	7477.2	13194.8	14698.1	15293.3
62.5°	256.3	252.0	295.4	199.9	217.2	330.2	1177.4	6078.2	10166.6	12100.0	13129.7
65°	225.9	221.6	212.9	169.4	186.8	256.3	703.8	3966.7	7164.4	9154.3	9719.1
67.5°	173.8	182.5	156.4	134.7	156.4	199.9	391.0	1777.0	3758.2	5491.7	5947.9
70°	121.7	130.3	126.0	117.3	139.0	165.1	225.9	608.3	1555.4	2884.9	3180.3
72.5°	73.9	91.2	95.6	99.9	121.7	143.4	160.8	195.5	412.7	1021.0	1268.7
75°	43.4	60.8	73.9	86.9	99.9	121.7	134.7	139.0	143.4	191.2	308.5
77.5°	30.4	43.4	65.2	82.5	99.9	121.7	143.4	152.1	143.4	134.7	143.4
80°	26.1	43.4	60.8	78.2	104.3	126.0	143.4	143.4	139.0	121.7	130.3
82.5°	26.1	43.4	65.2	82.5	99.9	121.7	139.0	143.4	130.3	121.7	126.0
85°	30.4	47.8	69.5	86.9	108.6	99.9	91.2	73.9	69.5	56.5	60.8
87.5°	30.4	43.4	43.4	47.8	52.1	52.1	52.1	47.8	39.1	34.8	34.8
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°	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0	11105.0
2.5°	12134.7	12482.3	12469.3	12478.0	12425.8	12073.9	11904.5	11474.3	11596.0	11543.9
5°	12599.6	12942.9	13238.3	13203.5	12803.8	12325.9	11617.7	10948.6	10766.2	10496.8
7.5°	12134.7	12960.2	13233.9	13194.8	12604.0	11991.4	10861.7	10192.7	9875.5	9697.4
10°	11396.1	12352.0	12690.9	12760.4	12360.7	11430.9	10392.5	9319.4	9149.9	8841.5
12.5°	10974.7	11669.9	11878.4	12065.2	11926.2	11231.0	10036.3	9006.6	8771.9	8567.7
15°	10631.5	11044.2	11131.1	11344.0	11426.6	11052.9	10223.1	9345.4	8767.6	8745.9
17.5°	10948.6	10779.2	10462.0	10527.2	10787.9	11057.3	10705.3	10014.5	9454.1	9384.5
20°	11474.3	10727.1	10010.2	10170.9	10388.2	11213.7	11435.2	10948.6	10627.1	10449.0
22.5°	12078.3	10818.3	9866.8	9945.0	10357.8	11565.6	12617.0	12347.6	11748.1	11491.7
25°	13194.8	11070.3	9979.8	10031.9	10596.7	12056.5	13685.8	13885.7	13529.4	13477.3
27.5°	14285.4	11722.0	10227.4	10110.1	10718.4	12534.5	14333.2	15406.3	14780.7	14659.0
30°	14841.5	12252.0	10596.7	10396.9	11222.4	12825.5	14724.2	16396.9	15849.5	15793.0
32.5°	15693.0	12734.3	10883.5	10627.1	11504.8	13186.2	15454.1	17478.7	16948.7	16666.3
35°	16049.3	13260.0	11513.4	11213.7	12312.9	13690.1	15827.7	18443.2	18278.1	18004.4
37.5°	16735.8	13824.8	12256.4	12239.0	13290.4	14346.2	16501.2	19755.3	19724.9	19251.4
40°	16792.3	14441.8	13429.5	13976.9	14802.4	15488.8	17092.0	20120.3	20615.6	20294.1
42.5°	16879.1	15523.6	15458.4	15910.3	16618.5	16470.7	17113.8	20207.2	20963.2	20772.0
45°	16918.3	16605.4	17522.2	18356.3	18651.8	17756.8	16909.6	20042.1	21145.6	20667.7
47.5°	16605.4	17535.2	19190.5	20802.4	20889.3	18547.5	16822.7	19872.6	21254.3	20937.1
50°	16648.9	18117.4	20633.0	22075.4	21758.2	19247.0	16688.0	19768.4	21197.8	20984.9
52°	16544.6	18130.4	20837.2	22049.3	21827.8	18860.3	16457.7	19368.7	21145.6	21297.7
52.5°	16661.9	18052.2	20624.3	22066.7	21780.0	19051.5	16427.3	19590.2	21176.1	20867.6
55°	16257.9	17122.5	19377.3	19990.0	19946.5	17291.9	15493.2	18856.0	20381.0	20385.3
57.5°	14693.8	14841.5	15197.8	15184.7	14984.9	13594.6	13251.3	17339.7	18169.5	17717.7
60°	12947.2	10866.1	9905.9	9514.9	9293.3	9067.4	11722.0	15862.5	15940.7	15749.5
62.5°	11187.6	7533.7	6256.4	6147.7	6199.9	7025.4	11331.0	15276.0	14806.7	14394.0
65°	9028.3	5491.7	4544.6	4401.2	4909.5	5800.2	9171.7	11713.3	10992.1	10648.9
67.5°	5669.8	4005.8	3071.7	2802.3	3414.9	3992.8	6026.1	7359.9	6551.8	6078.2
70°	3362.8	2237.5	1390.3	1246.9	1403.3	2128.9	3375.8	3671.3	3036.9	2793.6
72.5°	1325.1	821.1	386.7	330.2	343.2	747.3	1242.6	1212.2	916.7	816.8
75°	356.3	247.6	134.7	108.6	91.2	139.0	199.9	130.3	47.8	60.8
77.5°	165.1	147.7	117.3	91.2	69.5	52.1	26.1	8.7	8.7	4.3
80°	143.4	126.0	108.6	91.2	69.5	43.4	21.7	4.3	4.3	4.3
82.5°	134.7	117.3	99.9	82.5	65.2	43.4	21.7	4.3	0.0	0.0
85°	56.5	73.9	82.5	78.2	69.5	43.4	21.7	4.3	0.0	0.0
87.5°	30.4	26.1	21.7	17.4	13.0	8.7	8.7	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

(END OF REPORT)